



ERERGY EFFICIENCY MATIONAL PARTNERSHIP

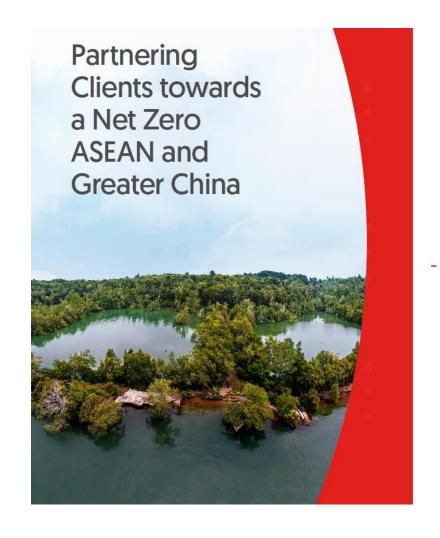
Financing Energy Efficiency

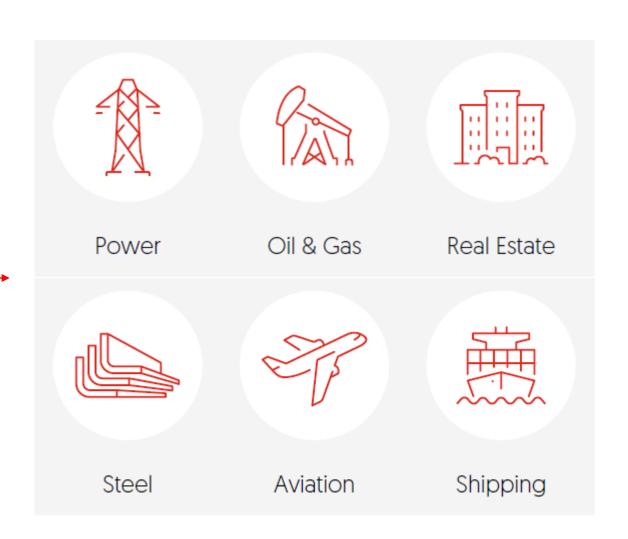
Ar. Benjamin Henry Towell





OCBC Net Zero Targets





We Scale Impact to facilitate all companies' transition

Making it Easy for SMEs

SME Sustainable Finance Framework



Focused on making it easy for access to green finance for SMEs as a solution adopter, or solution provider



>600 SMEs have benefitted from the SME sustainable finance framework in their Green Journey

SME Framework Categories

To improve sustainability literacy and facilitate action













Climate Adaptation



Pollution Prevention and



Sustainable Water 8 Wastewater Management



Sustainable Management of Living Natural Resources and Land Use



Circular Economy

Collaborating with Partners & Developing Tools

To improve sustainability literacy and facilitate action















Developing an Ecosystem Approach

Banking on Our Enablers

To drive impact for all of our customers



Solar Developers





Energy Service Companies (EaaS/ ESCO / CaaS)

Electric Transport / Infrastructure







Circular solution providers

Biofuels / Alternative fuels

OCBC Solar Financing Programme

A first of its kind for SMEs

Providers

- Finance commercial projects against Power Purchase Agreements ('PPA')
- ZERO capex contract for SME building owners with lower energy costs
- Help customers monetise their RECs through GoNetZero



Showcasing Success

Education and Outreach

Sharing customer success stories, technical advice and best practices



Thought leadership & Articles



Customer centric sustainability webinars



Sharing customer stories



In-house Industry & Sector expertise

OCBC Emerging Enterprise Award

Recognising the future leading businesses and helping them scale

- Asia's leading business awards for SMEs and startups
- Annual awards held since 2008 jointly organised by the **Business Times and OCBC**
- Celebrate and recognize emerging SMEs with business innovation, resilience excellence and sustainability.

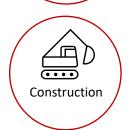


Energy Efficiency is a key needle mover in all industries





Food









Decarbonisation of manufacturing process

Decarbonisation

Outlets and processes

Decarbonisation of

Construction process

Decarbonisation of

Property

Decarbonisation of fleet

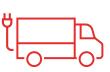
& shipyards



% Green Projects / products



ESG certification



Electrification of **Delivery Fleet**



Responsible Procurement / sources



Responsible Procurement / sources



% Green Projects

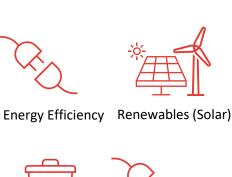
Green Building

Certification



Responsible Procurement / sources











Energy Efficiency



Electrification of cooking / processes



Biofuel





Site Electrification

Energy Efficiency



Energy Efficiency

Renewables (Solar)

