

RENEWABLE

**FOR.E**

ENERGY

FUTURE

OF

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of renewable energy  
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# FoR-E

## COMPANY OVERVIEW:

FoR-E is a European company specializing in sustainable energy storage solutions, with a focus on providing **environmentally friendly and innovative energy storage technologies**.

## MISSION STATEMENT:

FoR-E is committed to advancing the adoption of **sustainable energy storage solutions** to contribute to a cleaner and more sustainable future.

The company aims to lead in the development and implementation of **cutting-edge energy storage technologies**.

## CORE VALUES:

### **SUSTAINABILITY:**

FoR-E places a strong emphasis on sustainability, promoting eco-friendly practices and solutions in the battery industry.

### **INNOVATION:**

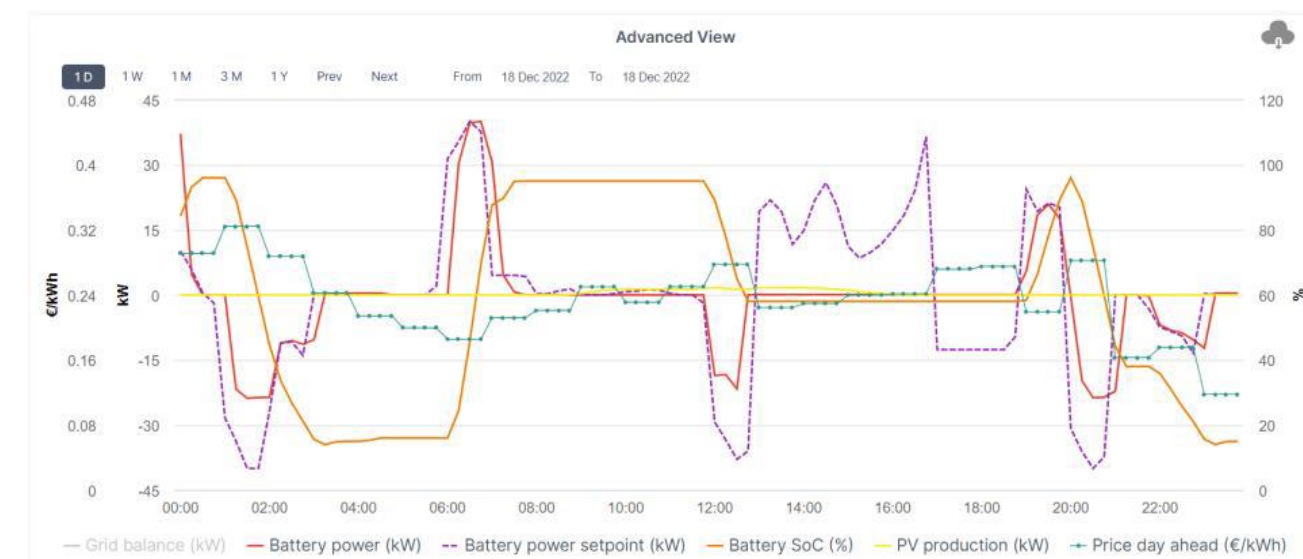
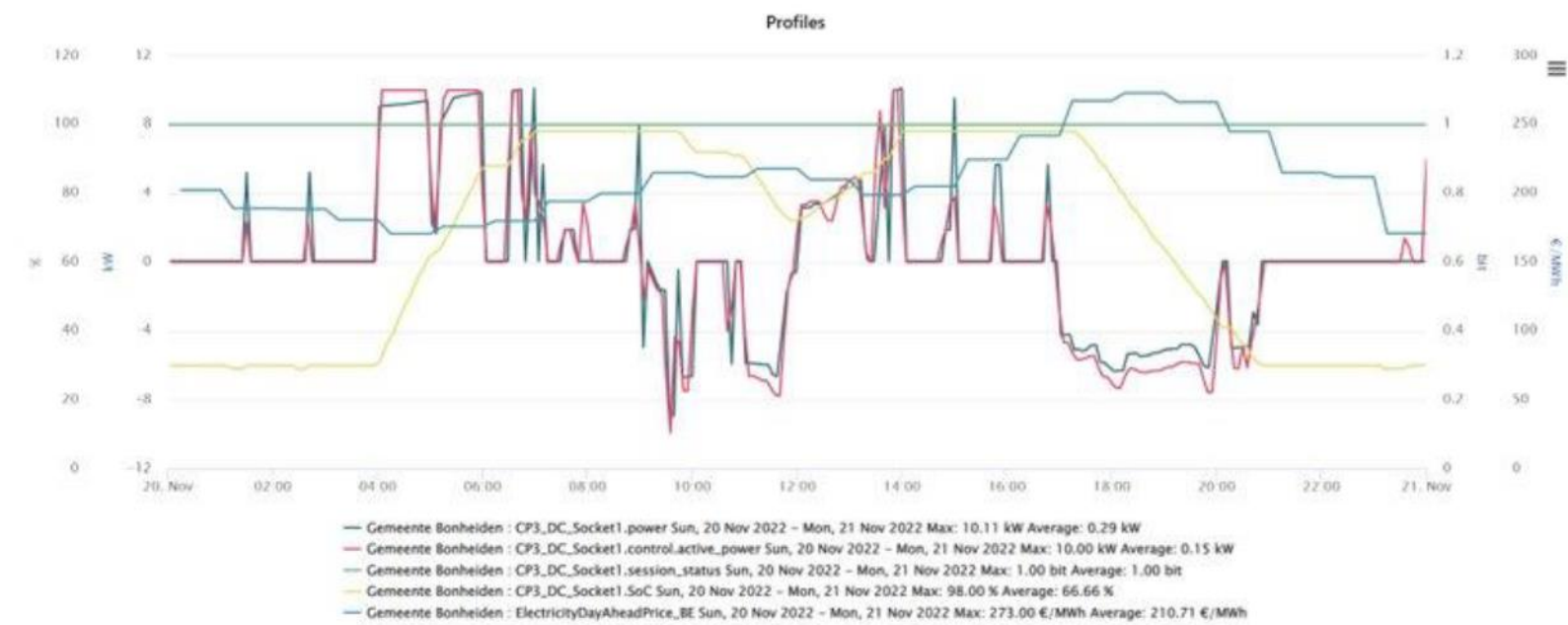
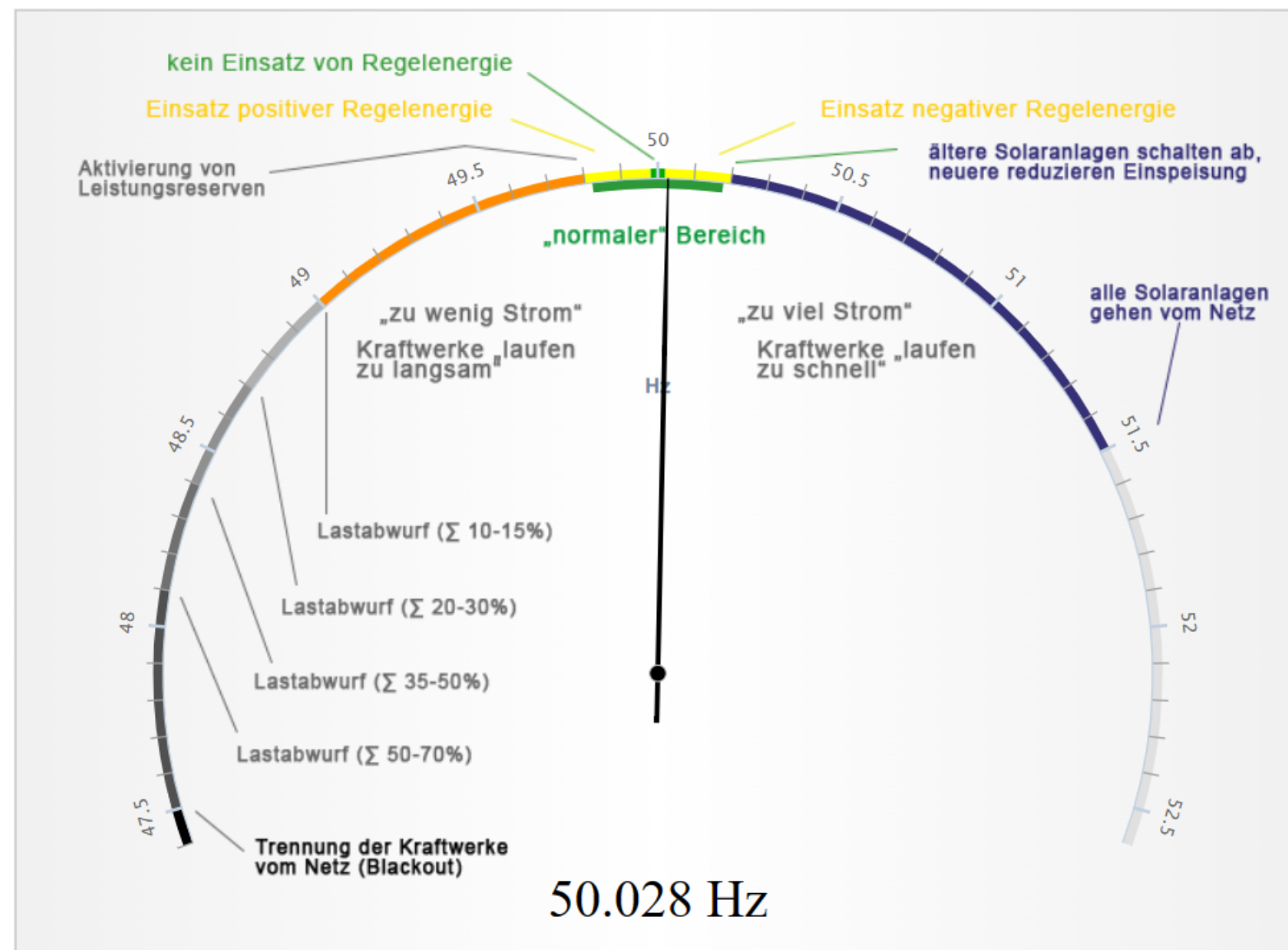
The company is dedicated to continuous innovation, seeking to pioneer new and advanced technologies in the field of energy storage.

