



THREE PILLARS CONSULTING

Sustainability Solutions For Your Business

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About Us



Three Pillars Consulting (TPC) is an environmental and sustainability consulting company founded and based out of Muscat, Oman. TPC provides expert analysis and develops policies related to the fields of Climate Change (Greenhouse Gas Emissions), Energy Efficiency, Renewable Energy, and Environmental Management to both private and public organizations.

We work with companies of various sizes and across diverse industries to help them identify risks and develop opportunities for carbon and energy across their supply chains. Our team leverages their regional and international experience to provide timely, relevant, and detailed consultancy to help organizations reduce greenhouse gas emissions, environmental impacts and resource consumption.

Why Choose Us

TPC is the only local Omani-based consulting company providing a comprehensive set of services that address carbon management, energy management, and sustainability across the supply chain. From providing analytics to developing policies and identifying technology solutions, we focus on providing tailor-made solutions and:



TPC's in-house experts and network of partners **focus on international quality and standards** to allow companies to integrate environmental best practices into their operations.



TPC has the expertise to provide services on forecasting energy consumption, resource use, and carbon emissions, while developing policies and management plans to control and minimize those environmental impacts.



TPC has experience working with businesses, governments, and other organizations both in Oman and internationally.



Services based on international best-practices, standards, and **quality**.



Growth & Strategy

2017

Founding of Three Pillars Consulting (TPC)

2019

First time a product-level GHG footprint had been developed for an Omani based product

2020

Development of Oman's energy efficiency policies for the lighting sector

2020

Launch of TPC's Cloud-based GHG Accounting Software *ClimateTab™*

2021

TPC launches first GHG training course in Oman in partnership with Shams Global Solutions (SGS)

2022

Certification of Oman's first batch of renewable electricity under the I-REC certification standard

2024

Development of Oman's first government-endorsed Emissions Factor for electricity and Scope 2 emissions

2018

Development of the Project Design Document (PDD) for Oman's first nature-based carbon credit project

2019

Development of policies for recycling and energy efficiency in Oman's waste sector

2020

First LCA to be developed for an Omani product

2021

Development of Oman's first National GHG Dashboard / Platform

2021

Accreditation of TPC as the exclusive Local I-REC Issuer

2023

Development of Decarbonization Roadmap for the Omani government's entire water sector



Our Services

Our Services



**Carbon Accounting /
Greenhouse Gas Assessments**
(ISO 14064-1 and 14067)



Decarbonization
(SBTi, ISO IWA 42:2022)



Life-Cycle Assessments
(ISO 14040, ISO 14044)



Energy Attribute Certificates
(I-RECs)



Carbon Credits
(Verra, CDM, ISO 14064-2)



**Energy Management
Systems (ISO 50001)**



LEED Green Building
(U.S. Green Building Council)



ESG Reporting
(GRI, IFRS, ISSB)



**Policy and Strategy
Development**



**Environmental Reporting
Software (ClimateTab™)**



Carbon Accounting and Decarbonization

Conducting a baseline account of your company's or products' greenhouse gas emissions (GHGs) is the first step in your decarbonization journey. Companies have many different emissions sources to manage and report on such as fuel consumption, electricity usage, process related emissions, fugitive emissions, as well as a myriad of Scope 3 emissions such as embodied emissions from consumables, capital equipment, logistics, waste management, and so much more. We provide companies with easy-to-use tools and procedures to continuously manage and maintain their GHG emissions.

Our experts work with your company to identify all of your Scope 1 and Scope 2 emissions as well as the material and/or relevant Scope 3 emissions. Once those have been identified, we help collect, consolidate, validate, and verify your emissions inventory.

After the verification process, we customize our ClimateTab™ Excel Tool for your specific situation, and populate the tool with your baseline inventory, providing an immediate breakdown of your emissions profile and trends.

All of our GHG Reporting is Compliant with:

Greenhouse Gas Protocol
Corporate / Product Level
Standards

Greenhouse Gas
Protocol Scope 2 and
Scope 3 Standards

ISO 14064, 14067, 14040,
14044, 14020, 14021,
14024, 14025

Carbon Credit
Registries (Gold
Standard, Verra, etc.)