Electrification

Fugitive Emissions



Biofuel



Vessel

Energy Efficiency Electrification



Future (H2)



Energy Efficiency is a key needle mover in all industries







manufacturing process



% Green Projects / products



ESG certification



Waste

Management



Energy Efficiency Renewables (Solar)







Outlets and processes



Electrification of **Delivery Fleet**



Responsible Procurement / sources



% Green Projects



Responsible Procurement / sources



Biofuel

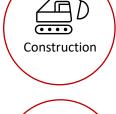


Energy Efficiency

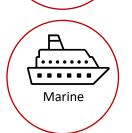
Site Electrification



Energy Efficiency



Real Estate







Decarbonisation of

Construction process

Decarbonisation of Property



Green Building



Responsible Procurement / sources



Energy Efficiency



Renewables (Solar)



Electrification



Fugitive Emissions



Decarbonisation of fleet & shipyards







Vessel Electrification



Energy Efficiency



Future (H2)

Energy Efficiency is a key needle mover in all industries















Outlets and processes

Decarbonisation of

Construction process



% Green Projects / products



ESG certification



Electrification of **Delivery Fleet**

% Green Projects

Green Building

Certification



Responsible Procurement / sources



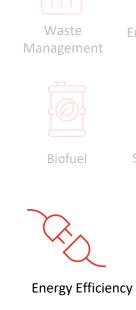
Responsible Procurement / sources







Responsible Procurement / sources





Renewables (Solar)

Site Electrification

Energy Efficiency



Electrification

Energy Efficiency

Electrification of

cooking / processes



Decarbonisation of Property



Decarbonisation of fleet



Vessel

Electrification

Energy Efficiency Renewables (Solar)



Energy Efficiency

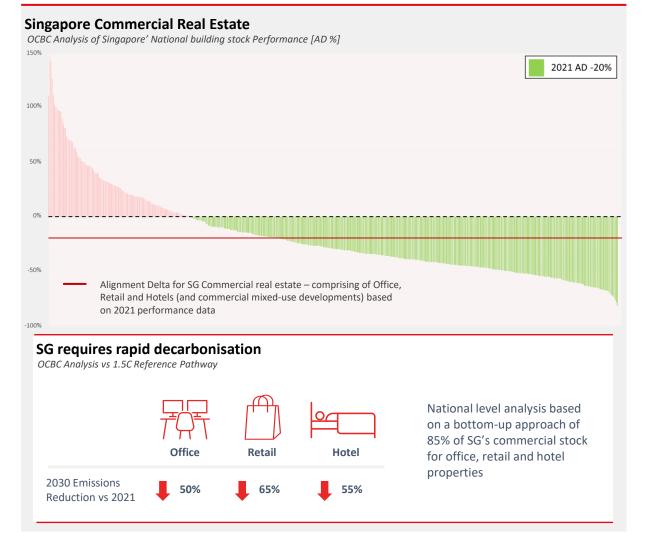


Future (H2)

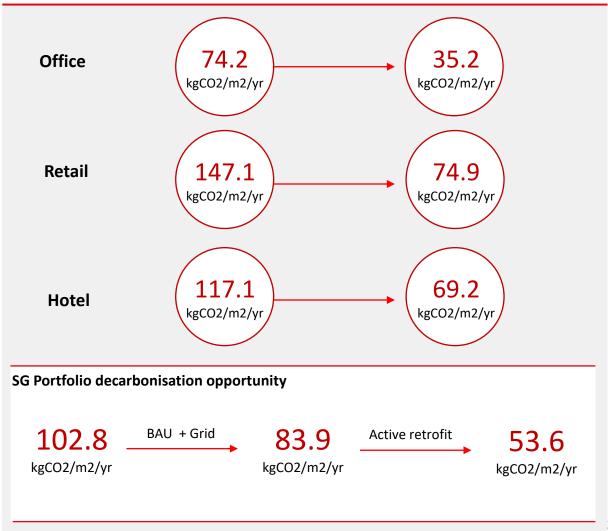
Overview of Singapore Commercial Property

We have assessed the performance of Singapore's commercial real estate, based on office, retail and hotels.

