NeuerEnergy: Get ready to go net-zero

NeuerEnergy is part of Aqovia, a global digital specialist in cutting-edge transformation solutions. The NeuerEnergy platform is purpose-built to guide organisations on the journey to reducing emissions, meeting sustainability targets, and making a positive social impact.

Who are we?

- Artificial Intelligence
- Machine Learning
- Adaptive learning

- Dashboards
- Portals
- Workflow management

- Cloud solutions
- DevOps
- Smart Content

MAYOR'S INTERNATIONAL BUSINESS PROGRAMME

SUSTAINABLE DEVELOPMENT GOALS

UN75 2020 AND BEYOND | SHAPING OUR FUTURE TOGETHER

enel Green Power

itv

BBC

interxion

vodafone

sky

PEARSON

What is NeuerEnergy?

NeuerEnergy is an end-to-end, cloud-based platform designed to guide you to net-zero more quickly, smoothly, and cheaply.

"The most comprehensive net-zero platform we've seen." **Phil Cole, WindEurope**

A single end-to-end system

User-friendly dashboards help you keep track of global CO2e reductions,
monitor ESG goals, perform cost-benefit analysis, compare mitigation
solutions, and effortlessly manage both internal and external legal and reporting workflows.

Analyse   Plan   Procure   Manage

- **Unbiased analysis of CO2 mitigation options**

- **Total cost and potential savings management (incl. cash flow and risk management)**

- **Transparent and compliant reporting**

The challenges to net-zero

Risk, cost & complexities

- Impending regulations and fines for non-compliance.

- Science-based approach to measuring carbon footprint is complex.

- A net-zero strategy and roadmap is time consuming and expensive.

- Cost-benefit analysis of CO_2 mitigation options, technologies and procurement is confusing.

- Internal resources and external support represent significant costs.

- Transparent reporting across the supply chain is challenging.

Example: How NeuerEnergy transforms energy purchase

Faster
3x faster

NeuerEnergy streamlines renewable energy purchases to save you weeks of tedious marketplace analysis.

By standardising the energy acquisition process across multiple generators, you can reduce the time to gain buy-in and sign contracts **by 67-74%**.

Smoother
Improve and streamline processes

Unify side-by-side energy mix comparisons, AI-enhanced risk analysis, and cost-effective supplier grouping.

Workflow management makes it more straightforward to build consensus and ease negotiation processes.

Cheaper
Save up to 23%*

Control your future energy supply security and spend with minimum additional effort – all while supporting renewable energy initiatives.

*23% avg PPA rate vs commodity rate. https://www.gov.uk/government/collections/industrial-energy-prices

You can analyse the benefit of different technology options

Technologies

Learn more ⧉ ⋮

Technology options

- ⬤ LED
- ⬤ Solar PV
- ⬤ Battery energy storage
- ⬤ Combined heat and power
- ⬤ Heat pump
- ◯ Wind turbine
- ◯ Boiler
- ◯ LPG generator
- ◯ Absorption chiller
- ◯ Electrolyzer
- ◯ Hydrogen storage
- ◯ Nature-based
- ◯ EV charging station
- ⬤ RE-PPAs

LED | **SOLAR PV** | BATTERY ENERGY STORAGE | COMBINED HEAT AND POWER | HEAT PUMP | PPAS

Solar PV settings

You can specify space data at below or you can use "Match space profile" feature where you can pick space value from one of your own site or use "Data library".

[MATCH SPACE PROFILE]   [DATA LIBRARY]

☑ **Roof space**

Total space	Available space	Define install space	Install space
6000 SqMt	2000 SqMt	DEFINE	1500 SqMt

☑ **Ground space**

Total space	Available space	Define i...
4000 SqMt	4000 SqMt	

☑ **Space on the side of building**

Total space	Available space	Define i...
4000 SqMt	4000 SqMt	

Total space: 14,000 SqMt   Available space: 10,000 SqMt   Instal...