Carbon Disclosure
Project

Carbon Border Adjustment
Mechanism (CBAM)

Science Based Targets
initiative (SBTi)

Task Force on Climate-related
Financial Disclosures (TCFD)

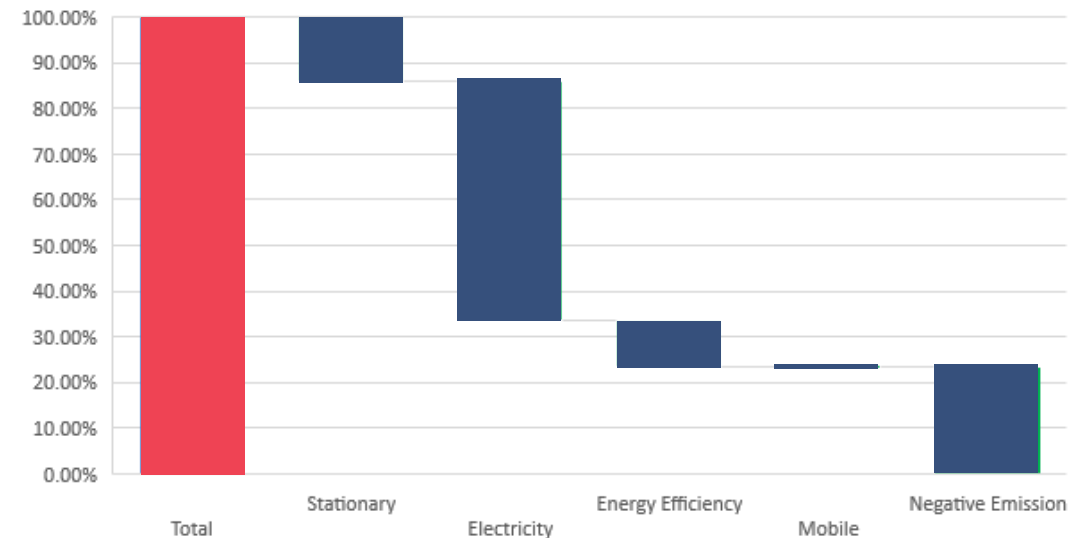
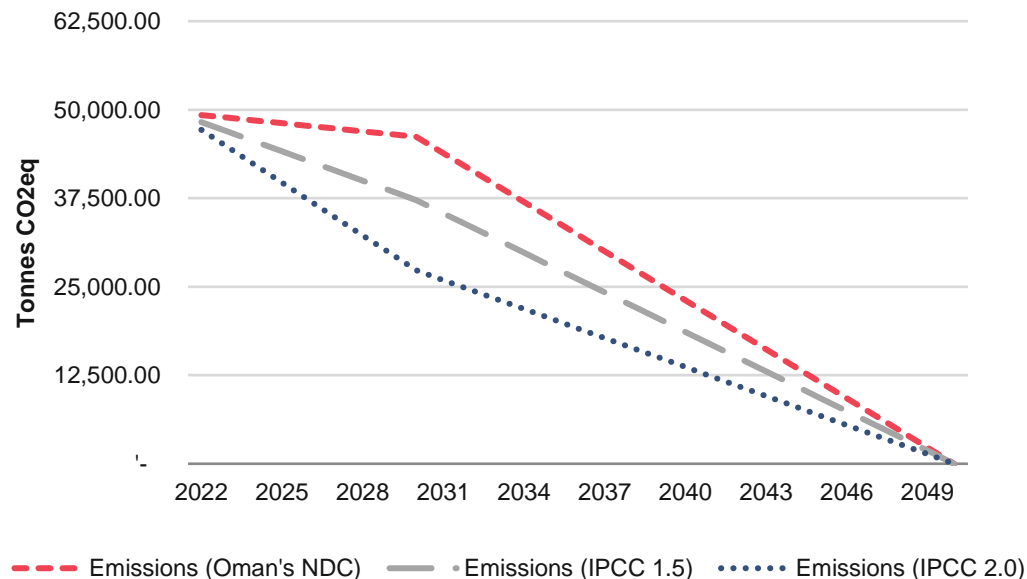
ESG Reporting (e.g.
GRI Section 305)

Decarbonization

Additionally, we work with companies to develop Decarbonization Roadmaps and Scoping Studies to support the management and reduction of their GHG emissions. **We provide industry-specific** and company-specific decarbonization roadmaps, which start from your current baseline emissions and chart out a path towards net-zero emissions. **Our experts ensure that your roadmap** takes into account current best practices as well as aligns with both local and international targets for decarbonization.

