



**SUNLIGHT**

POWER IS KNOWLEDGE

**IENE**

April 2024

# Disclaimer

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# At a glance

Sunlight Group is a global technology company, and manufacturer of industrial batteries and advanced Energy Storage Systems



**30+** years  
experience in the  
battery market



Presence in  
**4** continents  
and **14** countries



**4** battery technologies



**1.1** bn rev in 2023



**3,600+**  
employees



**5** R&D hubs



**35+** facilities  
worldwide



# Our Journey

From a Business Unit to a global Sunlight Group

1991

**Battery manufacturing plant** acquired in Xanthi by GERMANOS S.A.

2006

**Systems Sunlight** established as a separate company

2014

**Sunlight Recycling** established

2019

**Sunlight USA** established; construction of assembly plant in Greensboro, NC

2020

**Sunlight Group** Global expansion: M&As and multi-million investments across operations

2022

**2nd US facility** established in Mebane, NC; dedicated to lithium-ion production

2023

**6m cells** capacity  
**€1bn+** turnover  
**3,400+** employees

2024

**9GWh** in Pb  
**14 GWh** in Li  
**€1,2bn+** turnover  
**3,600+** employees



## Innovation stems from our R&D Team

### Research

- Electronics
- Electric
- Software



### Development

- Motive
- Stationary
- Mechanics
- Materials



### Engineering

- Design
- Production



### New Technologies

- Research
- Key projects



### Certification

- Prototyping
- Testing
- Certification



200+



- Electrical engineers
- Firmware engineers
- Software engineers
- Data analysts
- Mechanical engineers
- Thermal simulation experts
- Mechanical simulation experts
- Field application engineers
- System engineers
- Electrochemists
- Physicist
- Technicians

# Serving very demanding global sectors



## Energy Storage Systems (ESS)

- ✓ For grid-scale, commercial, industrial and home storage solutions

## Industrial Mobility

- ✓ Electric vehicles for intralogistics, robotics, automated Guided Vehicles

## Commercial Mobility

- ✓ Applications for farming
- ✓ Construction
- ✓ Public transportation and rolling stock
- ✓ GSEs, Sweepers

