



SUNWAY[®] *Pushing The Frontiers Of Sustainable Development*

Pushing The Frontiers of Sustainable Development



Sustainable development, including socio-economic goals, has been a component of our business framework for over four decades as we expand our global presence and work towards a sustainable future.

Sunway is committed to the United Nations Sustainable Development Goals (UNSDGs) and continues to align its business model, operating strategies and corporate culture with sustainable practices and solutions in line with the UNSDG agenda.

We have become one of Malaysia's largest conglomerates and woven sustainable development into the very fabric of the Sunway Group and its entities. This report examines Sunway's positive effect on the planet and its people as we continue to 'Push the Frontiers of Sustainable Development'.

Each year, Sunway publishes a standalone sustainability report that discusses the Group's handling of the most material environmental, social and governance issues. Complementing the annual report, this disclosure focuses on issues that are deemed most material to our business through stakeholder consultation and materiality analysis.

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Scope of Report

SUSTAINABILITY CONTEXT

The Global Reporting Initiative (GRI) Standards, one of the most widely used sustainability reporting frameworks, have been followed in structuring the report. Initiatives have also been aligned with the 17 UNSDGs as this framework allows the impact of programmes to be clearly presented. The report also fully complies with the Bursa Malaysia Sustainability Framework as it is the regulatory framework in Malaysia. Together, these guidelines present our sustainability programmes both clearly and accurately.

Reporting Period

1 January to 31 December 2018

Reporting Cycle

Annually

Coverage

This sustainability report covers Sunway Berhad, a public listed entity, and its subsidiaries. Sunway Berhad's divisions including Real Estate, Construction, Retail, Hospitality, Leisure, Healthcare, Education, Commercial, REIT, Trading and Manufacturing, Quarry and Building Materials have also been disclosed. More detailed information on Sunway's divisions and subsidiaries can be found in the Organisational Structure section of this report. References to 'Sunway', 'Sunway Group', 'the Company', 'the Organisation', 'the Group' and 'we' refer to Sunway Berhad and/or its divisions and subsidiaries.

We also report the activities of the Jeffrey Cheah Foundation (JCF). Established in March 1997 as the Sunway Education Trust, it was converted to JCF in March 2010. JCF owns and governs the 16 educational institutions and entities of Sunway Education Group. The ownership and equity of the learning institutions, valued at more than RMI billion today, were transferred to JCF, in perpetuity. Undoubtedly, JCF would not be in existence today without the selfless contributions made by Sunway and its Founder and Chairman, Tan Sri Dato' Seri Dr Jeffrey Cheah AO (to be henceforth referred to as Tan Sri Dr Jeffrey Cheah AO).

Some Sunway REIT initiatives have also been reported as Sunway Berhad is the majority shareholder in this public listed company.

Group data and information are presented whenever possible. However, initiatives and/or data by particular divisions or subsidiaries have been highlighted as indicated in the text.

REFERENCES AND GUIDELINES

Principal Guideline

- Global Reporting Initiative (GRI) Standards

Additional Guidelines

- Bursa Malaysia's Sustainability Reporting Guide
- United Nations Sustainable Development Goals
- International Organisation for Standardisation (ISO) 26000:2010 Guidance on Social Responsibility
- FTSE4Good Bursa Malaysia Index and other local and international sustainability ratings
- Judges' comments from various sustainability reporting awards

MATERIALITY AND RELEVANCE OF INFORMATION DISCLOSED

An external consultant was commissioned in 2017 to conduct a comprehensive materiality study with all divisions, stakeholder groups and Sunway's Board of Directors. The study identifies the economic, social and environmental topics that are aligned with our #Sunwayforgood agenda and should be prioritised in the report.

The results of the materiality matrix were presented to senior executives across all business units for review prior to the publication of this report. The findings were deemed to be relevant and current. It was felt that there was no benefit to repeating this exercise in 2018.

Aligning Material Sustainability and Sunway Brand

A brand audit exercise was carried out at the end of 2018 in order to chart the strategic direction of Sunway Group's branding efforts. Brand Finance, the world's leading independent brand valuation and strategy consultancy, was engaged to undertake this audit.

This exercise aimed to identify internal and external stakeholders' key perceptions of Sunway Group and determine its current brand value.

We have aligned the results of the brand audit with our materiality exercise. The most effective strategy was mapped to build a cohesive brand identity among the 12 business divisions of the Sunway brand. Details of the Brand Audit exercise are explained in this report.

Feedback

This report is available to all stakeholders in hard copy on request. Alternatively, it can be downloaded from our corporate website www.sunway.com.my.

For further information, please contact:

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Group Brand Marketing & Communications,
Sunway Group,
Level 18, Menara Sunway,
Jalan Lagoon Timur, Bandar Sunway,
47500 Selangor Darul Ehsan,
Malaysia.
Tel: +603 5639 8889
Fax: +603 5639 9502

Message from the Founder and Chairman



I am proud to present the Sunway Berhad Sustainability Report 2018. Sustainability is not a new concept for Sunway and me. My views on sustainability were shaped by my formative years growing up in a small town called Pusing in the northern state of Perak. I witnessed first-hand the impact of poverty on families and how it closed off avenues for advancement, particularly in education, for the children.

And Pusing, back then, was largely a tin-mining town. You could not fail to notice the ugly scars on the landscape left by disused mining pools.

Poverty and environmental degeneration are not abstract concepts for me, but part of my personal experience. They helped form my convictions that education provided the best route out of poverty, and that we needed to help heal a bleeding Mother Earth. I firmly believed that those who benefitted from Mother Earth's resources have a duty and an obligation to give back to society.

The very birth of the Sunway Group was founded in the concept of sustainable development. It began with the development of Sunway City Kuala Lumpur, Malaysia's first integrated green township more than four decades ago. Sunway rehabilitated 800 acres of abandoned and disused mining pools, transforming what had been a wasteland into a wonderland. It is now home to a thriving community of more than 200,000 people living, working, playing and studying in a safe, healthy and connected environment.

From its formation in 1974, Sunway Group is one of Malaysia's largest conglomerates with core interests in property, construction, education and healthcare. We are a 16,000-strong team operating in 50 locations worldwide, pulling together to improve the quality of life of our communities through 12 business divisions.

Sunway Group's unique build-own-operate business model powers the growth of sustainable communities and integrated townships including Sunway City Kuala Lumpur, Sunway City Ipoh and the upcoming Sunway Iskandar in Johor, which collectively span 5,000 acres.

Our unique business model inevitably defines us as an active member of the communities we serve. Being present on the frontlines means we share the success of our community while being fully aware of any shortcomings in our townships, making us a model corporate citizen, guided by our core values of Integrity, Humility and Excellence.

Sustainability is emphasised in the Group's Vision Statement — to be Asia's model corporation in sustainable development, innovating to enrich lives for a better tomorrow. We are proud to be recognised for our continued progress in advancing the sustainable development agenda in Malaysia and the region.

Our sustainability governance strategy is robust. A specialist unit, Sunway Sustainability Solutions team, is responsible for integrating sustainable development principles and practices into Sunway's policies, plans, management and operations. Sustainability Key Performance Indicators and targets will be set and will be closely monitored through a centralised data recording system that allows us to track and report our Group-wide adherence to our sustainability commitment.

2018 was full of accomplishments by Sunway in the sustainability sphere. Milestones for the year included:

- Authorisation from Ministry of Health and Polis Diraja Malaysia (PDRM) for our auxiliary police team to strictly enforce our no smoking policy for all Sunway owned buildings at Sunway City Kuala Lumpur;
- Launching of the Master in Sustainable Development Management degree programme by the Jeffrey Sachs Center on Sustainable Development at Sunway University. The course was personally designed by Professor Jeffrey Sachs, the chairman of the centre and

the special advisor on sustainable development to the Secretary-General of the United Nations;

- Major public awareness campaign, themed Join Hands and Make A Pledge, where the community of Sunway City Kuala Lumpur were invited to come together across the township and pledge themselves to advancing the sustainable development agenda;
- Launching of #thelaststraw campaign by Sunway University in which the campus banned single-use plastic straws and out free multi-use metal straws to the students;
- The completion of what we call the EcoWalk, powered by its own solar panels that added to our growing link of connected walkways in Sunway City Kuala Lumpur. The elevated walkways that we have built and continue to construct help mitigate traffic congestion, reduce carbon emissions and promote public health by providing safe and secure pathways for use by the residents;
- Community programmes by our business divisions that focused on many of the 17 Sustainable Development Goals (SDG) adopted by the United Nations in 2015.

Let me stress here that we do not consider these achievements as a point of arrival but rather a stepping stone towards overcoming increasingly ambitious challenges in advancing the sustainable development agenda. We constantly focus on our commitments to the communities we serve and the planet we live on.

It is this broad-based value-driven philosophy that underpins Sunway's approach to sustainability. Through our efforts we seek to demonstrate daily that corporations can do well by doing good. Together with the Board of Directors, management team and Sunwayians, we pledge that Sunway will continue to be fully committed to the sustainable development agenda.

At Sunway, we acknowledge that realising the 17 UNSDGs is not the responsibility of governments alone. It requires the commitment and collective effort of all sectors of society — the private sector, academia, civil society and, of course, every single individual.

We are all in this together.

TAN SRI DR JEFFREY CHEAH AO
Founder and Chairman

About Sunway

Established in 1974, Sunway Group is one of Malaysia's largest conglomerates with core interests in property, construction, education, healthcare and retail among its 12 business divisions across 50 locations worldwide and a 16,000-strong employee base. Our business divisions comprise Real Estate, Construction, Hospitality, Retail, Leisure, Commercial, Trading and Manufacturing, Building Materials, Quarrying, Healthcare, Education and Real Estate Investment Trust (REIT).

In 2018, Sunway Berhad reclassified its listing status from Trading/Services to Industrial Products and Services counter on Main Board of Bursa Malaysia Securities. This reclassification more appropriately reflects Sunway's strength as a conglomerate with diverse yet complementary businesses that are mostly in leadership positions in their respective sections.

Sunway Group continues to champion Corporate Responsibility through #sunwayforgood which includes our commitment to creating value for the people while conserving the planet and making a sustainable profit.



Vision

To be Asia's model corporation in sustainable development, innovating to enrich lives for a better tomorrow



Mission

- Empowering our people to deliver enhanced value to all stakeholders
- Embracing sustainability in our business processes and decisions
- Attracting and nurturing a talented and progressive workforce for the digital era

OUR CORE VALUES

Integrity

We believe in doing the right thing at all times

- We conduct ourselves in an honest and trustworthy manner
- We act professionally, ethically and honourably
- We ensure our actions are consistent with our words

Humility

We believe in being humble, polite and respectful

- We never stop learning
- We care for and respect people and the environment
- We seek first to understand, then to be understood

Excellence

We take pride in all that we do

- We strive to deliver high quality products and services
- We continuously innovate and improve for greater progress
- We seek to inspire others to excel

What We Do



PROPERTY



CONSTRUCTION



RETAIL



LEISURE



HEALTHCARE



HOSPITALITY



TRADING & MANUFACTURING



EDUCATION



COMMERCIAL



QUARRYING



BUILDING MATERIALS



REIT

Group Corporate Structure

PROPERTY DEVELOPMENT

- Sunway Integrated Properties Sdn Bhd
- Sunway South Quay Sdn Bhd
- Sunway PKNS Sdn Bhd
- Sunway D'Mont Kiara Sdn Bhd
- Sunway City (Penang) Sdn Bhd
- Sunway Bintang Sdn Bhd
- Sunway City Properties Sdn Bhd
- Sunway City (Ipoh) Sdn Bhd
- Sunway Tunas Sdn Bhd
- Sunway Semenyih Sdn Bhd
- Sunway City (JB) Sdn Bhd
- Sunway Iskandar Sdn Bhd *
- Sunway Iskandar Development Sdn Bhd *
- Sunway Monterez Sdn Bhd
- Sunway Grand Sdn Bhd
- Sunway Melawati Sdn Bhd
- SunwayMas Sdn Bhd
- Sunway Termuning Sdn Bhd
- Sunway Rawang Heights Sdn Bhd
- Sunway Kanching Heights Sdn Bhd
- Sunway Bangi Sdn Bhd
- Sunway Eastwood Sdn Bhd
- Sunway Kiara Sdn Bhd
- Sunway Subang Sdn Bhd
- Sunway Serene Sdn Bhd
- Sunway Marketplace Sdn Bhd *
- Sunway Parkview Sdn Bhd *
- Sunway Seafront Sdn Bhd *
- Sunway Velocity Two Sdn Bhd *
- Sunway Kinrara Sdn Bhd
- Hoi Hup Sunway Development Pte Ltd *##
- Hoi Hup Sunway J.V. Pte Ltd *##
- Hoi Hup Sunway Property Pte Ltd *##
- Hoi Hup Sunway Miltonia Pte Ltd *##
- Hoi Hup Sunway Tampines Pte Ltd *##
- Hoi Hup Sunway Yuan Ching Pte Ltd *##
- Hoi Hup Sunway Pasir Ris Pte Ltd *##
- Hoi Hup Sunway Mount Sophia Pte Ltd *##
- Hoi Hup Sunway Sengkang Pte Ltd *##
- Hoi Hup Sunway Clementi Pte Ltd *##
- Hoi Hup Sunway Canberra Pte Ltd *##
- Sunway Australia Unit Trust #
- Sunway Guanghao Real Estate (Jiangyin) Co. Ltd #
- Tianjin Eco-City Sunway Property Development Co. Ltd *##

- Associated Circle Sdn Bhd
- Commercial Parade Sdn Bhd
- Bisikan Seni Sdn Bhd
- Imbasan Intisari Sdn Bhd
- Tidal Elegance Sdn Bhd
- Emerald Freight Sdn Bhd
- Park Symphony Sdn Bhd
- Winning Excellence Sdn Bhd
- Contemporary Factor Sdn Bhd
- Prosper Revenue Sdn Bhd
- Sunway Belfield Sdn Bhd
- Sunway Avila Sdn Bhd (formerly known as Sunglobal Resources Sdn Bhd) *
- Sunway Supply Chain Enterprise Sdn Bhd
- Daksina Harta Sdn Bhd *
- Sunway Permai Sdn Bhd
- Sunway GD Piling Sdn Bhd

PROPERTY INVESTMENT

- Sunway Pinnacle Sdn Bhd
- Sunway Giza Mall Sdn Bhd
- Sunway Giza Parking Sdn Bhd
- Sunway Destiny Sdn Bhd
- Sunway MUSC Sdn Bhd
- Sunway Monash-U Residence Sdn Bhd
- Sunway Residence Sdn Bhd
- Sunway Pyramid Development Sdn Bhd
- Sunway Velocity Mall Sdn Bhd *
- Sunway REIT Management Sdn Bhd *
- Sunway Real Estate Investment Trust *^
- Sunway PFM Sdn Bhd
- Sunway IFM Sdn Bhd
- Sunway Parking Services Sdn Bhd
- Sunway Mall Parking Sdn Bhd
- Sunway Ambience Sdn Bhd
- Sunway Facility Management Sdn Bhd
- Sunway Symphony Sdn Bhd
- Sunway Century Sdn Bhd
- Rich Worldclass Sdn Bhd
- Sunway Tower I Sdn Bhd
- Sunway Townhouse Sdn Bhd
- Sunway Orient Sdn Bhd
- Sumber Dorongan Sdn Bhd
- Sunway Nexis Parking Sdn Bhd
- Sunway Transit System Sdn Bhd

- Sunway Geo Parking Sdn Bhd
- Sunway REM Sdn Bhd
- Sunway Geo Sdn Bhd
- Sunway International Vacation Club Sdn Bhd
- Reptolink Sdn Bhd
- Galaxy Avenue Sdn Bhd
- Sunway Sustainability Solutions Sdn Bhd
- Sunway Leisure Sdn Bhd

LEISURE

- Sunway Lagoon Sdn Bhd
- Sunway Lost World Water Park Sdn Bhd
- Sunway Lagoon Club Berhad
- Sunway Travel Sdn Bhd
- Sunway Healthy Lifestyle Sdn Bhd
- Sunway Synergy Sdn Bhd (formerly known as Sunway Leisure Services Sdn Bhd)
- Pyramid Bowl Sdn Bhd *

HOSPITALITY

- Sunway Resort Hotel Sdn Bhd
- Sunway Velocity Hotel Sdn Bhd *
- Sunway Putra Hotel Sdn Bhd
- Sunway Biz Hotel Sdn Bhd
- Sunway Hotel (Seberang Jaya) Sdn Bhd
- Sunway Lost World Hotel Sdn Bhd
- Sunway International Hotels & Resorts Sdn Bhd
- Kinta Sunway Resort Sdn Bhd
- Sunway Hotel Phnom Penh Ltd #
- Sunway Hotel Hanoi Liability Limited Company with one member #

CONSTRUCTION

- Sunway Construction Sdn Bhd
- Sunway Engineering Sdn Bhd
- Sunway Concrete Products (S) Pte Ltd #
- Sunway Geotechnics (M) Sdn Bhd
- Sunway Precast Industries Sdn Bhd
- Sunway Machinery Sdn Bhd
- Sunway Concrete Products (M) Sdn Bhd

TRADING AND MANUFACTURING

- Sunway Marketing Sdn Bhd
- Sunway Enterprise (1988) Sdn Bhd
- Sunway Hydraulic Industries Sdn Bhd
- Sunway Marketing (East Malaysia) Sdn Bhd
- Sunway Hose Centre Sdn Bhd
- Sunway Marketing (S) Pte Ltd #
- Sunway Marketing (Thailand) Ltd #
- Sunway Marketing (Vietnam) Co Ltd #
- PT Sunway Flowtech #
- PT Sunway Trek Masindo #
- PT Sunway Pacific Flow #
- Sunway TotalRubber Ltd #
- Sunway TotalRubber Services Franchising Pty Ltd #
- Sunway Hydraulic Industries (Wuhu) Co Ltd #
- Sunway Trading (Shanghai) Pte Ltd #
- Sunway Daechang Forging (Anhui) Co Ltd #
- Sunway Winstar Sdn Bhd
- Sunway Saf-T-Quip Sdn Bhd
- Sunway United Star Sdn Bhd
- Sunway Hsing Yeat Sdn Bhd
- Sunway Coating Solutions Sdn Bhd
- Jaya DIY Mart Sdn Bhd

QUARRY

- Sunway Quarry Industries Sdn Bhd
- Sunway Quarry (Kuala Kangsar) Sdn Bhd
- Sunway Quarry Industries (Melaka) Sdn Bhd
- Twinners (Malaysia) Sdn Bhd

BUILDING MATERIALS

- Sunway Paving Solutions Sdn Bhd
- Sunway Paving Solutions (Sabah) Sdn Bhd (formerly known as Telipok Concrete Sdn Bhd)
- Sunway VCP Sdn Bhd
- Sunway Spun Pile (M) Sdn Bhd
- Sunway Spun Pile (Zhuhai) Co Ltd #

HEALTHCARE

- Sunway Medical Centre Sdn Bhd
- SunMed@Homes Sdn Bhd
- SunMed Clinics Sdn Bhd
- SunMed Velocity Sdn Bhd
- Sunway Specialist Centre Sdn Bhd
- Sunway Medical Centre (Singapore) Pte Ltd #

Group Corporate Structure

INVESTMENT HOLDINGS AND OTHERS

- Sunway City Sdn Bhd
- Sunway Holdings Sdn Bhd
- Sunway Holdings (Vietnam) Sdn Bhd
- Sunway Global Limited #
- Sunway Management Sdn Bhd
- Sunway Management Services Sdn Bhd (formerly known as Allson International Hotels & Resorts Sdn Bhd)
- Sunway Shared Services Sdn Bhd
- Sunway HR Shared Services Sdn Bhd
- Sunway Leasing Sdn Bhd
- SWL Nominees (Tempatan) Sdn Bhd
- Sunway Elite Sdn Bhd
- Sunway Credit Sdn Bhd
- Sunway Risk Management Sdn Bhd
- Sunway Captive Insurance Ltd
- Gopeng Berhad *^
- Sunway City (S'pore) Pte Ltd #
- Sunway Real Estate (China) Limited #
- Eastern Glory Enterprises Limited #
- Sunway REIT Holdings Sdn Bhd
- Sunway Treasury Sdn Bhd
- Sunway Treasury Sukuk Sdn Bhd
- Sunway Investment Management Consultancy (Shanghai) Co. Ltd #
- International Theme Park Pty Ltd #
- Sunway Developments Pte Ltd #
- Fortuna Gembira Enterpris Sdn Bhd
- Hartford Lane Pty Ltd #
- Sunway FSSC Sdn Bhd
- Sunway Labuan Investment Ltd
- Sunway Pals Loyalty Sdn Bhd
- Deco Style Sdn Bhd
- Sunway Design Sdn Bhd
- Sunway Construction Group Berhad ^
- Sunway Pendas Management Sdn Bhd
- Sunway Southern Management Sdn Bhd
- Sunway Brands Sdn Bhd
- Sunway Money Sdn Bhd
- Sunway Pharma Sdn Bhd
- Sunway PopBox Sdn Bhd
- Monumental Productions Sdn Bhd
- Sun Sea Capital Sdn Bhd
- Sunway Ventures Sdn Bhd
- Sunway Leadership Centre Sdn Bhd
- Pasir Mas Holdings Sdn Bhd
- Fame Parade Sdn Bhd
- Emerald Tycoon Sdn Bhd
- Sunway Quantum Sdn Bhd (formerly known as Sunway Ordera Sdn Bhd)
- Sunway (Tianjin) Management Consultancy Co. Ltd. #
- Sunway Land Pte Ltd #
- Sunway City India Private Limited #
- SunCity Vietnam Sdn Bhd
- Konsep Objektif (M) Sdn Bhd

Notes:

This Group Corporate Structure excludes dormant companies.

Overseas company

^ Public listed company

* Associated company / Jointly-controlled entity



Board of Directors



**TAN SRI DATO' SERI DR
JEFFREY CHEAH FOOK LING AO**
EXECUTIVE CHAIRMAN,
NON-INDEPENDENT EXECUTIVE DIRECTOR
Malaysian, Male



DATO' SRI IDRIS JALA
NON-EXECUTIVE CO-CHAIRMAN,
INDEPENDENT NON-EXECUTIVE DIRECTOR
Malaysian, Male



**TAN SRI DATUK SERI
RAZMAN M HASHIM**
DEPUTY EXECUTIVE CHAIRMAN,
NON-INDEPENDENT EXECUTIVE DIRECTOR
Malaysian, Male



DATO' CHEW CHEE KIN
PRESIDENT,
NON-INDEPENDENT EXECUTIVE DIRECTOR
Malaysian, Male

Board of Directors



SARENA CHEAH YEAP TIH, s.m.s.
EXECUTIVE DIRECTOR
NON-INDEPENDENT EXECUTIVE DIRECTOR
Malaysian, Female



WONG CHIN MUN
SENIOR INDEPENDENT
NON-EXECUTIVE DIRECTOR
Malaysian, Male



LIM SWE GUAN
INDEPENDENT NON-EXECUTIVE DIRECTOR
Singaporean, Male



TAN SRI DATO' DR. LIN SEE YAN
INDEPENDENT NON-EXECUTIVE DIRECTOR
Malaysian, Male



**TAN SRI DATUK DR REBECCA FATIMA
STA MARIA**
INDEPENDENT NON-EXECUTIVE
DIRECTOR
Malaysian, Female

Notes:

1. FAMILY RELATIONSHIP WITH DIRECTOR AND/OR MAJOR SHAREHOLDER

Tan Sri Dato' Seri Dr Jeffrey Cheah Fook Ling who is the Executive Chairman and major shareholder of Sunway, is the father of Sarena Cheah Yean Tih, the Executive Director.

Save as disclosed above, none of the other Directors has any family relationship with any director and/or major shareholder of Sunway.

2. CONFLICT OF INTEREST

Tan Sri Datuk Seri Razman M Hashim is a Director of Berjaya Land Berhad and its subsidiaries, Selat Makmur Sdn Bhd and FEAB Properties Sdn Bhd of which principal activities are similar to Sunway Group, which include property development and investment holding.

Save as disclosed above, none of the other Directors has any conflict of interest with Sunway Group.

3. CONVICTION FOR OFFENCES

None of the Directors has any conviction for offences within the past 5 years other than traffic offences (if any) nor public sanctions or penalty imposed by the relevant regulatory bodies during the financial year.

4. ATTENDANCE OF BOARD MEETINGS

The attendance of the Directors at Board Meetings held during the financial year ended 31 December 2018 is disclosed in the Corporate Governance Overview Statement.

Please refer to the Sunway Berhad Annual Report 2018 for the Corporate Governance Overview Statement.

Management Team



DATO' TAN KIA LOKE

SENIOR MANAGING DIRECTOR –
CHAIRMAN'S OFFICE

Malaysian, Male

Bachelor of Science (Hons) Degree
in Civil Engineering, University of
Strathclyde, United Kingdom



EVAN CHEAH YEAN SHIN

EXECUTIVE VICE PRESIDENT -
PRESIDENT'S OFFICE,
CHIEF EXECUTIVE OFFICER -
CHINA

Malaysian, Male

Bachelor's Degree in Commerce
and Bachelor's Degree in Business
Systems, Monash University



CHONG CHANG CHOONG

GROUP CHIEF FINANCIAL
OFFICER

Malaysian, Male

Bachelor of Arts (Honours) in
Economics and Accounting,
University of Newcastle Upon Tyne,
England



LEE CHUAN SENG

CHIEF EXECUTIVE OFFICER -
QUARRY DIVISION

Malaysian, Male

Chartered Accountant, Chartered
Institute of Management Accountants,
United Kingdom

Masters in Business Administration,
Victoria University of Technology,
Australia



DANNY NG BOON LIANG

CHIEF EXECUTIVE OFFICER –
BUILDING MATERIALS DIVISION

Malaysian, Male

Bachelor of Economics (Business
Administration),
University of Malaya



CHAN HOI CHOY

CHIEF EXECUTIVE OFFICER –
SUNWAY SHOPPING MALLS
AND THEME PARKS

Malaysian, Male

Bachelor of Science (Hons) degree in
Managerial and Administrative Studies,
University of Aston,
Birmingham, United Kingdom



DATO' LEE WENG KENG (DR)

CHIEF EXECUTIVE OFFICER –
HEALTHCARE DIVISION
Malaysian, Male
Bachelor of Economics (Honours)
Degree, University of Malaya;
Masters in Business Administration,
Cranfield University, United Kingdom



CHUNG SOO KIONG

MANAGING DIRECTOR –
CONSTRUCTION DIVISION
Malaysian, Male
Bachelor of Science (Hons) Degree
in Quantity Surveying, University of
Abertay Dundee;
Diploma in Building (Technology),
Tunku Abdul Rahman College



WONG FOOK CHAI

CHIEF EXECUTIVE OFFICER –
TRADING AND MANUFACTURING
DIVISION
Malaysian, Male
Bachelor of Engineering (Honours),
University of Malaya



LAU BENG LONG

MANAGING DIRECTOR -
HEALTHCARE DIVISION
Malaysian, Male
Bachelor of Science (Hons),
Universiti Sains Malaysia;
Masters in Healthcare Administration,
University of New South Wales;
Postgrad Diploma in Public
Administration, National Institute
of Public Administration (INTAN)



FOO SHIANG WYNE

CHIEF HUMAN RESOURCES
OFFICER – GROUP HUMAN
RESOURCES
Malaysian, Female
Bachelor of Science (Hons) in
Computer Science,
University of Sussex, United Kingdom;
Masters in Business Administration,
Cardiff Business School, United
Kingdom

Notes:

**1. FAMILY RELATIONSHIP WITH
DIRECTOR AND /OR MAJOR
SHAREHOLDER**

Evan Cheah Yean Shin is the child of Tan Sri Dato' Seri Dr Jeffrey Cheah Fook Ling who is the Executive Chairman and major shareholder of Sunway and he is the sibling of Sarena Cheah Yean Tih, the Executive Director of Sunway.

Save as disclosed above, none of the other Senior Management members has any family relationship with any director and/or major shareholder of Sunway.

2. CONFLICT OF INTEREST

None of the Senior Management members has any conflict of interest with Sunway Group.

3. CONVICTION FOR OFFENCES

None of the Senior Management members has any conviction for offences within the past 5 years other than traffic offences, if any. They have not been imposed any penalty by any relevant regulatory bodies during the financial year 2018.

Awards and Recognitions

- Sunway Group received the Prime Minister's Award at the Tourism Malaysia Awards 2016/2017.
- Sunway Berhad received two StarProperty.my Awards: the All-Star Awards Top Ranked Developer of the Year and the Five Elements Award for Sunway Iskandar.
- Malaysian Institute of Management's (MIM) Court of Emeritus Fellowship was conferred on Tan Sri Dr Jeffrey Cheah AO.
- Sunway City was recently recognised as an Inclusive Development by the Selangor Town and Country Planning Department.

PROPERTY

- Sunway Property & Facilities Management (SPFM) received a Gold award for Menara Sunway in the 'Non-Strata Office Development of More than 10 Years' category at the EdgeProp Malaysia's Best Managed Property Awards 2018.
- Sunway Property won gold in the Property Development category at the Putra Brand Awards.
- Sunway Iskandar won two awards for StarProperty Jewels of Johor in 2018. Sunway Iskandar also won Best Comprehensive Township at the StarProperty Awards (Nation) 2018. Sunway Lenang Heights won The Best Quality and Finishing Development-Excellence award.
- Sunway Property came fifth in The Edge Property Excellence Award 2018 and Sunway Medical Centre won the Pioneer Development Award 2018.
- Sunway Property received the Asia-Pacific Property Development Competitive Strategy Innovation and Leadership award by Frost & Sullivan.

BUILDING MATERIALS

- Sunway Paving Solutions won the Honour Landscape Green Products Award in the Landscape Supplier or Manufacturer Category at the Malaysia Landscape Architecture Awards 2018.
- Sunway Building Materials, Sunway Hotel Georgetown and Sunway IT Shared Services won the AON Best Employers Award 2018.
- Sunway Paving Solutions achieved Level 5 (Excellent category) for 2018 in the Systematic Occupational Health Enhancement Programme (Sohelp) organised by Department of Occupational Safety and Health.

RETAIL

- Sunway Putra Mall received the Best Shopping Centre (Integrated Shopping Centre) Award at the Tourism Malaysia Awards 2016/2017. Both Sunway Velocity Mall and Sunway Pyramid were also shortlisted.
- Sunway Malls won The HR Asia Best Companies to Work for in Asia 2018 award.
- Sunway Putra Mall won the International Council of Shopping Centers Foundation Asia-Pacific Community Support Award 2018.
- Sunway Velocity Mall received the FIABCI Malaysia Property Award 2018 in the Retail category.
- Sunway Pyramid Mall was recognised as one of the InfluentialBrands® Top Brand award 2018.
- Sunway Putra Mall won the Best Experiential Marketing Gold Award for the "Mid-Autumn Festival" Campaign (Category B: 500,001-999,999 square feet) 2018 by PPK Malaysia.
- Sunway Putra Mall entered the Malaysia Book of Records for the Highest Number of Origami Rabbits, 2018.
- Sunway Velocity Mall received the Certificate of Excellence 2018 from TripAdvisor.
- Sunway Velocity Mall won the Bronze award for Best Loyalty Programme - Retailer, in the Loyalty & Engagement Awards 2018 by Marketing.
- Sunway Velocity Mall was recognised at the Malaysia Social Media Week 2018 - Social Media Excellence Award in the Best Shopping Mall category.
- Sunway Velocity Mall was recognised at the Excellence in Customer Digital Engagement 2018 by Malaysia Digital Chamber of Commerce (MDCC).

MEDICAL

- Medical Tourism Hospital of the Year in Asia Pacific, alongside Thailand's Bumrungrad Hospital, Oncology Service Provider of the Year in Asia Pacific and Neurology Service Provider of the Year in Asia Pacific at the Global Health and Travel Awards 2018.
- Best Fertility Centre Award in Parenthood Magazine Malaysia's Parents' Choice Awards 2018.
- Pioneer Development Award 2018 at The Edge Property Excellence Awards 2018.
- Healthcare CSR Company of the Year under the Best Practices Award 2018 by Frost & Sullivan.

HOSPITALITY

- The Banjaran Hotsprings Retreat received a rating of 9.3 on the Booking.com Guest Review Award.
- The Banjaran Hotsprings Retreat clinched TripAdvisor's 2018 Travellers' Choice Awards for the sixth consecutive year in four categories: Top 25 Hotels in Malaysia, Top 25 Hotels for Romance, Top 25 Luxury Hotels and Top 25 Hotels for Service in Malaysia.
- The Banjaran Hotsprings Retreat was certified by Green Globe in the Hotel & Resort category.
- The Banjaran Hotsprings Retreat won two awards categories at the Lux Life Food & Drink Awards 2018: Most Unique Dining Experience 2018 and Wine Bar of the Year 2018.
- Sunway Resort Hotel & Spa won the Agoda Gold Circle Awards 2018 - Top 1% of Agoda's top hotels in Malaysia.
- Sunway Hotel Georgetown Penang won the Best Business Hotel by Ctrip in December 2018.
- Sunway Hotel Seberang Jaya has been re-recognised as a 4-star hospitality provider in October 2018, by Ministry of Tourism, Arts and Culture.
- Sunway Putra Hotel won the ASEAN MICE Venue Standard 2018-2020 Award.

LEISURE

- Sunway Lagoon received a bronze award in Entertainment at the Putra Brand Award 2018.

EDUCATION

- Sunway University won gold in the Property category at the Putra Brand Award 2018.
- Sunway Le Cordon Bleu Institute of Culinary Arts was accorded the Award of Excellence for the second time at the World Gourmet Summit in 2018. Chef Florian Guilleminot, a pastry chef instructor, was awarded Best Regional Pastry Chef.
- The Sunway Le Cordon Bleu won three golds, one bronze and a diploma in the Battle of the Chefs 2018 in Penang.



Awards and Recognitions

SUNWAY REIT

- Menara Sunway emerged as the Gold Winner for Malaysia's Best Managed Property Awards 2018 under the category Above 10 Years Non-Strata Office.
- Sunway REIT emerged as the Gold Winner for NACRA Best Integrated Reporting 2018.
- Sunway REIT clinched Gold Awards for Best Practices of Governance and Investor Relations as well as Best CEO (Property) at The Assets Corporate Awards 2018.

