



5th Facility Management Asia Conference 2026 · Kuching, Sarawak

Sustainable Facility Management Yielding Good Return on Investment

A Case Study: Sunway Group of Companies

Malaysia Association of Facility Management

Based on Sunway Sustainability Reports 2024–2025 & Sunway REIT Integrated Report 2025

Presentation Structure

OVERVIEW

01 About Sunway Group

02 The Business Case

03 Environmental ROI

04 Financial ROI

05 Social & Governance ROI

06 FM Co-option at Design Stage

07 2030 Goals & Key Lessons

About Sunway: 50 Years of Build-Own-Operate

01 ABOUT SUNWAY GROUP

RM38B

Market Cap

14,272

Employees

13

Divisions

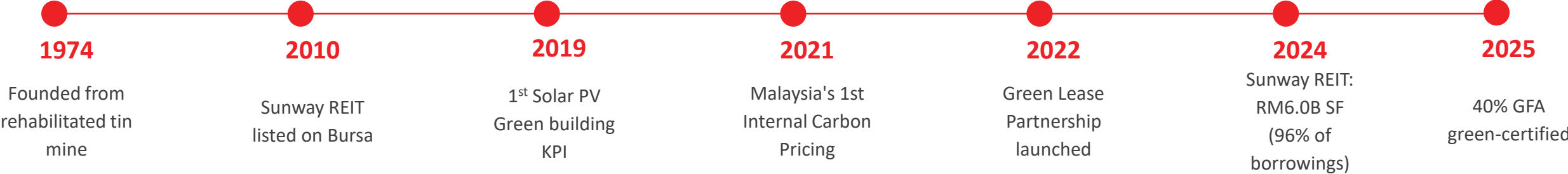
50+

Locations

RM14.4B

AUM

Key Milestones



The Build-Own-Operate (BOO) Difference

Sunway designs, builds, owns AND operates thus aligning FM incentives under one roof. FM teams are mandatory at the design stage, embedding sustainable features from day one. Green Building Index data show that green building design adds 0.7–11% upfront construction cost. Retrofitting the same features after construction is significantly more expensive, with costs further increased by operational disruption, occupancy constraints, and regulatory compliance requirement.

Sunway REIT: The BOO Portfolio in Numbers

01 ABOUT SUNWAY GROUP

Retail

14 properties
(incl. 7 hypermarkets)
Sunway Pyramid, Carnival,
Putra Mall

Hotels

6 hotels
Sunway Pyramid Hotel:
GreenRE Platinum (Dec 2025)
Putra Hotel: GreenRE Gold

Offices

5 properties
3 of 4 labelled offices:
5-star BEI
(Suruhanjaya Tenaga 2024)

Industrial & Others

3 properties
78% green lease
participation
(up from 40% in 2024)

28 Total Assets

RM10.2B Property Value

RM7.9B Market Capitalisation

1,728 Tenancies

40% GFA Green-Certified

Top 3 M-REIT Ranking

Sustainable FM Delivers Returns Across Four Dimensions

02 THE BUSINESS CASE

Environmental ROI

- Reduced energy costs
- Lower carbon liability
- Water savings
- Avoided regulatory fines

Financial ROI

- Premium rent — green assets
- Lower borrowing costs (SLL)
- Higher asset valuations
- Better distribution yields

Social ROI

- Higher tenant retention
- Reduced staff turnover
- Community goodwill
- Brand premium

Governance ROI

- Regulatory readiness (EECA)
- ESG rating uplift
- Access to capital markets
- Climate risk mitigation

Sunway's approach: Sustainability is not a cost center. It is the foundation of long-term value creation

Environmental ROI: Energy & Carbon

03 ENVIRONMENTAL ROI

FM Energy Infrastructure Investments

RM3.8M

Menara Sunway

Lift replacements

RM6.8M

Sunway Pyramid Mall

Escalator, ACMV & full LED conversion

RM14.7M

Sunway Carnival Mall

Escalators, lifts, LED & ACMV — New Wing

Solar PV: 12,040 MWh → 9,319 tCO₂e avoided (REIT 2025)

Sunway Berhad Group 2025: 21,828 MWh renewable energy consumed

Key Outcomes

All divisions

met energy intensity targets (2024)
(Sunway Berhad Group — all business divisions)

5-star BEI

Sunway Pinnacle, Sunway Tower, Wisma Sunway
(Source: Sunway REIT SR 2024)

4-star BEI

Menara Sunway — Suruhanjaya Tenaga
(Source: Sunway REIT SR 2024)

