



visblue
energy in the flow

Wind Energy Denmark 2019
1. October 2019

**wind
denmark**

the problem and solution



provide wind turbine with **own** consumption



frequency **regulation** to the grid operator



transformation of **fluctuating** energy production into base load



peak **shaving** – charge the battery when energy prices are low – sell **when** prices are **high**



the team



Søren Bødker
CEO



Anders Bentien
Senior technical advisor

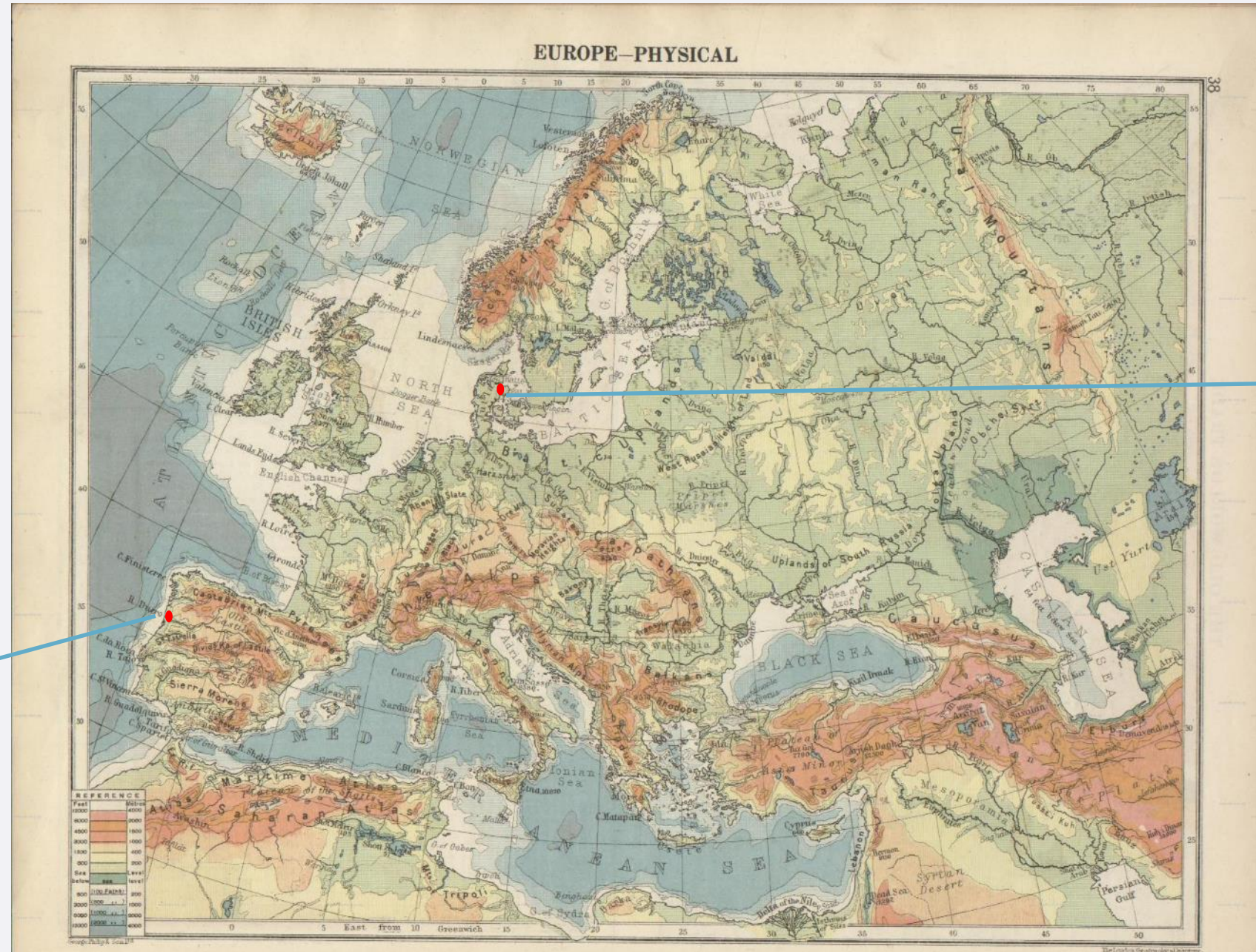


Adelio Mendes
Senior technical advisor



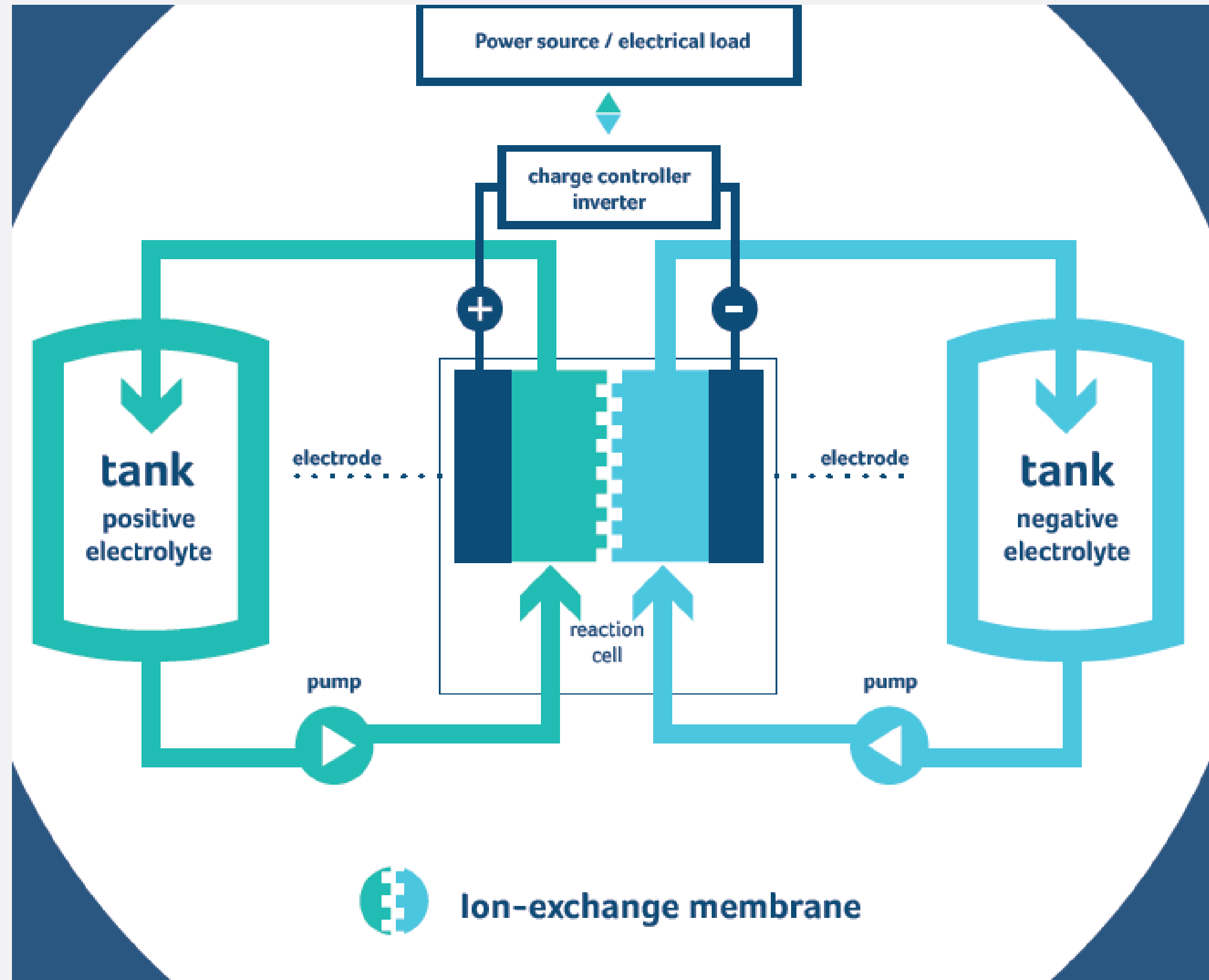