SUNWAY CONSTRUCTION

- Sunway Construction was among 26 award recipients recognised with NACRA 2018 Certificates of Merit.
- Sunway Construction's subsidiary, Sunway Engineering successfully renewed its 5-star rating under Construction Industry Development Board's (CIDB) SCORE Programme 2018.
- One of Sunway Construction's projects, the Kuala Lumpur Convention Centre won the Silver Medal Award at the IFAWPCA Builders Award - Building Construction Category.
- BRT Sunway Line Project, a joint project of Sunway Construction with Prasarana Malaysia Bhd won the Silver Medal Award at the IFAWPCA Builders Award - Civil Engineering Construction Category.
- Datuk Kwan Foh Kwai, Sunway Construction's Advisor, received the Yeoh Tiong Lay - IFAWPA Award for Excellence.
- Sunway Engineering Sdn Bhd, a subsidiary of Sunway Construction Group was awarded the ASEAN Federation of Electrical Engineering Contractors (AFEEC), Best Electrical Contractor Award 2018 in the Commercial Category.
- Sunway Construction was recognised as the Best Construction Company in Malaysia for 2019 by Global Banking & Finance review.

- Sunway Engineering Sdn Bhd was named as Malaysia's Best Electrical Contractor in the Commercial category by the Electrical and Electronics Association of Malaysia (TEEAM).
- The Sunway Velocity Link Bridges project was awarded the Best Project Award (Infrastructure) - Small Category (<RM20 million) at the Malaysian Construction Industry Excellence Awards (MCIEA) 2018.
- Sunway Construction was awarded the High QLASSIC Achievement Awards 2019 for its Sunway Lenang Heights project in Sunway Iskandar, Johor, while its Sunway Medical Centre 3 project was awarded the Best QLASSIC Achievement Awards 2018 - Residential for Category D (Public, Commercial or Industrial Building with Centralised Cooling System (Project Value >RM100 mil)).
- Sunway Construction received three awards at the Malaysian Society for Occupational Safety and Health (MSOSH) Occupational Safety and Health Awards (OSH) 2018. Gold Class I Award (Parcel F and GDC); Gold Class II Award (MRT V201); Silver Award (Sunway Velocity Medical Centre & The Big Box).
- Sunway Construction reclaimed its 5-star rating under Construction Industry Development Board's (CIDB) SCORE Programme 2018.
- Sunway Construction successfully remained as a constituent of the FTSE4Good Bursa Malaysia Index series for the third consecutive year.
- Sunway Construction won the Commendation Award under the Knowledge Management category at the ACCA Malaysia Sustainability Reporting Awards (MaSRA) 2017.



2018

Achievements and Milestones

GROUP HUMAN RESOURCES

Sunway received three out of 12 Aon Best Employer awards for the Building Materials Group, Sunway Hotel Georgetown and IT Shared Services Centre.

SUNWAY PROPERTY

Sunway Property exceeded its sales target of RM1.3 billion by the third quarter of 2018.

Sunway Iskandar and NEC Asia Pacific Pte Ltd signed a Memorandum of Understanding (MoU) to augment safety and security in the 1,800-acre Sunway Iskandar township in Johor and develop smart city solutions.

SUNWAY CONSTRUCTION GROUP BHD

Sunway Construction reached an outstanding book value of RM5.2 billion as at 31 December 2018 with RM1.6 billion worth of new orders.

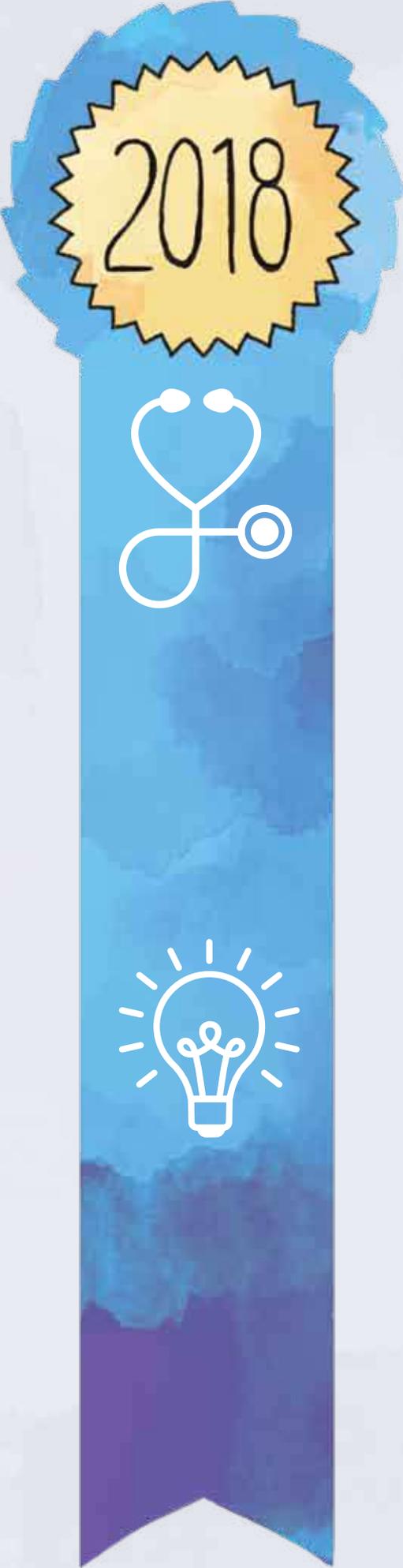
SUNWAY EDUCATION GROUP

Jeffrey Sachs Center on Sustainable Development at Sunway University launched a Master's degree in Sustainable Development.

Sunway University and the University of Cambridge signed an MoU which allowed two exceptional members of Sunway University staff each year to study for four weeks at the University of Cambridge, in perpetuity.

The Foreign and Commonwealth Office, UK and the Jeffery Cheah Foundation signed an agreement to provide two two-year Chevening-Jeffrey Cheah Foundation Scholarships for Malaysians to study Masters degrees in medical, physical or life science fields in Cambridge, Oxford and Lancaster universities.

Sunway University added a landmark study abroad programme to its degree courses. Students are able to study and earn credits at the University of California, Berkeley and London School of Economics for their final degrees awarded by Sunway University.



2018

Achievements and Milestones

SUNWAY HEALTHCARE

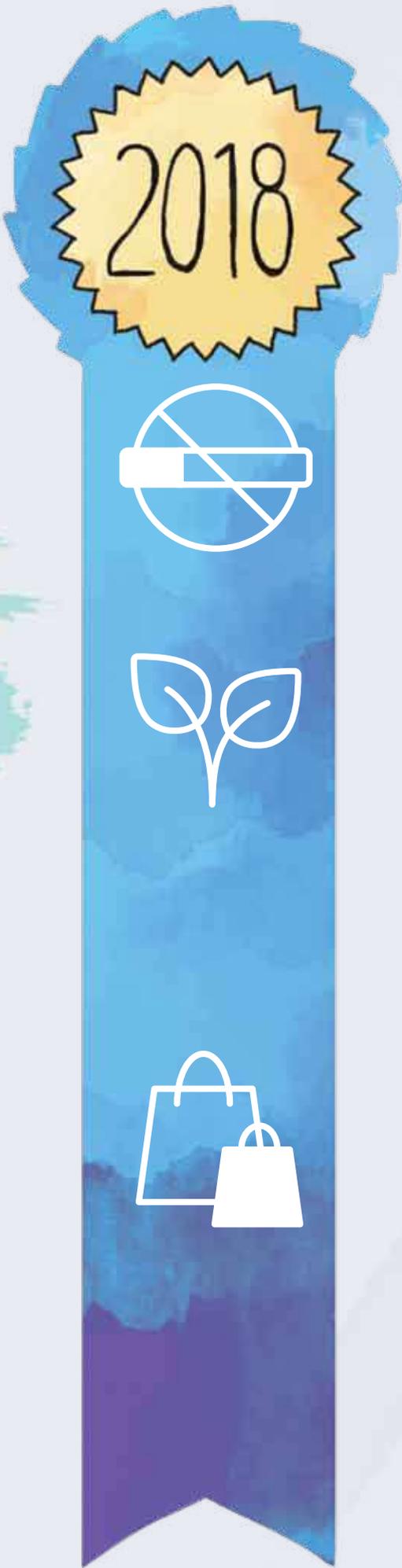
The construction of Sunway Medical Centre at Seberang Jaya is expected to be completed by the fourth quarter of 2020 and Sunway Velocity Medical Centre neared completion. The two hospitals have 420 beds in total.

Sunway Medical Centre won the Medical Tourism Hospital of the Year in Asia Pacific, alongside Thailand's Bumrungrad Hospital, Oncology Service Provider of the Year in Asia Pacific and Neurology Service Provider of the Year in Asia Pacific at the Global Health and Travel Awards 2018.

Other recognition accorded during the year included Best Fertility Centre Award in Parenthood Magazine Malaysia's Parents' Choice Awards 2018, Pioneer Development Award 2018 at The Edge Property Excellence Awards 2018 and Healthcare CSR Company of the Year in the Best Practices Award 2018 by Frost & Sullivan.

SUNWAY INNOVATION LABS

- Named Malaysia's fifth digital hub by the government.
- Launched the iLabs Makerspace in collaboration with UC Berkeley.
- Brings together three crucial elements that can turn entrepreneurial ideas into action: the right tools, the right mentors and a proper ecosystem.



2018

Achievements and Milestones

NO SMOKING

A no smoking policy has been implemented in Sunway City in line with the government's policy of banning smoking at all eateries.

Our auxiliary police are now empowered to issue summons to those who smoke in non-smoking areas within Sunway City.

SUSTAINABILITY

A water treatment plant has been constructed to treat lake water from South Quay in order to provide potable water to Sunway's commercial buildings.

Solar panels have been installed on our newly-opened Ecowalk that connects Menara Sunway to Sunway Medical Centre.

Sunway Hotels & Resorts' successful collaboration with Ecolab Sdn Bhd, Kinder Soaps Sdn Bhd and Selangor Youth Community (SAY) involved collecting used raw bars of soap from all its hotels and repurposing them to help communities in need.

SUNWAY MALLS

Sunway Velocity Mall won the FIABCI Malaysia Property Award 2018 – the 'Oscars' of property awards.



2018

Achievements and Milestones

SUNWAY HOSPITALITY

The Banjaran Hotsprings Retreat received a rating of 9.3 on the Booking.com Guest Review Award.

The Banjaran Hotsprings Retreat clinched TripAdvisor's 2018 Travellers' Choice Awards for the sixth consecutive year in four categories: Top 25 Hotels in Malaysia, Top 25 Hotels for Romance, Top 25 Luxury Hotels and Top 25 Hotels for Service in Malaysia.

The Banjaran Hotsprings Retreat was certified by Green Globe in the Hotel & Resort category.

The Banjaran Hotsprings Retreat won two awards categories at the Lux Life Food & Drink Awards 2018: Most Unique Dining Experience 2018 and Wine Bar of the Year 2018.

Sunway Resort Hotel & Spa won the Agoda Gold Circle Awards 2018 - Top 1% of Agoda's top hotels in Malaysia.

Sunway Resort Hotel & Spa ballroom and meeting rooms underwent a RM54 million refurbishment.

Sunway Hotel Georgetown Penang won the Best Business Hotel by Ctrip in December 2018.

Sunway Hotel Seberang Jaya has been re-recognised as a 4-star hospitality provider in September 2018, by Ministry of Tourism, Arts and Culture.

Sunway Putra Hotel won the ASEAN MICE Venue Standard 2018-2020 Award.

BRAND AUDIT

Sunway Group underwent a brand audit with Brand Finance and our brand value is currently RM1.6 billion.

Corporate Governance

The Board operates within the following governance framework in order to systematically fulfil its roles and responsibilities under the Companies Act 2016, Main Market Listing Requirements (“**Listing Requirements**”) of Bursa Malaysia Securities Berhad (“**Bursa Securities**”) as well as all relevant laws and regulations. The relevant Board Committees are empowered by the Board to assist the Board in providing oversight over specific aspects of the governance process.

CO CHAIRMAN

- **Executive Chairman (Tan Sri Dato’ Seri Dr Jeffrey Cheah Fook Ling) -Strategic Leadership**
- **Independent Non-Executive Director Co-Chairman (Dato’ Sri Idris Jala) - ensuring the overall effectiveness of the Board, Board Committees & Individual Directors**

BOARD OF SUNWAY

- **5 Independent Non-Executive Directors**
- **4 Non-Independent Executive Directors**

AUDIT COMMITTEE

Chairman – Wong Chin Mun
4 Independent Non-Executive Directors

Key functions :-

- Assisting the Board in overseeing and monitoring the internal control systems, financial and accounting reporting, compliance, operation and financial risk management.

RISK MANAGEMENT COMMITTEE

Chairman – Tan Sri Dato’ Dr Lin See Yan
4 Independent Non-Executive Directors

Key functions :-

- Ensuring sound system of risk management and internal controls.
- Determining and identifying key material risks with quantifiable impact on bottom line.
- Setting risk tolerance levels within the Group in achieving the Group’s strategic goals.

NOMINATION COMMITTEE

Chairman – Lim Swe Guan
5 Independent Non-Executive Directors

Key functions :-

- Evaluating Board and Board committees’ effectiveness including Independent Directors’ performances and contributions.
- Ensuring Independent Non-Executive Directors’ continuing independence.
- Reviewing board size, composition and training needs of Directors.
- Setting selection criteria for appointment of new Director(s) and evaluating performances of retiring

Directors and recommending their re-election.

- Ensuring management succession planning.

REMUNERATION COMMITTEE

Chairman – Tan Sri Datuk Dr Rebecca Fatima Sta Maria
5 Independent Non-Executive Directors

Key functions :-

- Reviewing performances of Executive Directors against a set of key performance indices using balanced scorecards.
- Reviewing Group Remuneration Policy to ensure competitive compensation in order to incentivise management towards achieving annual and long term sustainable growth.

EMPLOYEES’ SHARE OPTION SCHEME (“ESOS”) COMMITTEE

Chairman – Wong Chin Mun
1 Independent Non-Executive Director; 3 Executive Directors and 1 member of the senior management team

Key functions :-

- Reviewing the By-Laws of the ESOS and setting criteria for allocation of options under the ESOS.
- Ensuring actual allocation of options under the ESOS is in accordance with the rules of ESOS By-Laws
- Approving new allocation of options under the ESOS to new qualified employees and employees who have been promoted.

PRESIDENT

- Responsible for meeting the Group’s business performance targets and implementing the Board’s strategies and policies.

THE BOARD

The Board of Directors (“Board”) of Sunway Berhad (“Company”) aspires to uphold good corporate governance in all that it does.

The Company will continue to place emphasis on ensuring responsible and sustainable business practices as well as adhering to the highest levels of corporate integrity throughout the Group in line with its core values of integrity, humility and excellence.

Board Responsibilities

The Board aspires to create value for the shareholders and ensure the long-term success of the Group by focusing on the formulation of an appropriate strategy, business model, risk tolerance, management succession planning and development of a competitive compensation plan. It also seeks to align the interests of the Board and management with those of shareholders and balance the interests of all stakeholders.

In addition, the Board sets the principles of business ethics and core values for the entire Group. The Board oversees the entire business affairs of the Group. It is responsible for formulating and reviewing the Group’s strategic plan and direction, performance objectives, business plans of each operating units, budgets, capital expenditures, investment proposals, compliance and accountability systems, core values and corporate governance practices of the Group to ensure that the Group operates with integrity and in compliance with the rules and regulations. The Board also appoints the chief executive officer, approves policies and guidelines on remuneration as well as the remuneration for the Board and key senior management. It also approves the appointment of Directors.

In ensuring management continuity, the Board also oversees long-term succession planning for senior management. In discharging its roles and responsibilities, the Board is guided by its Board Charter which outlines the duties and responsibilities of the Board and the delegated day-to-day management of the Group to the President. This formal structure of delegation is further cascaded by the President to the management team. The President and management team remain accountable to the Board for the authority that is delegated and for the performance of the Group.

A Balanced Board

There is a clear segregation of roles and responsibilities between the 2 Co-Chairman (Executive Chairman and Independent Non-Executive Co-Chairman) and President in order to ensure a balance of power and authority as defined in the Board Charter.

The Board has a formalized code of conduct and business ethics policy (“Code”) which provides an ethical framework to guide actions and behaviors of all Directors and employees while at work.



The majority of the Board are Independent Directors with an Executive Chairman and an Independent Non-Executive Co-Chairman. It comprises nine (9) members, five (5) of whom are Independent Non-Executive Directors and the balance four (4) are Non-Independent Executive Directors.

The Board recognised the benefits of having a diverse Board for a well-functioning leadership team to strengthen its strategy formulation and risk management by adding varying perspectives and insights. This will enhance the overall credibility of the Group. The Board composition reflects a mix of suitably qualified and experienced professionals in the fields of accountancy, banking and finance, economics, real estate development, property management and human capital development. This combination of different professions, experiences and skills working together enables the Board to effectively lead and control the Company.

RISK MANAGEMENT AND INTERNAL CONTROL

The Board is assisted by the Risk Management Committee in identifying, mitigating and monitoring the critical risks highlighted by the Business Divisions. The Group Internal Audit Department (“GIAD”), which is in-charge of the internal audit function, assists the Audit Committee in reviewing, evaluating and monitoring the effectiveness of the Group’s governance, risk management and internal control processes. Based on the annual evaluation conducted, the Audit Committee was satisfied with the performance of GIAD for the financial year 2018.

COMMUNICATION WITH STAKEHOLDERS

The Company is committed to continuously disclosing and disseminating comprehensive and timely information to its shareholders and general investing public to strengthen its relationship with them. The Company has introduced a Corporate Disclosure Policy which serves as a guide to raise employees’ awareness of corporate disclosure requirements. The policy outlines the Company’s approach to the determination and dissemination of material information, the circumstances under which the confidentiality of information will be maintained, response to market rumours and adverse or inaccurate publicity and restrictions on insider trading.

The Company has also established an internal policy on confidentiality to ensure that confidential information is handled properly by Directors, employees and relevant parties to avoid leakages and the improper use of such information. The Board is mindful that information which is expected to be material must be announced immediately.

*Our full Corporate Governance Statement can be found in Sunway Annual Report 2018.

Sustainability Governance

The Board of Directors has the overall responsibility for sustainability at Sunway and considers economic, environmental, social and governance (EESG) matters in the development of the Group's strategy. EESG matters that are material to value creation are integrated into our balanced scorecard, which is used to set objectives, drive behaviour, measure performance and determine remuneration.

Tan Sri Dr Jeffrey Cheah AO, Founder and Chairman of Sunway Group, heads the Group Executive Committee (EXCO). He also oversees the execution of Sunway's sustainable strategy in the day-to-day operations.

SUNWAY SUSTAINABLE DEVELOPMENT DEPARTMENT

The Sunway Sustainable Development Department is responsible for coordinating sustainability initiatives across the Group by integrating principles of sustainable development into the Group's policies, plans, management and operations.

Sunway Sustainable Development Team Objectives

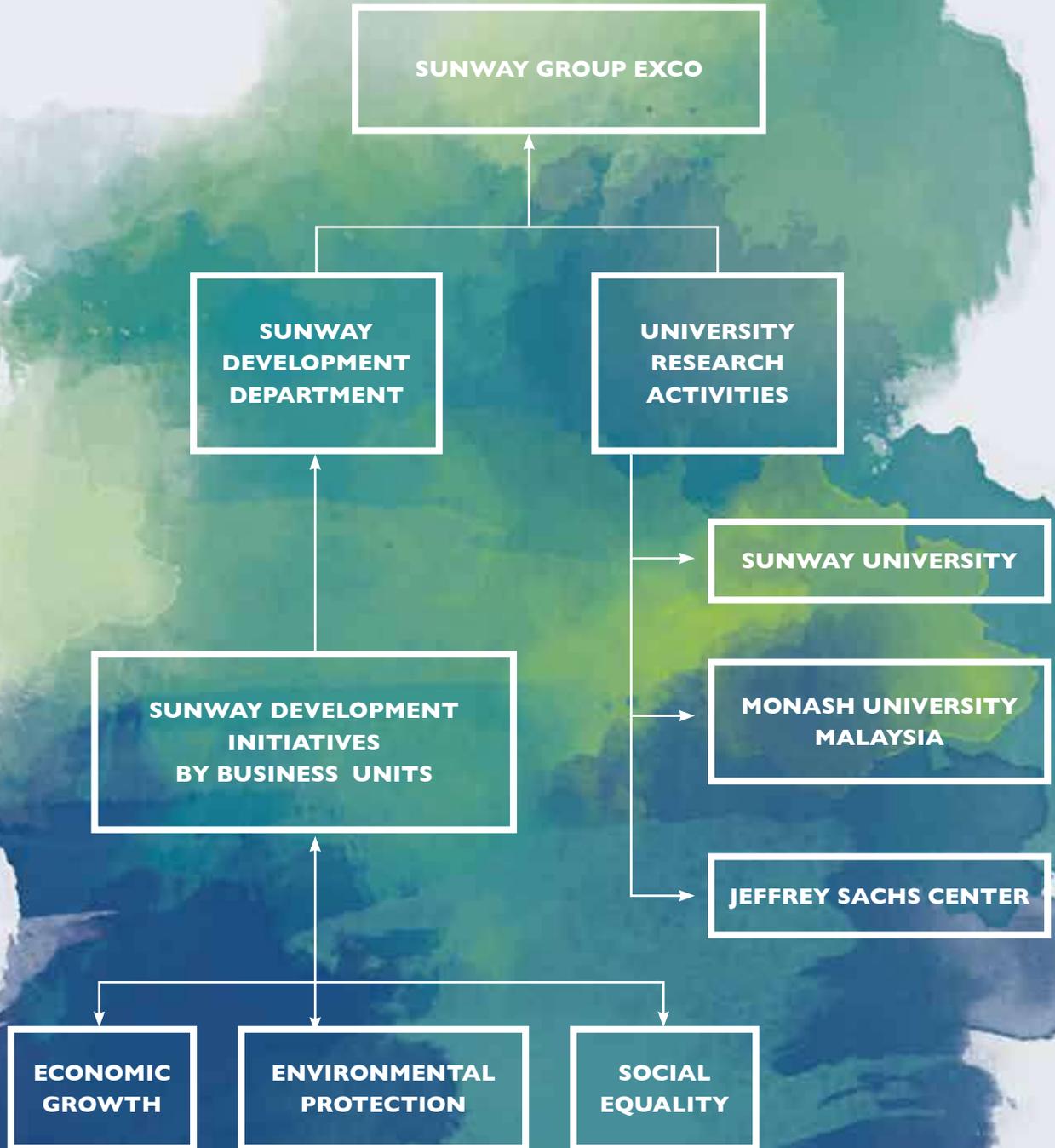


Objectives of Sunway Sustainable Development Department:

- To define the overall sustainability management structure including linkages and responsibilities of the different business units in Sunway Group
- To cascade the sustainability strategy to all business units in Sunway Group
- To be the Centre of Excellence for sustainable development initiatives

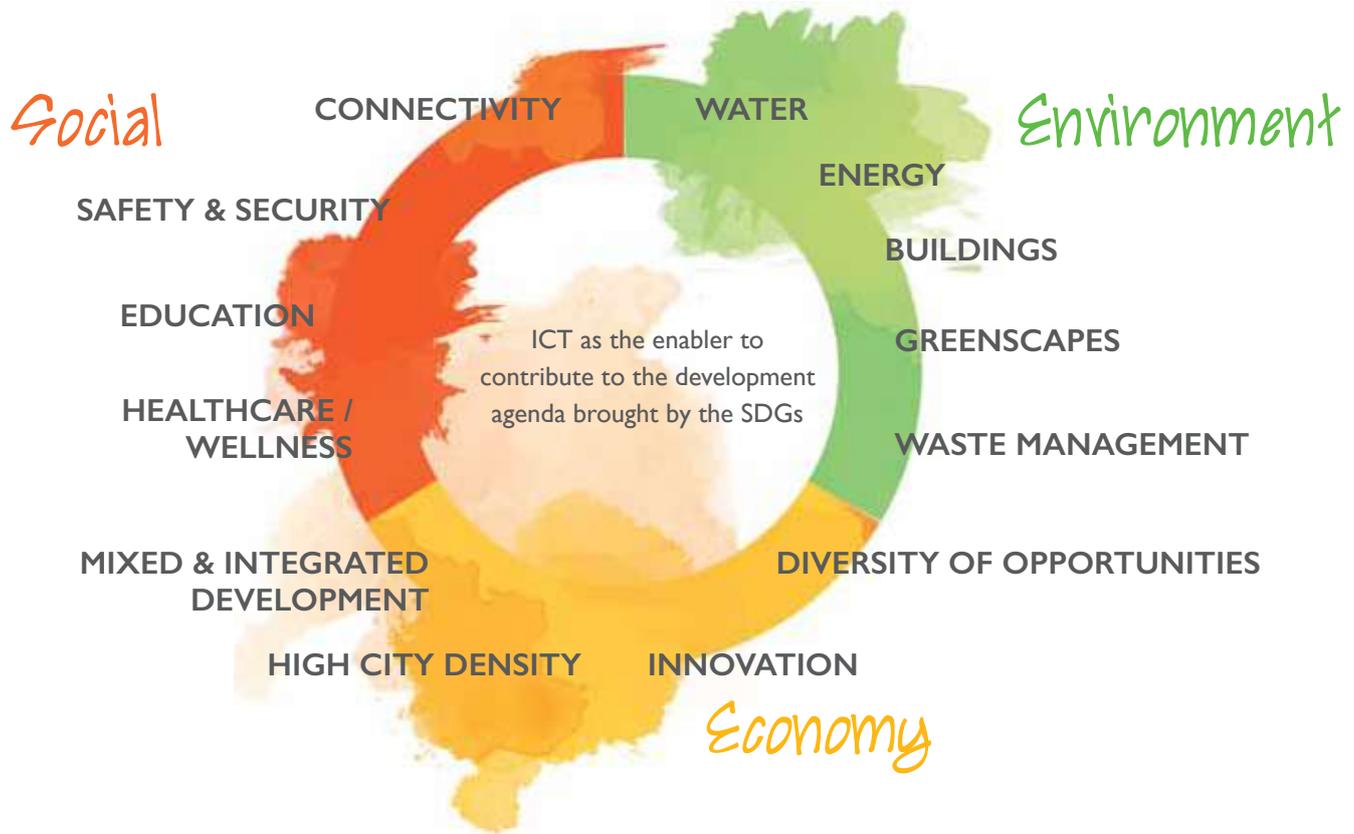
Strategies/Focus areas

- Increase awareness amongst internal stakeholders of the UNSDGs
- Stabilise accurate data collection of sustainable development initiatives for reporting and analysis
- Consolidate sustainable development initiatives across the Group
- Advise business units on the use of performance indicators and goal settings for their activities, projects and programmes
- Conduct R&D into new sustainable development initiatives
- Manage partnerships with external and internal stakeholders on sustainable development projects



Sunway Sustainability Pillars and Focus Areas

Our action plan and key activities are guided by four main delivery objectives as illustrated in the diagram below.



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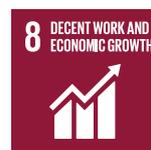
Sustainability in operations



Sustainability in planning



Sustainability for Social Community, Governance and Reporting for Business Community



Innovation



Group Sustainable Development Policy

A Sustainability Policy was drafted and presented to the Board of Directors. We target to implement this Policy in 2020. The Policy will govern sustainability execution across the 12 business units of Sunway.

SUNWAY'S VISION AND MISSION

Vision

To be Asia's model corporation in sustainable development, innovating to enrich lives for a better tomorrow.

Mission

- Empowering our people to deliver enhanced value to all stakeholders
- Embracing sustainability in our business processes and decisions
- Attracting and nurturing a talented and progressive workforce for the digital era

Core Values

Our purpose, vision and mission are synonymous throughout the group with a solid foundation on three core values: Integrity, Humility and Excellence.

Objective

The Group strives to achieve sustainable development by focusing on safeguarding people's health, operating the business responsibly, protecting the environment, and fostering good relationships with the communities in which we operate.

GROUP SUSTAINABLE DEVELOPMENT POLICY

Scope

1. This policy applies to all Sunway business units.
2. This policy will apply to all events hosted by our organisations. Staff and contractors are expected to uphold the objectives of this policy to the fullest extent possible within prevailing budgets.
3. We acknowledge that we have limited influence over third-party events we attend but do not organise. While we cannot control the decisions of these parties, we are committed to educating them on our policy and encouraging them to align operating practices with the policy objectives.
4. Our attention to environmental, social and economic responsibility includes meeting legal standards and voluntarily exceeding legal requirements in order to be

innovative and demonstrate leadership on the issues that are important to us and our stakeholders.

Commitment

1. We are committed to:
 - Responsible business practices
 - Innovative product and service delivery
 - Efficient process and responsible resource consumption
 - Environmental protection
 - Giving back to the community
2. We endeavour to the best of our availability to set short term and long term goals, with relevant performance indicators, to fulfil commitments that are outlined as above to achieve a better and a more sustainable future for all.
3. Action plans to achieve the sustainable development goals will be incorporated into our annual business plan.
4. We are committed to implementing impact-based activities that will bring about positive tangible and intangible long-term impacts to our customers and community.

Principles

1. Our approach to business is guided by commitments to the following core values: Integrity, Humility and Excellence.
2. We subscribe to the definition of sustainable development as defined by Brundtland Report that states "Sustainable development is development that meets the needs of the present, without compromising the ability of future generations to meet their own needs"
3. Internationally, we align our goals with the UN Sustainable Development Goals 2030 (UNSDGs 2030).
4. Nationally, we align our goals with the Malaysian Ministry of Energy, Science, Technology, Environment & Climate Change (MESTECC).
5. The three main pillars of sustainable development that guide our smart and sustainable city blueprint are economic growth, environmental protection and social equality.

Reporting

1. We will report on our progress as a Group through our annual sustainability report.
2. Energy consumption, water consumption and waste disposal will be reported on a monthly basis by all business units.

Stakeholder Engagement

Sunway is committed to stakeholder engagement. Mutual respect, transparent behaviour and open dialogue set the strongest foundations for effective relationships with the different stakeholders we interact with. Our stakeholder engagement approach involves the identification and management of relations with persons, groups or organisations who can be affected by our activities or are capable of having an impact on our business.

Our robust engagement model helps us connect with both internal and external stakeholders. This approach helps us develop partnerships and become more involved in our community.

STAKEHOLDERS	ENGAGEMENT METHODS	FREQUENCY
Stakeholders and Investors	<ul style="list-style-type: none"> Annual general meeting Extraordinary general meeting (if required) 	Annually
Employees	<ul style="list-style-type: none"> Employee engagement survey Kelab Sosial Sunway activities Employee engagement programmes, training and townhall sessions 	Throughout the year
Customers	<ul style="list-style-type: none"> Customer satisfaction survey Roadshows Events and activities 	Throughout the year
Local Communities and NGOs	<ul style="list-style-type: none"> Community engagement through social activities 	Throughout the year
Suppliers	<ul style="list-style-type: none"> Tender and bidding Quotation requests 	Throughout the year
Local Government Authorities	<ul style="list-style-type: none"> Compliance with Government legislative framework 	Annually

STAKEHOLDER INTERESTS	HOW WE DELIVER VALUE
<ul style="list-style-type: none"> Higher financial return 	<ul style="list-style-type: none"> Higher dividends Financial performance Return on Investment (ROI) Press coverage
<ul style="list-style-type: none"> Career development Benefits Employment equality Two-way communication 	<ul style="list-style-type: none"> Training programmes Townhall sessions KSS activities Berita Sunway Employee Engagement Survey (EES)
<ul style="list-style-type: none"> Up-to-date information on Sunway Effective complaints resolutions Loyalty/rewards programmes 	<ul style="list-style-type: none"> Sunway Pals Festive celebrations Events and competitions Social media Online and offline communication channels
<ul style="list-style-type: none"> Community care and support Life-improving programmes Corporate citizenship and good governance 	<ul style="list-style-type: none"> Various community initiatives championed by the Jeffrey Cheah Foundation and Sunway Group
<ul style="list-style-type: none"> Ethical supplier management system Up-to-date information on Sunway 	<ul style="list-style-type: none"> Online and offline communication channels Clear procurement policies and practices
<ul style="list-style-type: none"> Transparency Regulatory disclosures Accountability Policy aligned with areas of national interest including green initiatives, innovation and nation building 	<ul style="list-style-type: none"> Sustainability report Certifications Public disclosure Compliance Annual Report

Analysis of Materiality

We must identify, understand and balance the most important areas for our stakeholders in order to improve as 'one' Sunway. Understanding how these relate to the actions and decisions that we take is also important.

Sunway has been conducting and publishing a materiality assessment since 2015. The results are reviewed annually to ensure their relevance. Aspects that are material to our operating environment, business context and stakeholders are selected as indicators for measuring sustainability performance. Our materiality matrix results guide us in our strategic decision-making, stakeholder engagement agenda and reporting framework.

THE PROCESS

During the most recent materiality study, which was conducted in the last quarter of 2017, stakeholder representatives were asked to rate the importance they placed on 30 areas of sustainability.

Stakeholder Groups Participating in the Survey

- Local Community
- Non-Governmental Organisations
- Investors/Financial Community
- Employees
- Media
- Customers
- Suppliers
- Government & Regulators

ECONOMIC

- Economic & business performance
- Sustainable procurement & supplier assessment
- Nation building
- Market presence

ENVIRONMENT

- GHG emissions & climate change
- Energy
- Water
- Green buildings
- Waste
- Biodiversity & conservation
- Environmental awareness programme

SOCIAL: OUR PEOPLE

- Occupational Safety & Health
- Diversity & inclusivity
- Training & career development
- Employment benefits
- Employee engagement & satisfaction

SOCIAL: HUMAN RIGHTS

- Child & compulsory labour
- Discrimination
- Employer/employee relations
- Employees' rights

SOCIAL: OUR SOCIETY

- Community engagement
- Bribery & corruption
- Anti-competition
- Wider community benefits
- Employee volunteerism

SOCIAL: OUR OPERATIONS

- Customer satisfaction
- Customer privacy
- Responsible marketing
- Public safety
- Quality

We asked respondents to select the criteria deemed material to each of their chosen divisions. We calculated an average score for all areas within each stakeholder group before obtaining an average rating from all eight stakeholder groups.

We also asked 10 members of our board of directors to complete a similar survey. Their views represented each division within Sunway.

THE RESULTS

Scores over 3 were considered of medium importance. Stakeholder scores ranged from 3.70 to 4.80; Sunway's between 4.22 and 4.70. This indicates that all issues were important to some degree. The matrix is presented in the following diagram.



VALIDATING THE RESULTS

The results of the materiality matrix were presented to senior executives across all business units for review prior to the publication of this report. The findings were deemed to be relevant and current. It was felt that there was no benefit to repeating this exercise in 2018.

Following a discussion of the process and results, the material topics were confirmed. This matrix was then endorsed by the Board of Directors. The study will be repeated every three years or more frequently if there are any significant changes in the business or market environment.

USE OF THE FINDINGS

The materiality findings guide our business strategy, track issues of concern, prioritise sustainability programmes and establish meaningful metrics against which to measure our performance. We also plan to use the analysis to strengthen the focus and content of our sustainability reporting.

We understand that sustainability priorities vary across different business units. Previously, we consulted stakeholders and decision makers from each business unit to tailor the material areas to their particular industries. The five most material areas for both stakeholders and each business division are presented below.

