

Quick Introduction



Sunil Yadav

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Sunil is an Associate Partner at EY's Climate Change and Sustainability Services department in Singapore. He has overall 23 years of experience in the energy and sustainability sector, with a focus on driving decarbonisation, decentralisation, digitalisation, energy transition practices with sustainability as core across ASEAN markets.

Sunil has domain expertise in decarbonising large infrastructure, industry, data center and real estate across India, Middle east, China and Southeast Asia, worked with various MNC's (Siemens, Schneider electric, Johnson Controls, Carrier, and Philips) and founding member of bbp(KKR portfolio).





EY recognises that global sustainability development and outlook can be navigated through a dual lens of compliance and aspirations





Increased Mandatory ESG Reporting Obligations

The number of ESG regulations and standards globally has nearly doubled in the last five years amounting to over 600 ESG reporting provisions globally in 2020. In Singapore, all SGX listed issuers are required to prepare an annual sustainability report and all statutory boards are required to publish annual environmental sustainability disclosures.



Developing and Navigating Net Zero Transition Plans Well



Transform Climate Targets and beyond

- > NDC
- Sector Targets
- Business Targets
- SBTi Targets
- > Etc.

Achieving these targets requires a Net Zero Transition Plan that covers both supply and demand drivers for each of the Core Assets of Countries to Sectors to business and communities to plan ahead

Enhanced climate reporting requirements

Climate risk disclosures are becoming mainstream public policy and corporate governance tools for world leaders in government, business and finance to measure and adapt to the physical and transitional risks of climate change.





Unlocking Value from Sustainability



As companies progress in their sustainability journey, targeted training is crucial to equip their workforce with the necessary skills and knowledge. This ensures strategic alignment with sustainable practices, fosters innovation, and meets evolving regulatory and stakeholder expectations. Effective training enhances risk management, operational efficiency, and positions the company favorably for investor engagement, ultimately underpinning the successful realization of long-term sustainability ambitions.



Our EY Professional Services based on A - G Approach



lignment on sustainability strategy and capacity building (Board, Senior Management, Staff) ompliance (e.g., GHG, SR, SA, SBTi, CSRD)

inancing options for the sustainable / investable projects and business models

usiness case for Sustainability (e.g., Decarbonisation Levers, TCFD, ICP, Carbon Tax, ROI, Impact)

ecarbonisation &
Digitalisation planning for
Scope 1, 2, 3 (Targets,
Levers and Enablers)

overnance and risk reviews

hange Management & Communication

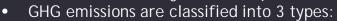
xecution master planning with project and risk management support

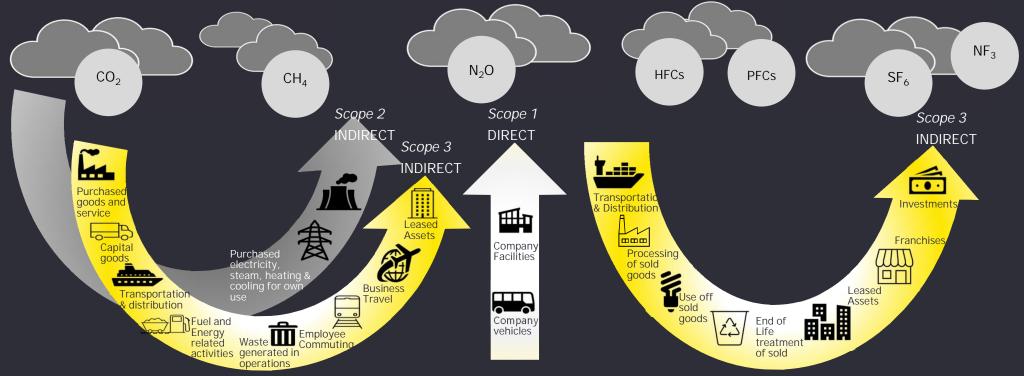


What are greenhouse gas (GHG) emissions? Categorizing GHG Emissions - Scope 1, Scope 2 and Scope 3



• GHG emissions are gaseous compound that contributes to climate change by trapping and holding heat in the atmosphere