### **EUROPEAN IDENTITY:**

FoR-E takes pride in its European roots and contributes to the region's goals of environmental sustainability and technological leadership.



# Our Mission



# Our Purpose

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## OUR ATTITUDE

Your expert acquaintance

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## WHAT WE DO

We empower people and companies to make the switch to reliable green energy through **safe**, practical and truly **clean storage** solutions with **cost-saving software**. Giving people the best possible ROI and long-lasting technology. We are the future of renewable energy.

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## WHY WE EXIST

We are your solid green energy transition reliever

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## HOW WE DO IT

Maximizing impact

Transforming  
together

Solidarity &  
passion



YOUR  
SOLID  
GREEN  
ENERGY  
TRANSITION  
RELIEVER

## Our Product Vision

WHAT WE WANT OUR PRODUCTS  
TO REPRESENT IN THE FUTURE

FoR-E envisions **pioneering sustainable energy storage solutions** as a cornerstone of Europe's green energy future. Our vision is to produce cutting-edge, environmentally responsible energy storage within Europe, **fostering regional innovation and economical growth.**

Committed to a circular economy, FoR-E strives for maximum recycling impact, minimizing waste and promoting a sustainable end-to-end lifecycle. Through our products, we aim to empower **a cleaner, more resilient energy landscape, setting new standards for excellence and environmental stewardship.**

FoR-E: Shaping tomorrow's energy with European ingenuity and a commitment to sustainability.



OUR INNOVATIVE  
TECHNOLOGY

# Hybrid Supercapacitor

## ALSO KNOWN AS:

Ultracapacitor

## STORAGE OF ELECTRIC CHARGE:

This is a particularly powerful capacitor with a capacitance value that is far above that of other capacitors.

Here, the energy is **stored electrostatically** on the surface of the material.

## NO CHEMICAL REACTIONS INVOLVED:

### **FASTER CHARGE AND DISCHARGE RATE:**

Supercapacitors can charge and discharge much faster than batteries. This makes them ideal for applications that require high power bursts, such as regenerative braking and power tools.