The Five Most Material Topics for Stakeholders and Sunway by Division

Property & Construction



STAKEHOLDERS

- Quality management
- Economic & business performance
- Public safety
- Occupational safety & health
- Child & compulsory labour

SUNWAY

- Quality management
- Public safety
- Occupational safety & health
- Waste
- Recruiting & retaining employees

Retail, Hospitality & Leisure



STAKEHOLDERS

- Employer/employee relations
- Responsible marketing
- Discrimination
- Benefits
- Diverse & inclusive workplace

SUNWAY

- Local community engagement
- Customer satisfaction
- Energy
- Water
- Economic & business performance

Healthcare



STAKEHOLDERS

- Wider benefits to community
- Customer privacy
- Employee volunteerism
- Discrimination
- Whistleblowing

SUNWAY

- Patient safety
- Quality
- Customer satisfaction
- Training & career development
- Wider benefits to community

Education



STAKEHOLDERS

- Employee volunteerism
- Discrimination
- Employer/employee relations
- Environmental awareness programmes
- Wider benefits to community

SUNWAY

- Wider benefits to community
- Providing relevant skills to industry
- Nation building
- Quality
- Stakeholder engagement

Trading & Manufacturing



STAKEHOLDERS

- Economic & business performance
- Benefits
- Employer/employee relations
- Training & career development
- Discrimination

SUNWAY

- Sustainable procurement & supplier assessment
- Customer satisfaction
- Corruption
- Market presence
- Customer privacy

Quarrying & Building Materials



STAKEHOLDERS

- Local hiring
- Recruiting & retaining employees
- Quality
- Safety and health
- Environmental impact from transportation

SUNWAY

- Local community engagement
- Economic & business performance
- Public safety
- Safety and health
- Biodiversity

Real Estate Investment Trust (REIT) & Commercial



STAKEHOLDERS

- Privacy of tenants, retail customers & hotel guests
- Ethics & transparency
- Business ethics
- Corruption & bribery
- Health of public & communities

SUNWAY

- Customer satisfaction
- Ethics & transparency
- Business ethics
- Corruption & bribery
- Corporate governance

Integrated Materiality, Brand and Identity Strategy

A brand audit exercise was conducted at the end of 2018 to chart the strategic direction of Sunway Group's branding efforts. Brand Finance, the world's leading, independent brand valuation and strategy consultancy, was engaged to undertake this audit. The purpose of this exercise was to identify and define internal and external stakeholders' key perceptions of Sunway Group and map out the most effective strategy to build a cohesive brand identity among the 12 business divisions.

KEY FINDINGS:

1. Sunway Group ranks number one among its competitors in three of the 17 United Nations Sustainable Development Goals (UNSDGs): Good Health & Well-Being, Quality Education and Sustainable Cities and Communities. However, the scores are relatively low for Decent Work & Economic Growth, Life Below Water and Affordable & Clean Energy.
2. Overall, Sunway is ranked second in 17 key attributes of the UNSDGs. Ideally, more effort is needed to raise awareness of Sunway's UNSDGs.
3. In 2017, the Sunway brand was worth USD 335 million. The brand value was mainly contributed by Construction, REIT and Trading & Manufacturing divisions.

Areas for improvement

- Brand positioning of Sunway is not clearly defined
- Low capitalisation of Sunway's strengths due to weak brand positioning
- Inconsistent use of the Sunway brand (architecture) leads to brand value dilution
- A wide gap between consumer's and management's perception of Sunway brand

Moving forward, the Sunway brand value is projected to reach USD592 million. We will focus on the following four strategies to achieve this goal.

BRAND GOVERNANCE SYSTEM

**CONSISTENT BRAND
ARCHITECTURE**

**INCREASED BRAND STRENGTH
INDEX (BSI)**

**CONSISTENT GROWTH AND REVENUE
THROUGH MATCHED OFFERINGS AND
CONSISTENT NAMING**





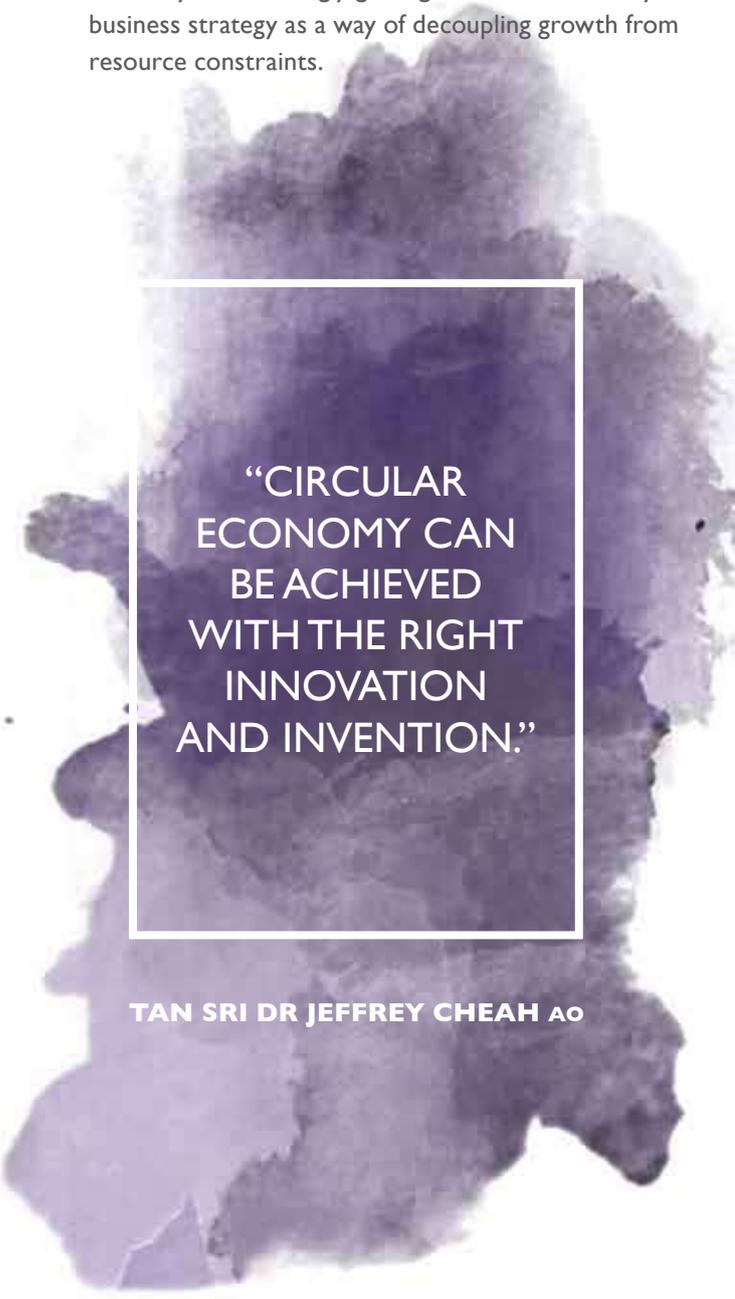
*#Sunwayforgood
for the Economy*



#Sunwayforgood for the Economy

The circular economy is a regenerative system where resource input, waste and leakage are minimised by maximising usage, as well as recovering and regenerating products and materials at the end of each of their service lives.

We live in an age where technology is transforming the world; the effects of technology on the global economy, geopolitics and society can already be seen. The circular economy is increasingly gaining attention in Sunway's business strategy as a way of decoupling growth from resource constraints.



“CIRCULAR ECONOMY CAN BE ACHIEVED WITH THE RIGHT INNOVATION AND INVENTION.”

TAN SRI DR JEFFREY CHEAH AO

SUNWAY ILABS' STATE-OF-THE-ART MAKERSPACE

Launched in 2017, Sunway iLabs is a non-profit incubator and accelerator that is a smart partnership between Sunway University, Sunway Group and its corporate venture capital arm, Sunway Ventures. Sunway iLabs intends to foster entrepreneurship and stimulate market-driven innovations to drive the nation's competitiveness. It is also a Malaysian Digital Hub™.

Sunway iLabs launched its Sunway iLabs Makerspace with five initial industry partners: Google, NEC, Hitachi Sunway, Xperanti and GE. It equips students and entrepreneurs with collaborative space and tools for innovation. The partners continue to be actively involved in getting Industry 4.0 related university innovations to the market.

During the year, Sunway iLabs also formalised three new international collaborations to provide students and entrepreneurs with additional sources of capital, mentorship and links to international markets. These partnerships were with the European Commission-funded South East Asia Social Innovation Network (SEASIN); the University of California, Berkeley; and Silicon Valley accelerator, A3 Global Collider.

The Sunway iLabs Makerspace facility and other iLabs' initiatives secure future talent by equipping students with the required skill sets that will prepare them for the fourth industrial revolution. These initiatives are aligned with the Ministry of Higher Education's commitment to equipping students holistically to secure their success in the 21st century. Equipping our youths with the right education, tools and mentors is more important than ever. Globalisation, urbanisation and digitalisation are powerful forces that are reshaping our world by blurring national boundaries.

SUNWAY TO INVEST UP TO RMI BILLION INTO HEALTHCARE BUSINESS

Currently, Sunway Group's Healthcare Division is embarking on an expansion plan that includes the construction of new hospitals throughout Malaysia. The Group will invest approximately RMI billion in building new hospitals in its integrated townships of Sunway Velocity (Klang Valley); Sunway Damansara (Klang Valley); Sunway Medical Centre at Seberang Jaya (Penang); Sunway City Ipoh (Ipoh); Sunway Iskandar (Johor) and Sunway Valley City (Paya Terubong, Penang).

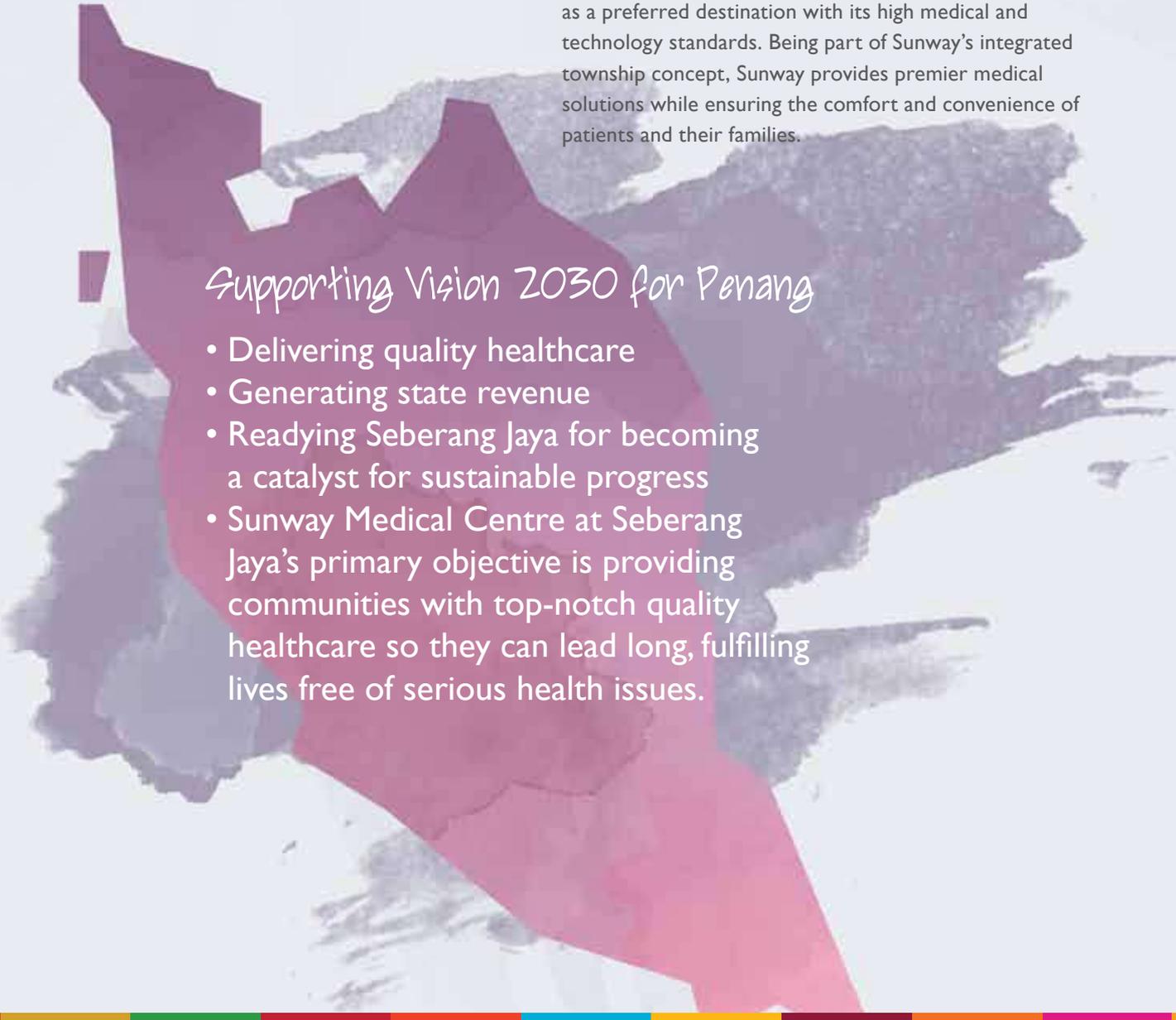
Sunway's RMI billion investment in expanding the healthcare sector commenced in 2017. The construction of a RM400 million private hospital in Seberang Perai began with its ground-breaking ceremony on 7 September 2018. The 180-bed Sunway Medical Centre at Seberang Jaya will be completed by 2020. The capacity can be expanded to 350 beds in the future, which will likely make it the largest private hospital in Seberang Perai.

Penang's population is growing at approximately 1.5% and GDP at 5.5%, annually. Seberang Perai is also growing rapidly as one of the most populated districts on the mainland with its population estimated to surpass 1.1 million in 2020.

Sunway Medical Centre at Seberang Jaya will support the Vision 2030 that the Chief Minister has set for Penang by delivering quality healthcare and state revenues from medical tourism as well as readying Seberang Jaya to be a catalyst for Penang's sustainable progress.

The Penang Sunway Medical Centre is the group's third hospital after one opening in Petaling Jaya 20 years ago and another recently in Sunway Velocity, Cheras. After Penang, Sunway plans to open more hospitals in the next five years in Cheras (Kuala Lumpur), Kota Damansara (Petaling Jaya), Ipoh, and Iskandar (Johor).

As South East Asia becomes increasingly popular for medical tourism, Sunway Medical Centre is positioned as a preferred destination with its high medical and technology standards. Being part of Sunway's integrated township concept, Sunway provides premier medical solutions while ensuring the comfort and convenience of patients and their families.



Supporting Vision 2030 for Penang

- Delivering quality healthcare
- Generating state revenue
- Ready Seberang Jaya for becoming a catalyst for sustainable progress
- Sunway Medical Centre at Seberang Jaya's primary objective is providing communities with top-notch quality healthcare so they can lead long, fulfilling lives free of serious health issues.

WORLD-CLASS HEALTHCARE

Sunway Group's Healthcare Division is also positioned to elevate healthcare levels in Malaysia. The University of Cambridge (UK) School of Clinical Medicine established the Sunway Clinical Research Centre as its regional site partner in Sunway Medical Centre. The division is also affiliated with:

- Royal Papworth Hospital, a leading heart and lung transplant hospital in Cambridge (UK), and
- Harvard Medical School (US), which provides clinical service development, training and education to Sunway's doctors and other members of staff.

Sunway Medical Centre was also appointed as one of the Designated Centres of Integrated Oncology and Palliative Care by the European Society of Medical Oncology (ESMO).

The Division's most recent achievements include winning three awards at the Global Health and Travel 2018 Awards:

1. Oncology Service Provider of the Year,
2. Neurology Service Provider of the Year and
3. Medical Tourism Hospital of the Year in Asia Pacific joint winner with Bumrungrad International Hospital in Thailand.

SMART CITY SOLUTIONS ENTERING SUNWAY ISKANDAR

Sunway Iskandar and NEC Asia Pacific Pte Ltd (NEC) signed a Memorandum of Understanding (MoU) on 24 September 2018 to:

- Augment safety and security at the 1,800-acre Sunway Iskandar township in Johor and
- Innovatively develop smart city solutions in an Innovation Centre of Excellence (CoE).

Sunway appointed NEC Asia Pacific as one of Sunway Iskandar's preferred ICT system integrators and equipment providers. NEC will invest an estimated RM100 million in Sunway Iskandar to create skilled tech jobs and develop local technopreneurs and tech-savvy talents within the economic growth corridor of Iskandar Malaysia. As part of the MoU, NEC will explore:

- Implementing the latest NEC technologies including biometrics and video analytics that will make Sunway Iskandar a smart, secure and sustainable township.
- Establishing a one-stop service desk support centre for NEC's Managed Service business in Sunway Iskandar.
- Creating an Innovation Centre of Excellence (CoE) in Sunway Iskandar in partnership with Sunway iLabs, which may create hundreds of job opportunities in the future.

With an aim of delivering sustainable socio-economic value, Sunway Iskandar is the best site for our new Innovation CoE as it is a:

- Fast-growing city with sustainability at its core
- Gateway for the expansion of smart city solutions in Malaysia and ASEAN.

NEW YUNUS SOCIAL BUSINESS CENTRE (YSBC) AT THE SUNWAY EDUCATION GROUP

In 2018, Nobel Laureate and Founding Chairman of Yunus Centre, Professor Muhammad Yunus, signed an MoU with Sunway Education Group Founder and Founding Trustee of the Jeffrey Cheah Foundation, Tan Sri Dr Jeffrey Cheah AO. This agreement covers establishing a YSBC in the Sunway City campus.

Professor Yunus won a Nobel Peace Prize for his work founding the microcredit institution Grameen Bank in 2006. Grameen Bank has disbursed USD24 billion in collateral-free loans to approximately 9 million borrowers to start enterprises that lift them out of poverty. Since being founded in 2008, the Yunus Centre has operated as a think tank for social business, poverty alleviation and sustainability issues.

Hopefully, establishing the YSBC in Sunway Education Group will boost entrepreneurship for sustainable socioeconomic development, especially for the poor and less privileged in Malaysia. This collaboration will explore education, research, information gathering and action plans.

Sunway Education Group organised student service learning trips as part of the mission to promote social business. Students learn techniques and programmes that assist the economic development of the poor in developing countries.

Through strategic research and the structured implementation of social business, the YSBC will support

JCF in community empowerment, well-being and wealth creation.

STAY CONNECTED AT SUNWAY CITY

Sunway officially launched Sunway WiFi across its 800-acre township of Sunway City Kuala Lumpur in April 2018. Free Internet is provided to its population of 200,000, including 40,000 students, and the 42 million footfalls it garners each year.

The free WiFi service is accessible in all public areas including Sunway Pyramid, Sunway Medical Centre, Sunway Lagoon, Sunway Resort Hotel & Spa, Sunway Pyramid Hotel, Sunway Clio Hotel, the Sunway educational institutions, The Pinnacle and Menara Sunway. It is also available along the Canopy Walk — a 4-km elevated walkway connecting these establishments and the jogging trail at Sunway South Quay.

This free WiFi service is Sunway's biggest endeavour yet and can connect up to 25,000 users at any one time. Democratising Internet access is another step towards making Sunway City the first private-driven Smart Sustainable City in Malaysia. Although Sunway City was the first Sunway township to launch this, Sunway City Ipoh and Sunway Iskandar in Johor will soon follow. Soon, communities will have free WiFi access in all our townships across Malaysia.

The township-wide access supports the nation's push towards embracing a digital economy. The free Sunway WiFi service has also been implemented in our integrated developments of Sunway Velocity and Sunway Putra.

How YSBC Continues to Promote Social Business

- Social business action programmes
- Courses
- Research
- Publications
- Conducting social business design labs
- Conferences
- Exchange programmes
- Academic workshops
- Exposure visits
- Internships
- Scholarship programmes



REMARKABLE CONTRIBUTIONS TO THE TOURISM INDUSTRY

We have developed integrated cities and developments that are value-creating tourist destinations spanning over 5,000 acres collectively.

On 27 February 2018, we were recognised for our contribution to the nation's tourism industry. Sunway won two and was nominated for three highly coveted awards at the prestigious Malaysia Tourism Awards 2016/2017. These awards recognise local and international tourism players for outstanding and innovative products and services. The Malaysia Tourism Awards are held biennially and this year marks their 20th edition.

Sunway Group received the Prime Minister's Award (organisation) for service to Malaysia's tourism industry. Sunway dominated the awards in the Best Shopping Centre category with Sunway Putra Mall being the Best Integrated Shopping Centre and both Sunway Velocity Mall and Sunway Pyramid being shortlisted. Collectively, this is the sixth Malaysia Tourism Award received by Sunway Malls with Sunway Pyramid winning in 1998, 2004, 2010/2011, 2012/2013 and 2014/2015.

Collectively, Sunway Group's internationally acclaimed sustainable townships and developments attract 45 million annual visits. Townships including Sunway City, Sunway City Ipoh and Sunway Iskandar synergistically combine world-class residential, healthcare, retail, leisure, education, hospitality and commercial developments. The transit-oriented integrated destinations encourage prolonged stays and attract tourists from high-yield niche markets, which improve Malaysia's competitiveness as a tourism destination.

Our Hospitality Division also significantly contributes to the tourism industry.

ATF is a significant annual tourism promotional event in Asia attended by ASEAN Tourism Ministers. Since its launch in 1999, The Guide Awards have become one of the most prestigious travel awards in Vietnam. They are sponsored by the Vietnam Union of Science and Technology Associations, and Vietnam Economic Science.

The awards connect policymakers and enterprises to promote Vietnam's tourism and introduce Vietnam to international travellers. The event also facilitates the exchange and sharing of opportunities among organisations, individuals and localities while encouraging enterprises to improve their product quality and diversify their services.



The Banjaran Hotsprings Retreat

- The Banjaran Hotsprings Retreat received a rating of 9.3 on the Booking.com Guest Review Award.
- The Banjaran Hotsprings Retreat clinched TripAdvisor's 2018 Travellers' Choice Awards for the sixth consecutive year in four categories: Top 25 Hotels in Malaysia, Top 25 Hotels for Romance, Top 25 Luxury Hotels and Top 25 Hotels for Service in Malaysia.
- The Banjaran Hotsprings Retreat was certified by Green Globe under the Hotel & Resort category.
- The Banjaran Hotsprings Retreat won two awards categories at the Lux Life Food & Drink Awards 2018: Most Unique Dining Experience 2018 and Wine Bar of the Year 2018.

Sunway Resort Hotel & Spa

- Sunway Resort Hotel & Spa won the Agoda Gold Circle Awards 2018 - Top 1% of Agoda's top hotels in Malaysia.

Sunway Hotel Georgetown Penang

- Sunway Hotel Georgetown Penang won the Best Business Hotel by Ctrip in December 2018.

Sunway Hotel Seberang Jaya

- Sunway Hotel Seberang Jaya has been re-recognised as a 4-star hospitality provider in September 2018 by Ministry of Tourism, Arts and Culture.

Sunway Putra Hotel

- Sunway Putra Hotel won the ASEAN MICE Venue Standard 2018-2020 Award.

SUNWAY RETAIL BOOSTS PENANG'S SOCIO-ECONOMIC GROWTH

Sunway Carnival Mall is beginning the next phase of its expansion after ten years in operation. The mall is doubling its gross floor area from 780,000 to 1.45 million square feet.

The expansion phase will add an additional 330,000 to the existing 500,000 square feet of nett lettable space. The expansion phase is scheduled for completion in the fourth quarter of 2020.

Once completed, the first phase of the mall refurbishment is scheduled for completion by 2022. The total investment for both the expansion and refurbishment is RM500 million.

Expansion Highlights

INCREASED NUMBER OF SHOPS FROM 220 TO 450 ACROSS NEW AND EXISTING WINGS

50% OF RETAILERS (FASHION), 18% (F&B) AND 32% (OTHER)

CAR PARK CAPACITY INCREASE FROM 1,100 TO MORE THAN 3,000 BAYS WITH BRAND-NEW UPPER FLOORS AND BASEMENT PARKING

The expansion will meet the growing demand for retail space from international retailers as the mall is close to full occupancy. The mall will be able to offer a range of international retailers, effectively transforming the retail scene of mainland Penang.

Sunway has been part of the Penang community for the last 25 years and this expansion will:

- Allow us to continue supporting Penang's socio-economic growth
- Mark the beginning of our long-term vision for the way Penangites live, learn, work and play in a safe, healthy and connected environment
- Improve infrastructure and connectivity surrounding the development with seamless connectivity from the Butterworth-Kulim expressway to the mall
- Help us reach a larger market catchment and augment the vibrancy of the retail landscape in Penang

SUNWAY UNIVERSITY LAUNCHES MASTER IN SUSTAINABLE DEVELOPMENT MANAGEMENT

In 2016, the Jeffrey Cheah Foundation (JCF) entered into a partnership with the United Nations Sustainable Development Solutions Network Association (SDSN). The partnership led to the establishment of the Jeffrey Sachs Center on Sustainable Development at Sunway University.

The centre is the Southeast Asia base for the United Nations SDSN. It is a hub for research and policy practice, delivering world-class programmes that train students, practitioners and policy leaders on sustainable initiatives. The centre also collaborates with global industry, agencies, government bodies and universities.

The centre launched its first master's degree programme. JCF offered a bursary of RM30,000, more than 50% of the RM50,000 fee, for the entire 18-month programme for the first cohort of students.

This master's degree will help individuals and organisations develop innovative solutions to achieve the Sustainable Development Goals in actionable ways in their specific sectors and areas of work.

SUNWAY DEVELOPS WORLD-CLASS ENTREPRENEURS TO BOOST THE NATION'S ECONOMY

On 21 August 2018, Sunway University signed a partnership agreement with the Sutardja Center for Entrepreneurship and Technology (SCET) of University of California Berkeley (UC Berkeley) to:

- Develop Sunway University's entrepreneurship programmes
- Start a bi-directional information exchange in entrepreneurship and technology between Sunway University and SCET

The agreement is SCET's first partnership with a Malaysian university. UC Berkeley is located in the heart of the venture capital industry, Silicon Valley. It is recognised as one of the world's most successful universities for producing venture capital-backed entrepreneurs.

The Pitchbook Report 2017, an authoritative publication that ranks top universities for entrepreneurs, reports that UC Berkeley has produced 1,089 entrepreneurs and 961 companies since 2006. Collectively, companies started by Berkeley alumni have raised USD 17.05 billion in funding since then.

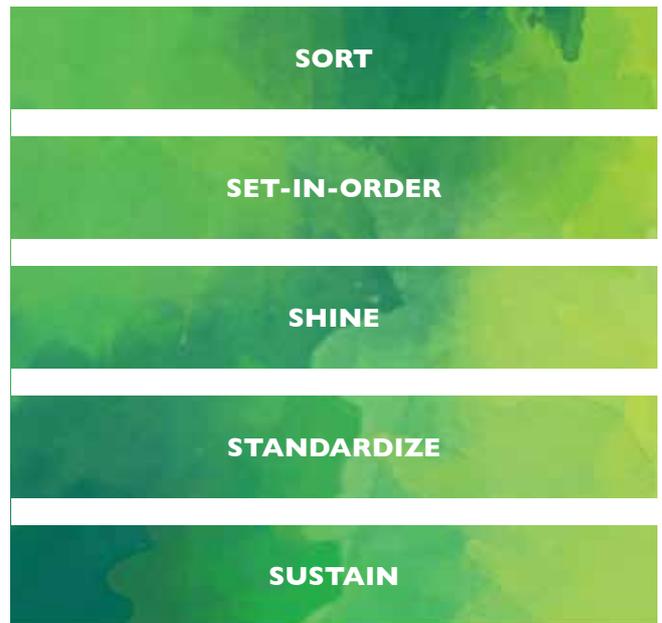
The partnership is a significant step for Sunway University in developing world-class entrepreneurs that will bolster sustainable economic development in Malaysia. Students and faculty members will be able to access some of the world's best knowledge, on-campus resources and unprecedented networking opportunities in the heart of Silicon Valley.

SCET will sponsor two visiting students, scholars or professors from Sunway University each year to be based at the high-end collaboration space in SCET at UC Berkeley. They will engage in knowledge transfer activities and attend workshops such as the Berkeley Method of Entrepreneurship (BMoE) Bootcamp and the Silicon Valley Innovation Leadership programme.

SUNWAY CONSTRUCTION PLAYS ITS ROLE IN ADVANCING THE NATION'S CONSTRUCTION INDUSTRY

Sunway Construction signed a Memorandum of Understanding (MoU) with Malaysia Productivity Corporation (MPC). The MoU covers the development of a 5S Manual and Assessment Criteria that will become a new standard in Malaysia's construction industry.

The 5S Model



The 5S Manual and Assessment Criteria will:

- Outline the guidelines for the 5S approach to be implemented in workplaces
- Establish a set of criteria to be met by construction organisations nationwide for the Quality Environment/5S certification

The 5S Manual and Assessment Criteria have been developed by MPC alongside its Malaysia Business Excellence Framework (MBEF). Previous MPC QE/5S certifications were only applied to the manufacturing industry and this will be the first time in construction.

Hopefully, this assessment tool will leapfrog efficiency and productivity for the industry as a whole and establish systematic, safe and healthy workplaces for all.

SUNWAY QUARRY CONTINUES TO DRIVE GROWTH

Sunway Quarry operates six quarries and 13 asphalt manufacturing plants in Selangor, Perak, Penang, Kedah, Melaka, Terengganu and Johor. The Company is expanding operations along the high-growth development corridor in the northern and southern regions to extend its market coverage in Malaysia.

Sunway Quarry is supported by Malaysia's buoyant construction industry and various infrastructure and resurfacing projects.

Major Nation Building Projects by Sunway Quarry

- Mass Rapid Transit 2 ("MRT2") Sungai Buloh - Putrajaya Line
- Light Rail Transit 3 ("LRT3") - Bandar Utama - Klang Line
- Sungai Besi - Ulu Klang Elevated Expressway ("SUKE")
- Setiawangsa - Pantai Expressway ("SPE")
- PLUS highway resurfacing and widening project
- Damansara - Shah Alam Elevated Expressway ("DASH")

Several road upgrading initiatives were undertaken by the state government of Selangor including resurfacing and patchworks to maintain road quality in the state. Sunway was awarded many major road maintenance jobs due to its ability to deliver an integrated range of asphalt and complementary services of pavement overlay.

Sunway Quarry continues to supply quarry materials to the following projects:

- Prominent integrated township in Bandar Sunway
- Housing project inside Bandar Sungai Long
- 180-acre housing development project at Goodview Heights, Kajang, Selangor with an expected GDV of RMI.5 billion

Massive public infrastructure projects and continued exuberance in the construction sector remain key drivers for Sunway Quarry's performance. The division continues to supply quarry materials to projects such as MRT Line 2, LRT Line 3 and various anticipated highway projects.

Operations will commence at the new plant in Kedah in the second half of 2019.



Key Projects For Which Sunway Quarry Supplied Stone

- 1 Klang Valley Mass Rapid Transit (MRT), 51 km Sungai Buloh – Kajang Line by Mass Rapid Corporation Sdn Bhd
- 2 Klang Valley Light Rail Transit (LRT) Line Extension, 34.7 km for Ampang and Kelana Jaya Line by Syarikat Prasarana Negara Berhad
- 3 Proposed Fourth Lane Widening by Projek Lebuhraya Usahasama Berhad (PLUS Berhad), 63.3 km from Shah Alam Interchange – Jalan Duta Interchange – Rawang Interchange and Nilai Utama – Seremban
- 4 Supplied to BRT (Bus Rapid Transit), Sunway Line
- 5 Proposed Development of KLIA2 and associated works at KL International Airport, Sepang Selangor by Malaysia Airports Holdings Berhad (MAHB). The Company completed the premix pavement works for package LF05A Terminal Approach Road (Fourth Wave (M) Sdn Bhd) and package LF05B Elevated Road and Quick Departure (Acre Works Sdn Bhd).
- 6 DUKE, Duta – Ulu Kelang Expressway Phase II
- 7 Kajang Outer Ring Roads, 34 km (SILK) – Sunway Construction Berhad. The company supplied 100% of the stone aggregates and asphaltic products in excess of 2.4 million and 600,000 tonnes respectively.
- 8 SMART – Flood Mitigation Project in Kuala Lumpur – Masterpave Sdn Bhd
- 9 Shah Alam Expressway (36KM) – KESAS/Gamuda and Keller (M) Sdn Bhd; 70% of road base materials as well as stone columns under Sungei Way Quarry Industries Sdn Bhd
- 10 Stone ballast/stone column for Expressway Rail Link, and Star line in Kuala Lumpur under Bauer (M) Sdn Bhd
- 11 Stone Ballast for Double Tracking Project Rawang-Tanjung Malim Stretch under DRB HICOM

PRIORITISING OPPORTUNITIES FOR LOCALS

People living close to our townships often ask how Sunway supports local businesses, jobs and skills. Our operations provide direct employment opportunities and we encourage local businesses to be part of our supply chain.

Local workers are hired where we operate whenever possible, contributing to the development of communities, job creation and local business growth. We only target national and international labour markets if skills and experience are unavailable locally or regionally.

We actively encourage talented locals to join our workforce at local and international career fairs.

Initiatives to Attract Malaysians in 2018

INITIATIVES TO ATTRACT MALAYSIANS IN 2018

- Participating in career fairs
- Conducting career talks and industry engagement sessions in targeted public and private universities
- Offering a special programme for students who aspire to be ICAEW Chartered Accountants through a sponsored and structured rotation training programme within Sunway
- Visiting schools and organising industry engagement sessions to a selection of the best universities in the UK to reach out to Malaysian students living there
- Collaborating with internationally-based Malaysian student bodies to promote our summer programme
- Partnership with ICMS - participating in their two annual flagship events including I2 and MPPC
- Collaborating with student-led organisations from targeted top universities in organising industry engagement sessions

Local Suppliers

Sunway does not have a formal policy requiring the prioritisation of locally-based suppliers and all have equal access to purchasing opportunities. Suppliers' credibility and ethical backgrounds are screened during a tendering and bidding process before purchases are made. This online and offline screening process is performed by following clear and transparent procurement policies and practices. Nevertheless, more than 95% of our suppliers are either locally based or have local regional offices.

SUSTAINABLE SUPPLY CHAIN

Sunway aims to continuously improve supply chain management and the transparency of its value chain. We want to ensure that we operate responsibly throughout the value chain and that the materials and components we procure are in compliance with relevant local and global regulations and standards.

Sunway is a diverse conglomerate with 12 business divisions that source products and services from thousands of global suppliers. We source responsibly and select suppliers who meet our high standards in ethical conduct, human rights, workplace performance and environmental management.



SUNWAY WORKS WITH SUPPLIERS TO CREATE A POSITIVE IMPACT ON SOCIAL AND ENVIRONMENTAL PROTECTION, BEYOND ITS BUSINESSES.