Upstream activities Reporting Company Downstream activities

CO₂- Carbon dioxide

CH₄- Methane

N₂O- Nitrous Oxide

HFC- Hvdrofluorocarbon

PFC - Perfluorocarbons

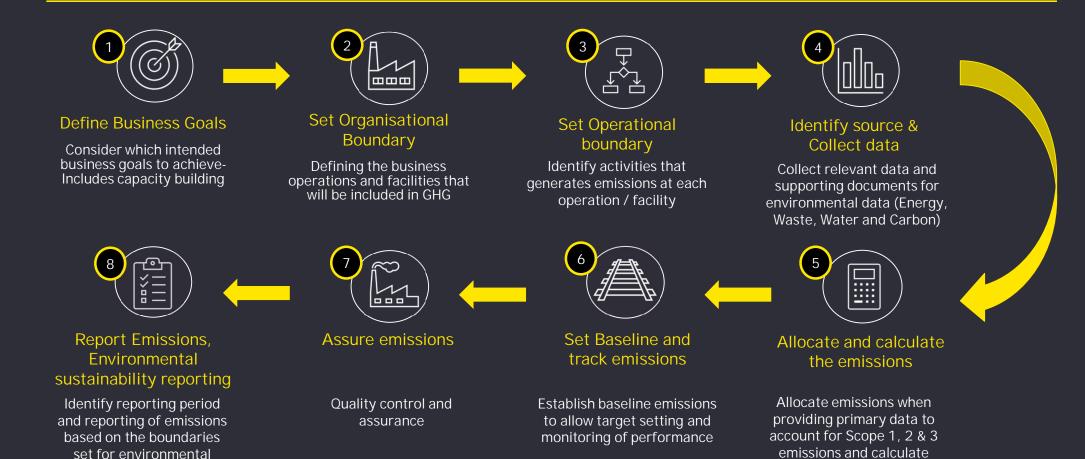
SF₆- Sulphur Hexafluoride

NF3 - Nitrogen Trifluoride



Emissions Measurement and Environmental Sustainability Reporting





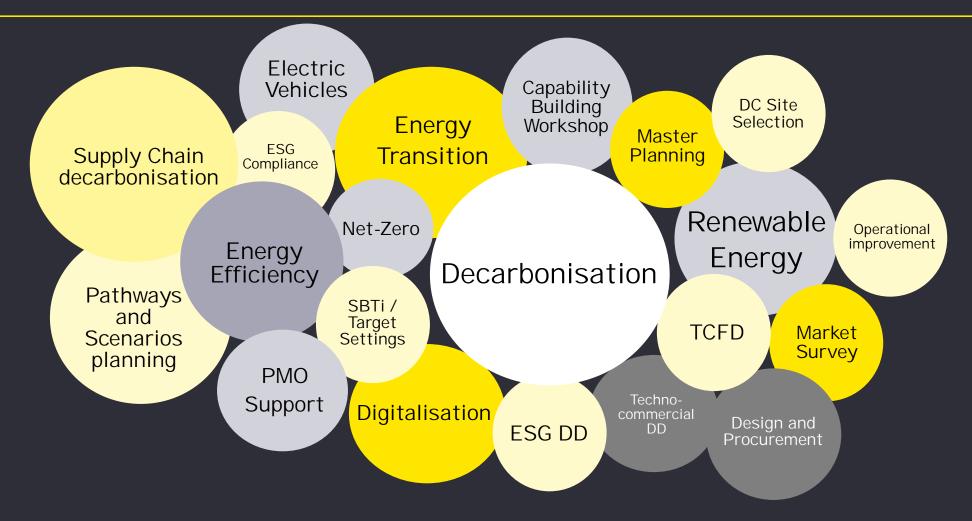


emissions generated

sustainability reporting

Complexity of Sustainability Implementation Needs







Recommended scope of work and roadmap for decarbonisation





Decarbonisation pathways

Create options and pathways to reach nearmid- and long-term decarbonisation goals

Business case

Create CBA (Cost-Benefits Analysis) or MACC to add business cases w.r.t business growth