### **LONGER CYCLE LIFE:**

Supercapacitors can withstand many thousands of charge-discharge cycles, while batteries typically last for hundreds or thousands of cycles.

### **MORE ENVIRONMENTAL FRIENDLY:**

Supercapacitors do not contain any toxic chemicals, so they are more environmentally friendly than batteries.

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# Intro on the system

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## L I F E E X P E C T A N C Y

+ 50.000 cycles (+80% capacity after 32000 cycles (DOD 100%))

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## P O W E R

Very high-power density (only limited by the wiring and the internal resistance)

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## R E S P O N S E T I M E

Reaction time of 10 milliseconds

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## F I R E P R O T E C T I O N

No fire risk: The graphene removes the oxygen in the event of a fire

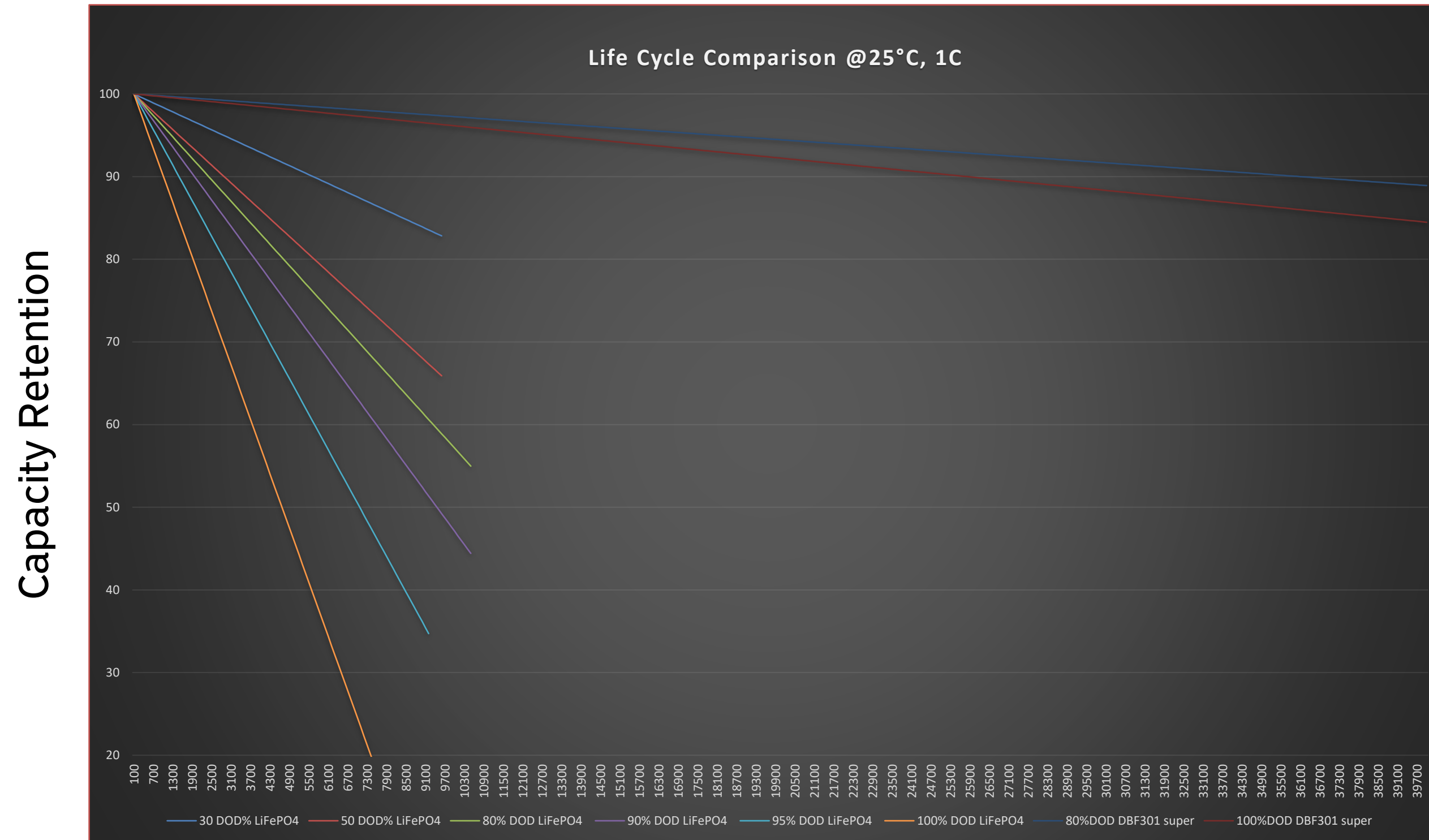
Electrostatic: No chemical reactions to release energy