Our Group-level Supplier Code of Conduct ensures that suppliers:

- Adopt safe working conditions and treat their employees with respect
- Develop production processes that are responsible and environmentally friendly.

We reinforce our commitment to a social and environmental supply chain to suppliers and subcontractors.

Components of Sunway's Supplier Code of Conduct

LABOUR PRACTICE AND STANDARDS	Safeguarding against child labour, non-discrimination, health and safety, working conditions, working hours, compensation, right to association and fair employment.
ETHICS	Managing conflicts of interest and establishing ethical business measures including anti-corruption, adhering to fair business practices in managing business, employees and business relations.
REVIEW AND DOCUMENTATION	Stipulating how information is being managed, monitored and reviewed.
COMPLIANCE	Complying with all applicable labour and employment laws, ordinance, by-laws, rules, regulations or orders.
RISK ASSESSMENT	Ensuring existing and potential projects are conducted in accordance with Sunway's sustainability risk assessment.

We will continue to improve our processes and engage with our suppliers to:

- Identify and manage risks and
- Increase productivity and efficiency within the supply chain.

Sunway's Procurement Practices

- Following best practice in line with client expectations
- Minimising risks associated with procuring from vulnerable sources
- Increasingly focusing on the responsible sourcing of materials
- Communicating environmental conservation policy and practices through:
 - Letter of Award (LOA)
 - Regular engagement and training sessions
- Performing a risk assessment that evaluates social and environmental compliance before a project is awarded to existing or new suppliers
- Monitoring socio-environmental performance and initiatives to reduce suppliers' impact from operations and reporting findings to the management
- Warning and possibly terminating suppliers who conduct unethical behaviour that contravenes our socio-environment performance

OUR ROLES IN ADVANCING MALAYSIAN INDUSTRY

Property



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- FIABCI, the International Real Estate Federation
- Real Estate and Housing Developers' Association Malaysia (REHDA)

INDIVIDUAL

- Ms Sarena Cheah is a National Council member of REHDA 2018-2020
- Mr Chong Sau Min is a committee member of REHDA Wilayah Persekutuan Kuala Lumpur

Construction



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Construction Industry Development Board (CIDB)
- Master Builders Association Malaysia (MBAM)

INDIVIDUAL

- Mr Chung Soo Kiong, Managing Director of Sunway Construction, is the Deputy Chairman, International Affair Committee of MBAM
- Mr Steven Shee, General Manager of Legal at Sunway Construction, is the Vice President, MBAM Council and the Chairman, Publications, ICT and Data Resource Centre Committee of MBAM
- Mr Alex Hoo, General Manager of Business Solutions & IT Partner at IT Shared Service Centre, is the Deputy Chairman, Publications, ICT and Data Resource Centre Committee of MBAM
- Mr Tony Foo Yoon Seong, General Manager of Building Material at Sunway Marketing Sdn Bhd, is the committee member of Material Resources and Exhibition Committee of MBAM
- Ms Tan Siew Lian, Senior Manager of Procurement at Sunway Construction, is a committee member of Material Resources and Exhibition Committee of MBAM
- Dato' Ir. Tan Kia Loke, Senior Managing Director at the Chairman's Office of Sunway Berhad, is the Honorary Advisor of MBAM Council and Education Fund Committee of MBAM
- Datuk Kwan Foh Kwai, Advisor at Sunway Construction, is the committee member of Education Fund Committee of MBAM
- Major (R) Leong Yee Keong, Senior General Manager of Environmental, Safety and Health at Sunway Construction is the Deputy Chairman II, Safety and Health Committee of MBAM

Retail



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Malaysia Shopping Malls Association (PPKM)

INDIVIDUAL

- Mr HC Chan, CEO of Sunway Malls and Theme Parks is an Advisor to Malaysia Shopping Malls Association and also the advisor to the Council of Shopping Centres (CASC)

Hospitality



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Malaysian Employers Federation (MEF)
- Association of Hotel Employers (AHE)
- Malaysia International Chamber of Commerce & Industry (MICCI)
- Malaysian Association of Hotels (MAH)
- The Association of Malaysian Spas (AMSPA)
- Chaine des Rottisseurs Malaysia Chapitre
- The International Food & Wine Society (IWFS Ipoh)

Education



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Sunway University delivers world-class teaching and research with leading international collaborators such as Oxford, Cambridge and Lancaster Universities, UK; Le Cordon Bleu, France and Harvard, United States.

INDIVIDUAL

- Tan Sri Dr Jeffrey Cheah AO was conferred an Honorary Doctorate of Education by University Malaysia for his lifelong commitment to advancing the cause of education in Malaysia

Healthcare



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Malaysia-China Chamber of Commerce (MCCC)
- Malaysia Healthcare Travel Council (MHTC)
- Association of Private Hospitals Malaysia (APHM)
- American Malaysia Chamber of Commerce (AMCHAM)
- British Malaysia Chamber of Commerce (BMCC)
- Malaysia Australia Business Council (MABC)
- Malaysia New Zealand Chamber of Commerce (MNZCC)

Quarrying



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Malaysia Quarries Association (MQA)

INDIVIDUAL

- Mr Lee Chuan Seng, CEO of Sunway Quarry is a committee member of MQA

OUR ROLES IN ADVANCING MALAYSIAN INDUSTRY

Leisure



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Malaysian Association of Amusement Themepark & Family Attractions (MAATFA)
- International Association of Amusement Parks and Attractions (IAAPA)
- Malaysian Association of Zoological Parks and Aquaria
- Malaysian Association of Hotels (MAH)
- Sunway Lagoon Wildlife Park is an accredited zoo with Permit Pengendalian Zoo issued by the Department of Wildlife and National Parks, Seksyen 10(1)(a) and Akta Pemuliharaan Hidupan Liar 2010 (AKTA 716)

INDIVIDUAL

- Mr. Calvin Ho is a committee member and Mr. Mr. Magendaran Marimuthu is the Honorary Secretary of MAATFA.
- Mr. Calvin Ho is a committee member of Malaysian Association of Hotels (MAH).

Building Materials



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Road Engineering Association of Malaysia (REAM)
- International Road Federation (IRF)

INDIVIDUAL

- Mr. Arreshvhina (Assistant General Manager of Production), Calvin Ooi (Senior Research & Development Engineer) and Umulnajwa (Assistant Manager of Quality Assurance/Quality Control) are members of ACI (Malaysian Chapter), American Concrete Institute

Commercial & REIT



MEMBERSHIP IN ASSOCIATIONS

COMPANY

- Malaysian REIT Managers Association (MRMA)
- Malaysian Investor Relations Association (MIRA)

INDIVIDUAL

- Dato' Jeffrey Ng Tiong Lip, CEO of Sunway REIT has been a patron of REHDA since 2009
- Dato' Jeffrey Ng Tiong Lip has been the Chairman of the MRMA since 2016
- Dato' Jeffrey Ng Tiong Lip has been the Chairman of REHDA since 2016





#Sunwayforgood
for the Environment



#Sunwayforgood for the Environment

We are committed to minimising the environmental impact of our operations, from the energy and resources we consume to the waste we generate. Each business unit within the Group sets clear targets for the efficient use of resources with a particular focus on energy, water and waste reduction.

Our technological focus and commitment to innovation facilitate the development of solutions that may lessen the environmental impact of our operations. We are also working to extend environmental standards throughout our supply chain.



Key Green Highlights

- Sunway City is Malaysia's first fully integrated green township with 40% green and home to more than 150 species of flora and fauna
- Sunway City is 100% accessible by foot through canopied and pedestrian walkways
- RM5 million spent on landscaping and the beautification of Sunway City
- Styrofoam-free initiative
- Recycling programme
- Combined generation plant for Sunway City which uses natural gas to generate electricity, chilled water and hot water
- Construction of a water treatment plant in Sunway South Quay which produces approximately 10,000m³ of water for the commercial buildings within Sunway City
- All Sunway-owned buildings in Sunway City are 100% smoke-free in 2018

THE ECOWALK

at Sunway City Kuala Lumpur
is now **OPEN!**

The Ecowalk is our latest effort in expanding 1 connectivity in Sunway City, Malaysia.

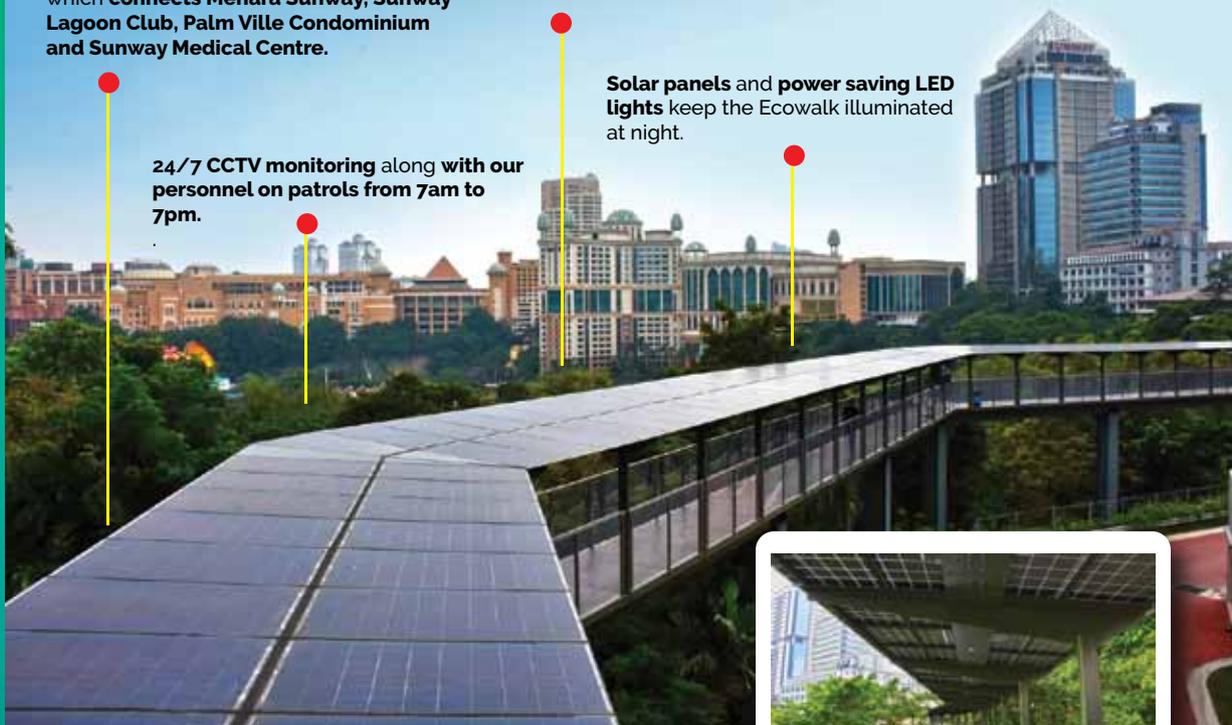
HERE ARE SOME **FACTS** ABOUT OUR ECOWALK!

Ecowalk is a **350m** long elevated walkway which **connects Menara Sunway, Sunway Lagoon Club, Palm Ville Condominium and Sunway Medical Centre.**

24/7 CCTV monitoring along with our **personnel on patrols from 7am to 7pm.**

Only **7 minutes from Menara Sunway to Sunway Medical Centre!** It's a more environmentally friendly, healthier and safer choice for the community.

Solar panels and power saving LED lights keep the Ecowalk illuminated at night.



These efforts are directly in line with the Group's commitment to the 17 Sustainable Development Goals.

As Sunwayians, let's continuously work together to foster an ecosystem in which our community can live, learn, work, play and be healthy in a safe and connected environment.

Content and design by Group Brand Marketing & Communications

SUNWAY[®]

GREEN GROWTH AND SUSTAINABLE DEVELOPMENT

Sunway is committed to boosting economic growth and development while ensuring that natural assets continue to provide the resources and environmental services on which our well-being relies.

Advocates of green developments, we create structures via processes that are environmentally responsible and resource-efficient throughout a building's life-cycle from siting, design, construction, operation, maintenance, renovation and deconstruction. This is especially important as we apply our unique "Build, Own, Operate" business model.

No.	Property	Type	Year Completed	Green Certification
Northern				
1	Sunway Property @ Anson	Regional Office and Sales Gallery	2017	2017 GBI - Gold (DA) 2020 Target GreenRE - Gold & GreenMark - Gold Plus
2	Sunway Carnival Mall Expansion	Retail Mall	2020	GreenRE - Gold Green Mark - Gold Plus
Central				
1	Sunway City	Township		GBI - Silver
2	Geo Tower	Office Suites	2017	GreenRE
3	Sunway Velocity Two	Serviced apartment and office tower	2022	GreenRE
4	Sunway Velocity V Residence (Phase 1A)	Serviced apartment	2015	BCA GreenMark
5	Sunway Montana (Condo)	High-rise - residential	2015	LEED platinum (Club House Only)
6	Sunway Serene	High-rise - residential	2021	GreenRE
7	Sunway Rymba Hills	Landed - residential	2012	BCA GreenMark - Gold
8	Sunway SPK 3 Harmoni	Landed - residential	2012	GBI & BCA GreenMark - Gold
9	Sunway Nexis - SOHO	High-rise - residential	2014	BCA GreenMark
10	The Pinnacle	Office tower	2013	GBI & BCA GreenMark
11	Sunway Challis	Townhouse	2009	BCA GreenMark
12	Sunway Vivaldi (Condo)	High-rise - residential	2011	BCA GreenMark
13	Sunway Palazzo (Condo)	High-rise - residential	2011	BCA GreenMark - Gold
14	Nautica Lakesuites (Condo)	High-rise - residential	2010	BCA GreenMark
15	A'marine (Condo)	High-rise - residential	2013	BCA GreenMark - Gold

No.	Property	Type	Year Completed	Green Certification
Southern				
1	Sunway Iskandar	Township	On-going	Target GBI
2	Sunway Southern Region Office	Bungalow building	2014	GBI
3	Citrine Hub (DOS & Retail)	High-rise - commercial	2018	Target GreenRe
4	Sunway Big Box Village (Retail)	High-rise - commercial	2018	Target GreenRe
4	SJK (C) Cheah Fah	Amenities	2019	Target GreenRe

Benefits of Green Buildings

- Limit the impact buildings have on climate change
- Consider energy, water, indoor environmental quality, materials selection and location
- Reduce landfill waste
- Enable alternative transportation use
- Encourage retention and creation of vegetated land areas and roofs

GREEN CONSTRUCTION MATERIALS

Green building design applies eco-friendly or improved traditional building materials, which significantly lessen environmental degradation, allowing for the construction of healthy buildings that are sustainable to the occupant and environment.

Increasing Building Quality with Autoclaved Aerated Concrete (ALC) Blocks

ALC blocks are unique and excellent building materials due to their resistance to extreme heat, fire and sound. ALC blocks are lightweight and offer ultimate workability, flexibility and durability. They can help reduce environmental waste by 30%, greenhouse radiation by 50% and integrated energy on the surface of brick by over 60%. The environmentally-friendly blocks are easy to cut precisely, reducing solid waste and related manufacturing carbon dioxide emissions.

BIODIVERSITY CONSERVATION

Sunway City is built on ex-mining land that was rehabilitated by improving the environment and resources available to local communities. The township has been successfully transformed from a mining crater, bringing back more than 150 species of flora and fauna into the barren wasteland.

FLORA & FAUNA

MORE THAN **150** SPECIES

BIRDS

22 SPECIES

OPEN SPACES

47.97%

38.97% OVER REQUIREMENT

GREEN SPACES

23.77%

13.77% OVER REQUIREMENT

SHADED HARDSCAPES

54.67%

WATERSCAPES

17.50%



Sunway's Approach to Minimising Loss of Biodiversity

- Obtaining necessary regulatory approvals and consent before work commences
- Analysing the impact our projects have on biodiversity before work commences
- Developing mitigation measures or offsets once risks are identified
- Clearing in a manner that minimises habitat loss or degradation
- Performing a biodiversity assessment at each phase of a project
- Implementing an offset or relocation programme if disturbing biodiversity within an area zoned for clearing is unavoidable

Lake Rehabilitation

In 2018, excess nutrients in Sunway Lagoon Lake were causing it to slip into a eutrophic state, which can result in algae blooms. A water pump was installed just above the sediment layer to discharge nutrient-rich water. This is one of the actions that helped maintain the lake in a mesotrophic state.

A quarterly water sampling is conducted to monitor the parameters of the lake water to ensure it remains within our expectations. The results are shared with the Sunway University Research Team for their ongoing biodiversity research project.

A “Fishing Frenzy” event was held on 4 August 2018 as part of Sunway Lagoon’s Lake rehabilitation project, where fishes were caught and relocated to the South Quay Lake. The event also provided an urban fishing experience for anglers at this man-made lake.

Sunway Lost World of Tambun planted cattails around its lake. This aquatic plant has an amazing ability to absorb phosphorus, nitrogen and other elements that can harm natural water bodies and sediment beds. They perform the same vital function in treating wastewater. The plants maximise their uptake of nutrients with water swirling beneath the root system.

In 2018, Sunway Lost World of Tambun’s biodiversity and conservation efforts involved planting fruit trees to attract more birds naturally and provide a sustainable food supply for animals.

Landscape Rehabilitation

Hydroseeding is a key component of Sunway Quarry’s landscape rehabilitation plan. A viscous mixture of seeds, water, fertiliser and natural fibres are sprayed, which help to protect the seeds until germination. Hydroseeding is an extremely cost-effective and successful method of establishing new vegetation.

Our grass seeding process involves spraying a mixture of seed, water, mulch, eco-friendly binder, fertiliser and trace elements to establish vegetation in areas that might otherwise be too large, inaccessible or impractical for conventional seeding. The water retaining mulch keeps the seeds moist, preventing wind and rain erosion while retaining essential nutrients for healthy grass.

Sunway Quarry also plants Eugenia trees along the access road and lemongrass near its quarry offices.

Minimising Biodiversity Loss as a Result of Our Operations

- Sunway adopts a minimal cut and fill approach to avoid importing soil for environmental and cost reasons.
- When constructing buildings and infrastructure, excavated soil is temporarily stored on the site for use once the foundations and basement structure have been completed.
- All trees that do not hinder construction are untouched; others are relocated to preserve the environment.
- Temporary earth drains with a concrete lining and silt traps are erected.
- Natural lake water is used to water down construction sites to minimise dust.
- Temporary slope protections are measured during construction to prevent erosion and environmental hazards from dust.



Green Township

Our tree-planting programme is facilitated by our own nursery company, Tajul Green Sdn Bhd. The selected trees are fast-growing, canopied and require little maintenance. There are 31,779 native and 142,291 adaptive plant species in Sunway City. The most common species are presented below.

Target



Increase the number of trees from the current 25,000 to 30,000 in 2020

Component	Palm Type	Tree Type	Shrubs
Sunway Lagoon	<i>Dypsis lutescens</i>	<i>Pisonia alba</i>	<i>Hymenocallis speciosa</i>
Sunway Lagoon (Rainforest area)	<i>Ptychosperma macarthurii</i>	<i>Acacia auriculiformis</i>	<i>Piper pseudolindenii</i>
Sunway Medical Centre	<i>Roystonea regia</i>	<i>Podocarpus spp</i>	<i>Hibiscus spp</i>
Palmville Condo	<i>Ptychosperma macarthurii</i>	<i>Polyalthia longifolia</i>	<i>Ixora (super pink)</i>
Sunway University	<i>Areca catechu</i>	<i>Syzygium grandis</i>	<i>Wedelia biflora</i>
Sunway Pyramid	<i>Livistona chinensis</i>	<i>Eugenia grandis</i>	<i>Rhapis excelsa</i>
Sunway Resort Hotel & Spa	<i>Elaeis oleifera</i>	<i>Khaya senegalensis</i>	<i>Pandanus pygmaeus</i>
Menara Sunway	<i>Dypsis leptocheilos</i>	<i>Ficus wmicrocarpa, "Golden"</i>	<i>Duranta erecta</i>
Clubhouse (Sunway Lagoon Club)	<i>Ptychosperma macarthurii</i>	<i>Erythrina glauca</i>	<i>Epipremnum aureum</i>
Jalan Lagoon Selatan	<i>Livistona rotundifolia</i>	<i>Pterocarpus indicus</i>	<i>Bougainvillea spp</i>

NUMBER OF TREES

25,000

TARGET TREES BY 2020

30,000

NATIVE PLANTS

31,779 SPECIES

ADAPTIVE PLANTS

142,291 SPECIES

GREEN FEELINGS AT SUNWAY PYRAMID MALL

'Oasis Garden', Sunway Pyramid's latest asset enhancement exercise is a rainforest-like environment simulated across six floors of escalator decks by creatively using sight, sound, smell and touch. 60% of materials were reused from previous festive décors and events.

Oasis Garden, Malaysia's first sensory escalator deck, creates a pleasant transition for people walking from the parking bays to the retail space and back. The escalators, connecting CP7 to CP2 parking floors at the Orange Atrium, feature artificial greenery with sounds of birds, crickets, frogs, monkeys, flowing water and gusts of wind.

Authentic sounds from 17 species of birds were used to create this soundscape. The sight of a rainforest-like garden is therapeutic for shoppers. The mall has invested approximately RM250,000 on this initiative to date.

Sunway Pyramid Mall also has Paradise Garden, lush greenery with real plants in Lower Ground I beside the Blue Entrance.

CENTRALISED TOWNSHIP MANAGEMENT

In 2018, we began introducing a centralised township management system that uses smart city data through connected properties and infrastructure. This system centralises the data and reporting for the entire environmental and sustainability operations. This simplifies performance management and improves the management of environmental risks and impacts.

Energy Efficiency and Optimization

High environmental standards were introduced by Sunway to ensure that energy is available to drive economic growth and social well-being.

Energy Management at a Glance

≤ 2016

Sunway Pyramid

- Loading Bay Induction Lights
- Chiller Replacement

Sunway Carnival

- Aircond Equipment Optimisation

Menara Sunway

- Chiller Operation Rescheduling

LED Replacement

- Pyramid Tower CP
- Lagoon Club Common Area

2017

Sunway Pyramid

- Car Park LED Replacement
- CP7 Car Park

Sunway University

- Chiller Consolidate

Wisma Sunway

- Chiller Operation Adjustment

2018

LED Replacement

- Sunway Pyramid Common Area
- Monash Residence Student Units

Solar System (332kWp)

- Ecowalk (220kWp)
- Public Linkage (77kWp)
- Geowalk (35kWp)

2019

Menara Sunway

- Chiller System Upgrade
- BEMS Upgrade

Sunway Pyramid

- BOH, Escalator, Cove LED
- BEMS SPI Upgrade

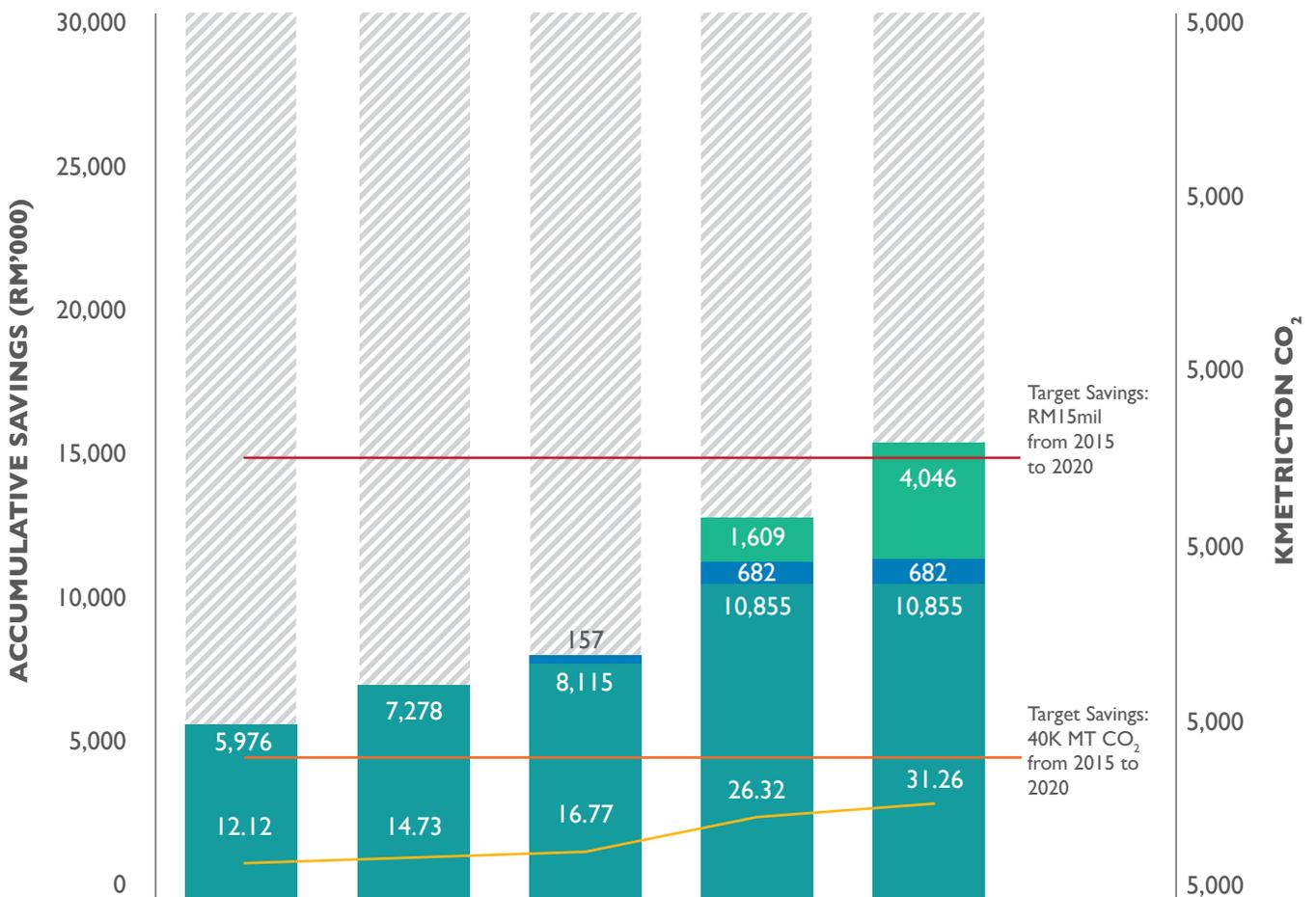
Solar System (4.25MWp)

- Sunway University (628kWp)
- Monash University (232kWp)
- Sunway Pyramid Mall (2MWp)
- Hypermarket @ Ipoh (933kWp)
- Sunway Medical Centre (448kWp)

≥ 2020

Solar System (5.069MWp)

- Big Box (3.7MWp)
- X-Treme Park (765kWp)
- Sunway International School (586kWp)



Solar Panels at Sunway University

Solar panels, installed on the rooftops of North building and University Building of Sunway University, supply 800 amps of electricity to the University's South Building. The South Building was selected as the low voltage tariff is 50 sen per kilowatt compared to 40 sen in the North Building.

On an average day with eight hours of sun, the North Building generates 200 amps and the University Building 600 amps. Excess energy is stored in batteries and the South Building energy costs are reduced by approximately RM60,000 per month.

LED Replacement Exercise

Sunway's major LED replacement exercise commenced in 2017. The actual and projected savings are monitored and recorded.

Property	Area	Annual Energy Savings (RM)
Completed		
Sunway Pyramid	Car Park	829,848
	Common areas	441,080
Sunway Hotel Georgetown	Car Park	4,068
On-going		
Menara Sunway	Common areas and toilets	81,521
Sunway Pyramid	BOH, Escalators, Staircases, Cove	714,836
Sunway Pinnacle	Car Park	92,663
Sunway Giza	Car Park	52,615
Menara Sunway	Car Park	43,755
Sunway Putra Place	Car Park	198,887
Sunway Clio Hotel	Car Park	129,909
Wisma Sunway	Car Park	42,555
Sunway Medical Centre	Car Park	96,042
Sunway Carnival	Car Park	147,595
Sunway Resort Hotel & Spa	Car Park	68,209
Sunway Tower	Car Park	18,580

Sunway Hospitality Division Temperature Control

Electricity usage is one of the highest operating expenses of the hotel industry.

An average of 90% of wasted electricity results from poorly optimised temperature control. Sunway Hotels are managing and monitoring temperature control by raising the:

- Chiller setting from 6°C to 8°C
- Lift landing FCU setting from 20°C to 23°C
- Guestroom corridor's FCU setting from 21°C to 25°C
- Guestrooms' air-conditioning pre-cool setting from 23°C to 25°C

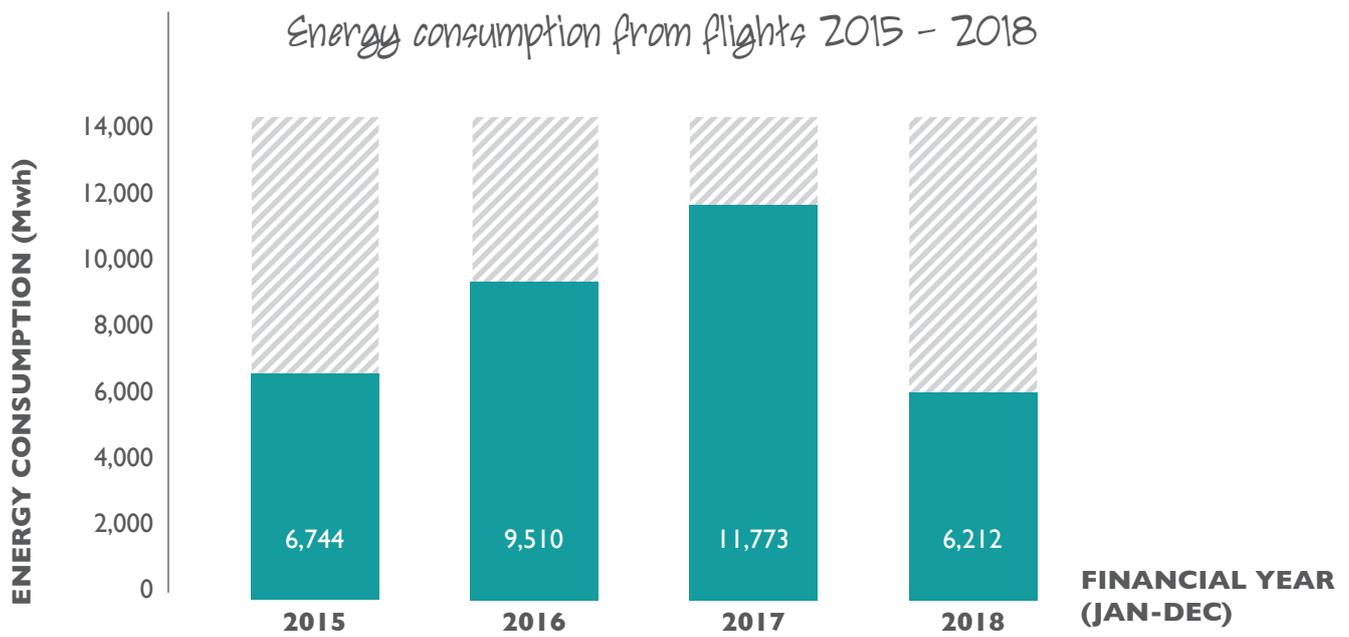
Total energy consumption by Business Unit (electricity consumption only)

No	Business Unit	MWh per annum ¹			
		FY 2015	FY 2016	FY 2017	FY 2018
1	Commercial	19,667	18,846	21,521	22,931
2	Retail	182,265	198,307	217,470	221,613
3	Hospitality	42,287	40,838	47,549	48,441
4	Leisure	14,523	17,977	17,227	17,130
5	Healthcare	16,270	16,412	21,544	22,828
6	Education	28,145	28,877	26,519	27,644
7	Building materials	9,524	10,275	12,332	11,132
8	Trading & Manufacturing	2,949	3,699	4,314	4,892
Total		315,630	335,231	368,476	376,611

Energy consumption by activity

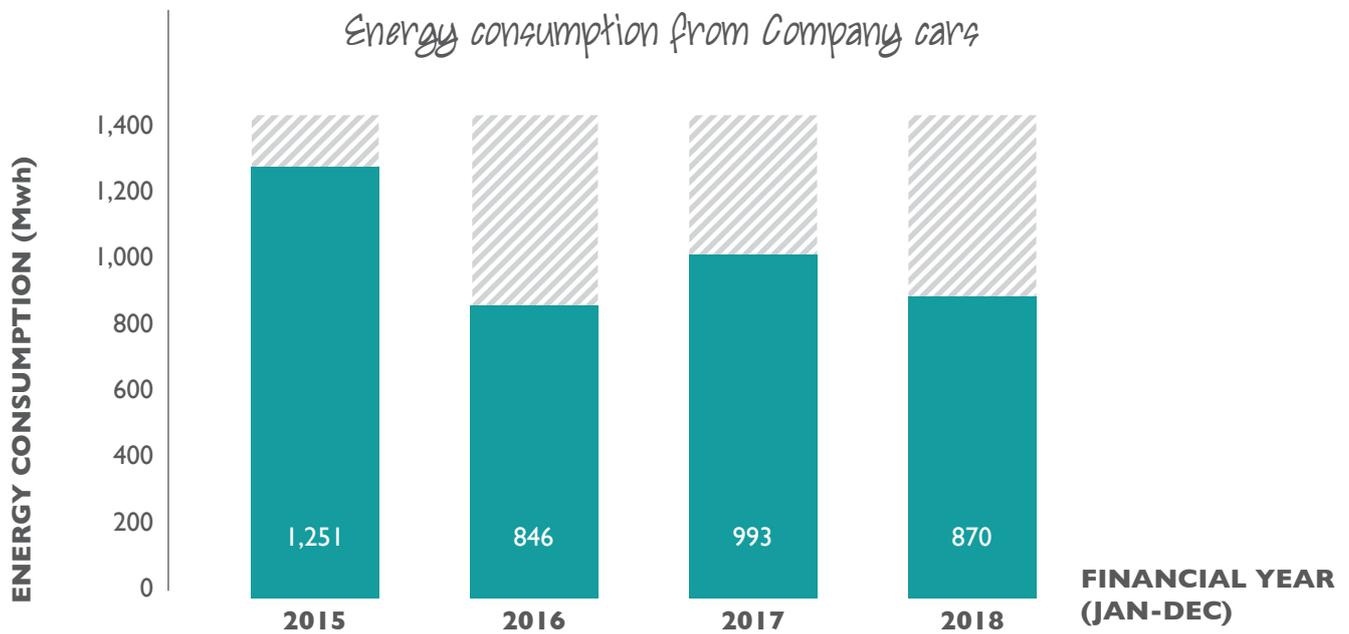
Boundaries	Type of activity	Bulk energy consumption per year (MWh)			
		FY 2015	FY 2016	FY 2017	FY 2018
Within the organization	Company Owned Vehicles	1,251	846	993	870
	Electricity Consumption	315,630	335,231	368,476	376,611
	Total	316,881	336,077	369,469	377,481
Outside the organization	Business Travel (Flights)	6,744	9,510	11,773	6,212
	Travel Claims (Mileage)	2,027	1,595	2,059	1,705
	Total	8,771	11,105	13,832	7,917

Energy consumed from travelling (flights)



Calculation tool used for obtaining energy consumption due to travel: UK Government GHG Conversion Factors for Company Reporting v1.01 [Year 2018]

Energy consumed from travelling (company car)

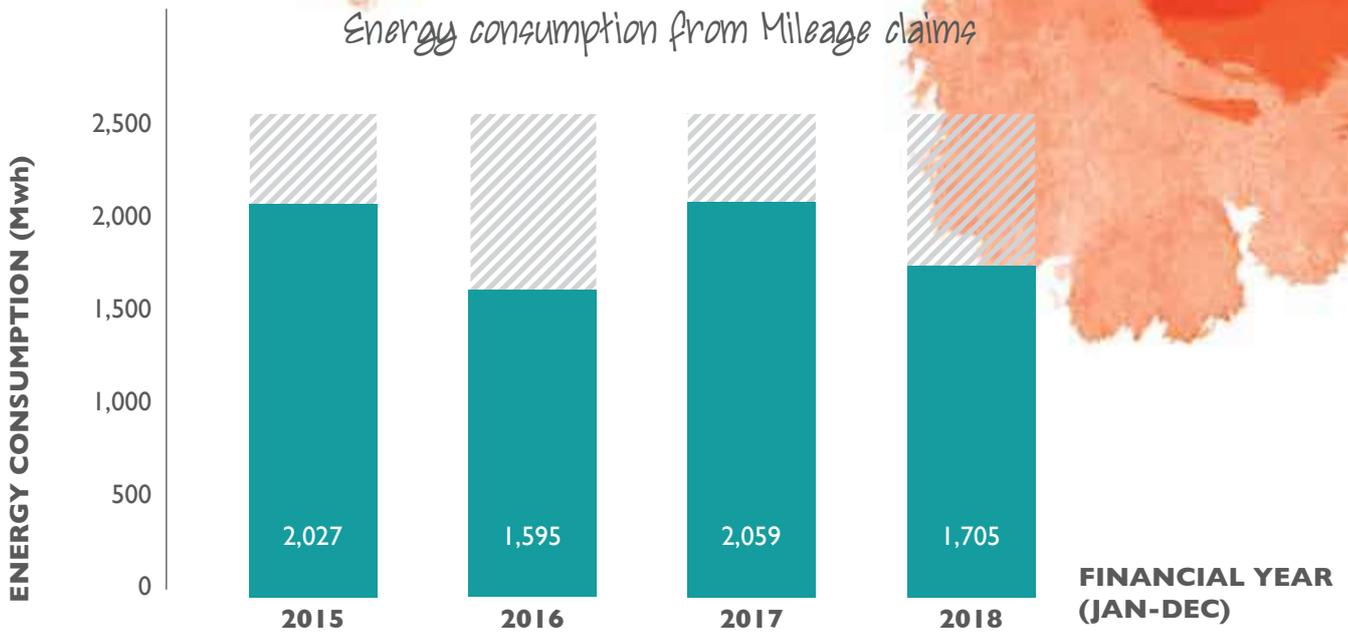


Calculation tool used for obtaining energy consumption due to travel: UK Government GHG Conversion Factors for Company Reporting v1.01 [Year 2018]

Calculation method

Company car energy consumption was based on information extracted via monthly claims. The amount claimed was converted to L/km using average cost of petrol in Malaysia for each year (assumed all cars used RON 95) and subsequently the petrol consumed was converted into km using the assumption that the average car in Malaysia has a fuel economy of 12.89 L/100km. The fuel economy value was based on values cited by scientific research papers as well as information published by the local news.

