
NEBITH

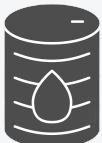


The NExt
Blg
THing

in clean
industrial
power

Diesel gensets are bad for the

environment, your health,
and the economy.



500 GW

Installed capacity in developing countries – equal to India's total capacity



2.5 million

Premature deaths annually – 3X more than malaria

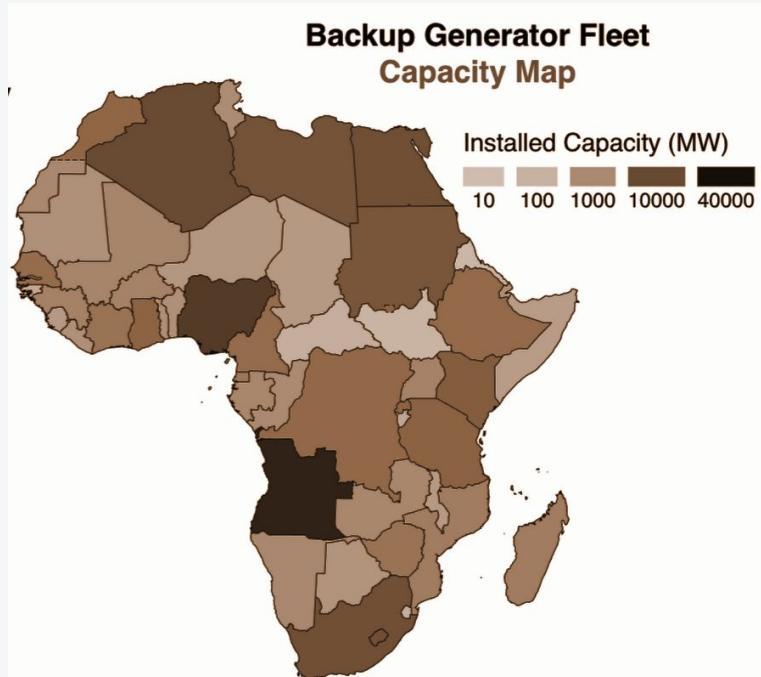


€ 230m

Annual CO₂ bill for Cypriots due to heavy use of HFO and diesel in their grid



...and yet we can't get enough of them



US maker of generators sees demand surge in wake of hurricanes

By Timothy Aeppel

October 16, 2024 7:32 PM GMT+2 · Updated October 16, 2024

Caterpillar partners with Hunt Energy to deliver up to 1GW of power for data centers in North America

First project will be in Texas

August 22, 2025 By: Zachary Skidmore [Have your say](#)

Home / News

Cyprus wasted a sunny day's worth of solar power, and burned fuel instead

Technical glitch kept fossil fuel plants running, forcing solar cuts and adding €31,800 in pollution costs in just one day

We are redefining SaaS: Solar as a Service

Containerized **solar** power,
billed to you monthly



BATTERY ENERGY
STORAGE SYSTEM

PV is the fastest-growing energy source
in the world

600 GWp

installed in 2024

enough to offset 130 Mton CO₂

This revolution has not reached all industries yet



Construction

“Construction contributes around 23% of global carbon emissions. Roughly 5.5% of those emissions are directly related to activities on construction sites, mainly through the combustion of fossil fuels to power machinery and equipment.”

-University of Queensland



Data centres

Google backs 400MW gas power plant tied to carbon capture in Illinois

The company claims 90 percent of the emissions produced will be permanently sequestered

Other off-grid industries:



Mining



Ports



Farming



Events

Grid upgrades are costly



Grid bottlenecks are ballooning



Sometimes there's no grid at all



Off-grid industries run on fossil fuels and emit up to **100 Mton CO₂** per year.

-

**“We hired a fancy
new electric
excavator, but we
couldn’t charge it
the next day”**

UK construction site manager



Slow approval for
connections

Complex authorization
processes

Investment paralysis

—

“Smog hangs over Beirut most days, a brownish cloud that darkens the city’s skyline of minarets and concrete towers.”