Morten Madsen
R/D engineer

the company our offices

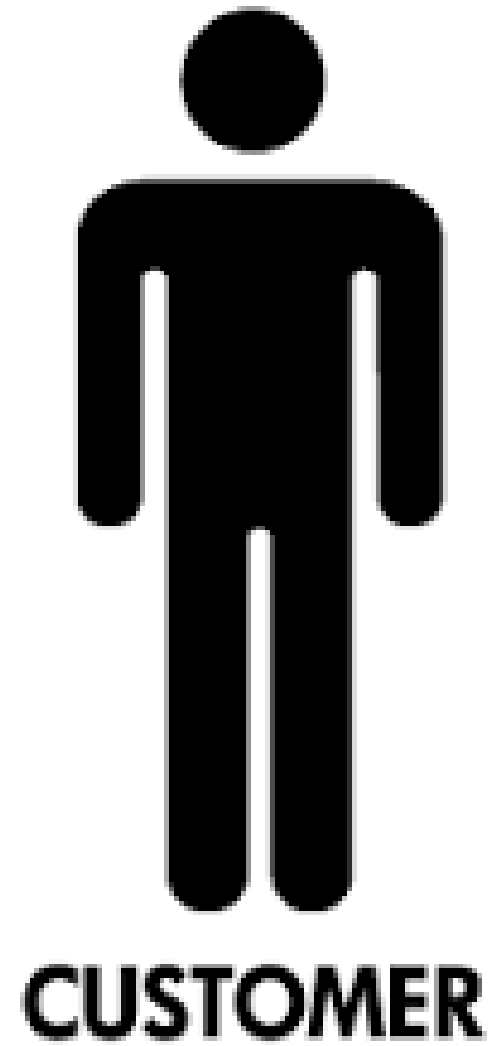


the technology

vanadium redox flow battery



our unfair advantage
we provide a scalable solution

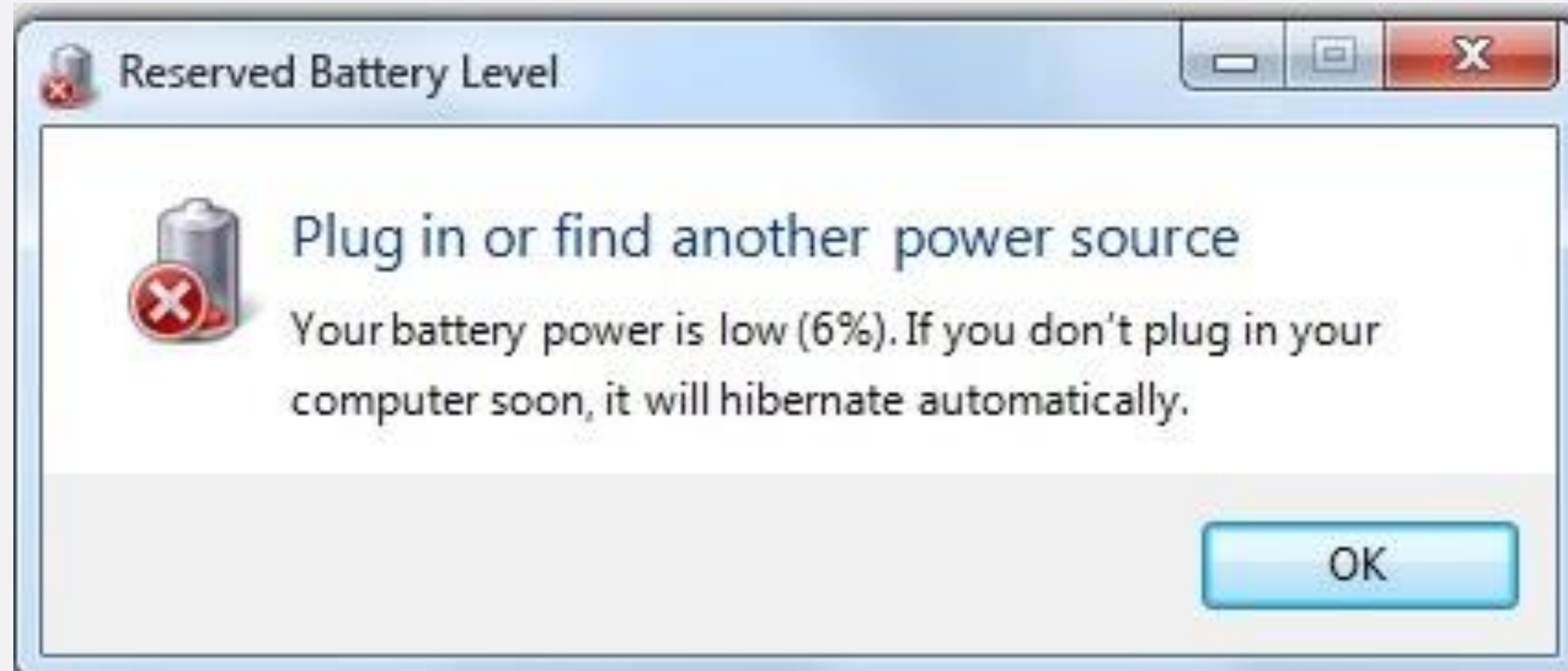


CUSTOMER



our unfair advantage

essentially infinite lifetime



our unfair advantage
the battery has zero risk of exploding

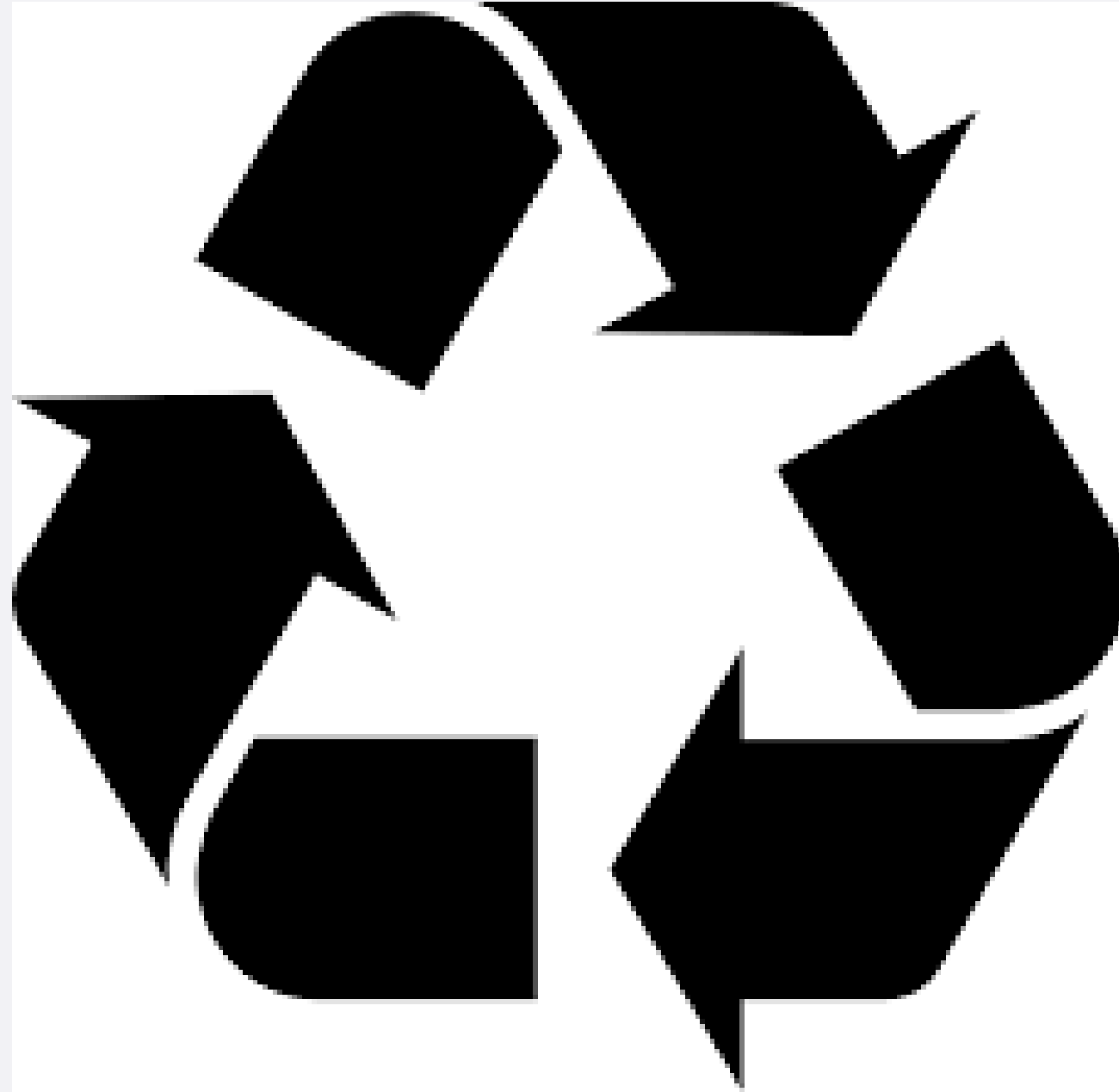


lead battery



li-ion battery

our unfair advantage
the battery is 99% recyclable



customised design



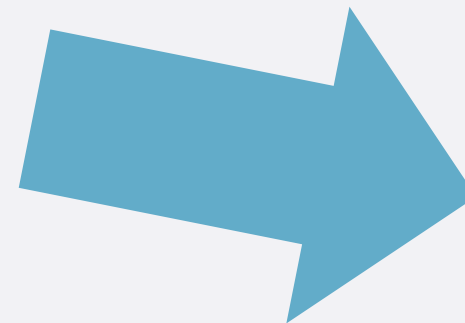
**standard
module**



indoor



container



outdoor

EuroWind project



wind turbine installed



solar panels installed



2 batteries installed



10 kW and 80 kWh installed



Livø installation

- ✓ 10 people live on the island
- ✓ solar panels installed (30KWh)
- ✓ wind turbine installed (25kW)
- ✓ 3 gensets installed
- ✓ 5kW@40kWh battery installed



the gensets are going to be removed

UN world goals



cloud solution



big data in the cloud



service



better use of the produced electricity





cobalt

“Human rights activists have alleged, and investigative journalism reported confirmation, that child labor is used in mining cobalt from African artisanal mines”

vanadium

“...Many other methods (production) are also in use, in all of which vanadium is produced as a byproduct of other processes”

Responsible Consumption and Climate Action



buy back option



cost reduction of 60%



refurb version



Why VisBlue?

The most cost-effective solution for energy storage

Our solution is totally safe and 100% recyclable

VisBlue has the right team to do it

We can boost the transition for renewable energy usage

Thank you!