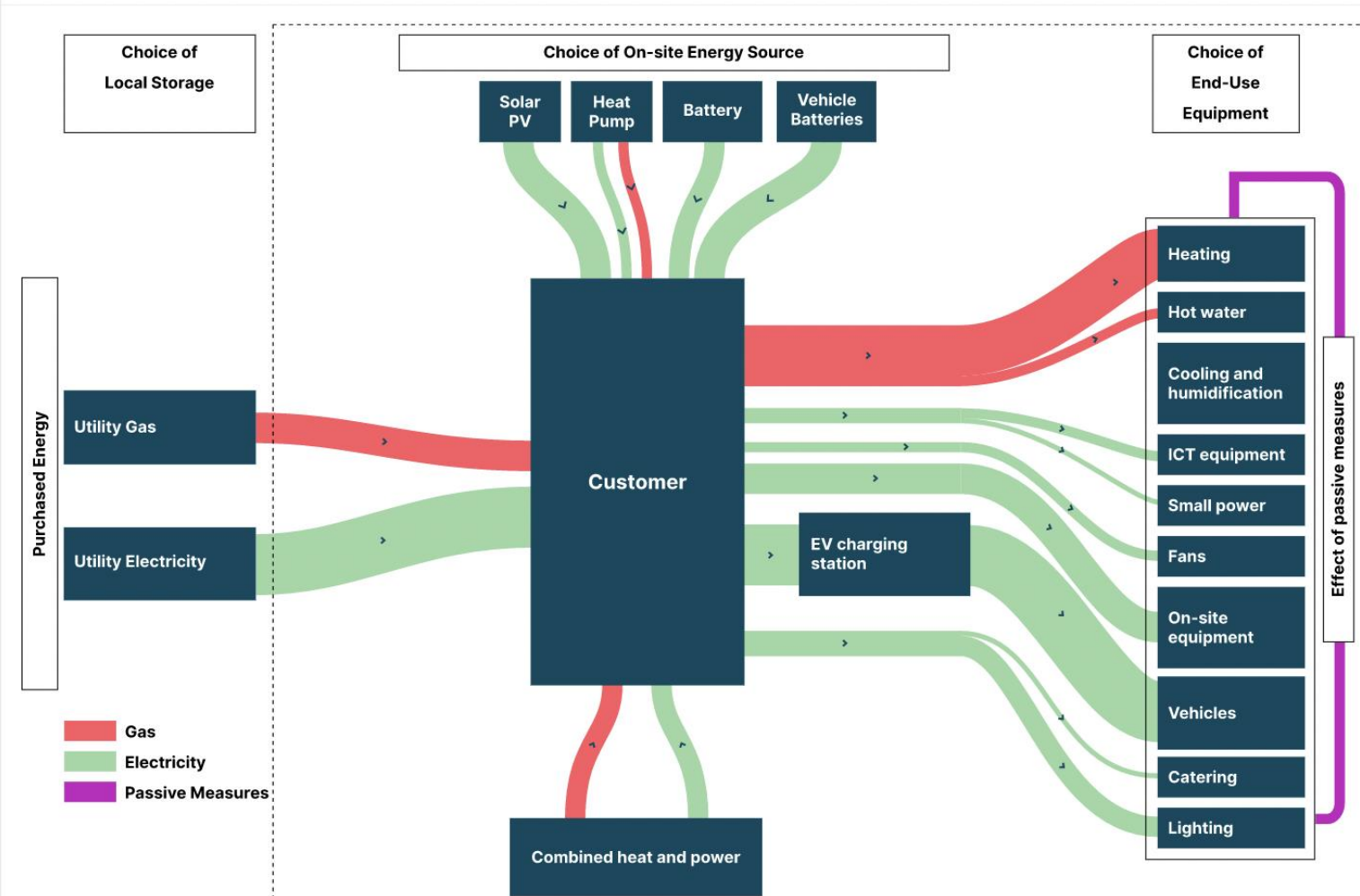Tentative max power generation: 7,500 MWh/year   Tentative max...

Detailed Cash Flow   ⋮

Currency: GBP ▾

	Investment Year	2027	2028	2029	2030	2031	2032	2033	2034	2035
Savings: Utility Demand Charges	0	1,301,979	1,354,058	1,408,220	1,464,549	1,523,131	1,584,057	1,647,419	1,713,316	1,781,848
Savings: Utility Energy Changes	0	867,986	902,705	938,813	976,366	1,015,421	1,056,038	1,098,279	1,142,210	1,187,899
Microgrid OPEX Savings	0	2,169,965	2,256,764	2,347,034	2,440,916	2,538,553	2,640,095	2,745,698	2,855,526	2,969,747
Solar PV & Battery	-1,247,350	0	0	0	0	0	0	0	0	0
Lighting Refurb	-297,917	0	0	0	0	0	0	0	0	0
Electric Vehicles	-12,624,000	0	0	0	0	0	0	0	0	0
Heat Pumps	-480,000	0	0	0	0	0	0	0	0	0
CHP	-909,050	0	0	0	0	0	0	0	0	0
Total CAPEX	-15,558,317	0	0	0	0	0	0	0	0	0
Net Annual Cash Flow (Non-Discounted)	-15,558,317	2,169,965	2,256,764	2,347,034	2,440,916	2,538,553	2,640,095	2,745,698	2,855,526	2,969,747
Cumulative Cash Flow (Non-Discounted)	-15,558,317	-5,511,602	-3,254,838	-907,803	1,533,112	4,071,665	6,711,760	9,457,459	12,312,986	15,282,734

