Climate Resilience & Sustainable Financing

ESG for the Built Environment

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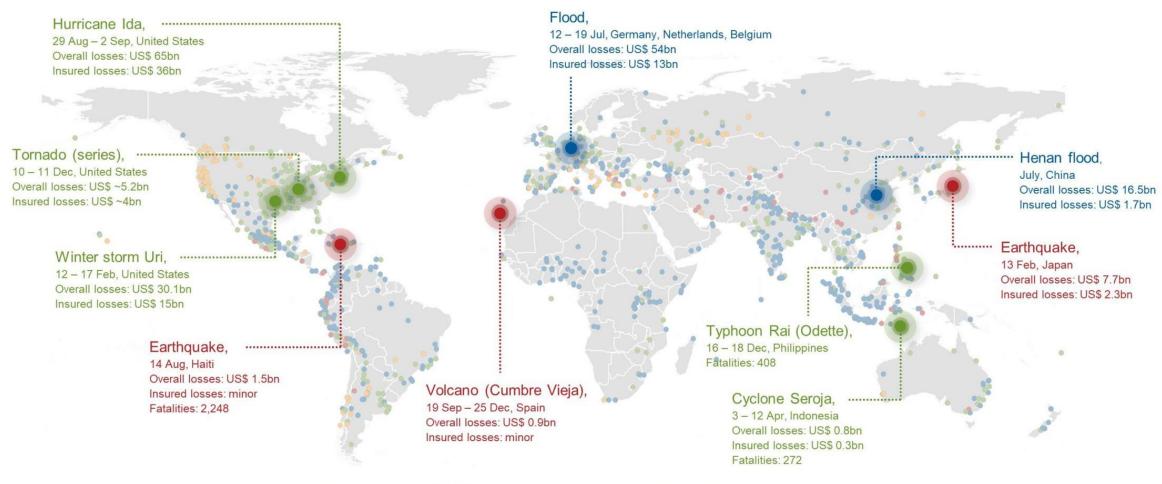
19 October 2022





Natural disasters caused worldwide losses of US\$280bn in 2021

Economic damages caused by natural disasters in the APAC region reached US\$22bn in 1H22









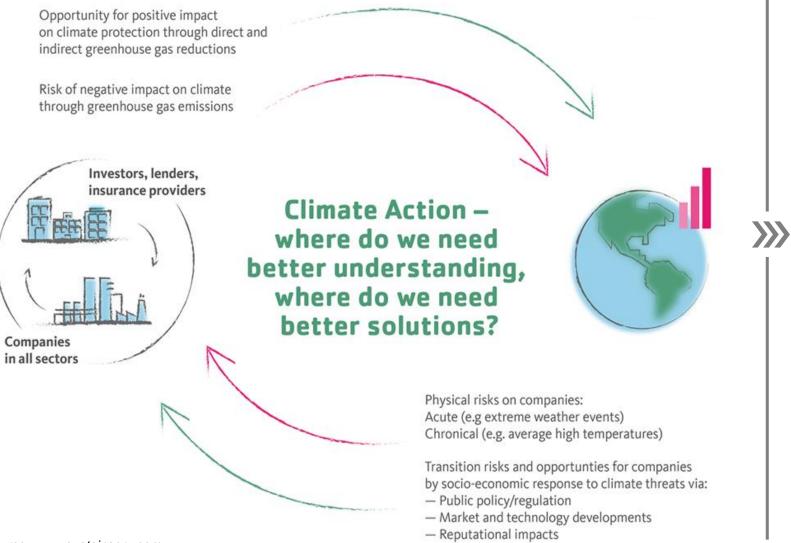


- Significant catastrophes
- O Small, medium and large loss events

Source: Munich Re, NatCatSERVICE, 2022

The call for collective climate action

Financial institutions are a key enabler and local regulators increasingly require financial institutions to manage impacts arising from climate-related risks









The JC3 platform was established in September 2019 to pursue collaborative actions for building climate resilience within the Malaysian financial sector.