Today Singapore has a good starting point, our sector is 20% below the 1.5C reference pathway,

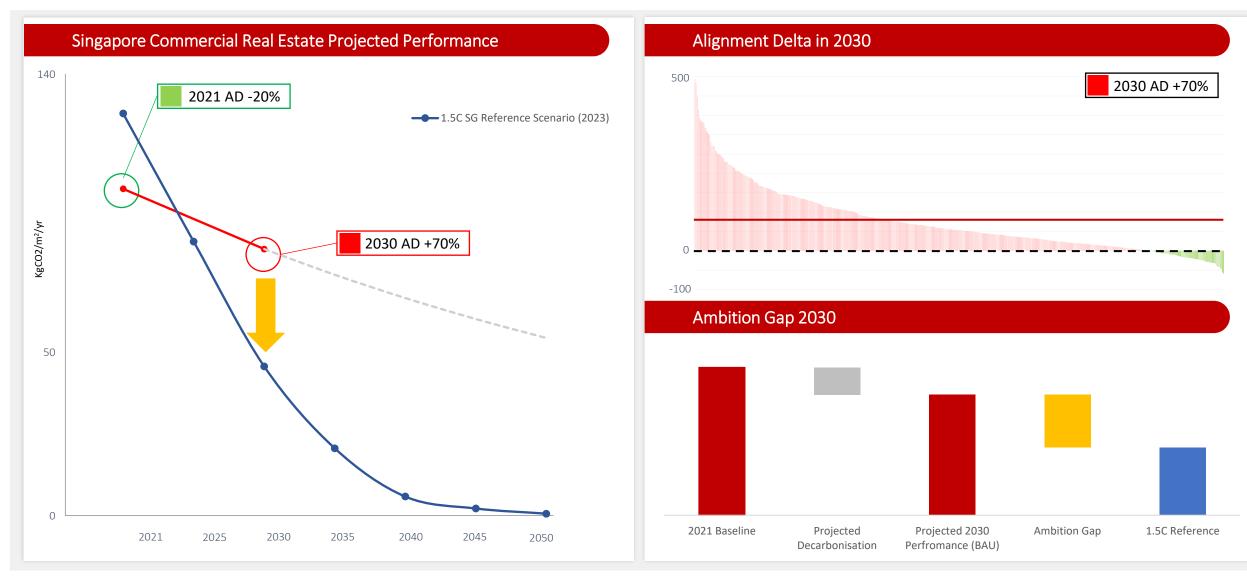


Furthermore, there is great scope to improve the sector's performance through deep Energy Efficiency Actions to 2030



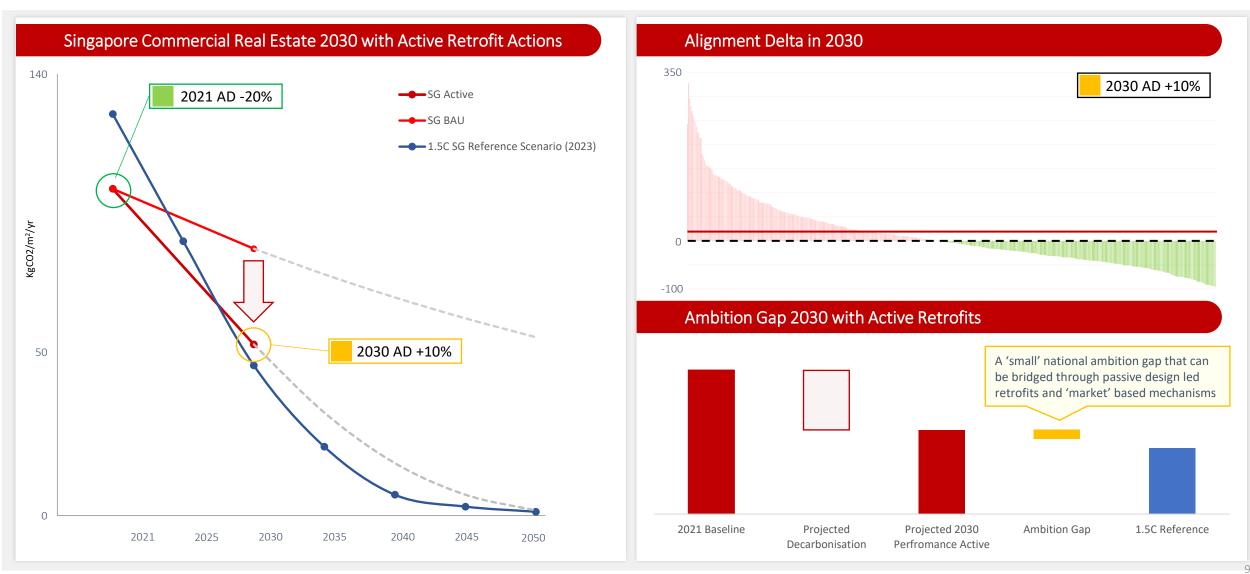
Projecting the sector to 2030 we see there are potential gaps