Energy consumed from travelling (mileage claims)



Calculation tool used for obtaining energy consumption due to travel: UK Government GHG Conversion Factors for Company Reporting v1.01 [Year 2018]

Calculation method

Mileage claims energy consumption was based on information extracted via monthly claims whereby the distance travelled per claim is provided.

WASTE MANAGEMENT

In 2018, we began introducing a centralised township management system that uses smart city data through connected properties and infrastructure. This system centralises the data and reporting for the entire environmental and sustainability operations. This simplifies environmental performance management and improves the management of environmental risks and impacts.

- E-WASTE MANAGEMENT**
- CLINICAL WASTE**
- RECYCLABLE WASTE**
- FOOD WASTE**

Sunway holds an annual e-Waste Disposal Campaign and e-Waste collection bins are strategically located in its buildings.

Sunway Medical Centre segregates clinical waste and disposes of it in yellow stepbins that are wheeled to the interim Clinical Waste Storage Chamber. These stepbins are collected several times each day by a licensed contractor and transported to the incineration plant. A summary of the clinical waste collection report, along with copies of all consignment notes for the month, is sent to Selangor State Department of Environment as per regulations.

Recyclable waste separation is practised in all Sunway properties. Recycling bins are placed in public common areas or back-of-house.

Food waste is generated in the central kitchens and staff cafeteria of our theme parks' tenants. This food waste is then composted.

Did You Know

A recycling store was built at Sunway Lagoon Theme Park's Wild Wild West. Recycling bins were introduced in the Park. Sunway Lagoon Theme Park also collaborates with a recycling vendor to encourage good recycling habits among our people. The recycling vendor works on a reward-based system where points can be redeemed for cash or Sunway PALS points.

All Food and Beverage tenants and the housekeeping team were invited to the launch of this programme in November 2018.

KAIZEN for Improved Waste Management at Our Construction Sites

Sunway continued to integrate the Kaizen philosophy and culture of continuous improvement in its operations. In 2018, Sunway Construction championed this initiative by implementing two significant activities.

- **Reduce wastage for cementitious items**

Improved the storage and handling of cementitious items that resulted in less waste at the project site.

- **Waste segregation**

Raised workers' awareness of waste segregation and improved project housekeeping scores in the Sunway Safety Merit System (SSMS).

General Waste Generated by Business Unit

No	Business Unit	Tonnes	
		FY 2017	FY 2018
1	Commercial	443	565
2	Retail	7,633	8,158
3	Hospitality	2,324	1,973
4	Leisure	1,644	1,342
5	Healthcare	820	1,028
6	Education	348	351
7	Building materials	5,513	4,318
8	Trading & Manufacturing	NA	NA
Total		18,503	17,735

Recycled Waste by Business Unit

No	Business Unit	Tonnes	
		FY 2017	FY 2018
1	Commercial	3	27
2	Retail	323	304
3	Hospitality	73	78
4	Leisure	6	10
5	Healthcare	3	5
6	Education	35	28
7	Building materials	3	3
8	Trading & Manufacturing	887	854
Total		1,333	1,309

Breakdown of Recycled Waste by Category

Financial year	Tonnes					Total
	Organic (Cooking Oil)	Paper and board	Plastic	Metal	Others	
2017	27	351	20	22	912	1,332
2018	26	377	16	31	859	1,309

Scheduled Waste by Business Unit

No	Business Unit	Tonnes	
		FY 2017	FY 2018
1	Education	5	12
2	Building Materials	8	6
Total		13	18

Clinical Waste

No	Business Unit	Tonnes	
		FY 2017	FY 2018
1	Healthcare	353	262

INNOVATIVE SOLUTIONS FOR WATER MANAGEMENT

Sustainable water management is a broad and complex issue that Sunway supports by reducing water consumption and wastewater production. Through collaborative and innovative initiatives within different organisations and business units, Sunway has developed efficient water use solutions that promote the smart use of water.

Sunway reuses storm water for irrigation and general cleaning around Sunway Lagoon. No potable water is used for irrigation as recycled water reserves last up to 189 days.

Cleaning Water for Reuse

STORMWATER IS COLLECTED IN A
RETENTION POND



RECYCLED WATER IS TREATED WITH
CLEANFLO INVERSION AND AN
OXYGENATION SYSTEM AND THE WATER
QUALITY IS TESTED REGULARLY



WATER IS USED FOR LANDSCAPING
IRRIGATION, SUNWAY LAGOON'S SURF
POOL AND GENERAL CLEANING

On average, 9,000 m³ of water flows into South Quay Lake each year. Surface runoff and groundwater is constantly pumped into nearby monsoon drains and discharged into Sg. Penaga. Sunway's own water treatment plant purifies water from the South Quay Lake for use in existing, new and future commercial buildings. The quality of the treated water meets the Ministry of Health's potable water standards.

In 2018, we discovered an alternative ground water source in the old tiger cage of Sunway Lagoon theme park. Pipes have been connected and we have begun using this alternative water source for cleaning and watering plants. We aim to use this alternative ground water and water collected from rainwater harvesting:

- At the Wild Wild West ex-Log Flume Pond to clean common areas
- To supply water to Rapid River and Colorado Splash, which consumes the most water

Existing water pumps at the theme park have also been retrofitted with a Variable Speed Drive Control System. This is a better approach for maintaining the desired water pressure to regulate the speed of the pump's motor. The system controls the speed of induction motors by controlling the supplied frequency and voltage.

Water Consumption by Property

Sunway does its utmost to protect this valuable resource and use it sparingly wherever possible. Our water consumption is presented in the table below.

No	Business Unit	m ³ per annum			
		FY 2015	FY 2016	FY 2017	FY 2018
1	Commercial	221,602	241,363	211,777	183,592
2	Retail	822,051	1,177,596	1,797,117	1,601,470
3	Hospitality	429,384	490,081	1,032,283	1,078,136
4	Leisure	465,976	633,955	770,220	836,231
5	Healthcare	165,989	170,295	179,382	190,057
6	Education	206,107	203,249	384,837	392,448
7	Building materials	27,976	39,929	36,419	36,516
8	Trading & Manufacturing	37,131	39,273	36,853	48,106
Total		2,376,216	2,995,741	4,448,888	4,366,556

CLIMATE CHANGE AND GREENHOUSE GAS EMISSIONS

Sunway's businesses and activities are closely connected to the challenges of green growth. The Group strives to limit the environmental impact of its activities by developing solutions that help reduce the amount of energy and materials consumed. Looking beyond our operations, we are also tackling Greenhouse Gas Emissions (GHG) in our extended supply chain.

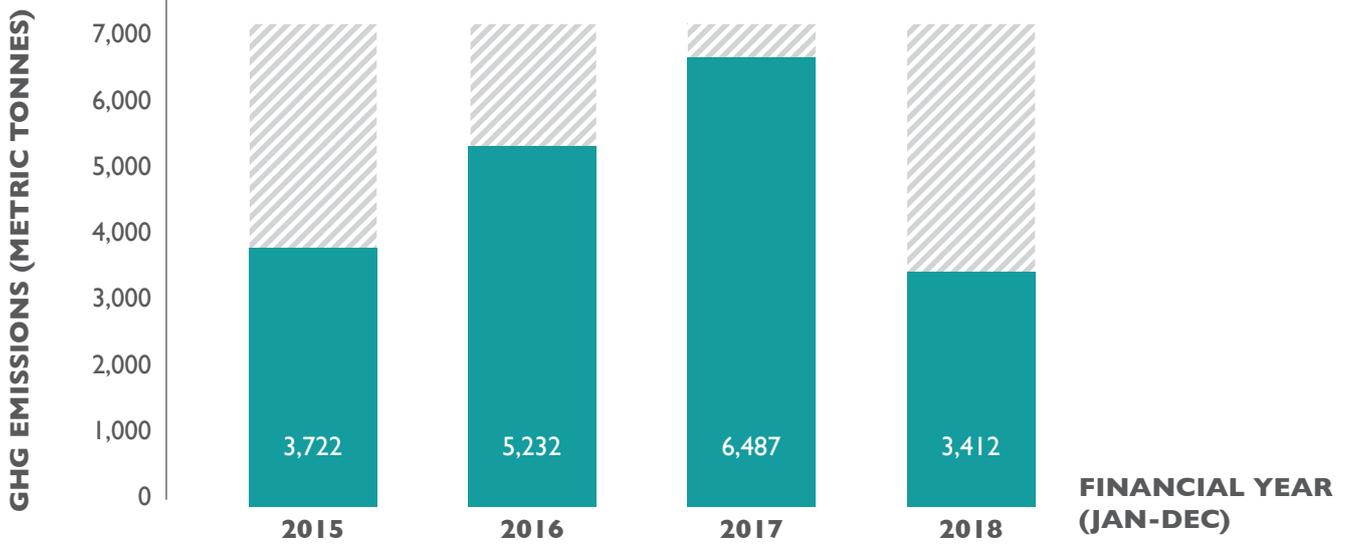
No	Business Unit	Tonne CO ₂ e per annum			
		FY 2015	FY 2016	FY 2017	FY 2018
1	Commercial	13,649	13,079	14,936	15,914
2	Retail	126,492	137,625	150,924	153,799
3	Hospitality	29,347	28,342	32,999	33,618
4	Leisure	10,079	12,476	11,956	11,888
5	Healthcare	11,291	11,390	14,952	15,843
6	Education	19,533	20,041	18,404	19,185
7	Building materials	6,610	7,131	8,558	7,726
8	Trading & Manufacturing	2,047	2,567	2,994	3,395
Total		219,048	232,651	255,723	261,368

Total Emissions Generated

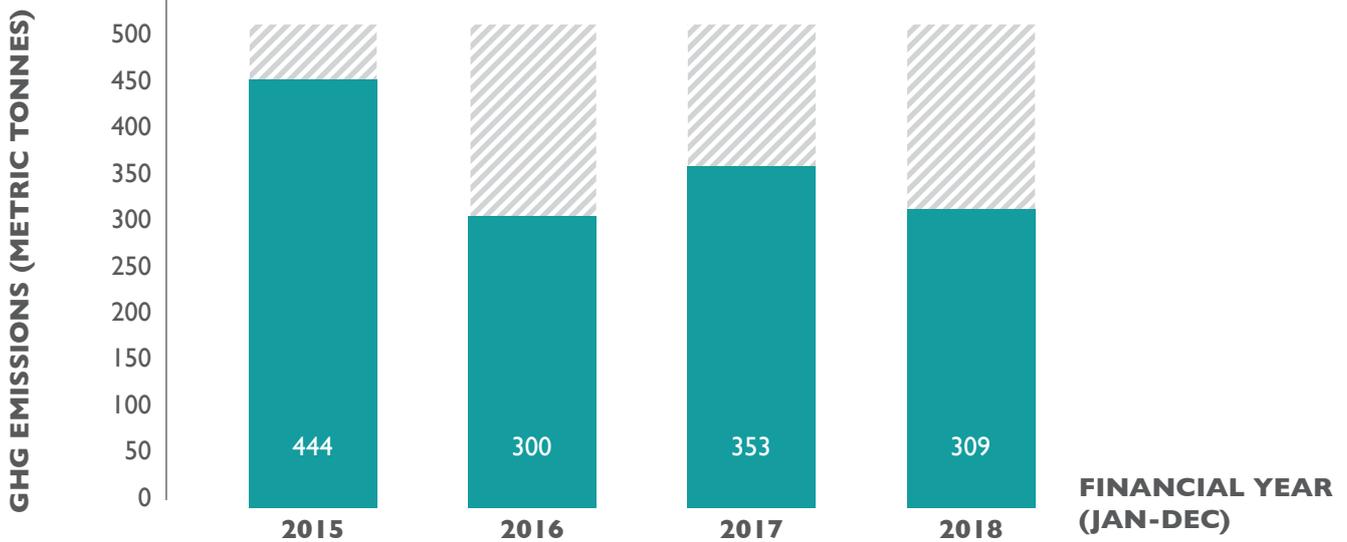
No	Type of activity	Bulk Emissions (Tonne CO ₂ e)			
		FY 2015	FY 2016	FY 2017	FY 2018
1	Company Owned Vehicles (Petrol/diesel consumption not including WTT)	444	300	353	309
2	Electricity Consumption	219,048	232,651	255,723	261,368
Total		219,492	232,951	256,076	261,677
	General waste (landfill)	N/A	N/A	1,868	1,756
3	Business Travel (Flights including WTT)	3,772	5,232	6,487	3,412
	Travel Claims (Mileage including WTT)	721	567	733	608
Total		4,493	5,799	9,088	5,776

- Emission factor used for obtaining emissions from electricity: 2014: Baseline CO₂ for Peninsular - 0.694 tCO₂/MWh from SEDA
- Calculation tool used for obtaining emissions from landfill: UK Government GHG Conversion Factors for Company Reporting v1.01 [Year 2018]
- Calculation tool used for obtaining energy consumption due to travel: UK Government GHG Conversion Factors for Company Reporting v1.01 [Year 2018]

GHG emissions from flights 2015 - 2018



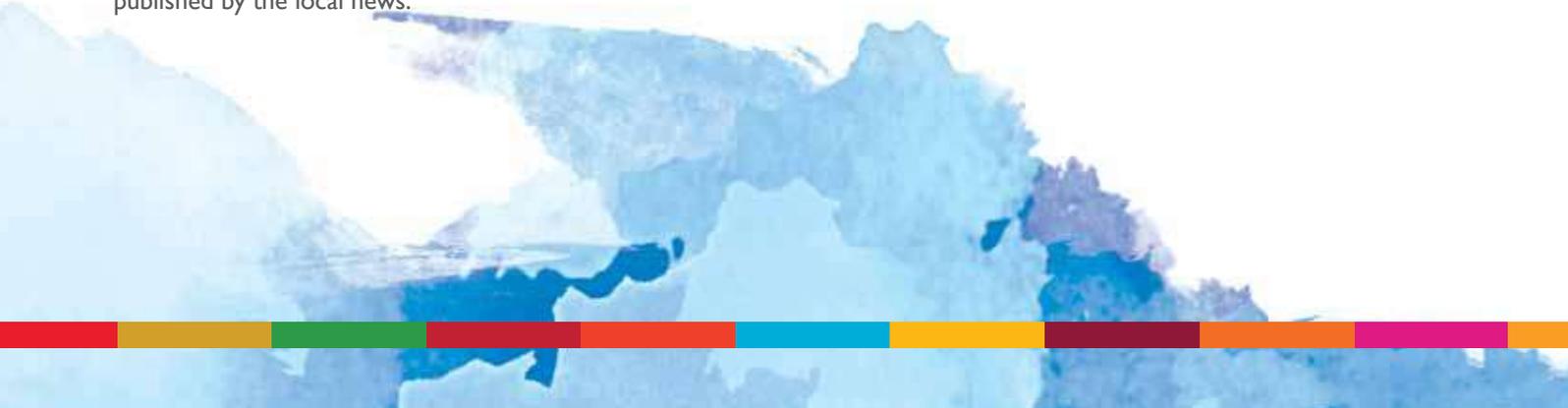
GHG emissions from Company cars



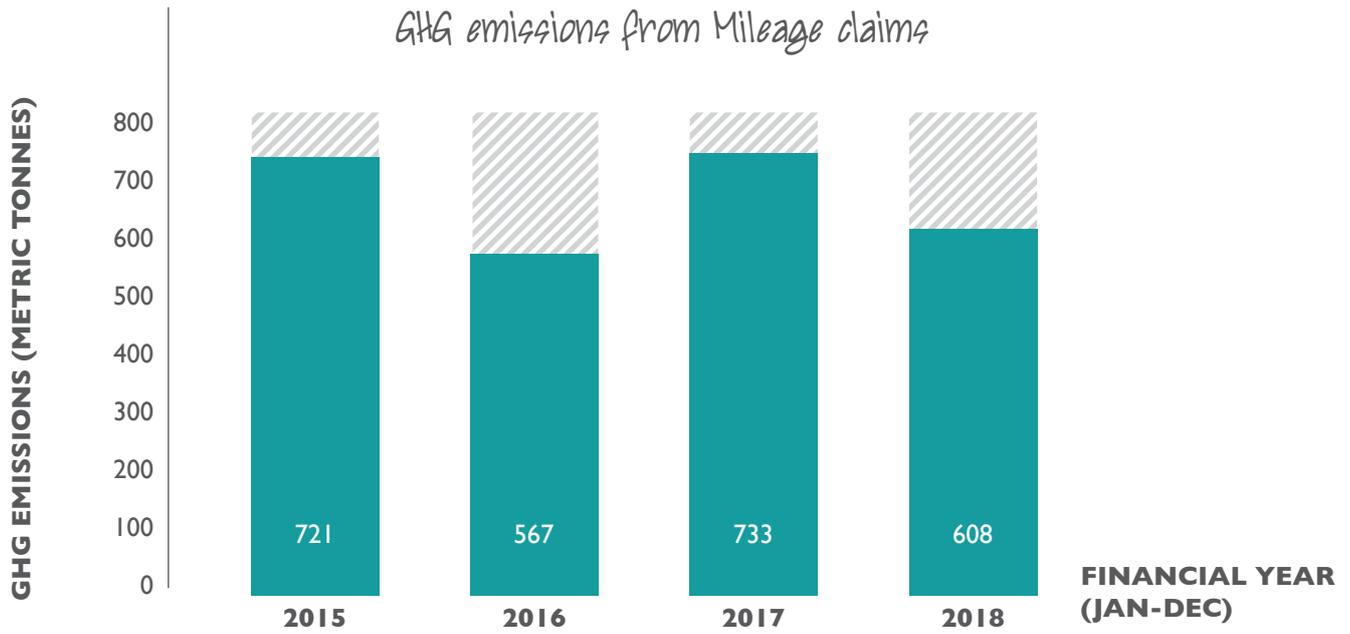
Calculation tool used for obtaining energy consumption due to travel: UK Government GHG Conversion Factors for Company Reporting v1.01 [Year 2018]

Calculation method

Company car energy consumption was based on information extracted via monthly claims. The amount claimed was converted to L/km using average cost of petrol in Malaysia for each year (assumed all cars used RON 95) and subsequently the petrol consumed was converted into km using the assumption that the average car in Malaysia has a fuel economy of 12.89 L/100km. The fuel economy value was based on values cited by scientific research papers as well as information published by the local news.



Emissions from Travelling (Mileage Claims)



Calculation tool used for obtaining energy consumption due to travel: UK Government GHG Conversion Factors for Company Reporting v1.01 [Year 2018]

Calculation method

Mileage claims energy consumption was based on information extracted via monthly claims whereby the distance travelled per claim is provided.

Avoided emissions

Thanks to our recycling efforts, we managed to avoid 474 tonnes and 495 tonnes of CO₂e emissions that would have otherwise been generated from landfill in 2017 and 2018 respectively.

Calculations were based on the UK Government GHG Conversion Factors for Company Reporting v1.01 [Year 2018]. The table below was utilized for the emission calculations.

Activity	Waste type	Unit	Landfill emissions (kg CO ₂ e)
Refuse	Organic: food and drink waste	tonnes	626.9729
	Commercial and industrial waste	tonnes	99.7729
Plastic	All types	tonnes	9
Paper and board	All types	tonnes	1041.9017
Metal	All types	tonnes	9



Environmental Initiatives

Earth Hour

Sunway Group participated in Earth Hour which is the world's largest grassroots movement for climate change action. The movement was practised in Sunway's many locations around Malaysia on 24 March 2018.

WWF's Earth Hour is an annual environmental campaign that raises awareness of climate change by asking people to switch off lights at homes and businesses for an hour from 8.30 pm.

In Klang Valley, Sunway Lagoon hosted the Earth Hour Blackout Fest, which featured live music performances in the dark by The Impatient Sisters, V5 and RazQa from 7.30 pm. Food and drinks were served and fun activities included a finale show of "Tale of Mount Berapi".

In March 2018, Sunway Property also organised a writing contest on 'how to celebrate Earth Hour moments'. The event gave property owners and residents a chance of winning tickets to the Earth Hour Blackout Fest. Residents were also encouraged to take part in Earth Hour by switching off all non-essential lights for an hour.

Sunway Giza Mall in Sunway Damansara was the chosen venue of the Earth Hour Walk 2018. Themed

#Connect2Earth, it attracted 1,500 participants and raised funds for WWF-Malaysia's conservation efforts.

Sunway Education Group's campuses, Monash University Malaysia, Sunway Resort Hotel & Spa, Sunway Pyramid Hotel, Sunway Clio Hotel, Sunway Putra Hotel and Sunway Velocity Hotel also took part in Earth Hour by switching off all non-essential lights for 60 minutes to encourage everyone to support the planet during Earth Hour.

The Banjaran Hotsprings Retreat in Ipoh, Perak, also supported the movement by switching off all non-essential lights for 60 minutes.

In Penang, Sunway Hotel Georgetown and Sunway Hotel Seberang Jaya conducted an Earth Hour Awareness Raising programme. Candlelight activities and Q&A sessions took place in the respective hotel lobbies. Each guest room in Sunway Hotel Georgetown and Sunway Hotel Seberang Jaya received glow sticks for Earth Hour celebrations.

Sunway has supported the Earth Hour movement since 2009 and it is one of the community initiatives that the Group has taken on its journey towards a sustainable future.

Sunway Hotels & Resorts Soapful Initiative

Soapful is an initiative by Sunway Hotels & Resorts in collaboration with Ecolab Sdn Bhd, Kinder Soaps Sdn Bhd and Selangor Youth Community (SAY). Soap is repurposed to help communities in need. The project was launched on 5 December 2018 with His Royal Highness Tengku Amir Shah Ibni Sultan Sharafuddin Idris Shah Alhaj, the Crown Prince of Selangor graced the event.

During the launching ceremony, 1,000 bars of repurposed soap were presented to Pertubuhan Kebajikan Anak Yatim Darul Ehsan Malaysia for personal use and sale in charity community markets and social platforms.

Sunway's hospitality division collects used raw bars of soap from all hotels. The soap is sent to the home where Kinder Soaps teach children how to repurpose soap themselves. SAY will continue to identify subsequent beneficiaries for this project based on its capacity.

Life Below Water Fishing Frenzy

Urban fishing is a growing trend in Malaysia. Sunway Lagoon organised the Fishing Frenzy at the man-made lake on 4 August 2018. The lake had not been fished for 25 years and participants were exposed to a unique four-hour session. Species of fish such as Kelah Merah (Red Mahseer), Bala Shark, Jelawat (Sultan's Fish) could be caught. This session was part of Sunway's aquatics conservation efforts.

Filtration System at Sunway Malls

Sunway Pyramid's filtration system, which prevents hot air from entering the mall, is strategically located at the mall's entrances. We have installed air curtains with airlocks that produce a controlled stream of air that forms a seal. Creating a resistance to airflow helps keep outdoor heat and insects from entering air-conditioned spaces. However, people can move freely and their vision is not obstructed. Air curtains provide energy savings and personal comfort.

Target



To collect 720 kg of leftover soap, which is equivalent to 7,200 repurposed soap bars, by the end of 2019.

Promoting Clean Air

Hybrid cars run cleaner and have greater mileage than gasoline-powered cars. Environmentally-friendly hybrid vehicles run on twin powered engines that reduce fuel consumption and conserve energy.

Sunway Pyramid has partnered with Mercedes to provide services for hybrid cars such as designated parking bays with charging stations.

Sunway Pyramid's Support for Re-Tech

Electrical and electronic waste, or e-waste, is becoming a toxic legacy. Frequently, it ends up in landfill or is incinerated rather than being recycled in today's digital era. E-waste comprises broken, non-working, old or obsolete electronic appliances. Many people are unaware that the lack of proper e-recycling can lead to harmful toxins such as lead and mercury leaching into the environment.

Rukun Tetangga of SS14 and USJ13 collaborated with KITAReward by initiating collection points for e-waste recycling for residents. Accepted items include unused TVs, radios, mobile phones, refrigerators, washing machines, laptops, keyboards, monitors, mice, CPUs, modems, printers, tablets, mini servers, CD drives and other electrical items.

Sunway Malls was the Re-Tech campaign corporate partner. The campaign also received a grant of RM5,000 from the Selangor State Government Environment and Green Technology Small Grants programme.

More than two tonnes of recyclable e-waste were collected from 86 households on the first day. Residents were rewarded with cash vouchers for use in various shops in Sunway Pyramid for supporting the initiative.

Specific points were granted depending on the item. We are confident that proper collection points and a reward system will encourage residents to send their e-waste for recycling and reduce indiscriminate dumping.

Ticketless Sunway Malls

Sunway Malls continue to encourage shoppers to become ticketless by using Touch 'n Go and Sunway Pals. Ticketless lanes were introduced during the year and we are piloting License Plate Recognition Technology for season pass holders. Hopefully, we can eliminate the use of season pass cards in the future.

Sunway PALS Go Green

Sunway Pals Loyalty programme rewards its 700,000 members with discounts, points, rebates and other privileges at over 1,000 participating merchants in Sunway Malls, Sunway Theme Parks, Sunway Education, Sunway Medical, Sunway Property and other selected businesses online.

Recently, Sunway Pals began distributing non-woven bags to members to promote reusability and reduce the use of plastic bags. Eco-themed campaigns such as 'Nature's Crown Jewel' and 'Life in the World' were held to raise awareness of nature appreciation.

Recently, Sunway Pals has gone digital with the introduction of the Sunway Pals app. This movement is part of our environmental initiatives to minimise wastage and eliminate plastic use.

Protecting Wildlife and Habitats

Sunway Lagoon organised a World Animal Day-Wildlife Park with Sunway International School in conjunction with World Animal Day 2018. The programme, which was held at the Wildlife Park from 4 to 7 October 2018, was officiated by the High Commissioner of Canada — Her Excellency Julia Bentley.

Programme Activities

- Building a vertical garden from recycled materials
- Launching posters and videos that promote sustainability
- Edutainment activities and engagement such as a mini exhibition and display by the Department of Wildlife and National Parks (Perhilitan)
- Activities for children including Kids Craft Workshop, WAD – a – Quest (Scavenger Hunt) and Save the Earth Pledge



Sunway Lagoon also collaborated with Monash University to host an educational visit to the Wildlife Park on 10 December 2018. 120 undergraduate students from the School of Engineering and IT, School of Science and School of Business received an intriguing insight into conservation efforts being practised at the zoo. Volunteering at our Wildlife Park is one of the programme requirements of Monash's zoology course.

Sunway Lagoon Theme Park's Wildlife Team welcomes higher learning institutions to carry out various research programmes on wildlife and species conservation. Recently, we supported Sunway's education team in studying the Malaysian Sun Bear through DNA collected from its hair.

GREEN BANJARAN

The Banjaran Hot Springs Retreat operates eco-consciously and does not disturb nature during daily activities. We continue to meet the 'green' needs of stakeholders and inspire them to cooperate with us in creating a better world. Examples of sustainable practices at this rejuvenation heaven are summarised in the table below.

THE BANJARAN HOTSPRINGS RETREAT WAS OFFICIALLY CERTIFIED BY GREEN GLOBE IN THE HOTEL & RESORT CATEGORY. THIS CERTIFICATION IS ANOTHER MILESTONE IN BANJARAN'S COMMITMENT TO EXCELLENCE IN SUSTAINABILITY, PARTICULARLY ITS COMMITMENT TO THE UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS.

Examples of Green Initiatives by Banjaran Hot Springs Retreat

Stakeholder	Sustainability Practice
Customers and guests	<ul style="list-style-type: none"> • Preferring electronic communication • Establishing a paperless check-in and check-out policy • Introducing a towel reuse policy • Cleaning guests' linen only on request • Encouraging guests to use public transport and bikes • Only offering an ala carte menu and no buffet to reduce food waste
Employees	<ul style="list-style-type: none"> • Periodically training employees on sustainable goals • Encouraging employees to devise improvement ideas • Providing transport for employees to minimise carbon emissions
Suppliers and Contractors	<ul style="list-style-type: none"> • Actively seeking responsible suppliers • Mandatory adherence to our responsible purchasing charter • Setting environmental impact as a key criterion in tenders such as container materials, sources of raw materials, organic products, eco-certification and/or low energy consumption and recyclable packaging
Operations	<ul style="list-style-type: none"> • Introducing electric buggies as a mode of transport for guests • Using geothermal hot springs water for private villa hot tubs, Geothermal Hot Springs Dipping Pools, Garra Rufa Doctor Fish Pool, swimming pool and manual irrigation of the landscape • Using recycled wood, deadwood and driftwood as decorative items • Harvesting local vegetation and fruit trees for the freshest servings of healthy delights • Using locally-made natural skincare range in spas that are free from artificial perfume, colouring, preservatives or harmful chemicals • Printing on eco-labelled and recycled paper • Reducing the use of chemicals by using eco-certified paper and other environmentally-friendly products, biodegradable cleaning products with an eco-label, dilution control system for cleaning products and paints without harmful chemicals



*#Sunwayforgood
for our Society*



#Sunwayforgood for Our Society

As a responsible conglomerate and contributing corporate member of society, Sunway strives to have a real and meaningful impact on society and the lives and well-being of people. We continue to contribute to the development of strong and sustainable economies through direct and indirect societal development programmes.

#Sunwayforgood is intertwined with Sunway's core values of Integrity, Humility and Excellence. It encapsulates our sustainability and social responsibility efforts as we strive to create a positive and far-reaching impact on the nation and mankind. We actively engage with stakeholders and the communities we serve through initiatives that advance economic, environmental and social progress. This approach helps deliver sustainable growth for thriving communities.

#Sunwayforgood is also our pledge that Sunway will continue to do good, and stand alongside Malaysians, for good.

Sunway champions sustainability through three key focus areas — Education, Healthcare and Community Enrichment projects.

Business with a Heart

Sunway Berhad received the Best CR Initiatives award for companies with a market capitalisation below RM10 billion at The Edge Billion Ringgit Club (BRC) 2018 award ceremony for the second time.

SUNWAY SUSTAINABILITY GIVING FOCUS AREAS



OUR PROLIFERATING BENEFICIARIES - #SUNWAYFORGOOD PEOPLE RECEIVING AID



CHAMPIONING EDUCATION

Jeffrey Cheah Foundation

The Jeffrey Cheah Foundation (JCF) is a unique, first-of-its-kind structure in Malaysia and within the field of private academic institutions and entities. It is governed by a distinguished board of ten trustees under the royal patronage of HRH the Sultan of Selangor.

The Foundation has awarded in excess of RM402 million worth of scholarships to more than 39,000 deserving students to date. These scholarships provide opportunities that meet the academic and special talent requirements of students attending Sunway University, Sunway College, Monash University Malaysia as well as other top-ranked local and international universities.

JCF also provided Community Scholarships, which have benefited 202 deserving students since its introduction in 2002.

In 2018, JCF disbursed RM72 million worth of scholarships to more than 3,000 students. This is the highest scholarship disbursement amount since its inception in 2011.