No risk for thermal runaway

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# Basic parameters and performance



**High Energy Transfer Efficiency**  
 Unlike standard batteries, Supercapacitors have a **DOD of 100%**, and can charge & discharge at **lightning-fast speeds**.

**Enjoy Decades of Performance**  
 Supercapacitors have an ultra-long lifespan: **+50000 cycles** (Guaranteed capacity still over 80% after thirty-two thousand cycles).

**Environment Friendly & Safe**  
 Supercapacitors are **non-toxic**, function **without chemical processes** and are **100% fire-safe**, making them superior for our planet and your safety.

Source:  
 • Hybrid capacitor long term cycle life study and charge sharing analys. – Florida State university, FL32310, USA Tongli Univeristy – Shangai 201804, China  
 • Shenzhen Tiansu Calibration and Testing Co.,Ltd

**Conclusion: The cycle life exceeds 32,000 cycles.**



OUR ENERGY  
STORAGE SYSTEMS

# SUPER CAPACITOR MODULE



## Our Product Vision

Solutions for Domestic projects  
from 6 kWh to 14 kWh

Energy storage for

Backup power:

Supercapacitors can be used to provide backup power for homes and businesses. They can be connected to a solar power system to store excess energy from the sun.

This stored energy can then be used to power homes or businesses during power outages.

Energy storage for renewable energy sources:

Hybrid supercapacitors can be used to store energy from renewable sources. This stored energy can then be used to power homes

Target customers

Private customers



# SUPER CAPACITOR RACKS



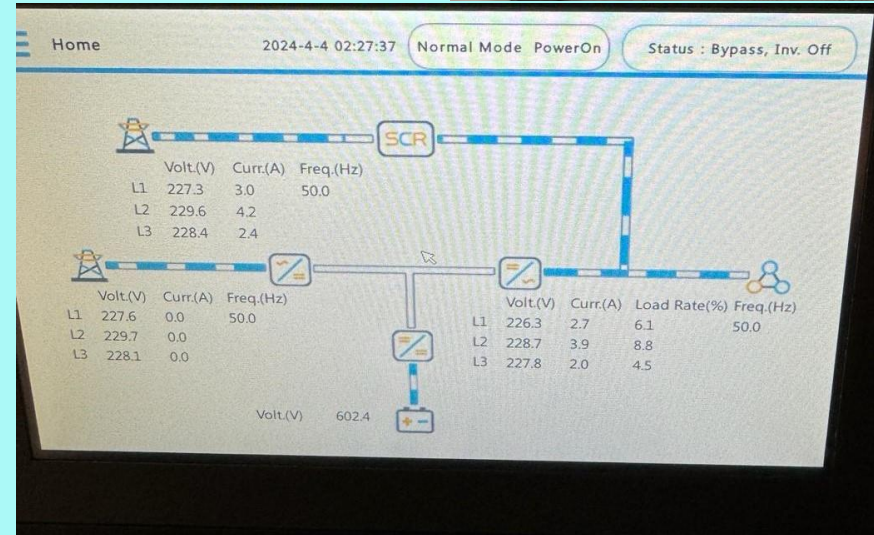
## Our Product Vision

Solutions for small projects  
from 20kWh to 100 kWh

- Energy storage for In the event that energy is to be stored for later use (e.g. solar energy during the day - use at night).  
Smoothing of load peaks
- Target customers  
Private customers



# SUPER CAPACITOR UPS RACKS



## Our Product Vision

### Solutions for UPS

- Advanced eco mode 99% efficiency & 2ms typical switching time
- The design focuses on reliability, safety and convenience Of operation and maintenance.
- Target customers:  
applicable to data centers  
Meets the data center deployment of government, education, medical institutions, bank branches, enterprise headquarters, smart industrial park, rail transit, airport.