Financial analysis

Financial assessment of priortised opportunities

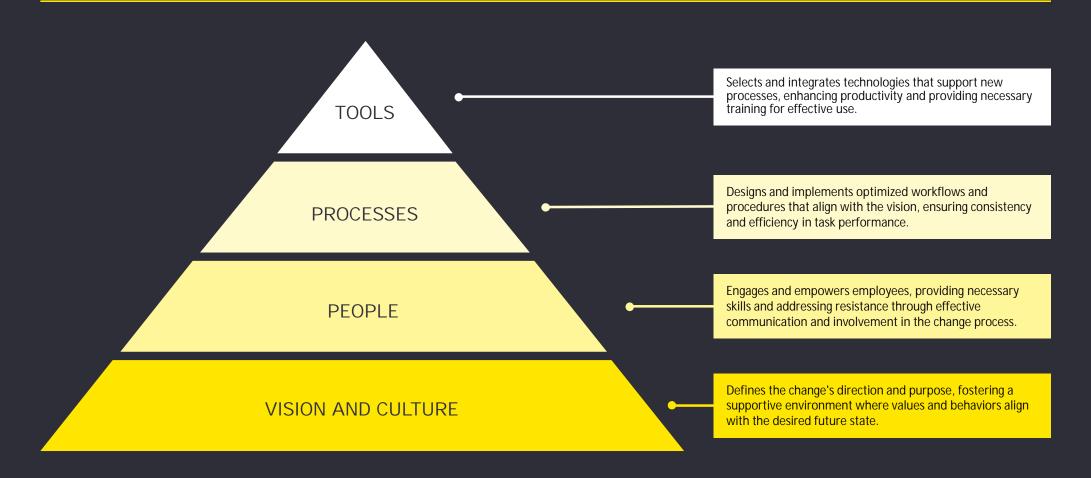
Priorities and Technical assessment

Technical assessment of opportunities based of various matrix



Align/ Change management for decarbonisation approach





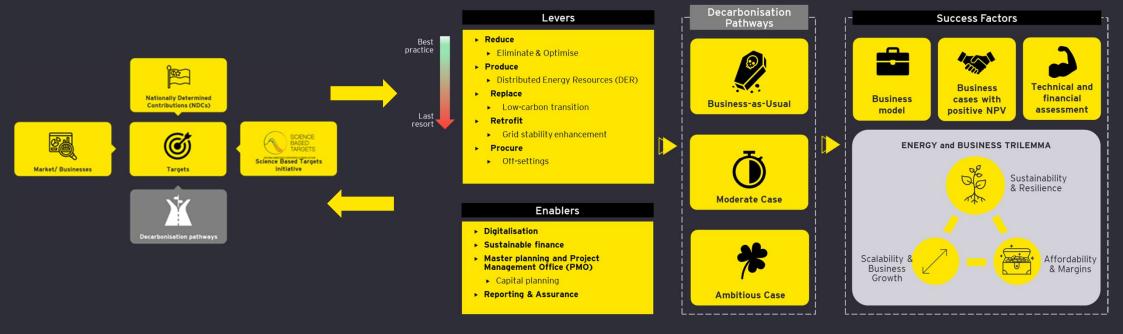


Approach for Decarbonisation



Top-down Approach

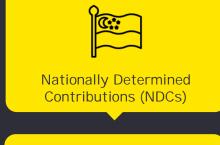
Bottom-up Approach





Approaches for Target-Alignment









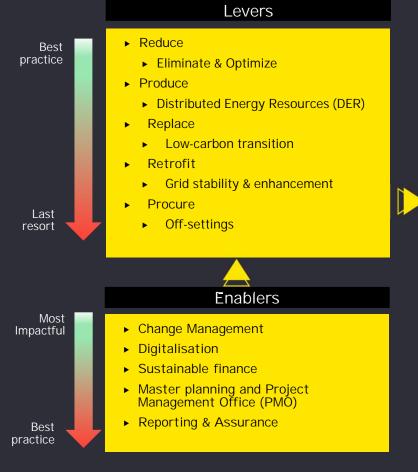


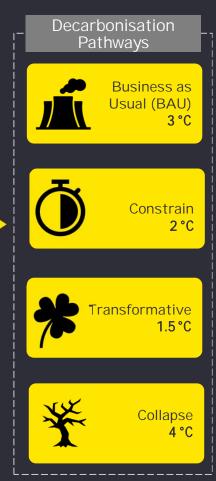


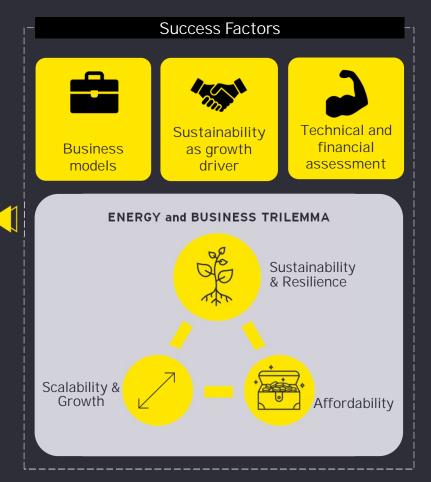


Approaches for Decarbonisation Pathways





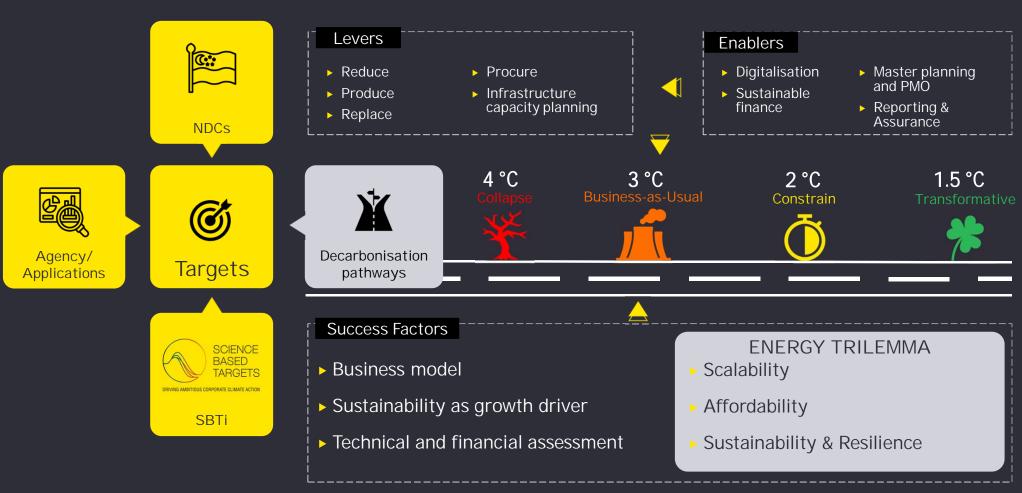






Approaches for Target-setting and Decarbonisation are not mutually exclusive







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