Carbon Tax Ready

25,944 tCO₂e avoided (retail div. total energy efficiency) → RM1,945,829
if RM75/tonne carbon tax applied (Sunway Berhad SR 2024)

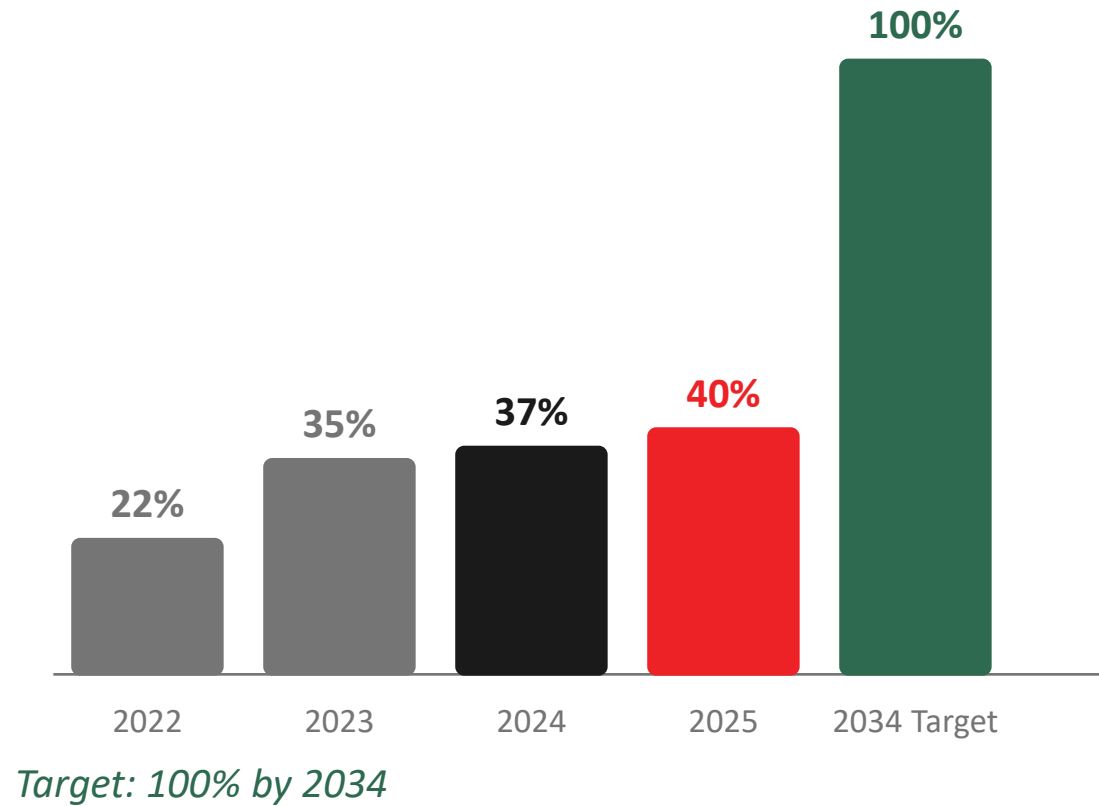
RM5.6M saved

Cumulative SL finance cost savings (2021–2025)
RM3.4M at end-2024 · Source: REIT SR 2025

Environmental ROI: Green Building Roadmap 2034

03 ENVIRONMENTAL ROI

GFA Certification Progress



2025 New Certifications

Platinum

Sunway Pyramid Hotel

Platinum

Sunway Putra Tower

Gold

Sunway Carnival Mall (New)

Gold

SREIT HMkt – Putra Heights

Silver

SREIT HMkt – Ulu Kelang

Premium rents · Lower lifecycle costs · Gate-keeps new acquisitions (2024 policy)

Financial ROI: Sustainable Finance & Capital Markets

04 FINANCIAL ROI

RM4.6B

Sustainable Finance

Sunway REIT

96%

of all REIT borrowings
under sustainable finance

Linked to 2 FM metrics:

Building Energy Intensity (BEI)

Annual RE Generation (MWh)

Source: REIT SR 2025

Malaysia Capital Market Firsts — 2024

1st M-REIT

Rated SL Medium Term Notes

RM400M · July 2024 · First rated SL-MTN by a REIT in Malaysia

1st Malaysia

Rated SL Perpetual Bonds

RM500M · Oct 2024 · First SL perpetual bonds in Malaysia;
first rated perpetual bonds by a Malaysian REIT

GOLD

RAM Sustainability Framework

Gold Sustainable Finance Rating awarded by RAM Sustainability Sdn Bhd

Sources: Sunway REIT IAR 2024; SUNREIT press release 22 Oct 2024; RAM Sustainability 23 Aug 2024