And see how effective they will be based on company data

Optimised investment capacities and dispatch planning

Choice of Local Storage

Choice of On-site Energy Source
- Solar PV
- Heat Pump
- Battery
- Vehicle Batteries

Choice of End-Use Equipment

Purchased Energy
- Utility Gas
- Utility Electricity

Customer

EV charging station

Combined heat and power

End-use equipment:
- Heating
- Hot water
- Cooling and humidification
- ICT equipment
- Small power
- Fans
- On-site equipment
- Vehicles
- Catering
- Lighting

Effect of passive measures

Legend:
- Gas
- Electricity
- Passive Measures

Insights

CO₂e footprint of base year 2022-2023: 8,313 tonnes from 3 sites

Summary

Analysis version
1.0

Included sites
3 sites

Included scope of emissions
- Scope 1 emissions
- Scope 2 emissions

CO₂e mitigation
30%
2,494 tonnes CO₂e

Cost of procurement
15,558,317 GBP

Payback by
2029

SDG* score
2022   20%
2027   40%

** SDGs 7,9,11,13

VIEW SUMMARY >

Net-zero.
Complete control.

Net-zero journey success

- **Baseline** your existing Scope 1, 2 & 3 emissions by onboarding and unifying data from all your sites, wherever they are.

- **Measure the potential impact** of different CO_2 targets, timelines and mitigating technologies to select the optimal pathway.

- **Build internal consensus** using our role-based view and flexible approval flow.

Procure & Manage in one place

- **Choose** one or multiple generators to match your shape, volume, price and location requirements to for renewable energy.

- **Control** contract negotiation flow with automated risk scoring for key contractual elements.

More value. Less risk.

- **Reduce the cost of capital** and **increase shareholder value** by establishing a net-zero roadmap that complies with ESG investment standards.

- **Bring suppliers onboard** to address Scope 3 emissions and decarbonise your supply chain.

- **Manage existing and new contracts** in one place with an overview of settlements, risks, and required actions.

Use case

Pressures from Government Regulations, Branding concerns and Energy security & costs are the key drivers in the market. The software is flexible and persona-centric to allow any user from Finance, ESG/Sustainability and Energy Procurement roles to collaborate on projects and gain buy-in from within their organisations.

Major Sportswear Brand

"Building a carbon neutrality roadmap is difficult when you have global footprint, Building internal consensus is very difficult."

Car Manufacturer

"Very important the transparency of certificates, we need an End-to-End solution."