Value Creation Through JCF Programmes

Programmes/ Initiatives	Details	Impact/Results
JCF Benefit Concert	An Evening of Jazz was held on 25 November 2018 at Sunway Resort Hotel & Spa in aid of the Palu Relief Fund. The event supported MERCY Malaysia in helping those affected by the recent earthquake in Palu, Indonesia.	A total collection of RM200,000 was taken from the concert.
Scholars-in-Residence programme	A Memorandum of Agreement was signed on 10 September 2018 at Sunway Resort Hotel & Spa.	The Scholars-in-Residence programme was established to allow the Sunway University faculty to be trained at the University of Cambridge for four weeks, in perpetuity.
Oxford-Jeffrey Cheah Graduate Scholarship	Ms Vivien Ho Wei Wen, 20 years-old was the first recipient to receive the award, for pursuing a Doctor of Philosophy at Oxford University, on 23 August 2018 at Sunway University.	Provides opportunities for Malaysian youths to further their studies at the University of Oxford.

Events and Programmes in 2018

Programmes/ Initiatives	Details and impact created
TFM Week 2018	<p>TFM Week 2018 was held at two schools: SMK Puchong Perdana on 14 August 2018 and SMK Kepong on 15 August 2018.</p> <p>The event allows corporate figures and personalities to be empowered to co-teach alongside the TFM Fellows in the classrooms. It is to inspire future leaders in schools and raise the students' aspirations to reach for limitless success irrespective of their circumstances in life. The TFM week also allows the corporate figures to experience and increase their understanding Teach for Malaysia's work and the impact they seek to bring to Malaysian classrooms.</p>
TFM Conference 2018	<p>TFM Conference 2018 was held on 21 July 2018 at Sunway International School. The conference participants included TFM Fellows, Alumni and TFM's public-private stakeholders.</p> <p>The conference was a successful platform for participants to share knowledge, expertise and experience to enhance the quality of education in Malaysian schools.</p>
Teach For Malaysia	<p>TFM 2019 Cohort Welcoming Event was held on 29 September 2018 at Sunway University Graduate Centre. Parents and potential TFM fellow were briefed on the programme so that they could be confident and have a better understanding of TFM's student support throughout the programme.</p>
Closing the Gap	<p>A Residential Camp was held from 9 to 12 June 2018 at Sunway University for 31 high school students from underprivileged backgrounds. The camp was organised to help bright underrepresented students enter quality universities by empowering them with the knowledge and skills to achieve their fullest potential.</p>
Special Education Conference 2018	<p>Sunway Group and JCF have supported G.O.L.D (Generating Opportunities for Learning Disabled) since 2006. This non-governmental organisation helps students with special needs reach their potential and become contributing members of society.</p> <p>This inaugural event will be held annually for parties to maintain a strong collaborative partnership. The conference, which was held at Sunway University on 12 October 2018, was attended by 200 teachers, parents, academicians, government officers, NGOs and media representatives.</p> <p>The conference aims to help stakeholders network in an environment conducive for education, sharing and networking. The smart partnership model was shared to provide a seamless learning experience to children and adults with special needs.</p>

Smiling with Help Back to School

Sunway recognises the importance of bridging the gap in education inequity. We brought smiles to students of SK and SMK Bandar Sunway with special 'back-to-school' packages. Each package contained a school bag, a water bottle, a food container and two school uniforms worth RM600,000.

In a recent survey conducted by Sunway, more than half of the families who sent their children to SK and SMK Bandar Sunway fall under the B40 classification. With a median income of RM 3,000, 63% of families have a monthly household income of less than RM 2,000.

The Back-to-school programme supports Sunway's commitment to the United Nations Sustainable Development Goal 4. This goal calls for equal access to education by 2030 including children in vulnerable situations.

In 2018, The Back-to-school programme extended beyond Klang Valley to Ipoh, Penang and Johor and catered to a total of 4,000 students.

Sunway Oxbridge Essay Competition 2018

The Sunway Oxbridge Essay Competition was held for the fifth year in 2018. It is part of Sunway Group's CSR efforts to improve English proficiency among Malaysian students.

The competition is jointly organised by Sunway Group, The Oxford and Cambridge Society Malaysia, Jeffrey Cheah Foundation, Sunway University and Monash University Malaysia. Over 13,700 entries have been received from across Malaysia over the past five years. The programme has benefited 3,373 students in total.

It is the longest running essay competition in Malaysia and only competition to offer higher education bursaries. The Sunway-Oxbridge Essay Competition 2018 invited secondary school students to submit original essays in English on Transformasi Nasional 2050 (TN50), the nation's next development vision after Vision 2020.

Participants were competing for Sunway Bursaries worth over RM200,000, RM28,000 in cash prizes and 260,000 Sunway PALS points. The school with the most submissions also won a special prize.

The competition addressed the dire need for improving English proficiency and developed the required skills outlined in the World Economic Forum's Future of Jobs

report. The essay competition promoted the use of five of the 10 most relevant skills for the future: judgement and decision-making, complex problem solving, critical thinking, creativity and emotional intelligence.

STEM Education

In 2018, Sunway collaborated with Science Bridge Academy to curate, develop and deliver several Education for Sustainable Development (ESD) programmes to two adopted Sunway schools, namely SMK Bandar Sunway and SK Bandar Sunway.

A series of workshops related to environmental awareness and sustainable practices were conducted at both schools throughout the month of July and August 2018. An additional workshop on Energy Consumption was conducted for SMK Bandar Sunway after it emerged that the school was implementing some initiatives to reduce the usage of electricity. Each workshop had specific learning outcomes which were covered through a combination of lectures/talks, and hands-on activities.

For the Composting workshop, a speaker from the Centre for Environment, Technology and Development Malaysia (CETDEM), Ms Tan Siew Luang, was invited to give a talk and demonstrate the correct way to do composting to the students and teachers of SMK Bandar Sunway. In the 2 hour workshop, Ms Tan spoke about the "zero waste" principle as well as how kitchen waste could be turned into good quality compost.

A workshop on recycling was also conducted and a Terrarium workshop was conducted as a continuation of the theme on recycling and environmental protection/awareness. In this workshop, students were taught how to re-purpose used mineral water bottles to turn them into terrariums. The students from SK Bandar Sunway worked in groups of 3 or 4 to make their terrariums, while the secondary school students of SMK Bandar Sunway worked on their own. For SMK Bandar Sunway, the terrariums were exhibited in the school garden and were also submitted as part of the "Sekolah Tunas Hijau" competition.

A workshop on renewable energy was also conducted and the main objective of this workshop was to increase students' awareness of renewable energy and how it may be harnessed in real life. Most of the students from both the primary and secondary schools were aware of renewable energy and understood what it meant, but all of them have not had the opportunity to witness how

renewable energy is applied. The workshop consisted of two parts: a talk on renewable energy, as well as making a solar car which came in the form of a kit. Each student received a kit and was able to take their solar cars home after the workshop.

SMK Bandar Sunway had participated in the “Sekolah Tunas Hijau” competition organised by the Selangor State Education Department, where they competed with 35 other schools in the Klang Valley to see which school was the most environmentally-friendly school. All of the workshop products were submitted as part of this competition e.g. the composting, terrariums, soap and solar car kits including other initiatives by the students themselves. SMK Bandar Sunway placed in the top 5 amongst all competing schools.

Celebrating Sunway Group’s Job Training Programme

Sunway Group and the Jeffrey Cheah Foundation have partnered with Generating Opportunities for Learning Disabled (GOLD) for the Sunway Job Training Programme for Special Students since 2006. GOLD is a non-profit organisation that promotes economic empowerment for those with learning disabilities ranging from Down Syndrome to Autism.

The programme has been highly successful with 90% of 140 graduates securing jobs after graduation. This attests to the efficacy of an industry-focused training programme. Hopefully, more self-sustaining graduates will be produced who can contribute to our nation’s socio-economic advancement.

On 12 October 2018, JCF and GOLD with the endorsement from the Ministry of Education hosted Malaysia’s first Special Education Conference (SEC) in Sunway University. Key thought leaders from the United Kingdom, Australia and Malaysia shared their knowledge and ideas for the development of a supportive education system at this two-day event.

The contributions of students with special needs to the nation were celebrated at the event. Nineteen students received their graduation scrolls at the Sunway Job Training Graduation Ceremony. These candidates had completed the Job Training Programme at selected Sunway business units including Sunway Lagoon, Sunway Medical Centre, Sunway Pyramid, Sunway University and Sunway Resort Hotel & Spa.

HEALTHCARE

Harvard SEAL Programmes

Harvard Medical School (HMS) SEAL, which stands for Southeast Asia Healthcare Leadership programme, was inaugurated with the tripartite collaboration of Sunway Medical Centre, Harvard Medical School and Sunway University. The programme helps healthcare leaders and frontline clinicians from the Asia Pacific region provide the safest, most appropriate and highest quality standards of care as the current healthcare ecosystem increases connectivity.

Sunway University and Sunway Medical Centre have jointly committed RMI million in scholarships to some of the 100-intake of qualified healthcare professionals each year. In March 2018, 40 students benefited and graduated from the programme.

World’s First Cambridge-Linked Clinical Research Centre in Malaysia

Sunway Medical Centre established the Sunway Clinical Research Centre as the regional site partner of the University of Cambridge School of Clinical Medicine at the end of 2017.

The centre facilitates the collaboration of researchers from Cambridge University, Sunway University and Monash University.

Research projects focus mainly on prevention, earlier diagnoses and improved treatments suited for the Asian genetic composition for various diseases.

1st Cambridge-Royal Papworth-Sunway Heart and Lung Symposium

Sunway Medical Centre held the first Cambridge-Royal Papworth-Sunway Heart and Lung Symposium on 12 November 2018. The three-day symposium was part of a Sunway Medical Centre and Royal Papworth Hospital collaboration to develop clinical services at Sunway Medical Centre through training and research. The event was launched by YB Dr Lee Boon Chye, Deputy Minister, Ministry of Health Malaysia.

As heart disease has been the leading cause of death among Malaysians for 10 years, the symposium’s theme covered cardiac and vascular health. The event targeted doctors practising and with an interest in cardiology, cardiothoracic surgery, respiratory medicine, internal medicine and oncology. Specialists from Royal Papworth

Hospital and Sunway discussed aspects of cardiology, vascular surgery, cardiothoracic surgery, respiratory medicine and genetic pathology.

The collaboration aims to further develop clinical services in aforementioned areas. It also includes educating and training our health professionals as well as research and trials.

Several special collaborative projects are underway in the area of heart disease, sudden cardiac death, sleep medicine and lung cancer that would greatly benefit Sunway Medical Centre patients. Royal Papworth Hospital is a world-leading heart and lung hospital that performed the world's first heart, lung and liver transplant in 1986. Their doctors are some of the greatest pioneers of heart and vascular medicine.

Sunway Medical Centre has also equipped its Heart and Vascular Centre with cutting-edge technology. The collaboration will help ensure these standards are maintained. The centre will offer a spectrum of heart and vascular medical services for both adults and children including 24-hour emergency services, screening, scanning machines (CT, MRI, SPECT/CT), genetic testing, angiograms as well as balloon, stenting and heart bypass procedures.

Sunway Medical has also acquired the Philips Azurion 7 biplane for its Heart and Vascular centre. This new image guided therapy system is designed to undertake complex interventional procedures in the diagnosis and treatment of blocked heart blood vessels in both adults and children. It is the first of its kind in Southeast Asia. The hospital is equipped with 12 major operating theatres for complex surgeries and a one-stop rehabilitation centre.

360 Degree Approach to Healthcare

Sunway Medical Centre, as Malaysia's premier medical institution, has taken a 360 degree approach to healthcare. High standards of healthcare and advanced medical education are delivered along with state-of-the-art technology in holistic patient care within a seamless medical system.

Sunway Medical Centre educates members of the public on various medical related issues including diagnoses, symptoms, prevention and the cure of illnesses by supporting various community events in 2018.

A free counselling service on ways to quit smoking during the Majlis Penutup Anugerah Sekolah Sejahtera MPSJ 2017 and Majlis Pelancaran Anugerah Sekolah Sejahtera MPSJ 2018.

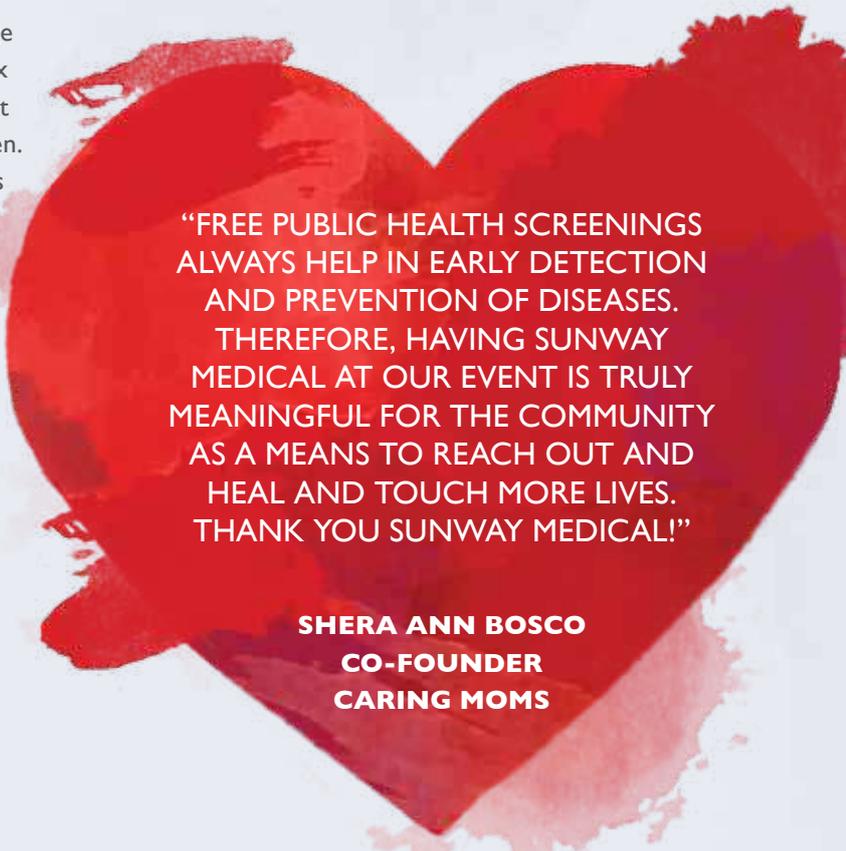
Free health screening for all visitors of the Eurasia Golf Tournament and ambulance service for the golf players.

Cancer support group for head and neck cancer patients.

Free health check at CARING MOMS' Entrepreneurs Bazaar at Sunway Geo, an event to support 'mompreneurs'.

Public forums, health talks and health screens especially during International Health Awareness Days such as International Women's Day.

Collaborations with other organisations and NGOs to raise awareness of good health including Hepatitis Free Malaysia (HFM), Sin Chew, CARING MOMS, Roche, Cantonese Association and BFM Radio.

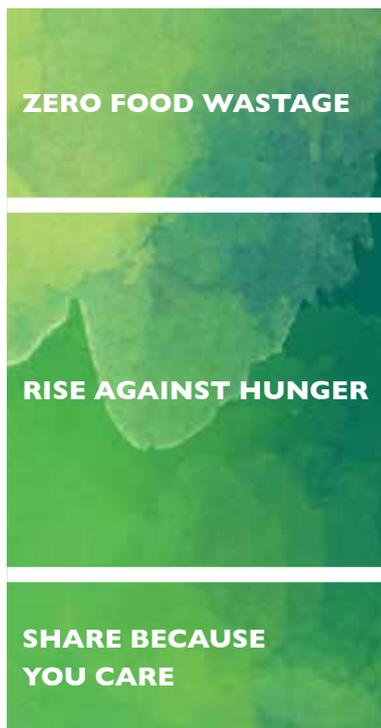


“FREE PUBLIC HEALTH SCREENINGS ALWAYS HELP IN EARLY DETECTION AND PREVENTION OF DISEASES. THEREFORE, HAVING SUNWAY MEDICAL AT OUR EVENT IS TRULY MEANINGFUL FOR THE COMMUNITY AS A MEANS TO REACH OUT AND HEAL AND TOUCH MORE LIVES. THANK YOU SUNWAY MEDICAL!”

**SHERA ANN BOSCO
CO-FOUNDER
CARING MOMS**

COMMUNITY ENRICHMENT

Sunway Food Programme



- Excess food from our hotel buffet lines is collected, packed and distributed
- Collaboration with Kechara Soup Kitchen Society.
- 5,124.8 kg of food was collected, packed and distributed to more than 20,500 individuals in 2018.
- Packing and distributing nutritious dry food for underprivileged community members such as urban poor families, refugees and aborigines.
- Price of one packaged meal is RMI and each package can serve six people or six meals for a single person.
- More than 1 million meals packed since Sunway first partnered with Rise Against Hunger Malaysia in 2014.
- 1,680 Sunwayians packed 500,000 meals over five days at five locations across Malaysia to feed 10,000 individuals in 2018.
- Grocery collection drives among employees during Festive Cheer programmes
- Sunway distributed grocery items to beneficiaries during *Hari Raya*, Chinese New Year and Deepavali in 2018.

Zero Food Wastage

Sunway is committed to ending hunger and fostering a better future for the communities it builds and serves. This global movement to end hunger is especially important for protecting the most vulnerable communities such as the homeless and urban poor.

Our Hotels in Klang Valley and Penang partnered with the Kechara Soup Kitchen Society in May 2017 for the Zero Food Wastage project. Sunway's hotels donate surplus food from their buffets to feed the homeless and urban poor almost every day. Surplus food consists of cooked food that has been placed in the warmer but not served at the buffet line.

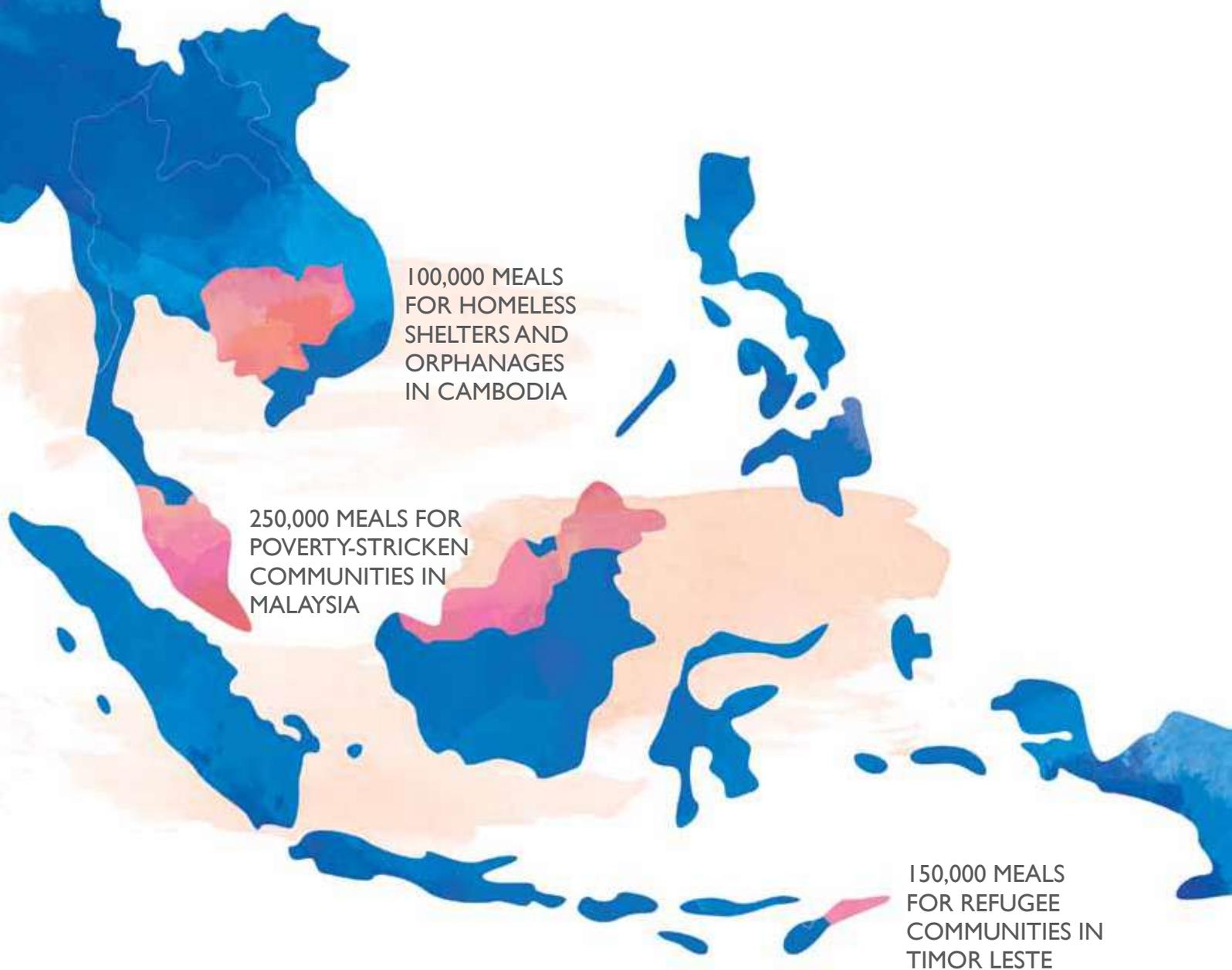
Redistributing surplus food alongside the Kechara Soup Kitchen Society allows us to give back to the community.

Rise Against Hunger

Sunwayians across Malaysia once again came together to support underprivileged fellow Malaysians through the Rise Against Hunger Meal Packing Programme.

This programme is Malaysia's largest corporate meal-packing effort to feed the hungry in Malaysia. To date Sunway employees have packed more than one million dehydrated meals over the past five years for underserved communities in Malaysia, Timor Leste and Cambodia. These highly-nutritious packed dehydrated meals, comprising rice, soy, vegetables and flavouring, contain 21 essential vitamins and minerals. Each package can serve six individuals and costs approximately RMI to make. These meals were distributed to welfare homes, refugee schools, *Orang Asli* communities and the urban poor.

In August 2018, 1,750 Sunway employees from Ipoh, Penang, the Klang Valley and Johor Baru volunteered to pack 500,000 meals for impoverished families in these three countries. The meals were packed at Sunway University and Sunway Medical Centre in the Klang Valley; Sunway International School in Johor; Sunway Lost World Hotel in Ipoh and Sunway Hotel Seberang Jaya in Penang. The packing took approximately 14,000 volunteer hours to complete.



Sunway enlisted the help of six non-governmental organisations to distribute the packed food to ensure the event's success, namely Rotary Centennial Club (Johor), Sahabat Orang Asli, Rotary Club KK South (Sabah), Rotary Club Kuching (Sarawak), Selesians Missions (Timor Leste) and One2One (Cambodia).

JCF Charity Concert Raised RM200,000 for Palu Disaster Victims

JCF hosted a charity concert to raise money for victims of the Palu earthquake which hit Sulawesi in Indonesia in September 2018. A total of RM200,000 raised for the victims was channelled directly to MERCY Malaysia through the Palu Relief Fund.

The charity concert was attended by approximately 400 guests including Deputy Yang di-Pertuan Agong Sultan Nazrin Shah and Raja Permaisuri of Perak Tuanku Zara Salim. Sultan of Selangor Sultan Sharafuddin Idris Shah and Tengku Permaisuri of Selangor Tengku Permaisuri Norashikin also graced the event with their presence.

The concert featured a performance by The Seasons 4, which incorporated a mix of classical jazz. A performance by Tan Sri Razman M Hashim, Deputy Chairman of Sunway Group was the highlight of the evening who sang with the Big Jazz Band and played Frank Sinatra's 'Fly Me To The Moon', 'I've Got You Under My Skin' and 'Autumn Leaves.'



Share Because You Care

Grocery collection drives among employees were held during Festive Cheer programmes. Sunway distributed groceries to beneficiaries during Chinese New Year, *Hari Raya* and Deepavali.

Raya Cheer 2018

- *Bubur Lambuk* distribution on 21 and 22 May 2018 at various mosques and *suraus* around Bandar Sunway, Cheras, Sentul, Seberang Jaya, Georgetown.
- 4,000 portions of *Bubur Lambuk* were prepared by our hotels' chefs and distributed by Sunway volunteers.
- Shopping and *Buka Puasa* with residents from eight orphanages within the Klang Valley.
- These orphans were treated to new *Baju Raya*, fun activities and a *Buka Puasa* feast at Sunway Resort Hotel & Spa.
- *Iftar Barakah*, in collaboration with Lembaga Zakat Selangor, helped *Asnaf* families with their groceries during the holy month of Ramadhan.
- 40 families from seven villages in Kuala Langat and Sepang benefited from this. As part of the programme, Sunway volunteers delivered groceries, food and *Buka Puasa* meals along with *Duit Raya* to these families. The distributions, which were held on 11 and 12 June 2018, benefited 4,466 individuals.
- Refurbishment works at Madrasah Tarbiyah Islamiyah to provide a better learning and living.

Chinese New Year Cheer 2018

- Shopping for groceries at Sunway Putra Mall for 150 urban poor and cancer-stricken families from around the Klang Valley on 6 February 2018.
- Each family received a festive cash voucher for RM200 and groceries voucher worth RM350.
- The groceries helped the families in preparing meals for a reunion dinner on the eve of Chinese New Year.

Deepavali Cheer 2018

- Reached out to the urban poor Indian families in Penang by inviting these families to a Deepavali luncheon at Sunway Hotel Seberang Jaya on 28 October 2018.
- 606 individuals from 140 urban families benefited from this event. Each family received RM200 festive cash and groceries worth RM400.

RMI Million Contribution to the Selangor Youth Community

Sunway contributed RMI million to the Selangor Youth Community (SAY) for the second consecutive year. This donation promotes youth development and inclusivity to ensure that marginalised and underprivileged groups are not excluded.

SAY is the brainchild of His Highness, The Raja Muda (Crown Prince) of Selangor, Tengku Amir Shah. Say emanated from his desire to see Selangor with a vibrant, energetic and engaged youth. A healthy lifestyle and concept of wellness is very much part of its ethos and complements the Sunway Group's vision.

Impact and Achievements



- 145,000 OUTREACH
- 565 COMMUNITY BENEFICIARIES
- 14 SPORTS AND HEALTH ACTIVITIES: 9 CYCLING AND 5 FOOTBALL
- ENTREPRENEURSHIP BOOST WITH A RM2.45 MILLION INCREASE IN REVENUE
- 8 ARTS AND CRAFTS EVENTS INVOLVING 200 LOCAL ARTISTS AND PERFORMERS

#Sunwayforgood
of Our People



#Sunwayforgood of Our People

Sunway strives for excellence in everything it does from delivering quality products to developing its most important asset — its people. Employees are equipped with the right skills to assume leadership roles while being mindful of work-life balance.

People are the bedrock of our continuous value creation. We will continue to lead with passion to boost our workforce of more than 10,000 and excel in all endeavours.

Sunway Receives Three of 12 Awards at Aon Best Employers Awards 2018

Sunway was the only conglomerate to score a hat-trick at the Aon Best Employers Awards in more than a decade. Our three subsidiaries, Sunway Building Materials Group, Sunway Hotel Georgetown, Penang and Sunway IT Shared Services, were named among Malaysia's top 12 employers.

PEOPLE OFTEN QUESTION ME ON WHAT WAS THE BIGGEST CHALLENGE THAT SUNWAY FACED AS A BUSINESS ENTERPRISE. MY ANSWER WAS SIMPLE: "WINNING THE WAR FOR TALENT."

ULTIMATELY, IT IS OUR PEOPLE WHO WILL MAKE A DIFFERENCE. WE ARE DETERMINED TO GROOM FROM WITHIN AND HIRE FROM OUTSIDE. SUNWAYIANS ARE NOT JUST CAPABLE AND COMPETENT, BUT ALSO ARE PASSIONATE ABOUT WHAT THEY DO AND COMMITTED TO WORKING HARD TO REALISE THEIR GOALS. ABOVE ALL, HOWEVER, WILL BE ONE SINGLE ATTRIBUTE THAT IS VALUED THE MOST IN SUNWAY: INTEGRITY. ALWAYS THINK AND ACT WITH INTEGRITY, AND YOU WILL TRAVEL FAR NOT ONLY IN YOUR PROFESSIONAL CAREER BUT ALSO IN YOUR PERSONAL LIFE.

TAN SRI DR JEFFREY CHEAH AO

FLEXIBLE AND FAMILY-FRIENDLY

Sunway continues to focus on initiatives that promote equal opportunities for men and women of all ages.

CARE FOR WORKING MOTHERS

Our premises offer designated car parks and escort assistance by the security office. Mother's rooms provide convenience to working mothers and other visitors. Mother's rooms are located at Menara Sunway, Sunway Malls, Sunway Medical Centre, Sunway University, Monash University and Sunway Hotels.

PRESCHOOL CENTRES

The R.E.A.L Kids preschool centre was established as a result of a strategic alliance between Sunway and R.E.A.L. Employees and parents working for Sunway enjoy fee discounts and have the convenience of picking-up their preschool children at a preschool centre in Sunway City.

CHILDCARE SUBSIDY

Sunway partially subsidises the tuition fees for R.E.A.L Kids Sunway and Parenthood if parents are employees. This subsidy is available for up to two children per family for a maximum of RM200 per month per child. Child care subsidies of up to RM2,400 are tax exempt.

EXTENDED MATERNITY LEAVE

Sunway is one of the many progressive companies that allows female employees to opt for an extended 30 consecutive days of unpaid maternity leave following the confinement period after the birth of a child, up to five surviving children. This is in addition to the statutory 60 days and both are inclusive of rest days and public holidays.

PATERNITY LEAVE

Sunway recognises that male employees also appreciate parental bonding with their newborn babies. Three days of paternity leave are offered to new fathers to allow them to bond with their children and support their partners.

PARENTAL SUPPORT

The E-Medical Card replaced the physical medical card for all employees and their dependents in July 2018 so that unused cards need not be disposed of.



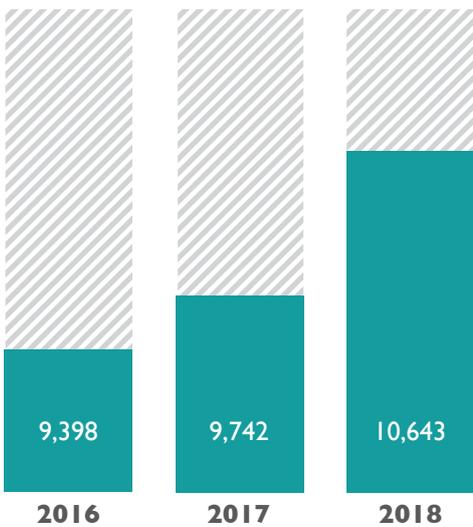
INCLUSIVE CULTURE. DIVERSE TALENT. INSPIRED INNOVATION

Diversity and inclusion are integral to Sunway’s core values. We are committed to providing an inclusive environment in which all employees can thrive.

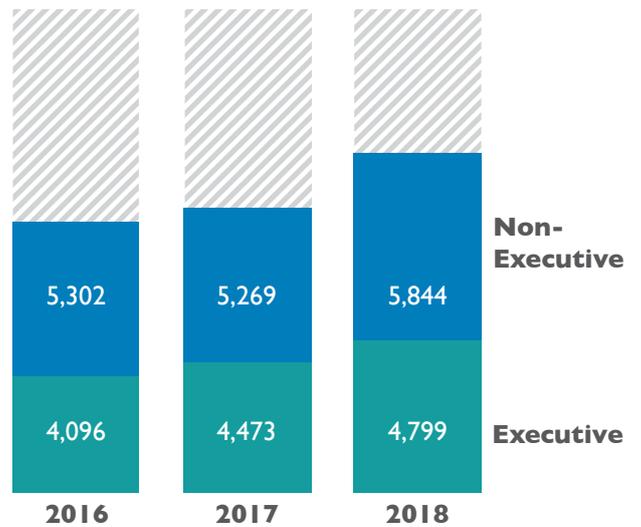
We are passionate about the individuals who make up our company. All leaders and colleagues are responsible for maintaining an environment where employees can reach their full potential. Valuing diversity and inclusion is key to this mindset.

A truly collaborative working environment is essential for our continued growth as a diversified conglomerate with a multitude of businesses.