The Guardian

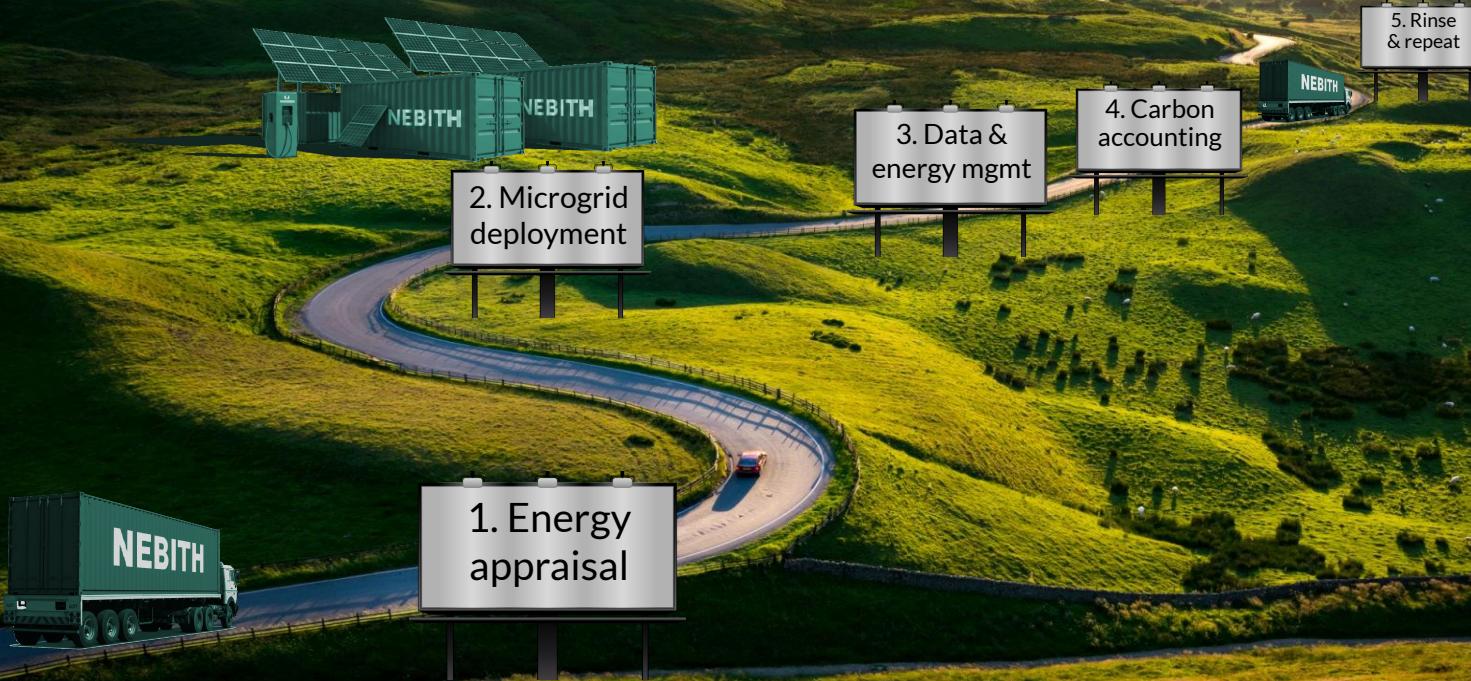


8,000 generators running every day

1 - 7 g NO_x/L

Beirut's cancer rate has 2x since 2019

Here's how we're going to solve it



Our microgrid in a snapshot:

Lightweight, foldable PV array

- 70% weight reduction
- no need for groundwork
- Fits in a 20ft container
- Automated deployment
- 350 kW power in <1 hour