Multi-National Bank

"We do not know where all our information is and are unaware of the carbon neutrality related calculations."
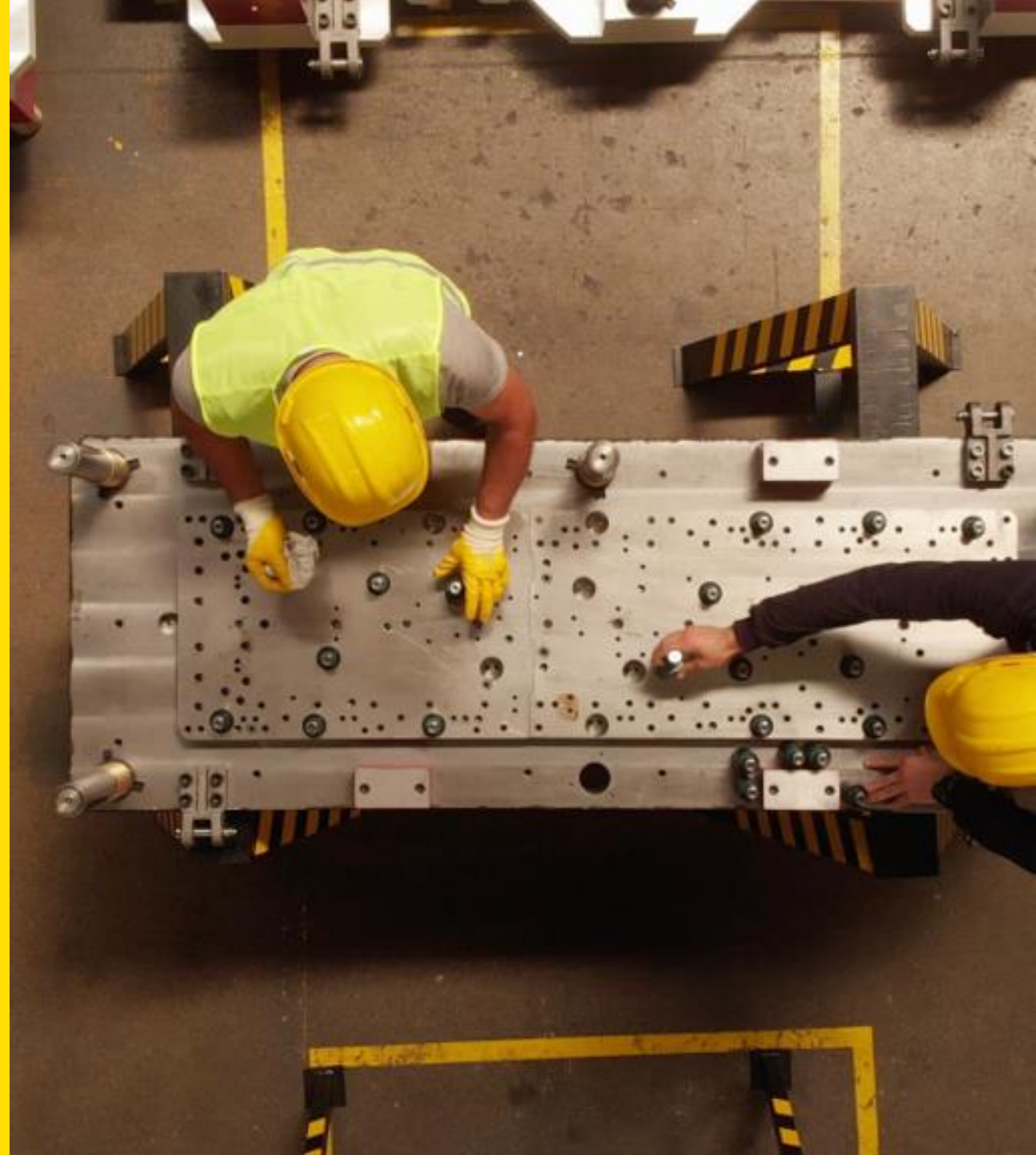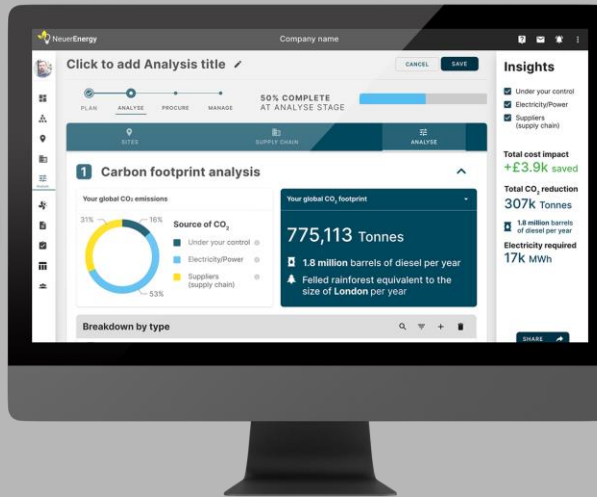
Sustainability. Democratised.

The NeuerEnergy API unifies intelligence and data usually kept in functional silos, including any existing PPAs, REGOs and/or iRECs, to streamline and simplify the end-to-end net-zero journey.

It's a low-cost subscription model that democratises net-zero for small and medium entities.

One single version of the truth

Analyse | Plan | Procure | Manage

Intelligent & Integrated

Forecast management

Demand management

Risk management

Price Fuels | Climate Currency

Risks

Underwriting

Legal

Workflow

Transparency

REGOs RECs | iRECs

Renewable certificate

Book a chat with one of our experts today: https://neuerenergy.com/contact#book-a-meeting
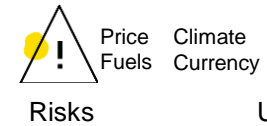
NeuerEnergy

