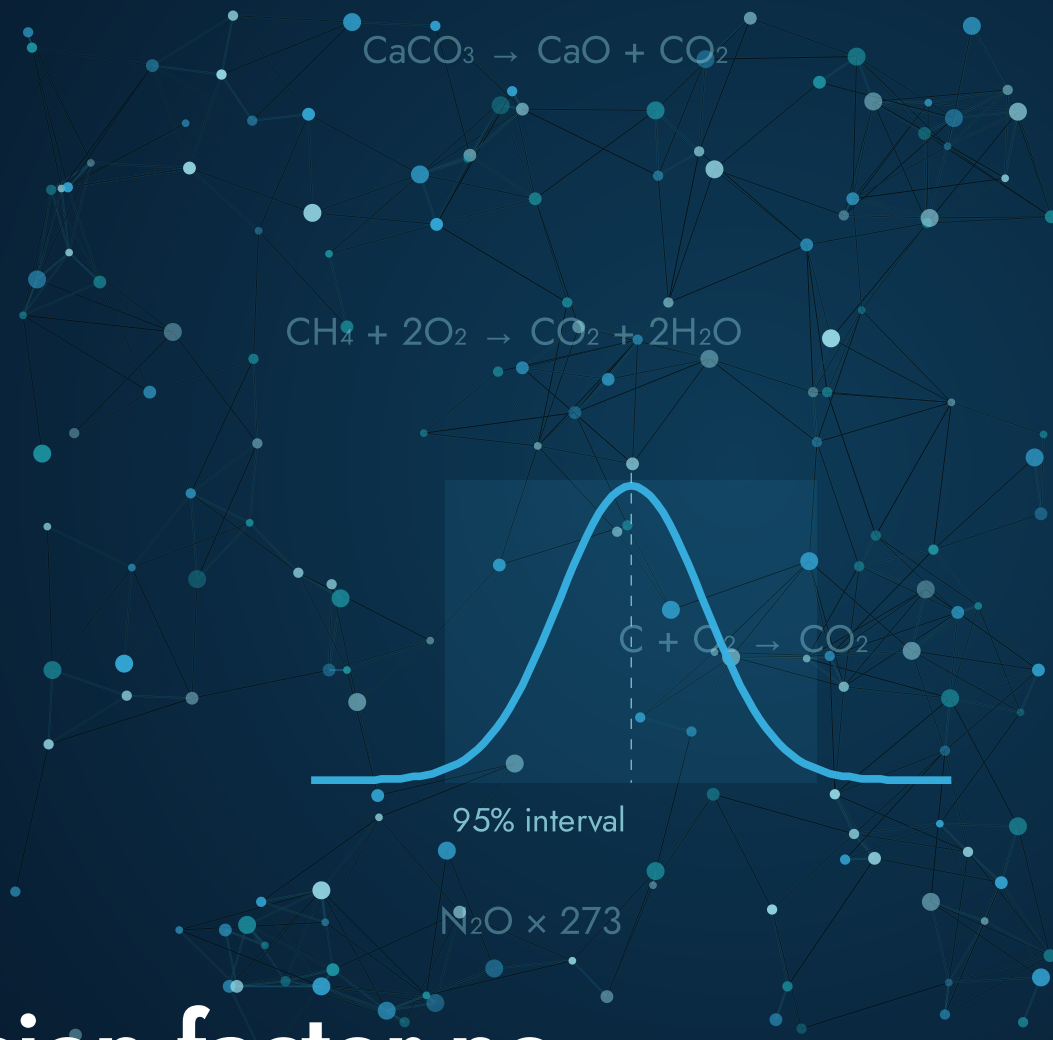
DEISO GHG Kata

Emission factors where none exist

DEISO Make Impact



The emission factor no database has. Built, shown and defended.

DEISO GHG Kata builds emission factors from first principles, with every calculation step shown and a calibrated 95% interval, so the number holds up in a GHG inventory, a product footprint or a review.

- First-principles engine
- IPCC AR6 · GWP100
- Monte Carlo up to 50,000 runs
- Write to openLCA

The challenge

Many materials and local processes have no published emission factor.

Specialty chemicals, local fuels, agricultural inputs and CBAM goods often fall outside every database. Proxies and averages fill the gap, and they rarely survive a reviewer's questions.

What slows teams down

- **A proxy from another product**
  The closest database entry describes a different process, region or technology.
- **A single number, no range**
  Without an interval, nobody knows how far to trust the result.
- **A black box**
  When the method is hidden, the factor cannot be checked or reused.

