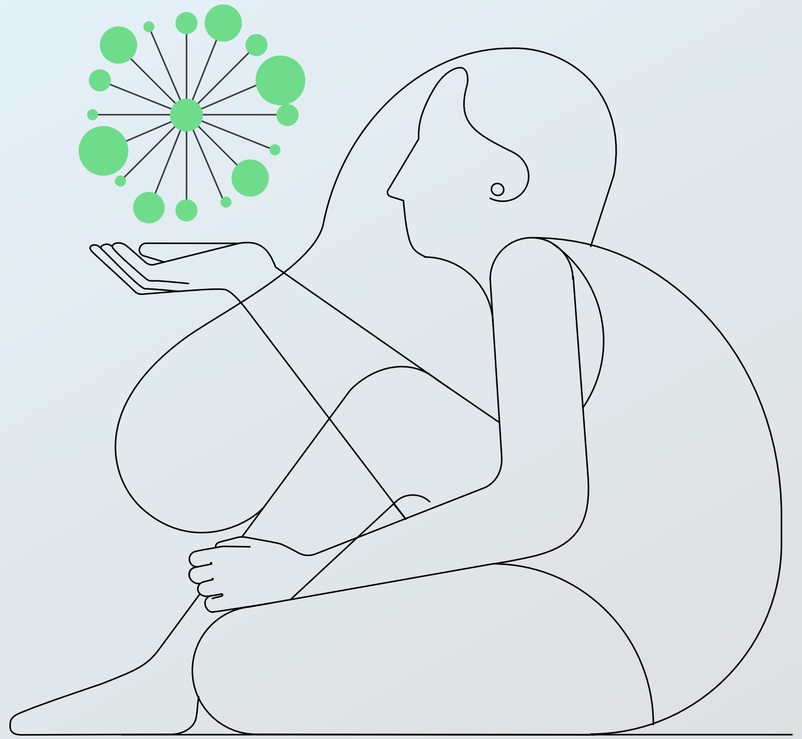
Scope 1 and Scope 2 Emissions



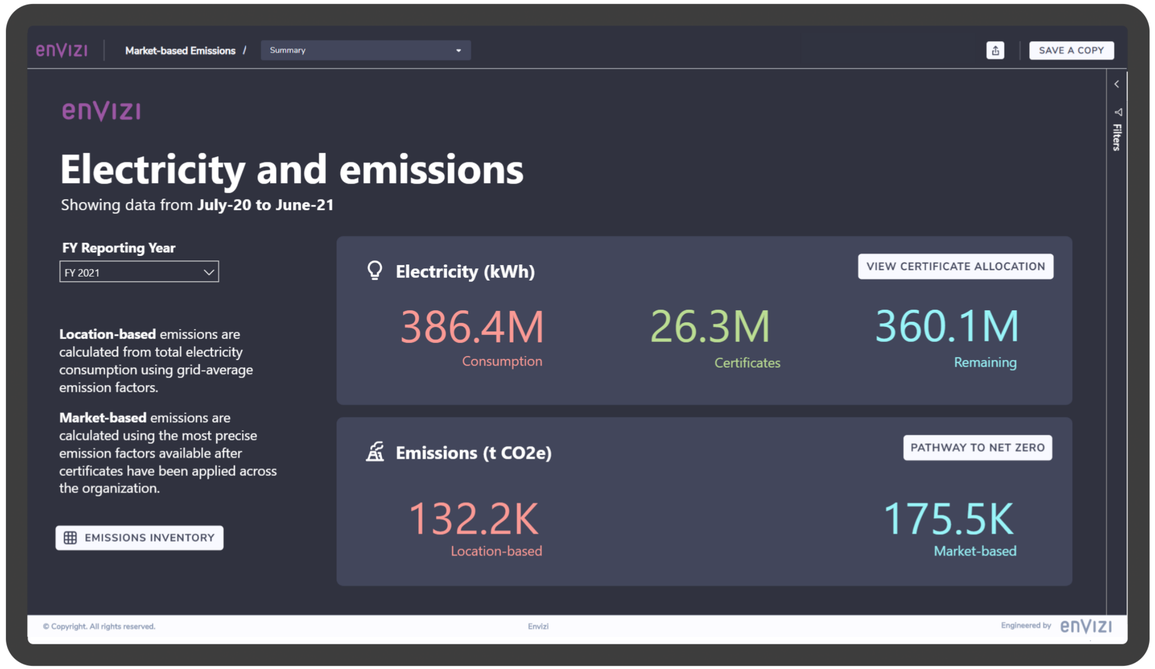
Modular and comprehensive solution

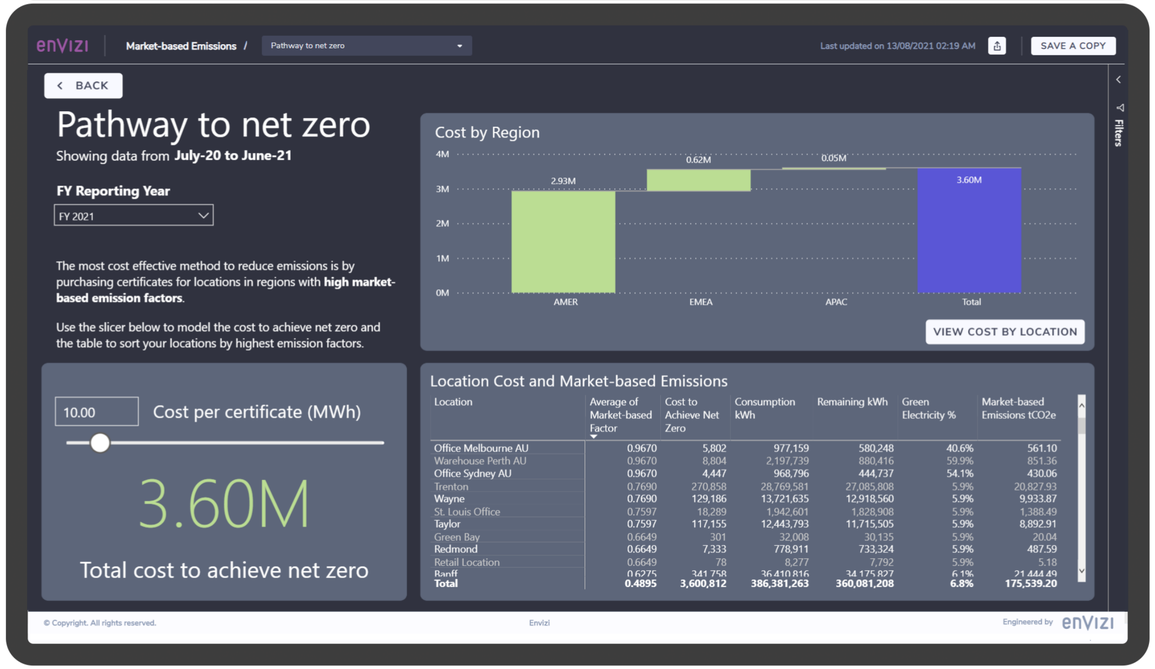
Scope 1 and Scope 2 GHG Reporting and Accounting

Take emissions calculations out of spreadsheets with an extensive platform built on the GHG Protocol, enabling clients to prepare Scope 1 and Scope 2 data for compliance or voluntary emissions reporting frameworks.

Benefits:

- Reduce reporting time by using templates, tools and data automation
- Satisfy auditors with finance grade data management
- Achieve global coverage with multi-country, multi-currency and multi-metric conversion
- Leverage Envizi's modeling tools to optimize emissions reductions





Emissions Reporting

Scenario: Sustainability data analyst reviews emissions on a monthly basis and confirms readiness for reporting.

Common challenges this capability addresses:

- Doing all the calculations in spreadsheets without an audit trail
- Manually managing and applying emission factors to activity data
- Confidence in the accuracy of emissions reporting
- Ability to provide internal and external auditing teams with documentation to support GHG reporting audits

Functionality covered in this topic:

- Emission inventory & performance dashboard
- Emission factor library
- Custom emission factors
- Applying emission factors to activity data
- Emissions factor auditing

Envizi modules where this capability resides:

Market Based Emissions & Renewable Energy

Scenario: Sustainability data analyst reviews emissions on a monthly basis and confirms readiness for reporting.