Net-zero has never been this accessible

Contact us for a demonstration and further information

info@neuerenergy.com

Appendix

An intelligent advisor that recommends net-zero pathways

How NeuerEnergy interconnects and aggregates

Purchaser

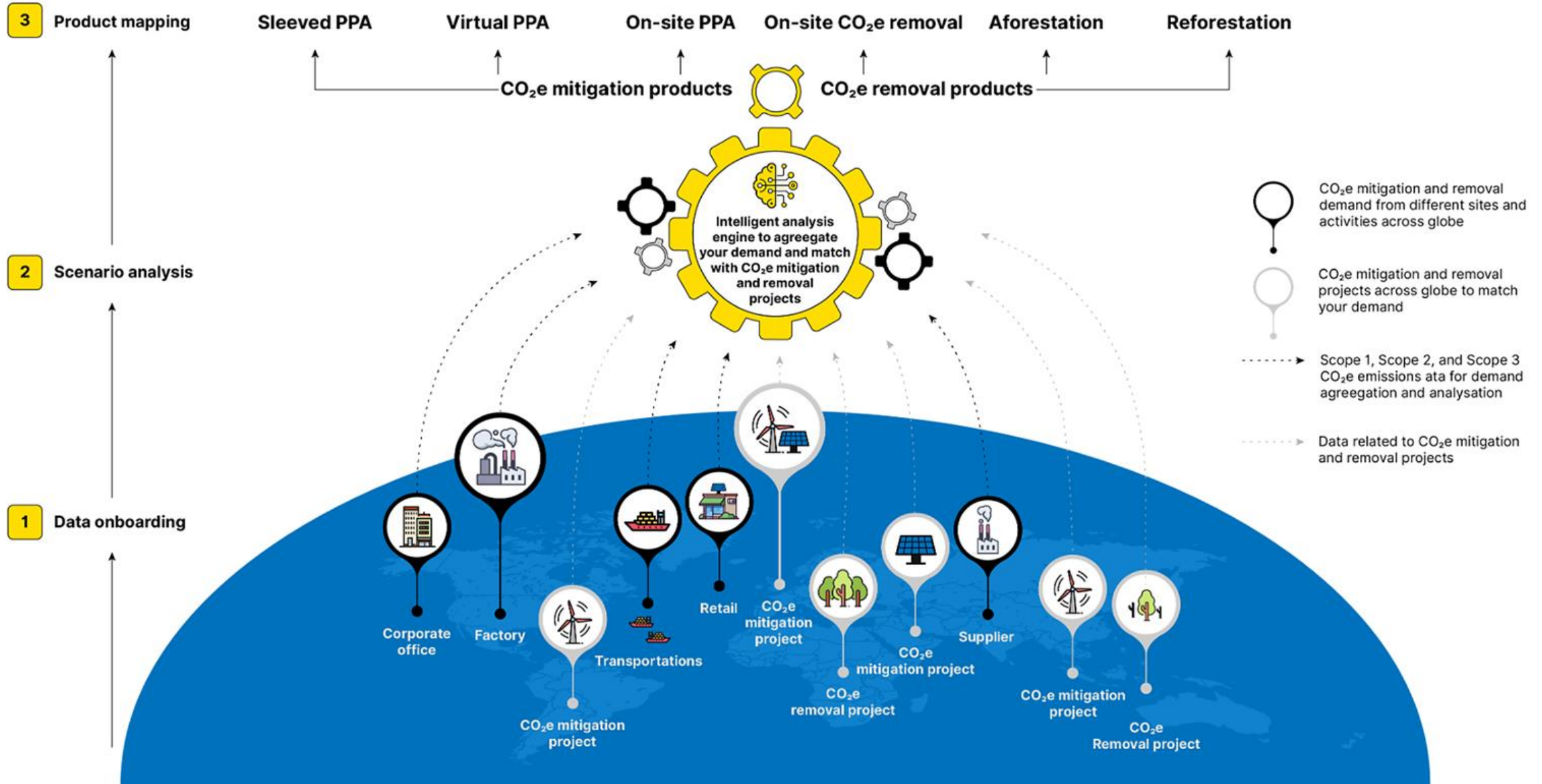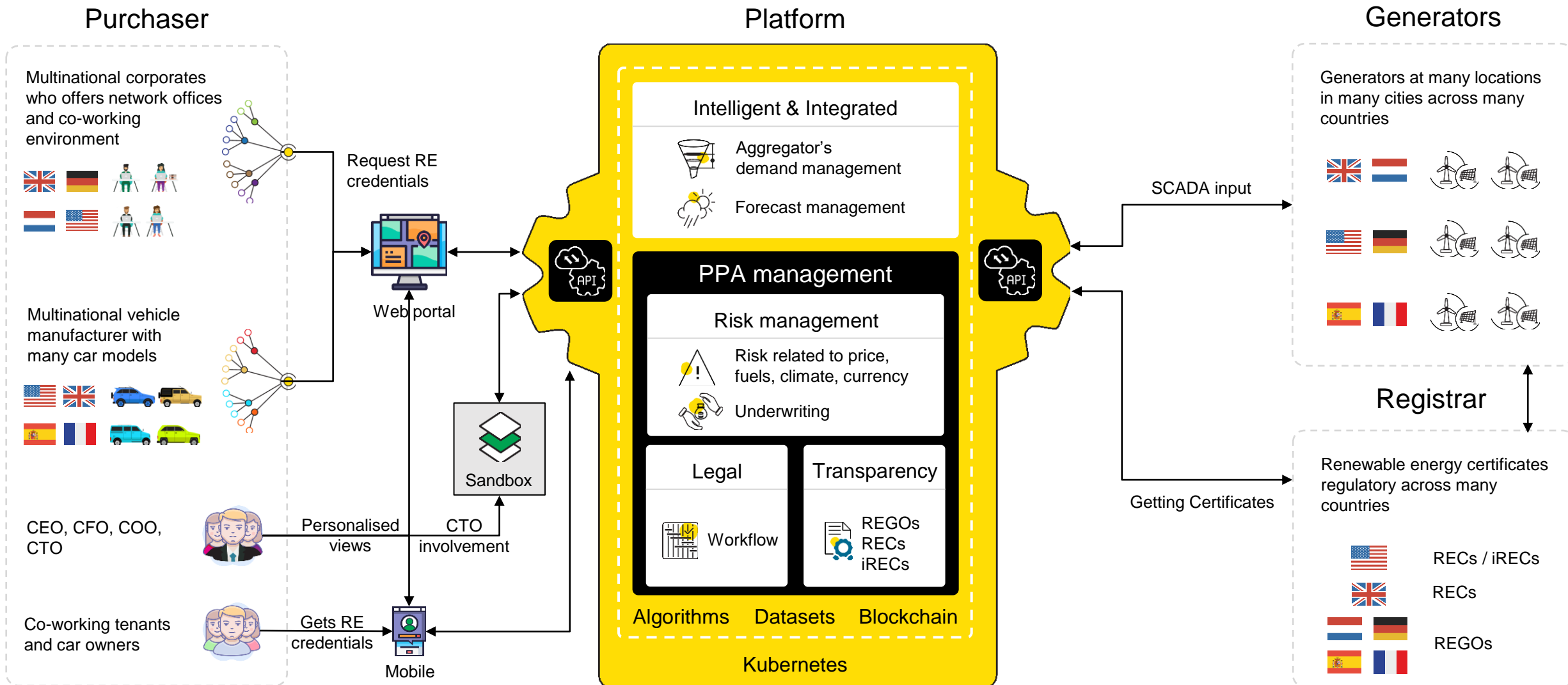Multinational corporates who offers network offices and co-working environment