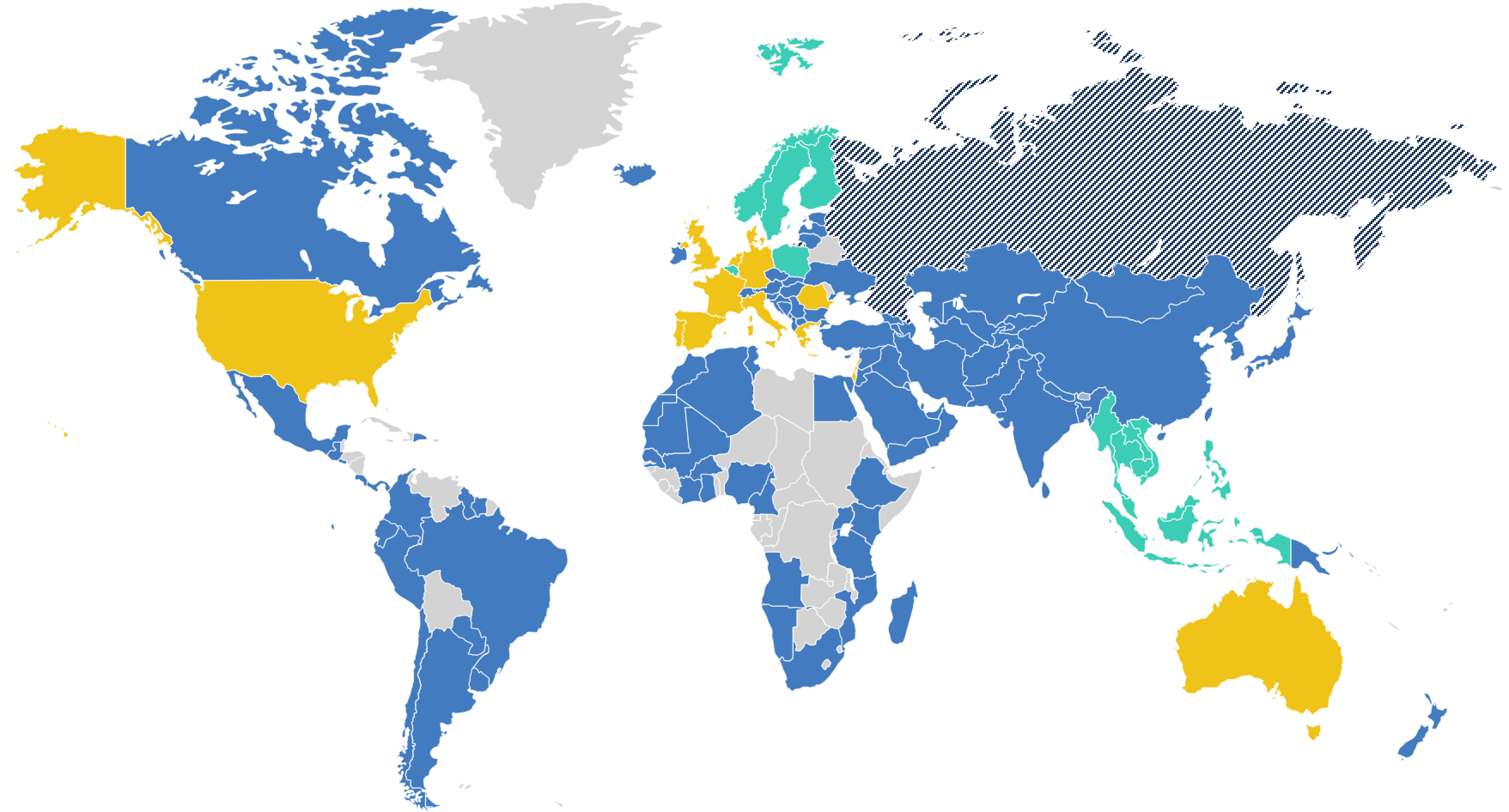
## Recycling

- ✓ Lead Acid, Lithium

## Stationary/Backup power



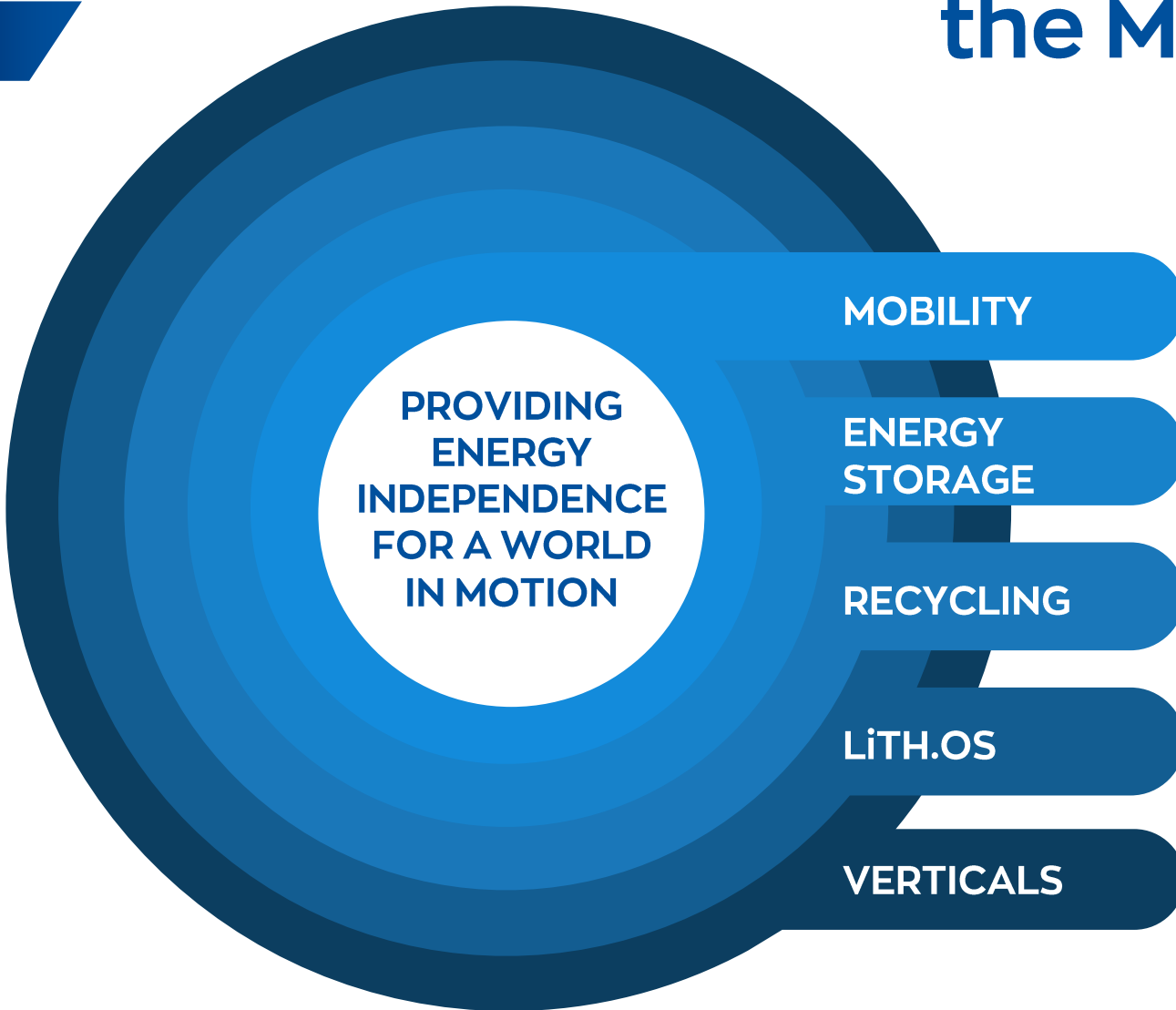
# Sunlight supplies the global market with innovation “made in Europe”



**99%** exports in **115+** countries

- Plants & Subsidiaries
- Authorized Dealers and Service Centers
- Target Markets

# Our key strategic pillars to lead in the Mobility and ESS markets



- Operating manufacturing plants for Mobility Solutions and investing in world-class R&D facilities and talent
- **9GWh capacity and 350,000 complete batteries assembly capability in Lead-acid technologies. 6 GWh in Lithium assembly in 3 plants**, with investments under way to exceed **8 GWh**
- Focus on delivering the promise to the customers, innovative commercial policies, Energy as a Service

- Binding agreement with a **top 7 Global ESS front of the meter system integrator** with expected cumulative volume of >20 GWh by 2030
- Top tier customers in the **C+I product range**
- Strong & growing R&D team focused on developing new Lithium products (in-house BMS developed within 18months)
- World Class ESS leadership & team with vast experience in the ESS complete solutions on a global scale.

- Developed a proprietary, innovative and financially viable recycling process exclusively for **LFP lithium batteries**
- Expanding the lead acid by integrating UBATT with 100% ownership, the biggest collector of used batteries in Germany.
- Doubling the capacity of the Komotini based smelter to **100.000 tons by mid 2025**.

- **20GWh lithium cells gigafactory dedicated to Motive & ESS**. Solely owned and operated in the EU
- Proven technical results of own technology
- Robust R&D global team with proven know how in the design and scaling of such operations

- Establishing a supply chain in the Western world through strategic partnerships and internal advancements
- Securing the technology, cost base and supply chain across our product value chain



# We have a strong head start with the establishment of a pilot line



2019

## Vision

Become a global leader and capitalize Sunlight's market positioning & expertise

2023

## Blue cell

Positive preliminary results at a laboratory level, on par with the technologies available today

2024+

## Pilot line

€200m CapEx investment (incl. €50m IPCEI), with expected results during 2024

2024+

## Commercialization

Existing customer needs to drive the product commercialization, plus new cell/pack customers