Common challenges this capability addresses:

- Manually managing and applying emission factors to activity data
- Confidence in the accuracy of market-based emissions reporting
- Ability to provide internal and external auditing teams with documentation to support GHG reporting audits for market-based emissions

Functionality covered in this topic:

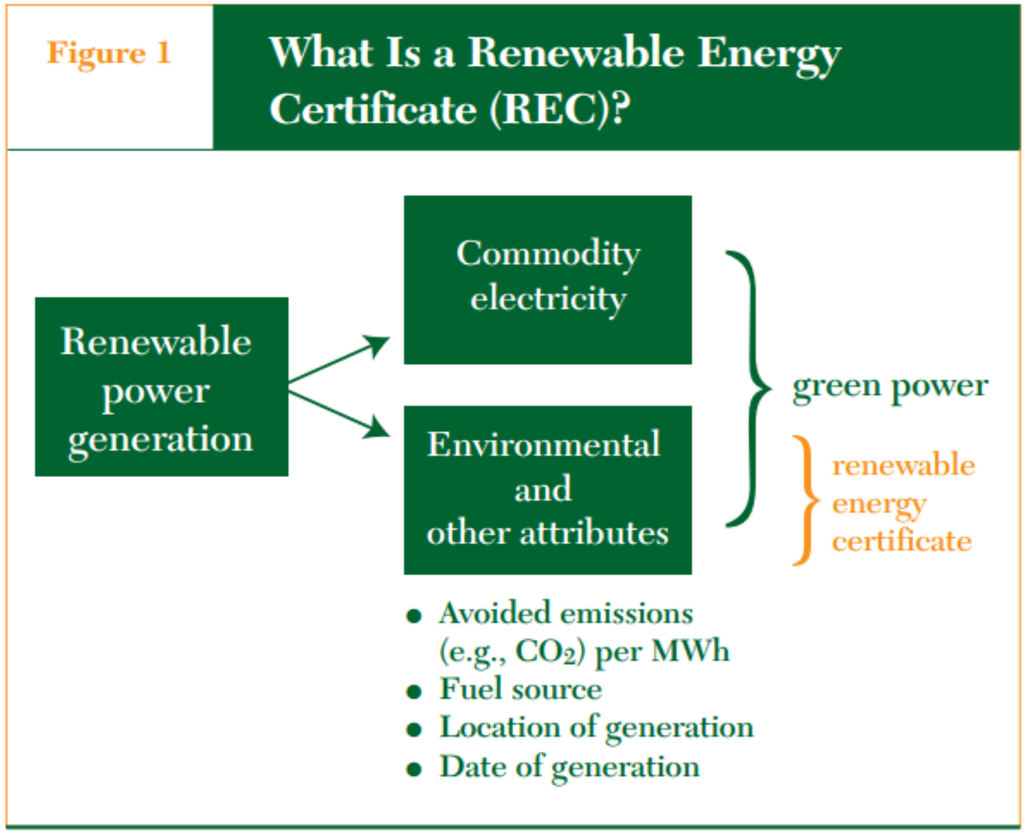
- Market-based emissions PowerReport
- Renewable Energy reporting
- Application of Renewable Energy Certificates

Envizi modules where this capability resides:

Return to TOC

Renewable Energy Certificates (RECs)

- provide proof of the generation of green energy



- Organizations will often purchase RECs to effectively reduce overall Scope 2 emissions

Emissions Calculation for GHG Reduction Total

As an example, an organization consumes 1000 kWh of grid power at a location in the UK through an electricity product that provides 70% green power. Envizi will pick the grid electricity emission factor from the DEFRA factor set which for 2023 is a value is 0.207 kgCO2e/kWh. The following 3 calculations are made:

Scope 2

100% * 1000 kWh * 0.207 = 207 kgCO2e

GHG Reduction

70% * 1000 kWh * -0.207 = -144.9 kgCO2e

Net GHG Inventory Total

207 kgCO2e -144.9 kgCO2e = 62.1 kgCO2e

RECs vs Offsets

Offsets	RECs
allow companies to reduce their liability for greenhouse gas emissions, with each carbon offset financing a one-ton reduction in carbon dioxide (CO2e) emissions through a variety of projects	RECs account only for renewable energy generation—most often electricity—and thus represent a direct impact on the energy system (in effect reducing emissions associated with power consumption)
carbon offsets are measured in tonnes of CO2e	RECs are measured in kWh

– More information - https://knowledgebase.envizi.com/home/renewable-energy-certificates-recs