We provide 4 primary services and deliverables for our clients when developing a Decarbonization Strategy:

- ⌚ Base-Year GHG Report (Corporate and Product-Level Reporting of Scopes 1 + 2 + 3)
- ⌚ GHG Reporting Tool for Continued GHG Reporting / Updating (Excel or Cloud-Based)
- ⌚ Best-Practices Monitoring and Reporting Guidance Document (Customized per Sector)
- ⌚ Decarbonization Roadmap with High-Level KPIs and Mitigation Projects
- ⌚ Optional: Cost-Benefit / Feasibility Studies per Mitigation Project

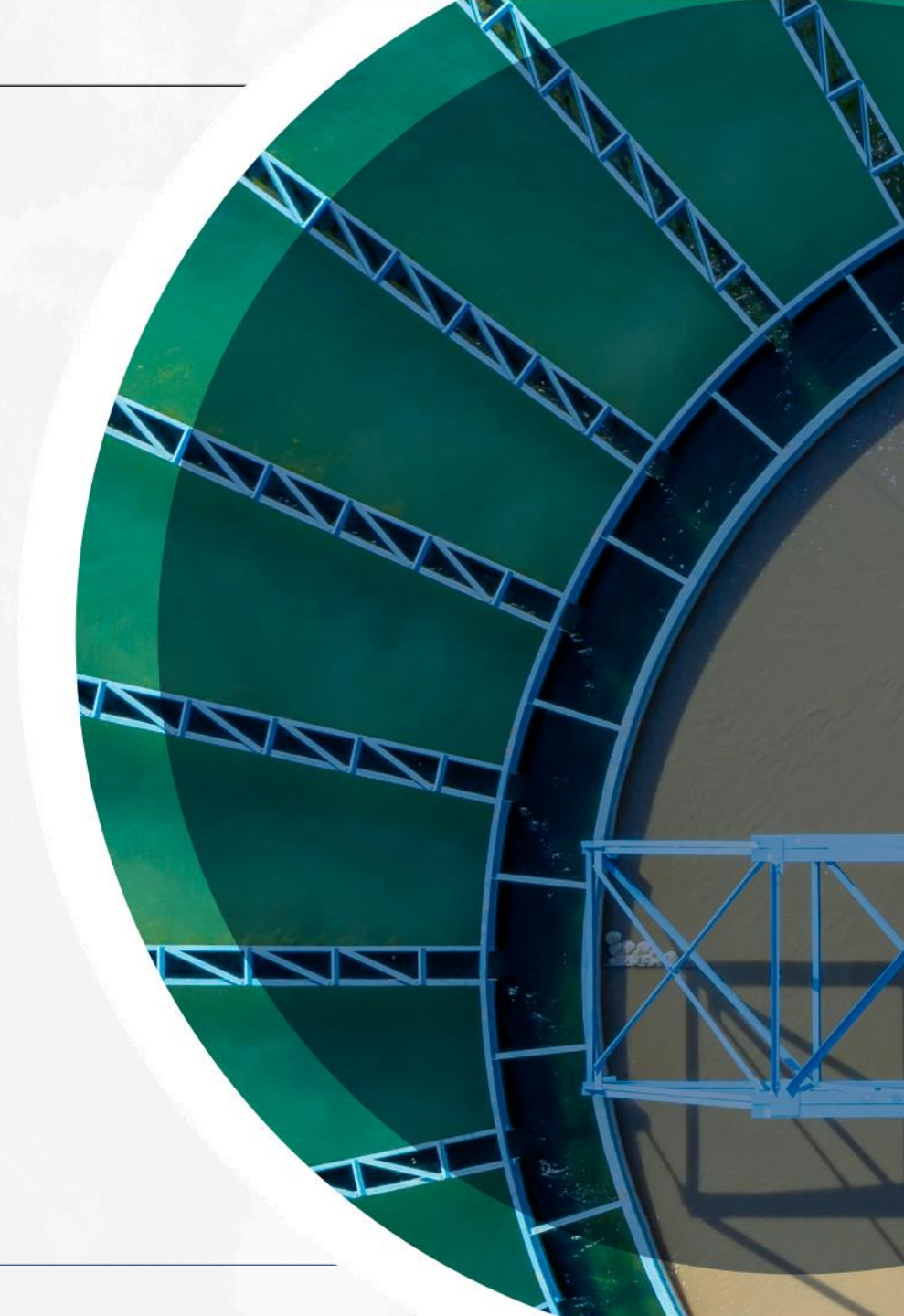


Life Cycle Assessment

We can provide complete life-cycle assessments (LCA) for your products and services as well as benchmark them against competitors. Assessment of carbon, water, energy, resources, and emissions across your entire value chain. Our team members are experts in ISO 14040, ISO 14044, and conducting Environmental Product Declarations (EPDs).

LCA is an environmental assessment methodology for looking at multiple environmental impacts for the entire life-cycle of a product or process. LCAs are outlined by ISO 14040 and ISO 14044. LCAs typically look at the environmental footprint of a product from its cradle-to-gate (i.e. from raw material extraction to product manufacturing) or cradle-to-grave (i.e. from raw material extraction to the products end-of-life).

Thus, essentially, LCAs assess the environmental impacts both upstream and downstream as well as directly from your production process and/or product.



I-REC Certification

