



Scope 1 and 2 Greenhouse Gas Emissions - An Introduction

MODULE

About the Skill Module

This skill module provides an overview of scope 1 and 2 greenhouse gas (GHG) emissions.

Scope 1 encompasses direct emissions from sources that are owned or controlled by an organization. Measuring and managing scope 1 emissions is fundamental to an organization's GHG accounting and is integral to the evaluation of emission reduction strategies.

Scope 2 are indirect emissions associated with the generation of purchased energy consumed by an organization. These arise from the production of electricity, heat, or steam that an organization acquires from external sources. Scope 2 emissions quantification is essential for an organization's GHG inventory, but this is complicated by energy supply characteristics. Reliable carbon intensity data for these energy sources gives organizations opportunities to improve efficiency and transition to lower carbon alternatives.

See demo online learning module

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Target Audience

Anyone wanting to commence their learning or to further consolidate their fundamental knowledge and competence with regard to Greenhouse Gas (GHG) management.

You Will Learn

You will learn how to:

- Identify the main oil and gas sector scope 1 GHGs and understand their sources
- Identify and consider the different sources of Scope 2 GHG emissions
- Apply the GHG Protocol

- Appreciate the various complications with Scope 2 GHG emissions quantification
- Understand the sources of generation
- Quantify Scope 2 GHG emissions
- Appraise the sources of grid factors
- Differentiate and understand the location-based and marketbased methods of Scope 2 quantification
- Consider electricity transmission and distribution losses
- Calculate Scope 2 GHG emissions
- Ensure a complete scope 1 and 2 GHG inventory

Product Details

Categories: [Energy Transition](#)

Disciplines: [Greenhouse Gas](#) [Net Zero & Renewables](#)

Levels: [Basic](#)

Product Type: Individual Skill Module

Format: On-Demand

Duration: 1.75 hours (approx.)

\$250.00