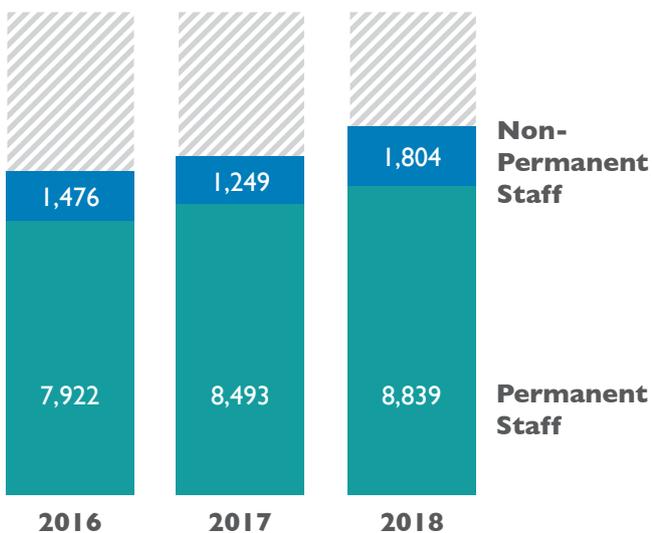
Workforce Growth



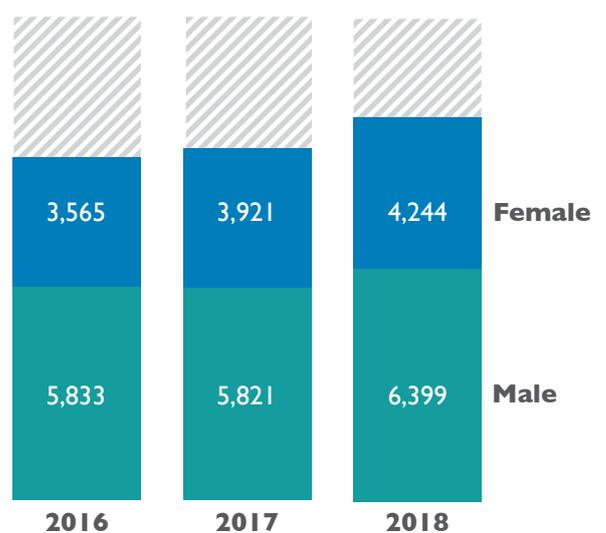
Workforce Breakdown by Category



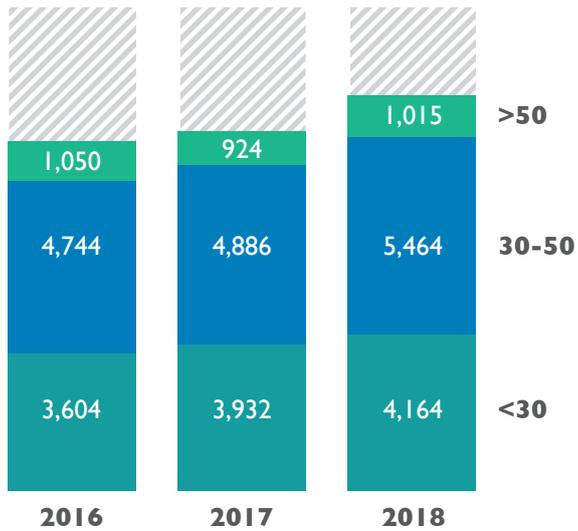
Workforce Breakdown by Type



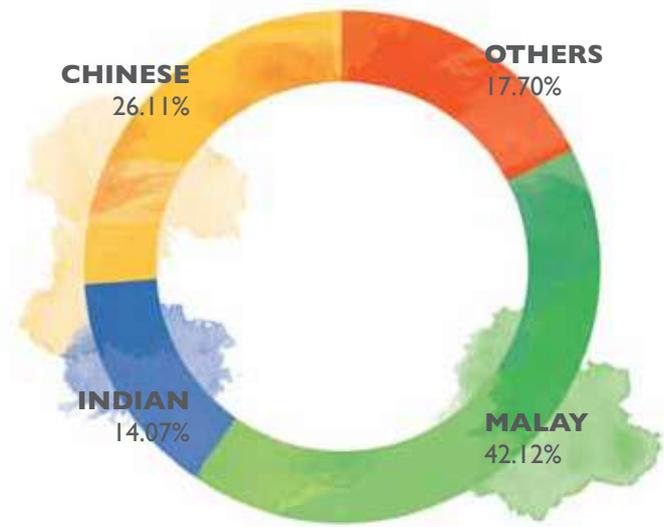
Workforce Breakdown by Gender



Workforce Breakdown by Age Group

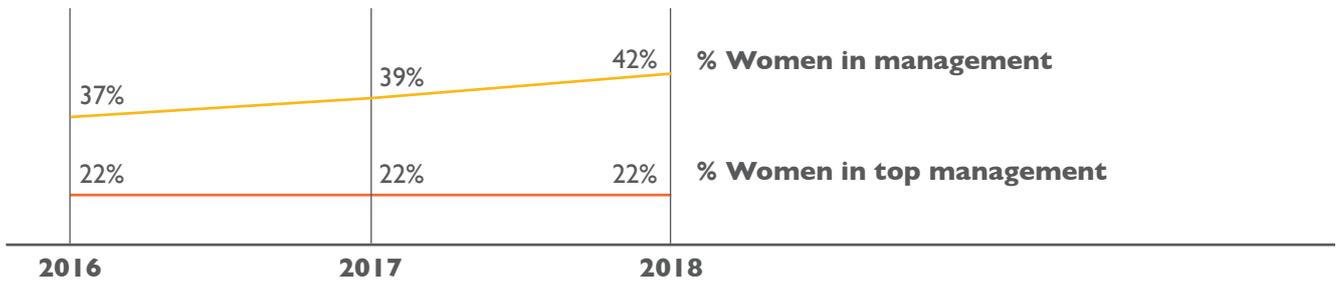


Workforce Breakdown by Ethnicity



Maintaining a positive, dynamic working environment with competitive compensation and career options is key to retaining employees.

Women in Management



Employee Turnover	2016	2017	2018
BY GENDER			
Male	847	905	1,011
Female	748	825	939
BY AGE GROUP			
<30	845	998	1,146
30-50	656	657	708
>50	94	75	96

MEASURING EMPLOYEE ENGAGEMENT LEVELS

Employee engagement is measured by assessing three fundamental pillars of individual behaviour:

Say

Speak positively about the organisation to coworkers, potential employees and customers

Stay

Have an intense sense of belonging and desire to be part of the organisation

Strive

Are motivated and exert effort toward success in their job and for the company

2012 - 2015

Piling Foundations

2015 - 2017

Building Culture

2017 - 2019

Creating Impact

Sunway Group has reached the third stage of its engagement roadmap, which focuses on creating impact.

Aon is appointed to gather feedback from employees each year. Our engagement model does not merely measure employees' engagement with each of these drivers. Areas for improvement are also identified based on their potential impact on engagement and business performance. Sunway's overall employee engagement score increased progressively.

ENSURING EMPLOYEES' WELLBEING

We are committed to building a culture, workplace and environment that is engaged and healthy. Employee engagement and wellbeing are critical to attracting, developing and retaining our workforce. We invest in programmes that enhance employees' health and wellbeing. These programmes are designed to provide positive outcomes for our employees and improve the delivery of our business strategy.

Sunway Jom Kurus

The Jom Kurus programme is a three-month weight management programme that encourages employees to monitor their calorie intake and get adequate physical exercise. Health talks on calorie counting, types of food to consume and avoid, and recommended exercise were delivered to the participants. Employees were asked to have their blood glucose levels tested and were invited to weekly jogging sessions at Sunway Lagoon.

Employee Routine Health Screening Results

47% are obese or overweight

21% have elevated glucose levels

58% have elevated cholesterol levels



SunMed Residence for Improved Employees Wellbeing

SunMed Residence consists of 70 fully-furnished units with 180 parking lots for our growing Sunway Medical community. This carefully-planned residence houses 600 of Sunway Medical Centre's employees and students. Residents embrace community living and they can learn, relax and play in a safe, clean, healthy and connected environment. Sunway Medical Centre employees, sponsored students and nurses reside here and the first occupants moved in March 2018.

KELAB SOSIAL SUNWAY (KSS)

KSS supports both the Group's sustainability agenda and independent activities. Peninsular Malaysia employees from the Central Region, Ipoh, Penang and Johor Bahru take part in KSS's various sports and recreational activities. Fitness, disaster relief, donations and sustainability initiatives are also conducted.

- Supports the Group's CSR activities
- Strengthens the relations of Sunway Business Units
- Fosters family ties and creates camaraderie between Sunway employees

The various KSS activities strengthen the relations between employees of Sunway business units and creates camaraderie between Sunway employees.

Project	Details
Training For Warriors (TFW)	<p>Training For Warriors (TFW) is a US-based physical and mental development programme adapted from the fitness regimes of some of the world's best combat athletes and mixed martial arts fighters. It is a safe introductory Fitness Foundation Programme with three classes per week in a group setting trained by TFW Certified Coaches. This training is suitable for men and women.</p> <p>Sunway employees are encouraged to take part with each receiving a subsidy of RM80 that is reimbursed upon completion of at least six of eight classes. A total of 34 employees benefited from this subsidy in 2018.</p>
Artery Charity Fun Run 2018	<p>RM10 cash rebates were given to all members who registered for the Artery Charity Fun Run organised by The National Heart Institute (IJN). Two hundred and eighty KSS members took part in this run on 4 February 2018.</p>

Project	Details
HOSPIS Annual Charity Treasure Hunt 2018 - Special rebate for KSS Members	RM120 cash rebates were given to KSS members who registered for the HOSPIS Annual Charity Treasure Hunt 2018. A total of 24 KSS members participated in this event.
MS Walk	RM20 cash rebates were given to 250 KSS members who registered for the MS Walk, which was held on 6 May 2018.
Sunway Badminton Championship	A total of 60 KSS members took part in the championship which was held on 28 & 29 April 2018
Blood donation drive in collaboration with SPFM	One hundred 450ml bags of blood were collected from 135 donors who took part in the blood donation drive, organised by Pusat Darah Negara.
KSS Lunch talk	KSS hosted various health talks over lunch in 2018. Presented topics included heart attacks as well as cancer of the lungs, brain, breast and prostate.
Sunway Sports Carnival	A Sports Carnival was held from April to November 2018 for all Sunwayians. Activities included carom, chess, darts, congkak, table tennis, netball, sepak takraw, dodgeball, snooker, pool, volleyball, futsal, bowling and badminton.
Sunway Family Day	The Sunway Family Day was held on 7 October 2018 for employees in the Central Region and on 14 October 2018 in the Northern Region.

CAREER DEVELOPMENT

Consistent and ongoing education is critical to maintaining a competitive, skilled, productive and motivated workforce. In 2018, 100% of Sunway employees received performance and career development reviews conducted by our People Department. Each was given an opportunity to maximise their potential by attending training sessions that complemented and extended their existing skills and responsibilities.

Sunway is committed to continuous learning and development. In 2018, the Group launched the pilot phase of the Excellence in Career and Leadership (ExCel@Sunway) to support Sunwayians in their leadership and career development. This platform identifies growth areas in leadership, facilitates more frequent and meaningful career conversations with leaders and delivers more personalised learning opportunities and a focused development journey.

ExCel@Sunway is open to all highly-motivated Sunwayians who are interested in charting their career paths and improving their leadership development. Growth areas are identified through a Leadership Development Centre with a concerted effort from Sunway leaders across the Group to ensure consistency in standards and expectations.

Training	Unit	2016	2017	2018
Average training budget per employee	RM	774	790	673
Average number of hours of training per year per employee by employee category (EG levels)	Hours	24	17	20.5
Total investment in training	RM	5,031,747	5,657,153	6,725,743

Major Training Programmes Held in 2018

SCOPE – SUNWAY CORPORATE ORIENTATION PROGRAMME FOR EMPLOYEES

A half-day training programme, delivered to new hires, introduced the Group's vision, mission and core values, members of Sunway's executive committee, senior management and various business units within the Group.

FIRST TIME MANAGERS

A one-day programme, for new managers or future managers, introduced the mindset, core conversations and communication skills expected of a manager. It also served as a platform for them to bond with their team members.

SITUATIONAL LEADERSHIP

A two-day programme teaches managers and senior managers to understand people's needs and an appropriate leadership style to meet those needs.

PERSONAL EFFECTIVE PASS

Sunway provides an e-learning module offering ultimate flexibility. Topics include 7 Habits of Highly Effective People, 5 Choices to Extraordinary Productivity, Project Management Essential and Writing Advantage.

DESIGN SPRINT

A two-day programme, which follows a rapid and structured step-by-step method, takes a team to form a formulated challenge by building solutions through prototyping. Hopefully, we can train our people to creatively develop solutions that address business challenges.



Speaker Series

Sunway organised several speaker series talks that allowed our people to be inspired by successful leaders from within the Group. This knowledge-sharing platform also instils the Group's core values and beliefs in each employee to ensure our workforce acts as One Sunway.



Leader Speaker Series

Leaders share their success stories that motivate employees to achieve their goals by developing critical, analytical and managerial skills

Business Bytes Series

Sunway's Business Model is shared to build business acumen and strategic thinking skills

Centre for Asia Leadership

This leadership programme from Harvard University equips participants with leadership skills required for the 21st century

VALUING OUR EMPLOYEES

Recognition is the key to employee loyalty. Top global talent is attracted and retained with competitive compensation. Our compensation and benefits exceed or are in accordance with local laws.

Sunway's salary structure is reviewed annually in line with general industry practice. Periodic benchmarking checks that our salaries and total remunerations are competitive.

Business units may offer industry-specific benefits. However, all employees receive a comprehensive and competitive benefits package that is relevant to their particular markets.

Examples of Discounts for Sunway Staff

- Theme parks
- Shopping malls
- Hotel room rates
- Property purchases
- Healthcare benefits

Our Total Reward Statements communicate the overall value of each individual employee's financial rewards such as base pay, incentives and employee benefits. Employees have also enjoyed the benefits of the Employees' Share Option Scheme (ESOS). The ESOS structure promotes a culture of reward based on merit. The vesting amount depends on the performance of the respective employees with higher performing staff vesting a higher proportion of options.

Long Service Awards

Sunway Long Service Awards reinforce best behaviours, highlight achievements and appreciate employees for their efforts and dedication.

Recipients of Sunway Long Service Awards

Awards	2016	2017	2018
10 YEARS AWARD • Gold Pendant worth RM 1,000	211	255	256
20 YEARS AWARD • Gold coins or Gold Necklace & Gold Bracelet worth RM 10,000	80	105	38
30 YEARS AWARD • Gold coins or Gold Necklace & Gold Bracelet worth RM 20,000	4	3	9

EMPLOYEES' RIGHTS TO SPEAK

Sometimes employees may feel aggrieved by the actions of one of the Group's companies or its officers. Aggrieved employees may seek redress orally or by writing to their superiors.

Employees are encouraged to report grievances to their immediate superiors, stating the nature of the complaint. If employees fail to receive a satisfactory response from their immediate superiors within three working days, they may escalate the matter in writing to the Head of Department, PCM, GHR or the Industrial Relations Office for resolution and arbitration. However, employees must follow a set of procedures and a timeline when making complaints.

SAFE AND HEALTHY WORKPLACE

The safety of our people is of paramount importance. In 2018, we continued to inculcate a culture of health and safety excellence within Sunway. Driven by strong leadership, our people are committed to putting the safety of themselves and others first.

Building a strong safety culture takes time; we continue to make progress with our people at every level. We also understand what it means to take responsibility for our own and others' safety. This trend should continue to mature over the coming years.





SUNWAY BUILDING MATERIALS WAS AWARDED A SYSTEMATIC OCCUPATIONAL HEALTH ENHANCEMENT LEVEL PROGRAMME (SOHELP) CERTIFICATE FROM JKKP. THIS CERTIFICATE RECOGNISES OUR SINGLEMINDEDNESS IN ADOPTING GOOD SAFETY PRACTICES IN OUR FACILITIES.

Safety and Health Governance

Sunway's Occupational Safety and Health Council comprises representatives from each business division of Sunway Group. The council meets quarterly to discuss the Group's safety performance, issues, challenges and accident avoidance measures. The commitment resulting from each meeting is shared across all business units and sites.

Roles of Occupational Safety and Health Council

- Ensuring compliance with all Safety, Health and Environment (SHE) Acts and Regulations, Standards, Codes of Practice and Guidelines
- Developing Group strategy whenever there are changes in SHE legislation
- Suggesting measures to be taken in the interests of the safety and health of all stakeholders
- Ensuring SHE best practices are being implemented and monitored
- Collecting, analysing and maintaining Group statistical analysis of occupation-related injuries
- Achieving synergy in the Group's SHE resource management

Accident and Incident Reporting Process

OSH PERSONNEL INVESTIGATE THE INCIDENT TO IDENTIFY ITS ROOT CAUSE WITH HELP FROM SAFETY COMMITTEE MEMBERS

AN ACCIDENT REPORT IS SENT TO RELATED DIVISION HEADS FOR THEIR REVIEW AND FURTHER ACTION

MONTHLY ACCIDENT STATISTICS ARE PREPARED

YEARLY ACCIDENT STATISTICS ARE SUBMITTED TO DOSH

CONTINUED COMPLIANCE WITH THE OCCUPATIONAL SAFETY & HEALTH ACT 1994 IS ENSURED

Sunway Group Occupational Safety and Health Council



Safety Measures

Sunway lives by the objective, “To achieve ZERO life lost”, at all project work sites. Health and safety risk assessments are established for new and existing projects across all of its business units.

Improving safety and health is vital. Mandatory training is delivered for new workers and refresher training for longer-serving employees.

Improving Public Safety During Construction Works

- Safety fencing within machine perimeter
- Safety interlock device at fencing
- Yellow lines to distinguish between passages and operations area
- Scheduled inspection of safety devices by the maintenance and HSE team
- Warning and mandatory Personal Protective Equipment signage

High-Risk Activities Requiring Permits

- Hot work
- Excavation
- Scaffolding
- Confined spaces
- Working at height
- Lifting
- Night Work

Sunway’s Quality, Environment, Safety and Health (QESH) Management System is an integrated management system that conforms to international standards such as ISO 9001, ISO 14001 and OHSAS 18001.

Our QESH policy reflects the Company’s fundamental thrust towards inculcating total quality, environment, safety and health management principles, practices and values. As part of our continuous effort to develop, implement and maintain good occupational safety, health and environmentally-friendly practices in our activities, we inculcate a corporate culture that is aligned with our QESH objectives.

Sunway Building Materials Group has a proactive approach in preventing any incidence or high risk of specific diseases. The Division has engaged the Department of Occupational Safety and Health (DOSH) and participated in the SO Help Programme (Systematic Occupational Help enhancement level programme). Sunway Paving Solutions has achieved the Level 5 excellent mark across all categories including ergonomics improvement, chemical safety management and continuous improvement programmes on hearing conservation.

GENDER EQUALITY AND FEMALE EMPOWERMENT

Sunway strives to be a leading force in changing the harmful norms and stereotypes that are a barrier to women's economic empowerment and the norms and stereotypes of masculinity that confine men too.

Empowering women transforms individual lives, societies and our business. Creating and supporting opportunities for women in society and the economy will boost our markets, brands and business.

Better access to paid employment, gender rights and decision-making power in the private and public sectors ensure development is equitable and sustainable.

In 2018, Sunway sponsored the 'ReTHINK Leadership' Conference organised by LeadWomen in support of challenging the unconscious bias and encourage leading inclusively.



EMPOWERING SUNWAY'S FEMALE EMPLOYEES
TO REACH THEIR FULL POTENTIAL REQUIRES EQUAL
OPPORTUNITIES AND EQUALITY.

Our Annual Talent Review exercise aims to discover female talents within all business units. Sunway ensures a minimum of 30% of women is represented in its Annual Talent Review. The percentage of women in management and top management levels continue to show increasing trends.

Malaysia's 30% Club

The 30% Club is a group of chairmen and business leaders who are committed to bringing more women onto Malaysian corporate boards. Tan Sri Dr Jeffrey Cheah AO has been appointed as Founding Chair of Malaysia's 30% Club.

Objectives of the 30% Club

- Raising awareness among chairmen and business leaders of the benefits of gender diversity
 - Inspiring debate and discussion
- Supporting initiatives to build a pipeline of women in executive and non-executive roles

Malaysia's 30% Club has intensified its efforts to help Malaysia achieve 30% female representation on public listed corporate boards by 2020. The 30% Club cross-sector Board Mentoring Scheme was piloted in July 2017 in partnership with PwC Malaysia.

Delivering Women Empowerment and Equal Opportunity

RECRUITMENT

- Equal opportunities for all applicants including technical positions regardless of gender

TRAINING AND CAREER DEVELOPMENT

- Delivering at least 40 hours of training to employees of all levels, regardless of gender, as part of the Group President's scorecard

PERFORMANCE MANAGEMENT

- Our fair and equal performance management philosophy is merit-based and guided by a well-defined balance scorecard

WORKLIFE BALANCE/INFRASTRUCTURE

- Reviewing, designing and establishing a set of work-life parameters, policies and procedures for implementation throughout our businesses

LEADERSHIP & DEVELOPMENT PATH

- Ensuring 30% of talents at the Annual Talent Review are female
- Delivering Structured Development Programmes for women through on the job training and job shadowing, structured coaching and mentoring programmes



EQUAL RIGHTS FOR ALL

Fair employment, diversity and inclusivity are embraced in the workplace. All divisions respect the human rights of all employees and we ensure that everyone is aware of these priorities.



- OUR HUMAN RESOURCE PRACTICES COMPLY WITH LOCAL LABOUR LAWS.
- HIRING IS BASED ON MERIT.
- EQUAL OPPORTUNITIES ARE PROVIDED FOR CAREER DEVELOPMENT AND PROGRESSION.



- DISCRIMINATION ON THE BASIS OF ETHNICITY, GENDER, RELIGIOUS BELIEFS, NATIONALITY, AGE OR PHYSICAL DISABILITY IS FORBIDDEN.
- UNETHICAL AND EXPLOITATIVE LABOUR PRACTICES, SUCH AS CHILD LABOUR, FORCED OR COMPULSORY LABOUR, ARE NOT TOLERATED.

Labour Rights

Sunway recognises and respects that employees' rights are represented by trade unions or other representatives in accordance with local applicable legislation and practice. Sunway representatives meet with these unions every three years to finalise a collective agreement.

Employees are free to join a trade union of their choice provided they abide by local law and the rules of the trade union concerned. Unions currently representing our employees are presented below.

Unions Currently Representing Sunway Employees

Business Unit	Names of Union	No. of Union Members	No. of Employees Covered By CA
Sunway VCP Sdn Bhd	Non - Metallic Mineral Products Manufacturing Employees' Union	13	32
Sunway Lagoon Club Sdn Bhd	Club Employees Union Peninsular Malaysia	9	10
Sunway Hotel Georgetown Penang	National Union of Hotels, Bar & Restaurant Workers Peninsular Malaysia	47	53
Sunway Hotel Seberang Jaya	National Union of Hotels, Bar & Restaurant Workers Peninsular Malaysia	55	75
Total	4 Unions	124	170





*#Sunwayforgood
Operations*



#Sunwayforgood Operations

Sunway aims to be present in the lives of many, bringing change for a better future, through its sustainability initiatives. As an industry leader, we aim to make a difference and are responsible for changing the community for the better through our values.

SUSTAINABLE TOWNSHIP BUSINESS MODEL

Several aspects are considered when developing a comprehensive township from choosing a location to planning and selecting amenities for the residents' convenience. Sunway Property has a unique approach to its community masterplan. Centred on a sustainable business model — build, own and operate — the masterplan essentially encompasses a full real estate value chain.

This model allows Sunway to remain the largest stakeholder in its townships. Owning 40%, the Company can deliver its commitment to the lifelong growth of Sunway communities and recycle capital into the townships for sustainable growth.

Sunway invests in the community by ensuring connectivity, safety, security and environmental sustainability. This helps the townships grow for the benefit of residents.

CIRCULAR ECONOMY THROUGH QUALITY ASSURANCE

Sunway delivers innovative, quality products and service excellence. Our quality policy promises to develop, produce and deliver timely products, services and experiences that meet or exceed stakeholders' expectations. Each business unit implements quality systems and processes that are continually improved to satisfy stakeholders' changing needs.

Our ISO 9001-certified Quality Management System pushes us to continuously improve our processes and approaches in order to deliver the best possible results in each of our business fields.

Sunway Quality Merit System

The Sunway Quality Merit System (SQMS) measures the project system and product quality performance at every stage of construction. The assessment is based on:

- the QLASSIC requirements for measuring product workmanship; and
- ISO 9001 standards for measuring the effectiveness of inspection, testing and document/record management practices.

Projects with low SQMS scores are identified for immediate improvement.

Objectives of SQMS

- Benchmark all projects
- Measure project quality performance systematically and objectively
 - Standardise good practices across all projects
- Raise greater awareness of product quality as per QLASSIC requirements among all staff and subcontractors
- Achieve a minimum QLASSIC score of 75% for all projects

Monthly SQMS assessments are performed for all projects including piling, reinforced concreting, precast installation, steel structures, brickwork, plastering and pointing.

Quality and Excellence at Our Hospitality Arm

Sunway Hotel Seberang Jaya was recognised again as a 4-star hotel in October 2018. The award reaffirms our position as a leading provider of hospitality products and services in the Seberang Jaya area.

The award was presented to General Manager Mr. Prakash Kumaran by Director of Ministry of Tourism and Culture Malaysia Penang Office, Jonathan Freddy P. Bagang, following an inspection of the hotel's premises in July 2018.

In 2018, a Quality Control Index (QCI) Officer was hired to deliver consistency in quality at Sunway Hotel Seberang Jaya and Sunway Hotel Georgetown.

Other quality standards and certifications applied to our Hospitality Division include Halal Certificate in Banquet Kitchen (Chinese, Malay, Western & Pastry), Emergency Response Team (ERT) certificate and Certificate of Accreditation Company NDTs on food hygiene.



A SAFE SUNWAY

Sunway's Safe City initiative allows communities to live, learn, work and play while being healthy and safe in a well-connected environment. Our in-house security force conducts 24-hour joint patrols with Royal Malaysian Police personnel across Sunway City as part of this initiative.

The township, including Sunway-owned buildings, is also equipped with more than 3,000 24-hour CCTV cameras. Our 1,100-strong security force personnel include 600 auxiliary police who have completed intensive training at the Malaysian Police Training Centre.

Safety and Security at Our Properties

A vigilant security system is an important service at all Sunway assets. Stakeholders must feel safe and welcome while patronising all of our premises. Sunway works closely with the Royal Malaysian Police (PDRM) to improve safety on all Sunway premises and in the general vicinity.

Auxiliary police are employed to keep stakeholders safe. Highly-trained armed auxiliary police regularly patrol the assets' perimeter and the pedestrian bridges connecting our assets.

Safety Approaches at Our Properties

Minimum Training for Auxiliary Police

- Monthly training by Group Security
- At least two gun shooting courses by PDRM
- A minimum of 48 hours of foot drills and BOMBA training each year
- A minimum of 16 hours of classroom training each year
- Two months of training at our Police Training Centre

Ensuring Safety at Our Properties

- Patrolling on a personal transporter at all sections of the mall with special attention given to crime-prone areas
- Panic buttons around our shopping malls and car parks for a quick emergency response
- State of the art escalator safety equipped with anti-unintentional reversal control and an intelligent brake system

Sunway Safe City Initiative

- Partnered with the Royal Malaysian Police and Malaysian Crime Prevention Foundation (MCPF)
- Spent RM1 million on constructing Sunway Pondok Polis
- Spent RM280,000 on mobile police stations
- Spent RM3 million on constructing a new police station
- A new RM3 million police station with state-of-the-art equipment is planned
- Panic buttons installed around Sunway Pyramid
- Round-the-clock patrols organised alongside Royal Malaysian Police personnel
- 3,000 CCTV cameras installed
- A security force of 1,100 operates, 600 of whom are auxiliary police
- Launched the Selangor MCPF website, a one-stop digital platform that shares useful crime prevention information



Sunway Iskandar's Upholds its Safety and Security

Sunway is exploring the implementation of its range of digital solutions. Integrating IoT (Internet of Things) and AI (Artificial Intelligence) technologies such as fingerprinting, facial recognition and video analytics technologies in Sunway Iskandar are being considered.

Sunway Iskandar is currently expanding its team of 160 auxiliary police who are trained by the Royal Malaysia Police (PDRM). The security team strictly follows PDRM's standard operation procedures when patrolling Sunway Iskandar. Sunway Iskandar targets having 200 auxiliary police officers and personnel safeguarding the development by 2020.

FOR A HEALTHIER, CLEANER AND SAFER SUNWAY CITY

Sunway aims to protect members of the public from exposure to second-hand smoke to create a healthier, cleaner and safer environment for everyone. The Ministry of Health appointed a team of auxiliary police to educate and enforce a zoned smoking policy in the 800-acre township of Sunway City. PDRM also supports this initiative.

The initiative supports Malaysia's aim to reduce smoking prevalence to 15% by 2025 and to be a smoke-free nation by 2045 as stated in the National Strategic Plan for Tobacco Control 2015-2020.

A report by the Institute of Public Health in 2011 found that:

- At least 40% of adults are exposed to second-hand smoke in their workplaces and homes
- Approximately 70% and 28% of adults breathe in tobacco smoke when visiting restaurants and using public transport, respectively.

Letters of empowerment have been awarded to a team of trained auxiliary police. From 16 September 2018, they were authorised to issue summons to those caught smoking in no-smoking zones. Under the Control of Tobacco Product (Amendment) Regulations 2017, offenders could face a maximum fine of RM10,000 or up to two years' imprisonment. This move will help non-smokers avoid risks associated with second-hand smoke.

LIVING SUNWAY, LIVING COMMUNITY

Sunway has over 40 years of experience building townships and a multitude of mixed-use projects and infrastructure. We continue to adhere to the core values of integrity, humility and excellence that has encapsulated the Sunway brand as a quality and revered community builder.

Beyond building townships, Sunway develops wholesome and vibrant communities by adding elements for a holistic, liveable and progressive environment of growth and development.

“IN THE LAST FOUR DECADES, SUNWAY HAS WEATHERED VARIOUS CHALLENGES, BUT WHAT SETS US APART IS OUR WILLINGNESS TO BE TRANSPARENT IN OUR JOURNEY. WE OWN UP TO OUR FAILURES, LEARN FROM THEM, AND SHARE THEM PUBLICLY SO THAT OTHERS CAN LEARN TOO. IT IS THE RELATIONSHIPS WE HAVE BUILT THAT MATTER MOST AT THE END OF THE DAY, AND ONE CERTAIN WAY TO BUILD THIS TRUST IS TO CONTINUOUSLY DO GREAT THINGS FOR THE COMMUNITIES WE SERVE.”

SARENA CHEAH,

MANAGING DIRECTOR, PROPERTY DIVISION, SUNWAY BERHAD

Featuring Sunway Property's Movie by the Lake

A Movie by The Lake event was held at Sunway Serene Sales Gallery in December 2018. It was a fun-filled evening with a warm ambience for the night that suited the theme of the sales gallery. There were food trucks with a selection of food for visitors to enjoy while watching the screened movie, The Greatest Showman on Earth. The 'Double the Rewards, Double the Fun' contest was held in conjunction with the movie event. Lucky winners walked away with attractive prizes.

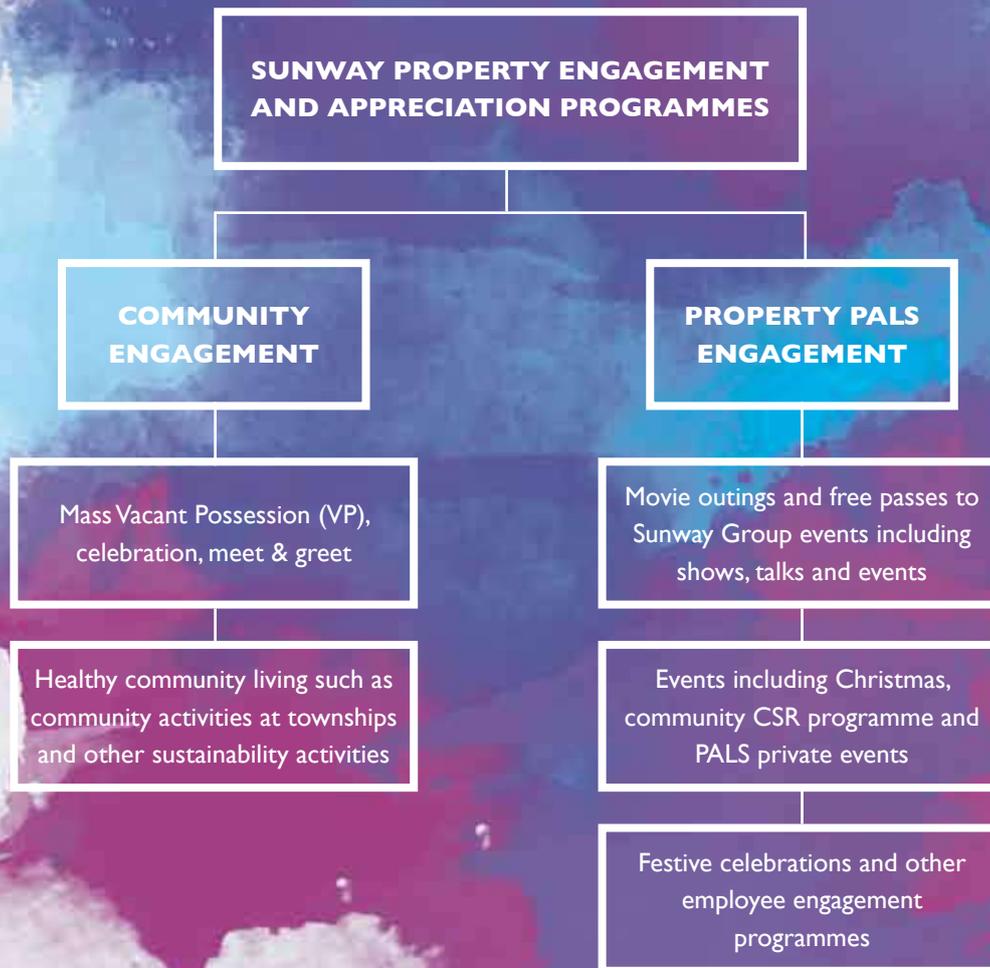
Sunway Property also organised three movie outings for its Property PALS members in 2018. This is one way of rewarding Sunway Property PALS members for their loyalty and continued support. The outings were held at TGV Sunway Pyramid and TGV Sunway Velocity Mall.

CUSTOMER PRIVACY

As digital technology becomes deeply integrated in people's lives, generating greater quantities of data, the twin challenges of privacy and data security loom even larger. Our stakeholders and the broader community are concerned about who has access to this data and we are committed to being transparent in how we manage and protect this information.

Sunway manages these challenges through a stringent series of codes, policies and security controls. Customer data is protected from intrusions and unauthorised access. Employees are subjected to the strictest standards of privacy and confidentiality.

We take this responsibility seriously and have established a company-wide governance infrastructure to take a holistic approach to data privacy and security. This practice is applied across all our business units including protecting the privacy of all stakeholders including shoppers in our malls and medical centre patients.



FIGHTING AND PREVENTING CORRUPTION

Conducting business responsibly is the cornerstone of our company strategy and corporate culture. We are committed to winning business on merit, ability and fairness. A clear code of business ethics is followed and we vigorously correct any encountered irregularities. Our commitment goes beyond laws and regulations. We strive to be a responsible and relevant driver of positive change within the communities, organisations and societies that we partner with.

Corruption encompasses bribery and trading in influence. Any corrupt activity, either in the public or private sectors, is prohibited. Offering, giving, requesting, accepting or receiving any bribes or facilitation payments is forbidden. Sunway's zero tolerance to corruption and ethical standards are set out in its Code of Conduct, Group Policy Anti-Corruption and other governing documents, which are implemented across all business units.

Integrity is also one of Sunway's core values. All suppliers and third parties that have a direct contractual relationship or offer products or services to Sunway must comply with our Supplier Conduct Principles. These principles set out the minimum standards that we expect to see achieved over time including ethics and anti-corruption.

Heads of business units are briefed on the implementation of a quarterly risk report that is signed off by each business unit. The reporting, investigation and handling of corruption cases are dealt with by Group Internal Audit (GIAD) and individual business units. Sunway provides mandatory compliance training for all employees and continuously communicates the importance of business ethics and compliance.

SUSTAINABLE DEVELOPMENT GOALS



Trailblazer of Sustainable Development Goals in the Region: An On-going Mission

It is a crucial moment in the evolution of sustainability: The United Nations Sustainable Development Goals (UNSDGs) have ushered in a new era of global development objectives to tackle the world's most pressing problems. Industry players such as Sunway must become principle drivers if these goals are to be achieved.

The agenda is an action plan for the people, planet and prosperity. It aims to secure universal peace. Eradicating poverty in all forms and dimensions, including extreme poverty, is the greatest global challenge and an indispensable part of sustainable development.

Sunway has taken a leading role in sustainable development by taking bold and transformative steps that are urgently needed to steer the world towards a sustainable and resilient path. As we embark on this collective journey, we pledge to continue tackling the three dimensions of sustainable development - economic, environmental and social - as One Sunway.

SUSTAINABILITY THROUGH INTEGRATED KNOWLEDGE MANAGEMENT AND INNOVATION

At times, 17 goals and 169 targets are overwhelming. However, the 2030 Agenda shows the complexity of sustainable development and how economics, social issues and the environment are interconnected.

