

GLOBAL Building Energy Intensity Dataset v1.0

Countries Included

- Australia
- Canada
- Hong Kong
- European Union: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia (Czech Republic), Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania Slovakia, Slovenia, Spain, Sweden
- Singapore
- United Kingdom and Wales

Data Included

Building Size Category, Building Energy Intensity, and Building Energy Intensity Value records for:

Region	Fuel Types
Australia	<ul style="list-style-type: none"> • Electricity • Natural Gas
Canada	<ul style="list-style-type: none"> • Electricity • Natural Gas
European Union	<ul style="list-style-type: none"> • Electricity • Heat • Natural Gas
Hong Kong	<ul style="list-style-type: none"> • Electricity
Singapore	<ul style="list-style-type: none"> • Electricity
United Kingdom & Wales	<ul style="list-style-type: none"> • Electricity • Natural Gas

Data Sources

- Australia:
 - “Commercial Building Baseline Study 2022”, [Department of Climate Change, Energy, the Environment and Water](#)
- Canada :
 - “Survey of Commercial and Institutional Energy Use (SCIEU)”, [Statistics Canada](#)
- European Union:
 - [Eurostat Data Browser](#)
 - [EU Building Stock Observatory](#)
- Hong Kong:
 - “Electricity Utilization Index” - [Electrical and Mechanical Services Department](#)
- Singapore:
 - “BCA Building Energy Benchmarking Report (Statistics and Figures) 2021”
[Building and Construction Authority](#)
- United Kingdom & Wales:
 - “Non-domestic National Energy Efficiency Data Framework (ND-NEED), 2022” -
[Department for Business, Energy & Industrial Strategy](#)

Use Cases

Estimate Energy Usage for Stationary Assets

- Assign BEI record to [Stationary Asset Emission Source](#) based on location and Occupied Floor Area
- Create a [Stationary Asset Carbon Footprint](#) record for the Stationary Asset with no associated [Stationary Asset Energy Use](#) records
- Use [Data Gap Filler](#) to estimate [Stationary Asset Energy Use](#) using the [Regional Building Energy Intensity](#) method for the desired Fuel Type

Benchmark Asset Performance

- Create a Lightning Report to compare show the “Energy Intensity Variance Percentage” values from the [Stationary Asset Carbon Footprint](#) records