What changes with DEISO GHG Kata

- **Built from your own process**
  Fuel carbon, process chemistry and energy balances, from your formulas, yields and energy use.
- **A calibrated 95% interval**
  Every result carries its standard deviation; assumptions widen the interval and are flagged.
- **Every step on the page**
  The method, the equations and each source's share of the uncertainty, in a branded PDF report.

Every gas is weighted with IPCC AR6 GWP100, and every step from input to emission factor is shown, so a reviewer can follow it line by line.

How DEISO GHG Kata works

What it does

From your process data to a factor you can defend.

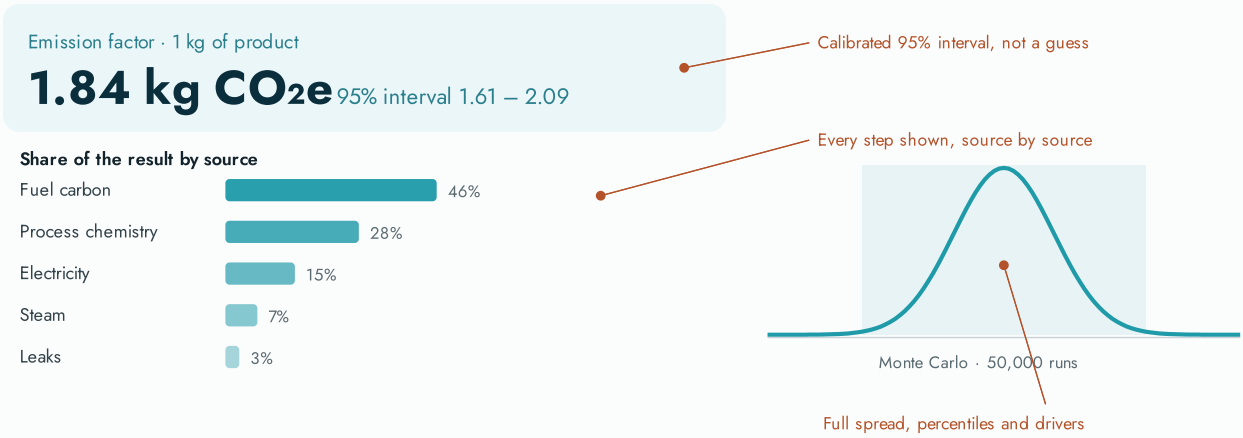


Illustration of a Kata result: the emission factor, its 95% interval, the share of each source and the Monte Carlo spread. Figures illustrative.

First-principles engine

Combustion with CH_4, N_2O and CO; carbonates; organic reactions from formulas and yield; heat, steam and electricity; oxidisers and leaks.

Calibrated uncertainty

Every result with its standard deviation and a 95% interval; assumptions widen it and are flagged.

Sensitivity analysis

Each input up and down, ranked by what moves the factor most, with each source's share of the uncertainty.

Monte Carlo simulation

Up to 50,000 runs: the full spread, percentiles and drivers, with its own PDF report.

Batch and compare

Run many cases at once and compare each estimate with plant or supplier values inside the interval.

Write to openLCA

Send a result straight into openLCA as a process, with a history of every write.

Scope, requirements and plans

Clear about what it does, and what it does not.

Scope of the method

- Gate-to-gate by default; cradle-to-gate with purchased materials
- Biogenic CO_2 reported outside the total; credits shown on their own side
- Every gas weighted with IPCC AR6 GWP100
- Assumptions widen the interval and are flagged
- Optional upstream of the energy used; biogas and CHP gas engines

Before you install

- Windows, 64-bit; nothing else to install, the calculation engine is inside the app
- A licence key from DEISO; a 14-day trial runs every demo example with every feature
- Signed installer; updates are offered inside the app
- JSON, Excel and CSV import with worked examples

Plans, per year

Pro	1 computer	**USD 1,900**
Team	up to 5 computers	**USD 5,900**
Enterprise	per computer · 6 to 25	**USD 1,000**
Enterprise Site	26 or more computers	**from USD 29,900**

Every paid plan includes every feature. Prices in US dollars.

Start with a trial. Prove it on one case. Scale.

14-day trial

Every demo example with every feature, on your own computer.

Your first factors

The materials and processes your inventory or CBAM report is missing.

Across your teams

Team, Enterprise or Enterprise Site, with training and support.

Talk to DEISO

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DEISO GHG Kata
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