Electricity (Scope 2) emissions often make up a majority of many companies' GHG emissions profiles. Energy Attribute Certificates (EACs) or Guarantees of Origin (GOs) were created to provide transparency and choice to customers who consume electricity from public utility grids by using a certification book-and-claim chain-of-custody system.

Where locally regulated EAC markets do not already exist, International Renewable Energy Certificates (I-RECs) are used internationally around the world for such certification. I-RECs are used in **over 55 countries around the world** and redeemed (i.e. used) by the largest companies in the world such as Nike, Amazon, Google, Ikea, Apple, and others.

I-RECs are an official method of reporting market-based Scope 2 GHG emissions under the GHG Protocol Scope 2 Standard, CDP, RE100, Science Based Targets initiative, ISO, and others.

TPC was accredited by the I-REC Standard Foundation in 2021 to be the exclusive, local I-REC issuer for Oman. As the local issuer, TPC registers electricity projects and issues certificates for its production output. I-REC certificates are created for each MWh of renewable electricity produced which can then be bought and sold on the open market for additional revenue.

ClimateTab™ and Custom Dashboards

ClimateTab™ is our proprietary software developed for Corporate and Product-Level GHG Accounting. It creates simple to use data input forms, with easy to access drop down menus for selection of emission factors, units, and emissions sources. Data trends and insights are generated immediately without any effort from you.

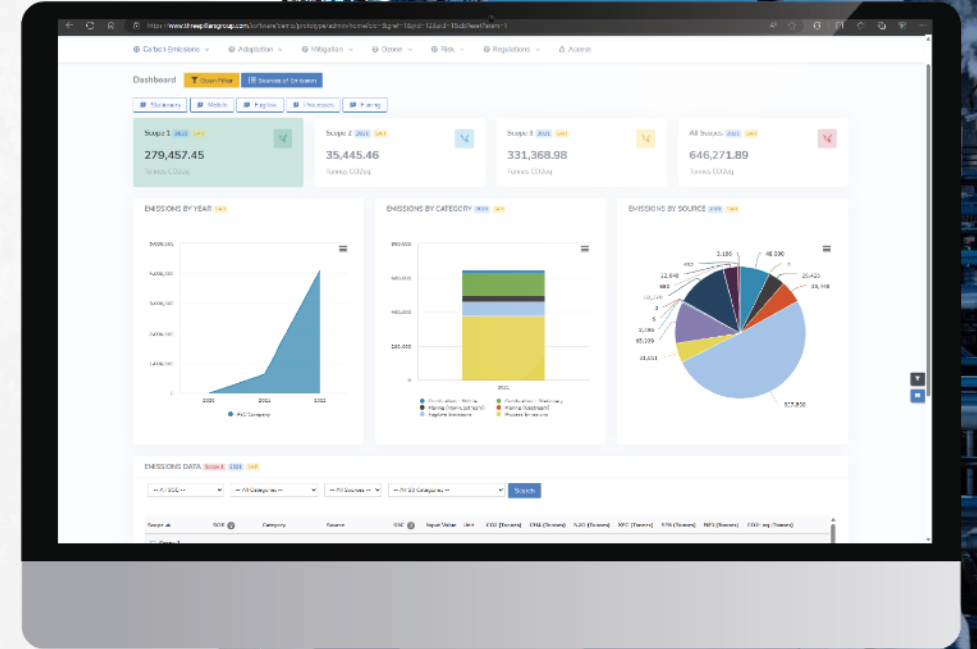
ClimateTab™ can be remotely accessed from any internet connected device, allowing all employees to login and manage all environmental data in one central location.