Multinational vehicle manufacturer with many car models

CEO, CFO, COO, CTO

Co-working tenants and car owners

Request RE credentials

Web portal

Personalised views

Gets RE credentials

Mobile

CTO involvement

Sandbox

Platform

Intelligent & Integrated

Aggregator's demand management

Forecast management

PPA management

Risk management

Risk related to price, fuels, climate, currency

Underwriting

Legal

Workflow

Transparency

REGOs
RECs
iRECs

Algorithms   Datasets   Blockchain

Kubernetes

Generators

Generators at many locations in many cities across many countries

SCADA input

Getting Certificates

Registrar

Renewable energy certificates regulatory across many countries

RECs / iRECs

RECs

REGOs

NeuerEnergy Intelligent demand mapping and forecasting

Aggregator

Multinational corporates who offers network offices and co-working environment

Multinational vehicle manufacturer with many car models

CEO, CFO, COO, CTO

Co-working tenants and car owners

Request RE credentials

Personalised views

Gets RE credentials

Web portal

Sandbox

Mobile

Intelligent demand mapping

Suggested RE offset

High

Medium

Low

SCADA input

CO_2 reduction

PPA management

Cost analysis

Generators

Generators at many locations in many cities across many countries

---

Intelligent & Integrated

Forecast management

Demand management

Legal

Workflow

Risk management

Price Fuels

Climate Currency

Risks

Underwriting

Transparency

REGOs RECs iRECs

Renewable certificate

Algorithms   Datasets   Satellite   Weather   Pricing   Blockchain