Based on the analysis of projecting forward historic trends, including increasing standards, and grid decarbonisation – SG will fall short of being 1.5C aligned without Energy Efficiency improvements



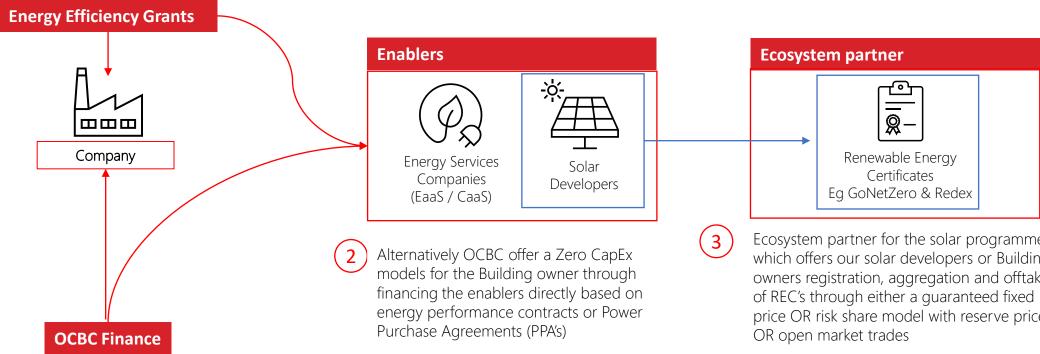
With Active (best in class) retrofit actions for ALL properties

It is possible for SG to bridge the gap to 2030 1.5C alignment, based on OCBC's detailed analysis.



Allowing us to actively finance Energy Efficiency

Partnering with solution providers, enablers and public sector agencies.



OCBC Finance the Company directly for their energy efficiency works. Or provides sustainability linked facilities partnering companies to meet their efficiency objectives

> Will link the company up with trusted partners / enablers for the works

Example OCBC's unique Solar Finance Programme - financing solar providers to offer PPA's through OCBC's unique finance mechanism with solar developers.

Example 2 financing EaaS solutions providers who offer end to end energy efficiency projects paid back through the share of the cost savings from energy savings.

Ecosystem partner for the solar programme which offers our solar developers or Building owners registration, aggregation and offtake price OR risk share model with reserve price

Technology and Tool partners



Technology Providers Eg Evercomm & Univers

Measurement, benchmarking calculation and optimisation platforms and tools to manage energy performance and carbon reporting. Includes ESBN, GCNS, BCA (SMEEA for strata title units)

Partnering our clients on their energy efficiency and decarbonisation journey through the use of an SLL



Its not just financing 'Green' but managing climate risks

Using climate scenarios to create a view of the impact on companies' long term viability

What

- Scenarios that project pace of regulation, rate of technology development and consumer preferences.
- Projects Emissions intensities, Temperatures, Carbon prices...



Orderly Transition (Net Zero 2050)

Early & decisive action from governments, companies and consumers. Limits warming to 1.5C



Disorderly Transition (Net Zero 2050)

Action delayed to 2030 using carbon budget leading to significant catch up and disruption to 2050. Limits Warming to 2C



Hot House World (BAU)

Governments fail to introduce policies to address climate change other than those already announced. Paris climate targets are not met. +3 to +4C

How

- From the scenario outputs projects the impact of the transition and to a lesser extent the physical risks to companies
- Assesses shift in:

Cost

Higher baseline emissions – higher costs (based on carbon price)

Revenue

Can the company pass on costs (in form of higher prices)?

Revenue decreases as high price reduces demand

Capital Expenditure

Higher baseline emissions = greater investment to reduce emissions inline with scenario

Asset Value

Impairment costs (e.g. real estate exposure to physical risks, coal power plants with transition risks)

It is critical banks bring this together

This will move capital to where it is needed, and make a real world difference

From climate stress tests of the banks balance sheet to net zero commitments for financed emissions, this moves beyond traditional banking and will form the strategy and frame the viability for companies and projects and their long-term relationships.