# SUPER CAPACITOR CUBE



## Our Product Vision

Solutions for Industrial projects  
from 250kWh Up to 2MWh

Energy storage for

- the case of overproduction
- In the event that energy is to be stored for later use (e.g. solar energy during the day - use at night).
- Smoothing of load peaks
- Energy trading on the international energy market

Target customers

- Network operator
- Industry
- Larger residential and office complexes
- Hospitals and shopping centres



# Supercapacitor CUBE

## GOOD TO KNOW

The Cubes are most customized systems, we can provide one stop solution including design, assembly, installation, maintenance, shipping, training, welcome to send us your inquiry.

## STORAGE OF ELECTRIC CHARGE:

The cube ESS System is a complete, self-contained battery solution for a large-scale industrial & commercial & rural energy storage. The batteries and all control, interface, and auxiliary equipment are delivered in a single shipping container for simple installation on site.



## COMPONENTS:

Designed with air vents, temperature control systems, AC systems, and fire fighting equipment.

- **Air Vents:** Air vents are installed in the container walls or ceiling to provide ventilation. This helps to prevent moisture build-up and keep the air inside fresh. It also helps to regulate the temperature inside the container.
- **Temperature Control Systems:** Temperature control systems is been added to the container to maintain a specific temperature range.
- **AC Systems:** AC systems is been added to the container to provide additional cooling or heating. The AC systems helps to improve the air quality inside the container.
- **Fire-fighting Equipment:** Fire-fighting equipment is been installed in the container to help prevent fires or to extinguish them quickly if they occur. For the protection of the 20" container, we propose a separate 70 bar extinguishing system. Design specification according to EN15004.

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OUR ENERGY  
MANAGEMENT SYSTEM

# FoR-E Link

## SMART SECURED INDEPENDENT PLATFORM

A smart energy platform flexible, secure, reliable, and cost-effective



## 4 KEY SOLUTIONS

### Data Collection and Analytics:

Collect data from various sources, to create a comprehensive view of energy consumption patterns. Advanced analytics tools analyze this data to identify energy usage trends, pinpoint inefficiencies, and predict future demand.

### Demand Response Programs:

Encourage consumers to shift their energy consumption patterns during peak demand periods. Balance the grid and reduce strain on the infrastructure.

### Energy Efficiency Optimization:

Optimize energy efficiency by analyzing data and providing personalized recommendations to users.

### Renewable Energy Integration:

Smart energy platforms enable the integration of renewable energy sources, such as solar and wind power, into the grid. They can coordinate the dispatch of renewable energy and balance it with traditional sources to ensure a stable and reliable supply.

## BENEFITS:

Reduced energy costs

Calculated R.O.I.

Improved energy efficiency

Increased comfort

Reduced environmental impact

Enhanced compliance with energy regulations

**FoR-E**

OUR FUTURE ENERGY  
STORAGE SYSTEMS



**FOR.E**

G-PRO SERIES 10.000 MAH

**GRAPHENE  
POWER**

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TELECOM  
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S.p.A.  
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R.E.A. n. 02453001000

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FOR.E



FORB



FOR3

OUR PARTNER



**SUPROENERGY**  
— Your smart energy life

## Our Partner in R&D and Manufacturing

Shanghai SUPRO Energy Tech Co.,Ltd. as a high-tech enterprise of Energy storage systems in China.

Together with SUPRO Energy we continue to strive to build a benchmark enterprise of Supercapacitor energy storage systems

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# OUR FUTURE

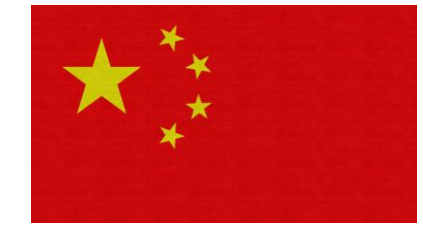
# Latest EU News

EU's Net-Zero Industry Act aims to bring home clean tech production



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# New Assembling Facility Belgium



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