The dashboard unifies and standardizes all of your company's reporting needs, allowing you to upload, modify, visualize, and analyze all of your data with a few clicks.

- ✓ Cloud-Based GHG Accounting Software
- ✓ Data Entry and Management for All Your Assets' Employees
- ✓ Data Trends and Visualization with the Click of a Button
- ✓ Scope 1, 2, and 3 Emissions



ClimateTab™ is a Three Pillars Consulting product, developed 100% in-house by our company. For more information, you can visit:
www.climatetab.com | support@climatetab.com





ClimateTab™ Lite is the Excel-based, off-line version of our ClimateTab™ software.

The Excel version of our software contains many of the same user-friendly and convenient features for quickly adding, managing, and viewing your GHG data.





Carbon Credits

The world of Carbon Credits is an ever-evolving landscape: Compliance versus Voluntary Markets, Carbon Avoidance versus Carbon Removals, Methodologies, Additionality, Carbon Pricing, Integrity, and Legitimacy. These are all topics that are difficult to navigate.

TPC works with companies to provide insight whether their projects have the potential to be registered with voluntary or compliance markets and whether their projects have the potential to make a feasible financial return. Moreover, our team of experts provide guidance and structure around whether carbon credits could be used and how they could be used in their decarbonization journey.

TPC's approach is to identify legitimate projects and credits that result in actual reductions to GHG concentrations in the atmosphere so that your company can avoid greenwashing and integrate real achievements.



LEED Green Building

The built environment is a critical component in the journey towards net zero. Buildings of all types account for a significant amount of the world's heating, cooling, and electricity consumption. **Green Building standards** and codes such as LEED (U.S. Green Building Council) streamline the process of ensuring that your building integrates the most up-to-date and impactful design, construction, and operational aspects to lower resource consumption and mitigate environmental impacts.

Our team members are LEED Accredited Professionals (LEED AP) with experience in developing, supporting, and implementing design credits and construction credits. We can work with you to identify which level of certification (e.g. LEED Silver, Gold, Platinum, etc.) is appropriate for your project, while providing a detailed set of KPIs, requirements, and implementation plan for achieving that level of certification.



ESG Reporting

Corporate responsibility is evolving and a comprehensive approach to ESG reporting that moves beyond box checking is now expected and, in many cases, required for conducting international business. We help simplify the process of ESG reporting to identify why your company needs and how your company will implement ESG metrics into its operations.

Our team of experts take an integrated approach to ESG reporting, by leveraging the information from your company and its stakeholders to not only understand but identify where ESG barriers and opportunities exist.

Ultimately, TPC and its international partners provide a comprehensive package for outlining, assessing, and conducting corporate ESG Reports, Strategies, Resource Assessments, and Implementation Plans.

Energy Management Systems and Energy Auditing

Energy and emissions go hand in hand. We provide consultancy services on the topics of Energy Management Systems (EnMS) (ISO 50001) and Energy Audits. An EnMS is a framework that companies and organizations can use to identify and adopt energy-saving opportunities. An EnMS involves developing and implementing an energy policy for the company, setting achievable targets for energy use, and designing action plans to reach and measure progress.

Ultimately, an EnMS can be audited by an independent 3rd-party, and if the company can show demonstratable energy savings, the company can receive a certification for their ISO 50001. TPC works with companies to identify their Significant Energy Users (SEUs), to quantify their energy consumption and energy intensity, and develop Energy Performance Indicators (EnPIs).