FM Performance

Yields:

RM5.6M

Cumulative finance cost
savings — 2021 to 2025

RM3.4M at end-2024



RM5.6M at end-2025

Direct return from:

BEI improvement

+

Solar RE generation

Source: REIT SR 2025

Financial ROI: Investor Returns & REIT Outperformance

04 FINANCIAL ROI

31.2%

Total Return FY2025
vs sector avg 10.7%

Source: SUNREIT Q4 2025 Presentation; IAR 2025

14.48 sen

DPU FY2025
+44.8% year-on-year

Source: SUNREIT Q4 2025 Results; The Edge, 29 Jan 2026

RM894M

Net Property Income
FY2025

Source: SUNREIT Q4 2025 Presentation, 29 Jan 2026

6.3%

Distribution Yield
vs sector avg 5.8%

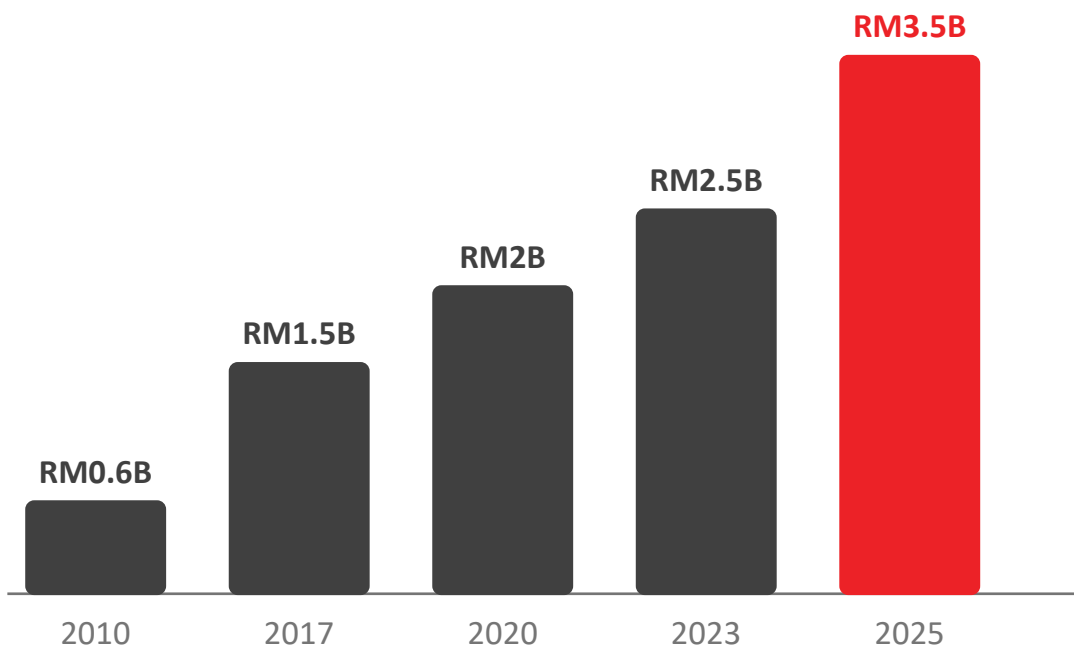
Source: SUNREIT Q4 2025 Presentation, 29 Jan 2026

51.9%

Premium to NAV
(FY2024: 22.1%)

Source: SUNREIT Q4 2025 Presentation; IAR 2025

Revenue Growth (RM billion)



The Sustainable FM → Value Creation Chain

- FM invests in energy efficiency & green certification
- BEI improves + RE generation grows → SL finance KPIs met → lower cost of debt
- Green assets attract premium tenants & higher rents
- Higher NPI → better distribution per unit
- Strong ESG ratings attract institutional capital
- Unit appreciation + yield = 31.2% total return

Social ROI: People, Tenants & Community

05 SOCIAL ROI

Green Lease Partnership

- 92% retail tenant participation
- 96% office tenant participation
- 100% hotel master lessee
- 78% industrial & others
- First Green Lease Partnership Programme by a REIT in Malaysia (2022)

Workforce & Safety

- 14,272 employees
- Zero fatalities (2024)
- 65% employee retention
- 66 avg learning hrs/employee

Community & Social Impact

- 84,121 beneficiaries (2025)
- RM7.38M CSR (2025, Sunway Group)
- 900+ volunteers, 3,900+ hours
- 2M+ packed meals since 2014

Sunway's Integrated Township: FM manages not just buildings but entire sustainable communities

Governance ROI: Regulatory Readiness

05 GOVERNANCE ROI

Getting ahead of regulation is cheaper than catching up to it. Sunway tracked BEI since 2019 — when the EECA made it mandatory in 2025, our offices already labelled, three at 5-star. When Malaysia's carbon tax arrives in 2026, we have priced carbon internally at RM15 per tonne since 2021. Readiness is not luck. It is five years of decisions made before the deadline existed.