Bank Negara Malaysia's policies & guidelines:

- Climate Change and Principlebased Taxonomy (CCPT)
- Climate Risk Management & Scenario Analysis (CRMSA)
- > Task force on Climate-related Financial Disclosures (TCFD) **Application Guide**
- 2024 Climate Risk Stress Test

Source: www.sustainserv.com

The implication of physical and transition risks on real estate

	Physical Risks More frequent & severe adverse natural events Storms, floods, landslides, droughts, wildfires Rising average sea levels & temperatures		Transition Risks	
			 Changes made in response to climate issues Economy, regulation, consumer preferences, technology, and other human responses 	
	Direct effect	Indirect effect	Direct effect	Indirect effect
Revenue	Operational disruptions due to severe / repeated physical-hazard events	Reduced demand due to logistical / transportation infrastructure disruptions	Carbon-intensive asset is unattractive to climate-committed occupiers	Lower demand / occupancy from decline in local economy or sector
Operating costs	Increased maintenance costs	Increased credit / insurance costs – adjusted underwriting models	Increased utility costs given carbon-intensive building systems	Carbon charges due to local regulations
Capital costs	Investments to improve building resilience	Increased investments to protect broader communities	Investments in lower- emissions building materials to meet local standards / tenant demands	Increased financing costs market-level transition risks are priced in
Capitalisation rate	Changes due to market parti	cipants' perceptions of physic	al & transition risks	

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Material ESG influences across the Built Environment Lifecycle

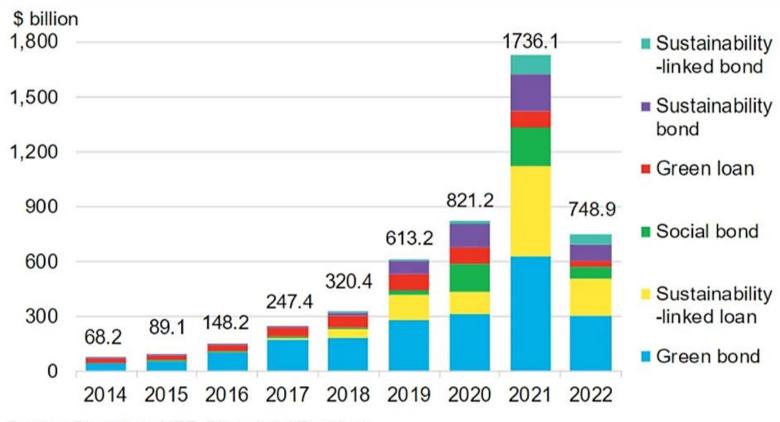


Source: Based on the Institute for Human Rights and Business (IHRB) Dignity by Design Report, 2019

Construction workers' rights, building safety, responsible sourcing of materials

Sustainable Financing has grown exponentially

Annual Sustainable Debt Issuance



Source: BloombergNEF, Bloomberg Terminal.

- Volume of sustainable debt issued surpassed USD1.7 trillion in 2021
- Sustainability-linked bonds and loans quadrupled in size year-on-year.
- In developed APAC (excluding China) markets, the real estate sector dominates the domestic sustainable finance market
- USD750 billion of sustainable debt instruments were issued in the first half of 2022, where green bonds made up 41% (>USD300 billion)



OCBC Malaysia's MOU with Bursa Malaysia

KUALA LUMPUR (Nov 18): Exchange

operator and regulator Bursa Malaysia Bho

entered into a memorandum of under

standing (MoU) with Alliance Bank Malay-sia Bhd and OCBC Bank (Malaysia) Bhd

on Thursday to establish #financine4FSG.

listed companies' (PLCs) environmental

social and governance (ESG) adoption.

In a statement, Bursa Malaysia said it

#financing4ESG: Advancing Malaysian PLCs' ESG Journey



VIRTUAL SIGNING CEREMONY

Bursa inks MoU with OCBC, Alliance to introduce sustainable financing for **PLCs**

ficer (CEO) of Bursa Malaysia will spur the growth of sustainable finance or the initiative as they while also enhance PLCs' appeal to investor ESG assessment tors," the exchange's CEO added.

lank underscores the to help business owners adopt ESG prac- also provide access to its investor relanent towards acceler-tices and innovation to reduce carbon foot-among our PLCs, in print as the sustainable choices they make along with the opportunity to participate n to elevate PLCs as can be a force for good for the community in specialised technical workshops on cli

Kornreich added that sustainable choices will result in positive climate impact, social outcomes, and business profitbility in the long term and that their col-aboration with Bursa Malaysia will enable them to help businesses, large and small ovate and grow sustainably.