2028+

## Large scale production

Circular EU-based production, based on deep manufacturing know-how

# LiTH.OS at a glance

**20GWh**

Gigafactory  
located in Greece

**LFP**

Prismatic  
Cell format

**ESS &  
Industrial**  
applications

**EU-based**

Supply chain  
establishment

**4+ years**

of R&D work

## And envision a 20GWh Gigafactory

- ✓ Dedicated to ESS and off-road industrial mobility
- ✓ Whole lithium plan and EU-based supply chain
- ✓ SE EU hub for battery development



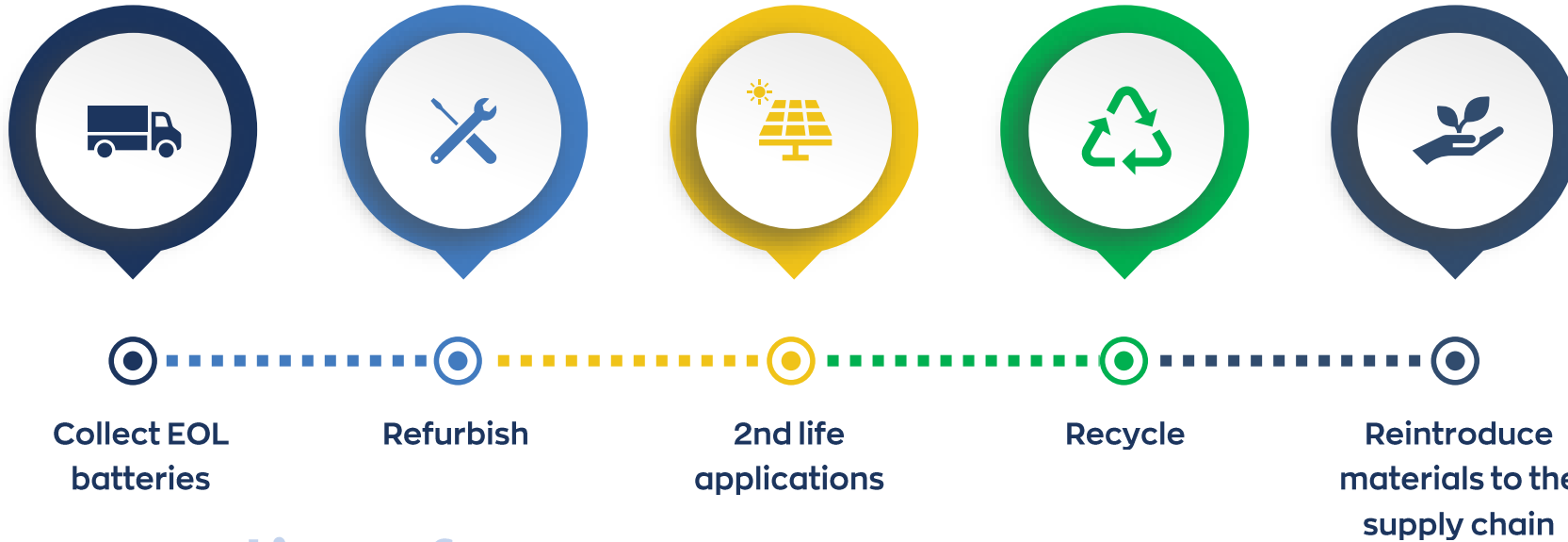
End customers require joint development of technology. Cell accounts for >80% of the total pack cost