At Sunway, we see this as an opportunity. With a strong position across 12 business divisions, we continue to make progress in achieving these goals.

The following projects are championed by our education and research team in partnership with industry experts from our own business units. They show how these innovative and integrated approaches achieve sustainable solutions.

THE JEFFREY SACHS CENTER ON SUSTAINABLE DEVELOPMENT

The Jeffrey Sachs Center on Sustainable Development is a regional centre of excellence that advances the achievement of the 17 United Nations Sustainable Development Goals (UNSDGs) in Malaysia and Southeast Asia. It tackles the sustainability agenda through:

- Education, training, research and policy advisory
- Delivering world-class programmes to train students, practitioners and policy leaders on sustainable initiatives
- Developing solutions related to the UNSDGs in collaboration with industry, government bodies, NGOs and universities worldwide

Launched in December 2016, the centre operates out of Sunway University under the supervision of Professor Jeffrey D. Sachs, one of the world's leading experts in sustainable development. The centre was borne out of a \$10 million gift from the Jeffrey Cheah Foundation (JCF) to the UN Sustainable Development Solutions Network (SDSN).

Deep Decarbonisation Pathways for Malaysia

The project supports Malaysia in preventing global temperature from rising more than 2° C. This comprehensive study models possible pathways for deep decarbonisation, mainly energy systems, transportation, buildings and industry.

Stages of Deep Decarbonisation Pathways for Malaysia

CREATE A BASELINE FOR MALAYSIAN CARBON EMISSIONS



DEVELOP A SIMULATION MODELLING STUDY THAT INCORPORATES EXISTING AVAILABLE TECHNOLOGIES IN VARIOUS SCALES OF DECARBONISATION



MODELLING ECONOMIC AND ENVIRONMENTAL IMPACTS BASED ON LIFE-CYCLE ANALYSIS FOR EACH AVAILABLE TECHNOLOGY TO REVISE AND REFURBISH THE MODELLING



Deforestation and Biodiversity Loss

Malaysia hosts the oldest tropical rainforests in the world with some being 130 million years old. These rainforests contribute significantly to the carbon sink, biodiversity, environmental services and eco-heritage. A loss of primary forest is a huge threat to the ecosystem that endangers flora and fauna while causing flooding due to soil degradation and river sedimentation.

This study supports the Malaysian government's commitment to ensuring that at least 50% of land area remains permanently under forest cover. The research explores potential solutions to increase forest cover and Malaysian biodiversity through proper management, intergovernmental responsibilities and international frameworks and mechanisms.



Food, Agriculture, Biodiversity, Land Use and Energy (FABLE) in Malaysia

The Food, Agriculture, Biodiversity, Land Use and Energy (FABLE) Pathways Consortium was launched in 2017 by Sustainable Development Solutions Network (SDSN) and the International Institute for Applied Systems Analysis (IIASA). The consortium aims to develop consistent global and national pathways towards sustainable land use and food systems by 2050. Malaysia's country information is compiled from expert opinions, national policies and projected pathways. The study aims to explore alternative scenarios and comprehend the main development pathways for food systems in Malaysia by 2050.



Combating Childhood Stunting in Malaysia

More than one in five Malaysian children are stunted from chronic malnutrition. This figure is worse than Ghana and war-torn Gaza. Studies have shown that stunting has practically irreversible long-term effects on individuals and societies. However, there is little awareness of the issue among policymakers and the general population.

This ongoing research examines stunting data in Malaysia from the Institute of Public Health. It highlights possible causes and recommends an integrated framework of policy interventions to reduce childhood stunting in Malaysia.



Fiscal Decentralisation

This ongoing research project will examine the need for reforms in the allocation of state government budgets and the overall governance of state vis-a-vis the federal government. It highlights the economic changes necessary for state-level growth such as GLC reform and the formation of small and medium banks. Greater levels of autonomy are needed for Malaysian states to dictate their own development paths.



Agriculture Modernisation

This ongoing research paper aims to develop a roadmap to raise income levels and the economy of Kedah by modernising the existing agricultural sector. Switching from low value-added paddy rice to high-value cash crops will be an important first step to raising incomes on the ground. Food processing also presents a potential avenue for higher value-added economic activities in Kedah. The case for modernisation will be made by analysing similar transitions in Thailand and other countries.



Generating Innovation-Based Economic Growth That is Socially Inclusive

This research project aimed to use technological innovation to create circuits of economic activity that would raise the welfare of lower-income and marginalised groups. It is crucial that governments galvanise the development of technologies that improve the economy. Allowing small players to emerge alongside large incumbents would widen the pool to include those who would previously be unable to participate in the innovation process.



Sustainable Energy Technology and Systems in Malaysia

This project focuses on the deployment of sustainable energy technologies:

- A solar-battery combination deployed as a demonstrable project in several locations
- A rooftop solar energy system installed at several locations in Sunway City including Sunway University between 2017 and 2018.

A smaller scale solar-battery system is being designed for deployment in off-grid rural communities without access to electricity. Future extensions to this project would examine other energy technologies such as using reformed natural gas for hydrogen fuel cells.



Sustainable Management of Lakes and Estuarine Ecosystems to Overcome Catastrophic Regime Shifts

Lakes, rivers and estuaries provide essential economic-ecosystem services that are contingent on their water quality and trophic status. Currently, many urban lakes, rivers and estuaries in Malaysia are rated Class III, which is eutrophic.

Urban population is forecast to increase and the land-use surrounding urban lakes and estuaries is expected to intensify. As nutrients in lake sediments accumulate unabatedly, all lakes are expected to shift to eutrophication. The primary goal is to rehabilitate and maximize the ecosystem-social-economic value of lakes, rivers and estuaries in several locations based on developed methodology and simulation models.



Mitigation of Environmental and Climate Shocks: Towards Supporting the UN Sustainable Development Goals

Persistent environmental degradation combined with climate shocks will pose severe threats to societal resilience and sustainability. Numerical simulations coupled with onsite monitoring can improve current knowledge of societal vulnerability and resilience to both climate change and anthropogenic disturbances. It can also provide valuable insight into climate change mitigation and adaptation strategy for sustainability.

A dedicated book, published by World Scientific, will outline critically-needed action plans and programmes that address the issues. The primary aim of the project is to promote research and outreach activities that support the UNSDGs.



Mangroves Vulnerability, Resilience and Their Role in Climate Adaptation

Mangroves are vulnerable to climate change and anthropogenic activities that can lead to catastrophic coastal disturbances. Rising sea levels pose the greatest threat.

This project compiles global data related to the impact of climate change on coastal resources. Model-based simulations improve knowledge of mangrove vulnerability and its resilience to climate change.

Outcomes include climate change mitigation and adaptation strategies such as integrated coastal zone management with adequate provision to facilitate mangrove protection, survival and landward migration. Numerical simulations and site monitoring are used to analyse the impact of climate change on the interaction between mangroves and functionally-linked ecosystems such as the hardwood hammocks. The findings will help provide early warning signals of catastrophic regime shifts that threaten the coastal surface and groundwater resources critical to the survival of coastal populations.



Malaysia & ASEAN SDG Dashboard

The Jeffrey Sachs Center is developing a dashboard to report Malaysia's performance on the UNSDGs using available and nationally appropriate data. The first version will present Malaysia's standing. It will later be extended to allow ASEAN countries to be compared and benchmarked against the best-performing countries.

The dashboard will highlight areas of critical concern. A research team will be able to perform in-depth analysis and make suggestions so countries can improve their performance.



Creating Sustainable Campuses

This study focuses on education for sustainable development and global citizenship by:

- Exploring the role of universities in achieving the UNSDGs
- Mobilising a catalyst for accelerated implementation

Case studies of sustainable campuses in Malaysia showcase community and student outreach projects in line with the UNSDGs such as:

- The Bicycle Project at the University of Nottingham, Malaysia Campus
- Kompos to Kelulut (K2K) at Universiti Sains Malaysia
- Sunway Youth for Sustainable Development at Sunway University

These case studies show that education goes beyond the formal curricula. Soft skills and critical thinking are emphasised as major components of responsible behaviour.



Nuclear Science, Technology and Security for Sustainable Development

This project is a collaboration with the Centre for Radiation Sciences at Sunway University. The transnational and comparative contexts help in the understanding of emerging nuclear science and technology (S&T) within the developmental context of Malaysia and the rest of ASEAN. It also builds on lessons learned by other South and East Asian countries.

In line with the 2030 Agenda, the project will examine knowledge ethics in public science communication, science and technology transfer, nuclear energy potential as well as radiation risks and standards.



ImaginAging: Co-Designing Policies Related to Ageing in a Community Using Speculative Design

Like other developed and developing countries, Malaysia faces the challenge of supporting an ageing population. This project explores how speculative design might help citizens and governments in developing countries set policies for ageing well in the city.

Population ageing may be considered a rich new opportunity for both individuals and societies, provided the right policies and services have been introduced. This project was showcased at the 2018 World Urban Forum to facilitate more efficient, effective, transparent and evidence-based policy-making.



Art-Science Approaches to Knowledge Generation in Sustainable Futures

The project will develop an art-science methodology for designing emergent futures. Historical and contemporary knowledge, as well as projects, will be drawn upon. Science and technology that interface with techniques and methods from the arts will be considered in relation to their interaction with socio-political concerns to address sustainability issues.

This exploration will consider historical and contemporary scientific knowledge emerging from Malaysia, Southeast Asia and other regions in terms of:

- How they interface with one another
- How that interface gives rise to emergent knowledge to drive socio-epistemic innovation that addresses the UNSDGs



Currency Stability and Sustainable Development

Exchange rate volatility has been at the epicentre of several financial crises. The crises led to economic declines and often financial instability through currency depreciation.

This research examines currency volatility as a measure of currency instability. Fifteen currencies have been selected from developed and emerging economies with data covering 20 years.

Much has been written on the topic by the IMF and others on how countries manage their exchange rates to maximise economic growth, especially sustainable trade, by designing proper exchange rate regimes for stability.

This study introduces the possibility of tracking a currency's exchange rate instability. The relative volatility is established by comparing the currency's volatility against a currency of importance.



Islamic Pro-Development Funding Instruments

Islamic funding instruments such as Sukuk offer a novel form of debt contracting. They relate to specific asset-backed and targeted funding that embraces ethical pro-growth principles.

This new and growing segment of financing has attracted the attention of professionals. In 2017, Sukuk had an outstanding value of approximately USD 320 billion, the majority of which was in the five financial centres of Malaysia, Indonesia, Saudi Arabia, United Arab Emirates and Bahrain.

This study demonstrates how this new debt instrument is able to secure financial stability. It is a less risky mode of development funding with evidence that it promotes financial stability as investor returns are protected by asset backing and risk-sharing.



MONASH UNIVERSITY

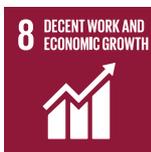
Every project Monash University supports aims to make a difference. From studying the body's regeneration to revolutionising the use of metals in manufacturing, our ground-breaking research has the potential to transform lives.

We go beyond traditional boundaries and disciplines to achieve excellence and maximise the impact of our research. Contemporary issues, global challenges and theme areas are considered to produce work that is truly impactful.

SPF Programme

Malaysia is home to one of the largest urban refugee populations in the world, over 150,000 refugees and asylum seekers according to UNHCR. The School of Business at Monash University Malaysia is actively engaged in programmes aimed at assisting and empowering individuals from this population through capacity building, funding and partnerships with multiple organisations.

Monash University Malaysia School of Business (MUM-SOB) PRME is collaborating to implement the Refugee SPF programme initiated by United Nations High Commissioner for Refugees (UNHCR) Kuala Lumpur. The UNHCR Kuala Lumpur introduced the Refugee programme in 2009. It operates as a fund for the provision of small grants to the refugee community-based organisations (CBOs). In 2018, 10 Refugee CBOs applied for the SPF grant from UNHCR, of which seven were successful. The objective of this programme is to strengthen the capacity of refugee CBOs and ensure adequate support for these community-led projects to self-promote reliance within the refugee communities. The programme also helped improve the livelihoods of 200 vulnerable persons in the community especially women and youth. The programme target groups include the Rohingya (Myanmar), Ahmadi (Pakistani), Somali, Sudanese, Afghan and Yemeni.



Connecting & Equipping Refugees for Tertiary Education (CERTE)

Urban settings pose a host of real and difficult challenges for refugees, in particular refugee children. In Malaysia especially, refugee children and youth do not have access to institutionalized schools and thus obtain education via an informal parallel system of community-based learning centres.

CERTE is a task force that aims to help young adult refugees access tertiary education opportunities through knowledge and resource sharing, a bridge course, school readiness preparation and mentorship. Its mission is to provide quality education to refugees globally and international universities in Malaysia.

The aim of the CERTE course is to identify refugees who can demonstrate the motivation and academic potential to access further education and to help them gain a place in university or college.

Monash University Malaysia School of Business (MUM-SOB) has been involved in this initiative since 2017. In 2018, 18 young refugees from different communities across Kuala Lumpur were selected through the interview process. These refugees were Rohingyas, Sudanese, Yemenis, Pakistanis and Middle Eastern.

These students gained a basic understanding of the application process of higher education institutions, different academic disciplines as well as basic research skills in writing and presentations.

On the last day, a graduation ceremony is held and a certificate of completion is awarded to the students by Richard Towle, UNHCR's country representative in Malaysia. This certificate not only endorses their participation but also serves as a unique stepping stone to future learning opportunities in Malaysia or elsewhere. Students who successfully complete the course are given the opportunity to sign-up for a continued mentorship programme that will provide continued support in their university application process.



Ageing in Bandar Sunway: A holistic Approach to Improving Health and Well-being

A growing ageing population is largely due to reduced infant and child mortality. Fewer deaths from improved health care strategies have also increased the ageing population.

This project studies the ageing population in Bandar Sunway and its vicinity through targeted questionnaires, in-depth interviews and focus groups. Key environmental and genetic factors that affect their health and longevity are identified. Hopefully, a detailed model will improve our understanding and the health and well-being of our ageing population.

This project is one of the first exploratory systematic analysis of the health and lifestyle of the over 60s living in urban Malaysia. A greater knowledge of the over 60 community in Bandar Sunway and its surroundings will be created. The latest leading-edge genomic, biochemical, neurological and psychological technologies are being used to address health risks. The use of intelligent lighting and sensor technologies are being examined that will improve their living environment.



Monash-Sunway Decarbonization Initiative: Microalgae Farming and Native Tree Planting

Currently, over half of the world’s population now lives in cities and approximately 70% of total global carbon dioxide (CO₂) emissions are associated with urban development. Urbanisation causes complex challenges but creates unprecedented opportunities for creative solutions. For example, European cities such as Hamburg in Germany power buildings with algae and there are greener botanical gardens in Cambridge, United Kingdom.

Oceans and rainforests are the largest natural CO₂ sequestration systems with microalgae and trees being responsible for approximately 70% and 28% of the world’s oxygen respectively. Microalgae is also able to convert CO₂ and solar energy into useful antioxidant products such as carotenoids and polyphenols.

This proposal reduces CO₂ in the atmosphere and supports Malaysia’s National Green Technology Policy’s zero emissions target which was announced on 24 July 2009. As a result, an air quality and psychology nexus will be established to subsequently evaluate its community impact.



Techno-Economic Feasibility Assessment of Using Renewable (Solar) Energy for the BRT-Sunway Transport

Monash University, Prasarana Berhad and other third parties examine the feasibility of powering the Sunway BRT Line with solar energy. Harnessing a clean source of energy such as solar would provide two major advantages: reducing conventional energy and lowering the operational costs of the transport system. Hopefully, this project will help transform Bandar Sunway into a smart and sustainable city.

Phases one and two of the project focus on studying energy consumption patterns and the techno-economic design of solar PV for Sunway BRT Line. The performance of the optimised design will be compared with the existing diesel buses.

Project Objectives of the Solar PV System



If successful, the project will help reduce carbon emissions within Bandar Sunway and surrounding areas. Solar energy is clean and at least 100 tonnes of CO₂ are expected to be offset each month.

The two-year project is scheduled for completion in December 2019. It has attracted the attention of other Malaysian, regional and international transportation companies.



Development of a Sustainable Geopolymer Pavement System using Fine Industrial Waste

This project aims to develop a permeable geopolymer concrete from coal bottom ash (CBA). Permeable concrete can be used in paving systems as a control measure in tropical environments. Huge volumes of CBA are disposed of in landfills or ash ponds each year despite having a significant silica and alumina content. Reusing CBA in concrete offers a greener, more sustainable alternative to cement.

Currently, the Monash University research team is developing a geopolymer concrete from cement paste. CBA is being tested as a cement replacement at between 10% and 50%. Various treatments are being tested to identify their efficacy in improving the pozzolanic reactivity of the CBA.

CBA was obtained from both the Tanjung Bin and Kapar power plants with a third source being sought. The compressive strength of the CBA cement paste is being tested to evaluate its effect on the performance of the source material.

The next phase assesses the effectiveness of the CBA mortar and concrete as a fine aggregate replacement. A geopolymer concrete will be developed based on the results. The treated CBA will serve as both a cement and sand replacement with alkali activators being used to increase pozzolanic activity. The compressive strength, durability, abrasion resistance and chemical resistivity parameters of this optimised product will be evaluated.



Development and Implantation Studies on Interlocking Solar Concrete Paver (ISCP) Systems

The project begins with the selection of a top layer material for the development of an interlocking concrete paver prototype with solar functionality incorporated.

Crystalline solar cells are the most efficient type but our research team found them unsuitable. Although they are rigid and take load well, they are brittle and less flexible than the thin film solar cell.

Currently, the research team is exploring using thin film solar cells as an alternative. Their flexibility allows the load to be dispersed more evenly. Optimising the paver arrangement should maximise the sunlight reception and reflection into the solar pavers which will compensate for the loss in efficiency.



Sustainable Intelligent Transportation Ecosystem

This project has developed algorithms to modify traffic light signals to reduce waiting time. The data will be analysed to determine the effectiveness of the algorithms.

The reasons for some people not choosing public transport including walkability and public transport accessibility in Sunway City were also assessed. Concentrations of NO_x, CO₂, CO, PM2.5 and PM10 air pollutants were also measured.

Monash University Malaysia, Sunway Group, Smart Selangor Delivery Unit and Majlis Perbandaran Subang Jaya are members of the Intelligent Traffic Monitoring System (ITMS) Pilot Project at Sunway City. The project is part of a plan to make Selangor the premier ASEAN smart state by 2025. Hopefully, the data will be used to find effective ways of alleviating traffic congestion.



Bandar Sunway “River of Sustainability”

The Bandar Sunway River of Sustainability project focused on controlling and managing river pollution, ecosystem remediation and improving community health.

The Beautiful Bandar Sunway Canal



This project aims to surpass the objectives of the River of Life project by:

- Delivering a sustainable and well-managed river transformation project, and
- Addressing a number of the Sustainable Development Goals (SDG) associated with a smart and sustainable community.

Water tests were performed at Kelana Jaya Lake and the Klang River near the housing areas and Subang National Golf Club. The water samples showed extremely high microbial load and unsafe water conditions.

The immobile lake water at Tasik Kelana serves as a bed for eutrophication with incoming nutrients from both inlets deteriorating the water quality. Increasing dissolved oxygen in the water would slow algae blooms and bacteria growth. Installing a falling water mechanism would allow greater amounts of oxygen to be dissolved.

A biofiltration system is recommended to reduce the high concentrations of nutrients. It acts as a filter to prevent organic matter and nutrients from entering the lake. Based on previous studies, the biofiltration system has outstanding removal efficiency: >90% for heavy metals, >70% removing nutrients such as phosphorus and up to 70% for nitrogen.



SUNWAY UNIVERSITY

Sunway University supports sustainability efforts by helping the best minds to discover new ideas that tackle economic and environmental issues. As part of the University’s School of Science and Technology, the Research Centre for Carbon Dioxide Capture and Utilisation specialises in carbon dioxide waste conversion to help combat global warming.

The Research Centre for Nano-Materials and Energy Technology also helps develop sustainable energy solutions by focusing on new nanomaterials to optimise renewable energy technology.

Project	Project Description	UNSDGs
Harimau Selamanya	This research project aims to conserve three large cat species in the Kenyir-Taman Negara Core Area, Terengganu: the Malayan Tiger <i>Panthera tigris jacksoni</i> , the Leopard <i>Panthera pardus</i> and Clouded Leopard <i>Neofelis nebulosa</i> .	 
Discovery of novel antibacterial agents	Animals and pests that live in polluted environments are exposed to pathogenic bacteria. The project concerns how these animals counter bacterial infections. We hypothesize that the microbial gut flora of pests produces antibacterial molecules that support their immunity to fight pathogens. The main objective of this study is to source microbes inhabiting unusual environmental niches for novel antimicrobials.	
Molecular and cellular response in Nasopharyngeal tumours and normal cells using carbon ions	Radiation is the key treatment for Nasopharyngeal cancer (NPC). Five-year survival rates of 63% and 38% for stage 3 and 4 cancer respectively is poor with 15% of stage 3 and 38% of stage 4 patients experiencing recurrence. The effects of X-rays and carbon ions on NPC cells are being compared. We aim to identify the proteins that will be expressed by the sub-cloned radio-resistant cells and use this isolated protein as a predictive marker for NPC radiation treatments.	
Online Safety and Youth Exposure to Cyberbullying in Malaysia	Cyberbullying is emerging as a serious concern in schools with the proliferation of digital and communication technologies. The CyberSAFE Programme has raised awareness of cyber safety to 5,000 students and teachers from 272 schools in Malaysia since 2012. However, cyberbullying remains under-researched in Malaysia. As victims are often underserved members of the community, many cyberbullying incidents are not reported.	
A distributed socio-affective cognitive gamification model based on cognitive load and motivation theories for the enhancement of engagement among the elderly	<p>Malaysia is heading towards being an ageing nation status. The ageing population is increasing and Alzheimer's and depression are major concerns.</p> <p>Funded by the Malaysian Ministry of (Higher) Education's Fundamental Research Grant Scheme (FRGS), we have established systems and activities that promote social, cognitive and effective engagement while keeping their memories active with problem-solving.</p>	

Project	Project Description	UNSDGs
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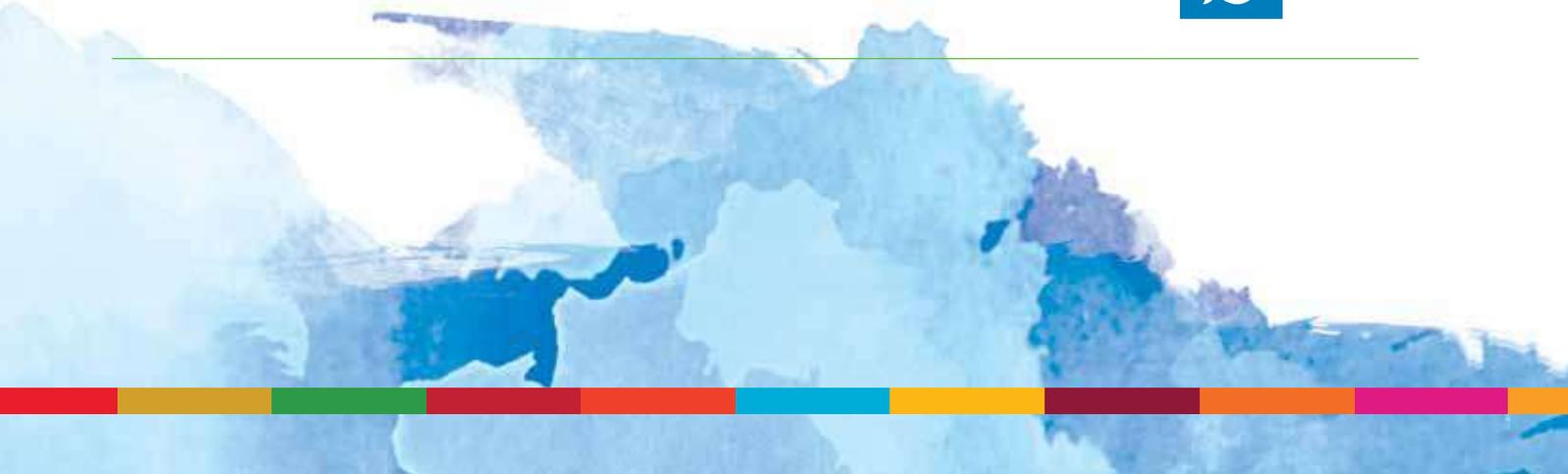
<p>Brain-eating amoebae infections</p>	<p>This project evaluates the efficacy of selected drugs (Nystatin, Amphotericin B, Corifungin, Miltefosine) conjugated with nanoparticles using the novel intranasal route on fighting <i>N. fowleri</i> infection in vivo. A histopathological assessment, score and severity of tissue inflammation and necrosis, biodistribution and plasma concentration of drugs, animal physiology and drug adverse effects profile is established. Both intranasal and intravenous administration will be assessed.</p>	
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<p>The investigation into suicide risk among university students: Factors of interpersonal needs and resiliency</p>	<p>The findings from this study will provide researchers, clinicians, educators and authorities with valuable information to assess suicide risk. The information will help us understand suicide risk more clearly and respond to signs more appropriately. Hopefully, incidences of suicide can be reduced through prevention and intervention programmes.</p>	
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<p>Neurotrophic and neuroprotective activities of Malaysian algae for the prevention of neurodegenerative diseases</p>	<p>The potential of neurotrophic and neuroprotective activities of Malaysian algae will be screened. Their potential application as functional food and nutraceutical candidates in the prevention of neurodegenerative diseases will be highlighted.</p>	
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<p>Landscape characteristics and population genetic structure of Malayan sun bears (<i>Helarctos malayanus</i>) in Malaysia</p>	<p>This study will assess the distribution and population's genetic structure of sun bears in Malaysia. This will help researchers identify landscape characteristics most likely to support sun bear populations.</p>	 
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<p>Unravelling the microplastic contamination on edible marine organisms in Malaysia</p>	<p>The objectives of this study are to identify and determine the presence, types and abundance of microplastics ingested by marine organisms in Malaysian waters. The potential routes of exposure and associated health risks from microplastic will be addressed.</p>	  
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Project	Project Description	UNSDGs
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<p>Development of Cancer Gene Therapy Mediated by Tricistronic Expression of MOAP-1 and Its Associated Proteins for the Treatments of Human Breast Cancer and Chemo-drug Resistant Cancer</p>	<p>This research project aims to develop cancer therapy that addresses problems associated with the chemo-drug resistance of cancer cells, particularly those in the human breast. Pro-apoptotic genes (MBR) will be developed to increase its potency and effectiveness against human breast cancer and chemo-drug resistant cancer cells.</p>	
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<p>Circulating nucleic acids in hepatitis B-related disease outcome</p>	<p>This project investigates the expression of circulating nucleic acids, either human or hepatitis B virus, that are associated with liver cirrhosis and liver cancer.</p>	
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<p>Metal-Based Drugs Design: Synthesis and Biological Evaluation</p>	<p>This project relates to the design of metal complexes with various ligand derivatives for biological evaluation and structural-activity studies. The prepared compounds will be characterised using various spectroscopic and material analysis to confirm their identity and purity. Subsequently, the pure compounds will be evaluated for their anti-microbial activities, anti-cancer properties and other characteristics.</p>	
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<p>Porous Coordination Polymers for Gas Absorption</p>	<p>This project involves designing and synthesising porous coordination polymers, followed by careful delineation of their structural characteristics and pore size distribution.</p>	
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<p>DynaBraille: On-finger Braille Feedback for Handheld Touchscreen Devices</p>	<p>This research project hopes to develop a finger-mounted prototype capable of providing simultaneous multipoint output to the fingertip. The additional challenges related to the translation of content to Braille will be investigated. Other interactive elements will also be examined such as buttons and colour-coded content that are commonly used to provide inputs to the handheld device.</p>	 
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Project	Project Description	UNSDGs
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Touch it and Feel it?
Modelling of 3D Haptic-Audio Virtual Objects to Counter Internet Browsing Limitations for the Visually Impaired

The project will investigate the blind and visually impaired human's perception of using haptic and audio feedback for internet browsing. Audio feedback helps users navigate the virtual environment and render 3D virtual objects and haptic feedback such as weight and texture. The research work will explore the benefits and barriers of internet use for the visually-impaired in Malaysia and the surrounding region.



<p>A New Smart User Interface Technology for Manipulation of Force Feedback Mobile Tele-robotic Architecture</p>	<p>The project aims to design a robotic hand that can be used in medical telerehabilitation. This technology will help patients recover and have better health.</p>	
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Design of a Haptic Dictionary in Virtual Reality for Visually Impaired People

This research project explores using a haptic device to develop a haptic dictionary that can be used by the visually impaired to obtain new knowledge. This innovative creation allows haptic technology to create the concept of learning by experiencing.



<p>Development of inactivated EV-A71 vaccine by Electron-beam radiation in comparison with Gamma radiation</p>	<p>This project focuses on the development of an inactivated EV-A71 vaccine by gamma-irradiation and electron-beam irradiation.</p>	
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Identification of microRNA (miRNA) as potential therapeutics for dengue

The research focuses on analysing the therapeutic potential of miRNAs for dengue in vitro and vivo studies.



Sunway Berhad Initiatives

Summary Description

UNSDGs

Development of Sunway City: from a wasteland into a wonderland

Sunway rehabilitated 800 acres of abandoned and disused mining pools, transforming what had been a wasteland into a wonderland. It is now home to a thriving community of more than 200,000 people living, working, playing and studying in a safe, healthy and connected environment.



Integrated townships including Sunway City Kuala Lumpur, Sunway City Ipoh and the upcoming Sunway Iskandar

With an aim of delivering sustainable socio-economic value, Sunway continues to deliver five elements of developments in its townships including integrated security, amenities, connectivity, ambience and community.



Anti-smoking policy in Sunway City Kuala Lumpur

Sunway aims to protect members of the public from exposure to second-hand smoke to create a healthier, cleaner and safer environment for everyone. Letters of empowerment have been awarded to a team of Sunway's trained auxiliary police. From 16 September 2018, they were authorised to issue summons to those caught smoking in no-smoking zones.



#thelaststraw campaign

With the launch of #thelaststraw campaign, Sunway University has banned single-use plastic straws and out free multi-use metal straws to the students.



EcoWalk, powered by its own solar panels

The elevated walkways that we have built and continue to construct help mitigate traffic congestion, EcoWalk is a 350m long elevated walkway which connects Menara Sunway, Sunway Lagoon Club, Palm Ville Condominium and Sunway Medical Centre. This connectivity aims at reducing carbon emissions and promote public health by providing safe and secure pathways for use by the residents and public.



Sunway iLabs in fostering entrepreneurship and stimulating market-driven innovations

Launched in 2017, Sunway iLabs is a non-profit incubator and accelerator that is a smart partnership between Sunway University, Sunway Group and its corporate venture capital arm, Sunway Ventures. Sunway iLabs intends to foster entrepreneurship and stimulate market-driven innovations to drive the nation's competitiveness. It is also a Malaysian Digital Hub™



RMI billion on the expansion of Sunway Group's Healthcare Division

Sunway Group's Healthcare Division is embarking on an expansion plan that includes the construction of new hospitals throughout Malaysia. The Group will invest approximately RMI billion in building new hospitals in its integrated townships of Sunway Velocity (Klang Valley); Sunway Damansara (Klang Valley); Sunway Medical Centre at Seberang Jaya (Penang); Sunway City Ipoh (Ipoh); Sunway Iskandar (Johor) and Sunway Valley City (Paya Terubong, Penang).



New Yunus Social Business Centre (YSBC) at the Sunway Education Group

In 2018, Nobel Laureate and Founding Chairman of Yunus Centre, Professor Muhammad Yunus, signed an MoU with Sunway Education Group Founder and Founding Trustee of the Jeffrey Cheah Foundation, Tan Sri Dr Jeffrey Cheah AO. This agreement covers establishing a YSBC in the Sunway City campus. Establishing the YSBC in Sunway Education Group will boost entrepreneurship for sustainable socioeconomic development, especially for the poor and less privileged in Malaysia. This collaboration will explore education, research, information gathering and action plans.



Sunway WiFi across the 800-acre township of Sunway City

Sunway officially launched Sunway WiFi across its 800-acre township of Sunway City Kuala Lumpur in April 2018. This free WiFi service is Sunway's biggest endeavour yet and can connect up to 25,000 users at any one time. Sunway City Ipoh and Sunway Iskandar in Johor will soon follow.



Advancing the nation's construction industry through a Memorandum of Understanding with Malaysia Productivity Corporation (MPC) on the development of a 5S Manual and Assessment

Sunway Construction signed a Memorandum of Understanding (MoU) with Malaysia Productivity Corporation (MPC). The MoU covers the development of a 5S Manual and Assessment Criteria that will become a new standard in Malaysia's construction industry.



Lake rehabilitation project at Sunway Lagoon lake

Excess nutrients in Sunway Lagoon Lake were causing it to slip into a eutrophic state, which can result in algae blooms. A water pump was installed just above the sediment layer to discharge nutrient-rich water. This is one of the actions that helped maintain the lake in a mesotrophic state.



Sunway Berhad Initiatives	Summary Description	UNSDGs
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Sunway Quarry's landscape rehabilitation	Hydroseeding is a key component of Sunway Quarry's landscape rehabilitation plan. A viscous mixture of seeds, water, fertiliser and natural fibres are sprayed, which help to protect the seeds until germination.	
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Sunway Hotels & Resorts Soapful Initiative	Soapful is an initiative by Sunway Hotels & Resorts in collaboration with Ecolab Sdn Bhd, Kinder Soaps Sdn Bhd and Selangor Youth Community (SAY). Soap is repurposed to help communities in need. Sunway's hospitality division collects used raw bars of soap from all hotels. The soap is sent to the home where Kinder Soaps teach children how to repurpose soap themselves.	 
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The Jeffrey Cheah Foundation (JCF) in championing education	In 2018, JCF disbursed RM72 million worth of scholarships to more than 3,000 students. This is the highest scholarship disbursement amount since its inception in 2011.	
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Sunway Food Programme	Sunway Food Programme includes our three flagship community projects such as Zero Food Wastage, Rise Against Hunger and Share Because You Care. Sunwayians come together to fight against hunger and poverty by collaborating with various NGOs.	 
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Promoting an inclusive culture, diverse talent and inspiring innovation at the workplace	We are committed to building a culture, workplace and environment that is engaged and healthy. Sunway strives for excellence in everything it does from delivering quality products to developing its most important asset — its people.	  
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Founding chair of 30% Club Malaysia, 'ReTHINK Leadership' conference organised by LeadWomen	The 30% Club is a group of chairmen and business leaders who are committed to bringing more women onto Malaysian corporate boards. Tan Sri Dr Jeffrey Cheah AO has been appointed as Founding Chair of Malaysia's 30% Club. Various initiatives have been introduced within the Group to promote women empowerment and equal opportunity at the workplace.	 
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For further information, please contact

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