Meanwhile, Tan Ai Chin, managing rector, senior banker and head of in-stment banking of OCBC Bank, said: We will work collaboratively with Bursa Malaysia by synergising OCBC Bank's ading experience in pioneering various alising on Bursa Malaysia's ESG database rovide optimal financing solutions for s. We aim to mainstream the adoption of sustainable finance to further acceler te the PLCs' sustainability agendas, as a means to support Malaysia government's

Meanwhile, Joel Kornreich, group CEO the collaboratio's branding and capacity of Alliance Bank, noted that it is important building exercises. Bursa Malaysia wil

Sunway REIT partners with OCBC Bank for sustainability-linked bonds



Related News

tranche of sustainability

Sunway REIT net

86.5% in O6 FP2021 PROPERTY 13 Dec 2021 Insight - Sunway REIT

diversification

KUALA LUMPUR: SunREIT Unrated Bond Bhd (SUB) has issued the first tranche of Sustainability-Linked Bonds (SLBs) as part of Sunway Real Estate Investment Trust ≥ ' (Sunway REIT) inaugural sustainable financing exercise in partnership with OCBC Bank

In a joint statement today, they said the SLBs feature a pricing adjustment mechanism Targets (SPTs)

The SPTs measure the improvement in Sunway REIT's sustainability goals, including sourcing energy requirements and achieving and maintaining a minimum Building Energy Intensity (BEI) score.

- A collaboration to enhance and accelerate ESG adoption by PLCs through the provision of comprehensive sustainable financial solutions.
- To jointly develop sustainable financing options that recognise PLCs' ESG credentials in accordance with the FTSE4Good assessment criteria.
- OCBC had successfully structured Malaysia's first Sustainability-linked Bond for Sunway REIT, the first sustainable financing transaction after the MOU, a testament to OCBC's commitment towards promoting ESG initiatives.



Sustainable Financing vs. Sustainability-Linked Loans

Financing	Green / Social / Sustainable		Sustainability-linked
Objective	Providing capital for green and/or social projects		Promoting sustainable business practices
Financing instrument	Corporate sukuk / bondProject financing sukuk / bond	Term financingProject financing sukuk / bond	Term financingRevolving credit facilityCorporate sukuk / bond
Key Features	 Exclusively finance eligible Green / Social projects as defined under the relevant guidelines or standards Pricing structure – No tangible difference with plain- vanilla financing or sukuk 		 To finance general corporate and working capital purposes Includes interest rate ratcheting linked to pre-determined sustainability targets
Guidelines / Standards	The Green Bond Principles The Social Bond Principles Suruhanjaya Sekuriti Securities Commission Malaysia The Sustainability Bond Guidelines	Green Loan Principles Supporting environmentally sustainable economic activity LSTA CELEBRATING 25 YEARS LOAN MARKET Market Association	Sustainability-Linked Loan Principles Supporting environmentally and socially sustainable economic activity The Sustainability-Linked Bond Principles Suruhanjaya Sekuriti Securities Commission Malaysia



OCBC's Sustainable Financing Categories



Renewable Energy

Renewable energy generation from Solar PV, Hydro, Wind, Biomass, etc., and associated infrastructure & technologies



Energy Efficiency

Improve energy efficiency, reduce energy consumption / carbon emissions



Built Environment

Advanced fabrication and material technologies relating to green construction



Clean Transportation

Low emission vehicles with green maritime transport technologies, alternative aviation fuel, carbon management technologies



Pollution Prevention & Control

Waste reduction and avoid pollution generating activities



Affordable Housing

Construction of public housing that primarily service a target population as defined by local governments



Sustainable Management of Living Natural Resources & Land Use

Sustainable food, environmentally sustainable agriculture



Sustainable Water & Wastewater Management

Improve water efficiency, efficient water management and water recycling



Eco-efficient or Circular Economy

Recyclable waste processing, procurement of environmentally sustainable products



Climate Adaptation

Reduce vulnerability to climate change through research, monitoring, and/or reinforcement



Green Financing Case Study

First ASEAN Sustainability SRI Sukuk in Malaysia

Deal Summary Project Malaysian solar power plant / producer Company **Facility ASEAN** Sustainability Sustainable and Sukuk Responsible Investment (SRI) ("Sukuk") OCBC's Sukuk Sustainability Framework Adviser Roles Shariah Adviser **Sole Principal Adviser/ Lead Arranger** Joint Lead Manager / Bookrunner Facility and Security Agent 8 DECENT WORK AND ECONOMIC GROWTH **UN SDGs** External RAM Sustainability