Developing two cost-competitive cells with multiple potential use cases

# As well as recycling of scrap LFP batteries

## Moving towards a sustainable production



Secure supply chain of raw materials for LFP cell manufacturing

Reduce scrap of LFP cell manufacturing

Closed loop lithium battery concept for production and for customers

## Our Actions for 2024



Kick off ReLiFe project



Establish a robust recycling technology



Set the foundations for the adoption of Li recycling policy

# Through a fully integrated supply chain

in lead acid and strong penetration in the lithium markets

## Products



## Assembly



**USA Lead Acid Assembly**  
1 facility in Greensboro, North Carolina



**USA Lithium Assembly**  
1 facility in Mebane, North Carolina



**Italy Lead Acid Assembly**  
1 facility in Verona, Italy



**Australia Assembly**  
Eastern Creek



**Germany Lithium Assembly**  
Glauchau, Germany



**USA Lead Acid Assembly**  
1 facility in Dallas, Texas



**GR Lead Acid & Lithium Assembly**  
Xanthi, Greece



**Israeli Lead Acid Assembly**  
Israel



**Germany Lithium Assembly**  
Freiberg, Germany

## Recycling & Raw material



**Lead Acid Recycling & Waste mng Facility**  
1 facility in Komotini, Greece  
1 facility in Germany



**Project LiTH.OS** Recycling facility

## Battery & Chargers Components



**IT Chargers**  
Vignola, Italy

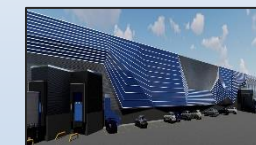


**GR/DE Materials & Components**  
1 facility in Kilkis, Greece  
2 facilities in Germany

## Cell manufacturing



**Lead Acid Cell Manufacturing**  
Xanthi, Greece



**PILOT Lithium Cell Manufacturing**  
Xanthi, Greece



**35+** facilities  
worldwide

# With a complete Product Portfolio

Serving “blue-chip” client base across a number of growing sectors

<sup>3</sup>Li  
Lithium

## Energy Storage Systems




<sup>82</sup>Pb  
Lead

### Industrial Mobility





<sup>3</sup>Li  
Lithium

### Industrial Mobility





<sup>3</sup>Li  
Lithium

### Industrial Mobility Class III



<sup>82</sup>Pb  
Lead

<sup>3</sup>Li  
Lithium

### Chargers




<sup>3</sup>Li  
Lithium

### Leisure Mobility



<sup>82</sup>Pb  
Lead

<sup>3</sup>Li  
Lithium

### Energy Management


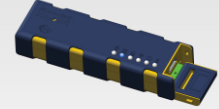


<sup>82</sup>Pb  
Lead

<sup>3</sup>Li  
Lithium

### IoT Solutions



<sup>3</sup>Li  
Lithium

### Modular design at almost all products



# Commitment to ESG

**ESG Transparency:**  
Participation in ESG frameworks & indexes by 2024

**Climate change:**

- › 40% reduction of scope 1 and 2 GHG emissions by 2030
- › climate neutrality by 2050

**Circular economy:**

- › 85% of lead recycled content by 2030
- › 100% passported batteries by 2024

**ENVIRONMENT**  
Produce energy solutions that will preserve our planet from climate change



**GOVERNANCE**  
Lead the change in an ethical manner




**Employees wellbeing:**  
85% on wellbeing section of annual employee satisfaction survey by 2025

**Sustainable procurement:**  
ESG integration in supplier evaluation process by 2024

**SOCIETY**  
Create and promote an inclusive and safe workplace for our employees



**Gender diversity:**  
› 40% women in managerial positions by 2025  
› equal pay certification by 2025

**Employees training:**  
50% increase in training hours by 2024


Share the Knowledge  
Lead the Change



# Establishing a scalable LFP cells pilot line

First of its kind in SE Europe and one of very few on European soil

“European Cell Built for the Future of Industrial Mobility & Energy Storage for Renewables in the EMEA and Americas markets, matching exactly the operating needs of the industry”



**Pilot line Litharaki 20.11.2023**

The logo for Sunlight, featuring the word "SUNLIGHT" in a bold, white, sans-serif font. The letter "U" has a blue vertical bar on its left side, and the letter "T" has a yellow vertical bar on its right side. Below the main text is the tagline "POWER IS KNOWLEDGE" in a smaller, white, all-caps sans-serif font.

**SUNLIGHT**

POWER IS KNOWLEDGE

A vertical yellow bar that acts as a separator between the Sunlight logo and the "Thank you" text.

Thank you