2022

OSH Amendment Act 2022

Mandatory OSH Coordinators; higher penalties

✓ Appointed OSH-C; 74% staff OHS-trained

2025

Energy Efficiency Conservation Act (EECA)

BEI labelling mandatory for large buildings

✓ 4 offices labelled; 3 achieved 5-star

2025

National Sustainability Reporting

IFRS S1/S2 mandatory for PLCs

✓ First M-REIT to adopt full IFRS S1 — ahead of all

2026

Malaysia Carbon Tax

RM75/tonne; expanding scope

✓ Internal carbon pricing operational since 2021

ESG Ratings: MSCI 'A' · GRESB 4-star · FTSE Russell Top 8% · RAM Gold · GreenRE SDA Award 2024/2025

Technology & Innovation: The FM Accelerator

05 INNOVATION

Smart Building Management

- BMS with IoT sensors across portfolio
- Energy & HVAC monitoring; asset-level water metering; periodic IAQ audits (9 properties since 2022)
- Automated chiller & AHU optimisation
- LED with motion sensors

Sustainable Energy

- District Cooling (thermal storage)
- Corporate Green Power (VPPA)
- NEM rooftop solar PV across portfolio
- Large-scale solar EPCC capability (SunCon)

Digital FM Operations

- Cloud migration & app modernisation
- AI-powered operational transformation
- Big data for smart township management; Integrated Operations Center
- Digital Innovation Programme 2.0

Circular Economy & Water

- 438,500+ m³ water recycled (2024, Sunway Group)
- 52% waste diverted from landfills (2025, Sunway Group)
- XFarms: vertical farming in buildings
- Water Crisis SOP across all managed properties

Co-opt FM early. Build performance in from Day 1 and not bolt it on later

FM Co-option at Design Stage: The Policy Foundation

06 FM AT DESIGN STAGE

The Cost of NOT Co-opting FM: Why does a car park run mechanical ventilation 24 hours a day for 50 years? Because nobody asked the FM team at concept stage.

Sunway's Three-Policy Framework

Green Building Policy (April 2025)

- FM mandatory at design concept stage — not advisory
- All new buildings: GreenRE / GBI from 2025
- New acquisitions certified at purchase or within 3 years
- Sustainability integrated from concept to O&M

Green Township Policy

- 100% walkable — covered links in master plan
- 40% greenscapes reduce heat → lower cooling load
- EV bays & public transport links built in
- CPTED: security in landscape — reduces OPEX

Lifecycle Cost Analysis (2025)

- All M&E: 20–30 year whole-life cost evaluation
- Capital savings cannot override FM efficiency
- Green materials specified in construction contract
- ICP RM15/tonne CO₂e makes high-carbon costs visible

In Sunway's BOO model, every design decision becomes tomorrow's operating cost, so it pays to get it right from the start.

FM Co-option: Stage by Stage Process

06 FM AT DESIGN STAGE

Requirements Stated For Illustration Only

PRE-DESIGN & BRIEF	SCHEMATIC & CONCEPT	DETAILED DESIGN & M&E	CONSTRUCTION & COMMISSIONING	OPERATION & IMPROVEMENT
● FM sets OPR: energy, water, maintenance targets ● 15-factor Sustainability Due Diligence ● Climate VaR for all acquisitions	● OTTV <50 W/m² permanent cooling reduction ● Orientation & passive shading for FM energy impact ● Solar PV readiness designed in from start	● VVVF lifts: up to 50% energy savings ● LED + motion sensors as standard base build ● BMS integration points fully specified	● SunCon design & build: single point accountability ● All 28 sites ISO 14001:2015 compliant ● FM in Defects Liability Period — verifies OPR	● BMS from Day 1: 3.5–4% annual BEI reduction ● Annual Asset Enhancement Initiative (AEI) ● Lessons learnt feed next project OPR

FM is embedded from the start because the BOO model aligns design with operations

What Gets Built In & The Continuous Improvement Loop

06 FM AT DESIGN STAGE

FM-Driven Design Requirements

Energy Systems

- OTTV <50 W/m² building envelope
- VVVF lifts with sleep mode
- BMS sub-metering by zone
- Solar PV-ready roof & risers
- LED + motion sensors