Reviewer

Best ASEAN Sustainability SRI Sukuk (Malaysia & Regional)

The Asset Islamic Finance Awards 2020





Malaysia Capital Markets Deal of the Year

IFR Awards 2019





Best SRI Sukuk Alpha South-East Awards 2019





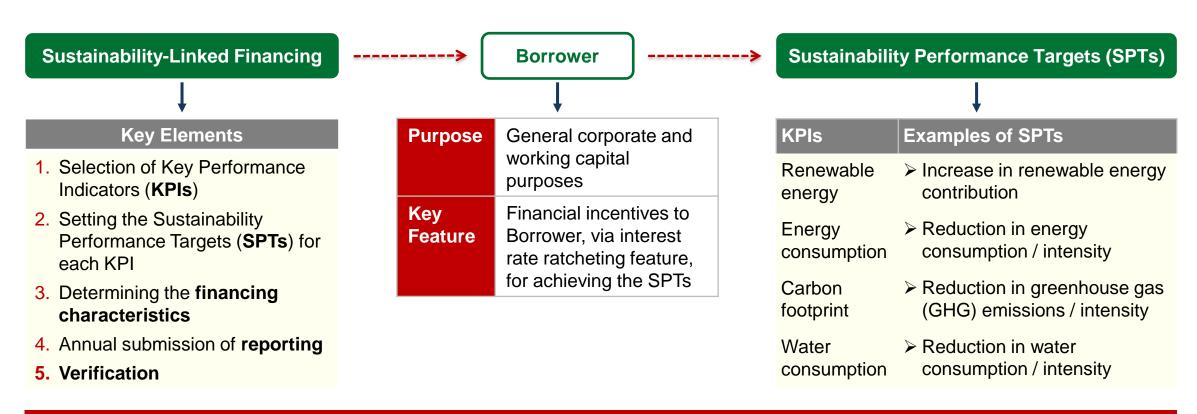
Best Islamic Finance deal - Asia Pacific

The Banker



Sustainability-Linked Financing

An Overview



Key Elements of KPIs and SPTs

KPIs shall be relevant, core, and material to Borrower's nature of business.

KPIs must be

- quantifiable
- measurable
- externally verifiable

SPTs shall represent material improvement, consistent with Borrower's overall sustainability agenda, and have predetermined timelines for compliance

Actual achievement of SPTs is subject to independent 3rd party verification

Sustainability-Linked Bond Case Study

Pioneering Sustainability-Linked Bonds in the Malaysian Market

Deal Summary

Issuer	Malaysian Real-Estate Investment Trust (REIT)		
Transaction	Inaugural Sustainability Linked Issuance of via an Unrated Medium term Notes Programme		
Purpose	General working capital and capital expenditure		
OCBC's Roles	 Principal Adviser Lead Arranger Lead Manager Sustainability Structuring Coordinator Facility Agent Security Agent 		
External Reviewer	MARC		

Sustainability Performance Targets (SPTs)

Increase in Renewable Energy Generation

Reduction in Building Energy Intensity

Alignment with United Nations' SDGs:











The issuer was the first Malaysian REIT to integrate ESG factors into its capital management strategy, further strengthening their ability to access to diverse sources of funds while contributing positively to the development of sustainable finance in the domestic capital market.



Sustainability-Linked Financing Case Study

World's First Islamic Sustainability-Linked Financing

Deal Summary

Borrower	Malaysian multinational telecommunications conglomerate		
Transaction	Syndicated Multi-Currency Shariah compliant sustainability-linked set of financing facilities		
Purpose	General corporate and working capital purposes		
OCBC's Roles	 Lead Coordinating Bank Sustainability Structuring Adviser Shariah Adviser Facility Agent 		
UN SDGs	13 CLIMATE ACTION		
External Reviewers	SIRIM QAS InternationalFTSE Russel		

Sustainability Performance Targets (SPTs)

Reduction in Group's total carbon footprint

Maintain inclusion in the FTSE4Good Bursa Malaysia Index

This sustainability-linked financing offers the borrower a reduction in financing cost in return for its commitment to reduce its overall carbon footprint and to ensure compliance with the stringent ESG criteria set by FTSE Russell.



Green and Sustainable Finance Deal of the Year and Service Awards

Islamic Finance News Awards 2021





Islamic Finance Best ESG Green Financing in Southeast Asia (Malaysia)

Alpha Southeast Asia Best Deal & Solution Awards 2020



Thank You