Our Clients & Projects



Our Clients

Environment Authority GHG Dashboarding Software (Oman)

- 1 Development of a proprietary database and dashboarding platform for tracking corporate GHG emissions throughout Oman.
- 2 Provides a cloud-based system for remote access by any company in Oman to upload, manage, and visualize their GHG data in real-time.

Fisheries Development Oman ESG Report and Strategy (Oman)

- 1 Guidance and Development of ESG Report and Strategy.
- 2 Development of GHG Inventory for 7 FDO subsidiaries, including customized Excel-based GHG Tools.
- 3 Supporting the development of the ESG Resource Strategy.

ADNOC Scope 1 and 2 GHG Accounting (Abu Dhabi, UAE)

- 1 Calculation of all Scope 1 and 2 emissions for 5 of ADNOC's core assets.
- 2 Develop Excel-based Tool for dashboarding emissions.
- 3 Review of compliance with corporate policies and domestic regulations on GHG emissions.

Authority for Public Services Regulation, Energy Efficiency and Lighting Policy (Oman)

- 1 Development of an energy efficiency lighting policy for Oman.
- 2 Identify opportunities, barriers, and risks to transition from conventional to energy efficient lighting in industry, commercial, residential settings.
- 3 Develop roles and responsibilities of local stakeholders for implementation of the policy.

OMRAN 3-Star Hotel LEED Gold Certification (Oman)



- 1 Oversight and development of the LEED Gold Credits for a 3-star hotel in Oman.
- 2 Increased the project from LEED (Basic) Certification to LEED Gold from a design perspective.
- 3 Approved design credits (awaiting construction phase of the project).

Accredited Local Issuer for IRECs (Oman)

- 1 In 2021, Three Pillars Consulting becomes the exclusive accredited local issuer of I-RECs for Oman.
- 2 Review, registration, and issuance of renewable energy certificates produced by wind and solar projects.
- 3 Supporting the development of a Hydrogen Code and Life-Cycle Assessment Methodology.

NAMA Water Services Decarbonization Roadmap (Oman)

- 1 Complete baseline GHG emissions inventory development for wastewater and freshwater supply sector of Oman.
- 2 Develop Excel-based Tool for dashboarding emissions.
- 3 Screening level mitigation assessment and development of their Decarbonization Roadmap.

SipChem Life-Cycle Assessment (Kingdom of Saudi Arabia)

- 1 Development of a GHG and Water footprint LCA inventory for SipChem's shipping and logistics operations.
- 2 Comparative analysis of virgin-plastic, recycled plastic, and wooden shipping crates.
- 3 Sensitivity analysis based on single-use, multiple-use, one-way and multi-journey situations.



ARA Petroleum Decarbonization of Upstream Assets (Oman)



Road and Transit Authority GHG Mitigation Assessment (Dubai, UAE)



OQ Decarbonization of Upstream Assets (Oman)



OQ Decarbonization of Downstream Assets (Oman)

- 1 Calculation of all Scope 1 and 2 emissions for 5 of ARA's core assets.
 - 2 Develop Excel-based Tool for dashboarding emissions.
 - 3 Development of a Decarbonization Plan and Roadmap for all upstream oil and gas exploration activities.
- 1 Conducted analysis of the GHG emissions across the construction and operation of Dubai RTA's Extension of the Green and Red Metro Lines.
 - 2 Assessed the operational savings of GHGs and compared them with the business-as-usual case of conventional transport (e.g. personal cars, buses) to evaluate the carbon payback time and long-term carbon savings.
- 1 Calculation of all Scope 1, 2, and 3 emissions for all of OQ's upstream assets.
 - 2 Develop Excel-based Tool for dashboarding emissions.
 - 3 Development of a Decarbonization Plan and Roadmap for all upstream assets.
- 1 Calculation of all Scope 1, 2, and 3 emissions for all of OQ's downstream assets.
 - 2 Develop Excel-based Tool for dashboarding emissions.
 - 3 Development of a Decarbonization Plan and Roadmap for all downstream assets (e.g. refineries, methanol, ammonia, plastics, etc.).



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