IEQ & Wellness

- Low-VOC materials throughout
- Natural car park ventilation
- Periodic IAQ audits (9 properties since 2022)
- Green Township Policy: 40–55% green spaces (township level)

Water & Resilience

- Water-efficient fittings — base build
- Rainwater/lake harvest infrastructure
- Recycling bays sized into base build (per Green Building Policy)
- Water Crisis SOP across all properties

Mobility & Future

- EV charging infrastructure
- Covered links to public transport
- Climate VaR-informed flood risk design
- Green fit-out guide for tenants

The Continuous Improvement Loop

1

BMS Data — Day 1

Energy & HVAC; asset-level water metering; sub-metering by zone

2

Benchmark vs. Targets

3.5–4% annual BEI reduction; GRESB tracked

3

Annual AEI Programme

e.g. RM3.8M + RM6.8M + RM14.7M in M&E upgrades (REIT SR 2024); lifecycle ROI

4

Green Lease Feedback

96% office, 92% retail data + IAQ audits

5

Feed Back to Next Brief

OPR updated; design standards improved

Sunway 2030 Sustainability Goals: The FM Framework

07 GOVERNANCE

Goal 1

Driving Carbon Reduction

Net zero 2050; 45% GHG reduction by 2030

FM Role

Energy audits, BEI, solar PV, ACMV upgrades, green certification

Goal 2

Responsible Value Chain

100% supplier ESG; Green Lease Partnership

FM Role

Tenant engagement, supplier risk, simplified ESG guidelines

Goal 3

Safe & Dignified Workforce

Zero fatalities; ISO 45001 — all sites compliant, 67% certified

FM Role

OHS programmes; 66 avg learning hours/employee (FY2025)

Goal 4

Community Inclusivity

>1.4M cumulative beneficiaries (2015–2025); RM7.38M CSR (FY2025)

FM Role

Urban poverty programmes, volunteers, community infrastructure

Goal 5

Transparency & Excellence

IFRS S1/S2 (FY2025); MSCI 'A'; GRESB 4-star; FTSE Russell top 8%; RAM Gold

FM Role

Sustainability data collection; ESG KPIs driving performance ratings

When FM performance affects executive incentives, sustainability becomes a boardroom priority.

Key Lessons: Building a Sustainable FM Industry in Malaysia

07 KEY LESSONS

Malaysia's infrastructure pipeline — green energy, digital economy, industrial, transit, urban development — will require professional FM for decades. The foundations being laid today will determine operational costs for the next 50 years.

1

Co-opt FM at Design Stage

Mandatory in every project brief. Designing green adds just 0.7–11% upfront — and keeps you ahead of regulation before enforcement costs compound.

2

Establish Internal Carbon Pricing

RM15/tonne CO₂e. Ready for Malaysia's 2026 carbon tax.

3

Green Building Roadmap from Day 1

GreenRE Silver as minimum for all government & GLC buildings.

4

Link FM Performance to Finance

Sustainability-linked loans available in Malaysia today.

5

Build Digital FM Capability

Design BMS & IoT into the construction contract.

6

Engage Tenants via Green Leases

Sunway: 96% office participation within 3 years.

The ROI Summary: Sunway's Sustainable FM Returns

07 ROI SUMMARY

Environmental 7% below BEI target Retail BEI: 288 vs target 310 kWh/m²/yr (FY2025)	Environmental 9,319 tCO₂e Emissions avoided by solar (FY2025)	Environmental 40% GFA green-certified (100% by 2034)	Financial RM4.6B Sunway REIT sustainable finance (FY2025)
Financial RM5.6M Cumulative SL finance cost savings (2025)	Financial 31.2% Total return FY2025 vs avg 10.7%	Social 96% Green Lease office tenants	Governance Zero Workplace fatalities 2024–25

Sunway's evidence: Sustainable FM is not a cost. It is a long-term value multiplier



The Opportunity Before Us

Malaysia stands at the beginning of a sustained infrastructure build-out.
Every building that rises will require professional FM for its entire lifetime.
The time to establish the right foundations is now.

Co-opt FM at Design Stage

Mandatory for all new builds from
day one

Adopt Green Building Standards

GreenRE/GBI minimum for all new
builds

Invest in FM Talent

Partner with MAFM, universities
& technical colleges

"Sunway was built on a tin mine. Malaysia's FM industry can be built on a foundation of sustainable excellence."

Thank you · Malaysia Association of Facility Management · 5th FMAC 2026, Kuching, Sarawak