Industrial EV chargers

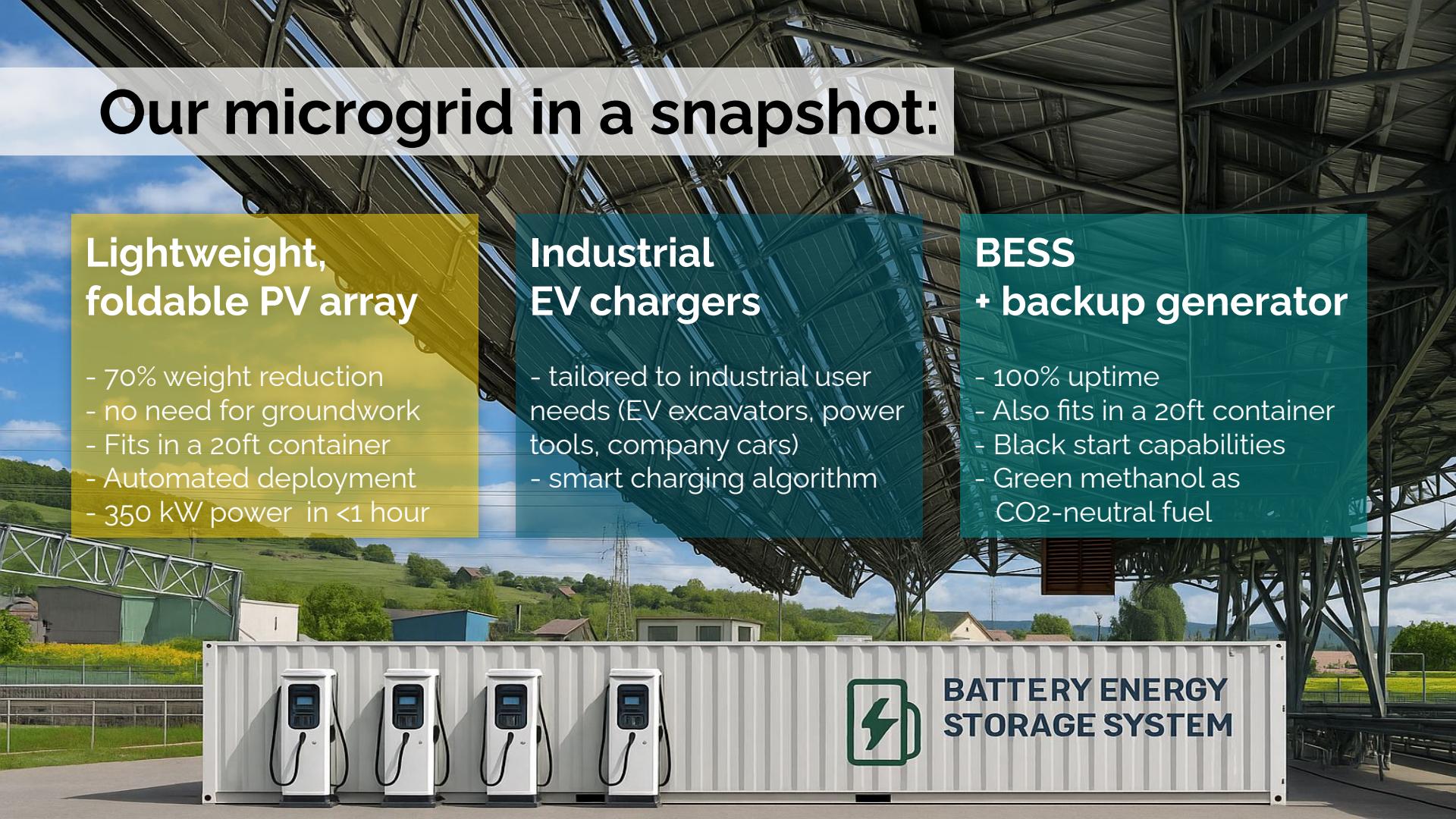
- tailored to industrial user needs (EV excavators, power tools, company cars)
- smart charging algorithm

BESS + backup generator

- 100% uptime
- Also fits in a 20ft container
- Black start capabilities
- Green methanol as CO₂-neutral fuel



**BATTERY ENERGY
STORAGE SYSTEM**



Data & Energy management at the core of our operations

Proprietary
dashboard for
remote
monitoring, fault
prediction, billing,
and carbon
accounting



The NEBITH advantage

| | Genset companies | NEBITH |
|---|------------------|--------|
| 1 Powered by solar energy | ✗ | ✓ |
| 2 Energy management from start to finish | ✗ | ✓ |
| 3 Fixed and predictable electricity pricing | ✗ | ✓ |
| 4 Verifiable CO ₂ , NO _x , VOC reduction | ✗ | ✓ |

The Team behind NEBITH



Led 20 engineers to turn
100 EV batteries into a
4 MWh BESS

[Lorenzo
Grande, PhD](#)
CEO



Managed £16.5m worth of
energy system upgrades in
the public sector

[Viktor
Malovs](#)
CTO/COO

What's our business model?

We are adapting power purchase agreements to the off-grid market:

Pay per use fee

Fixed electricity rate for the whole lease

Standing charges

3-year equipment lease

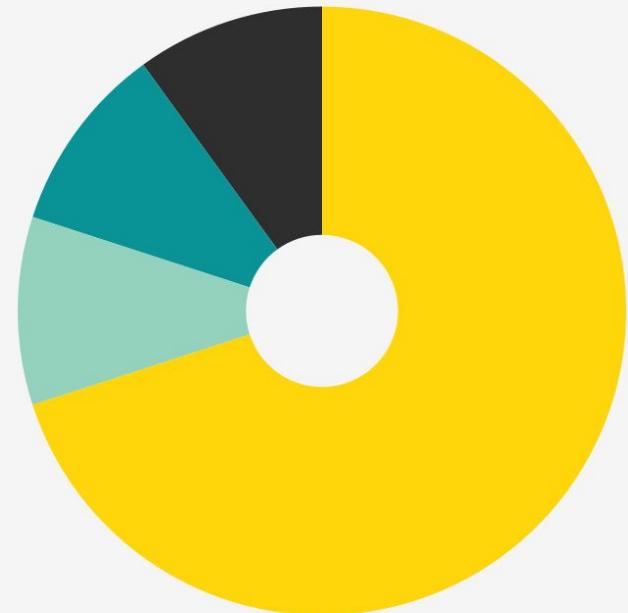
O&M fee

We maintain the grid for you

Carbon fee

Carbon credit management

● PPA ● Standing charges ● O&M ● CO2



All of this at a lower TCO than a regular diesel genset!

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