

WEBINAR #EUROBAT

Battery Solutions for Energy Storage (BESS):

Why a resilient and competitive battery industry is essential for EU energy security and decarbonisation





EUROBAT is the leading voice of EU battery manufacturers



The leading association for European Automotive and Industrial Battery Manufacturers across all battery technologies



We promote the **regulatory**, **commercial** and **economic interests** of the European automotive, industrial, and special **battery industries**



We work with stakeholders to help **develop new battery solutions**



We facilitate the **growth of the European battery industry** and support achieving the **EU Green Deal objectives**



EUROBAT Activities

Supporting policymakers' comprehension by offering guidance on regulatory approaches

Contributing to the battery material stewardship agenda at European and global level

Facilitating the development and dissemination of technological advancements

Shaping the battery global policy and industry dynamics by participating in international fora



EUROBAT members

REGULAR MEMBERS

































BATTERY SYSTEM INTEGRATORS











EUROBAT members

ASSOCIATE MEMBERS















































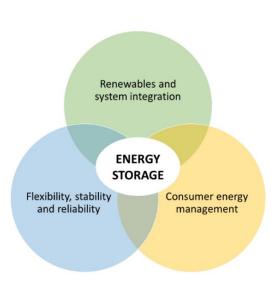
Introduction by Bernhard Riegel / Moderator
EUROBAT TF Innovation Leader & Director R&D HOPPECKE





The Battery Manufacturing industry is committed to contribute to the goals of the Commission to deploy a decarbonized and reliable Energy System, with 69% RES share in 2030 and 80% by 2050*

- → Energy storage play a crucial role in the current and future energy system. It increase the efficiency and security of energy supply by providing flexibility, stability and reliability;
- → Battery Energy Storage Systems (BESS) are recognized as the major flexibility providers to develop a stable and reliable energy system;
- → BESS increases the efficiency and maximizes the output of the installed variable RES generation in the system;
- BESS are highly standardized products that can be installed quickly;
- BESS are safe, environmental friendly and highly recyclable;
- → The diversity of BESS technologies makes them suitable for many grid functionalities as well as to allow consumer energy management.







Development of EU & World ES markets (main share by utility-scale BESS):

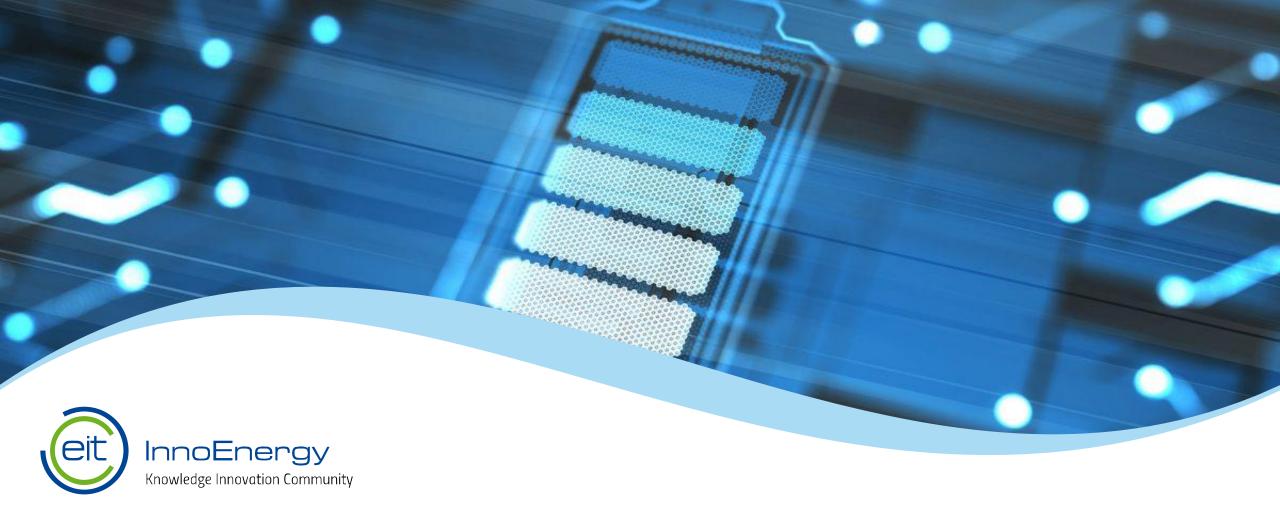
- → Worldwide capacity*: to expand 44-fold between 2021 and 2030, reaching 680 GW = 80 GW AGR;
- Drivers in Europe: The Green Deal and REpowerEU action plan.

Different Battery Energy Storage technologies in the energy system are needed:

- → To server different applications efficiently (short and long duration ES);
- → To support the charging infrastructures, helping to deploy the EV/HEVs and other clean transportation modes;
- To destress the raw material supply chain towards Europe.

Battery manufacturers will provide evidence on:

- Upscaling EU production capacities to meet future EU and Worldwide demand
- info on case studies to show we can deliver real and concrete technical solutions that work, wether located in front of or behind the meter (FTM, BTM)





Securing the Competitiveness of the European battery industry in a changing world

Ilka von Dalwigk



EUROPEAN BATTERY ALLIANCE

EBA250

EBA – a blueprint for industrial alliances



"This is where the European Battery Alliance comes into play. [...] This is how Europe should always work. We should not just work for our industry, but with our industry."

- Mission: Launched in 2017 by the European Commission to reshore the battery value chain to Europe create a resilient, competitive and sustainable battery industry in Europe
- EIT InnoEnergy has been trusted by the European Commission to drive forward the activities of the EBA250 activities
- We work with industry and decision makers at EU and Member
 State level to boost the growth of a European battery ecosystem
- Our actions are aspirational, "impact and execution" oriented and developed with a "can do attitude" together with our stakeholders
- Our stakeholders are the European Commission, interested EU countries, industry, investment institutions and key innovation and academia stakeholders
- Today we are a thriving, dynamic, inclusive and comprehensive ecosystem with 800+ key stakeholders covering the entire battery value chain

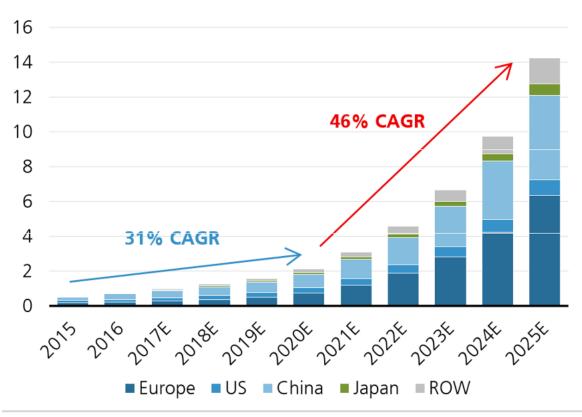


EBA250 Actual EV market 2022 was 2 x prediction 2017



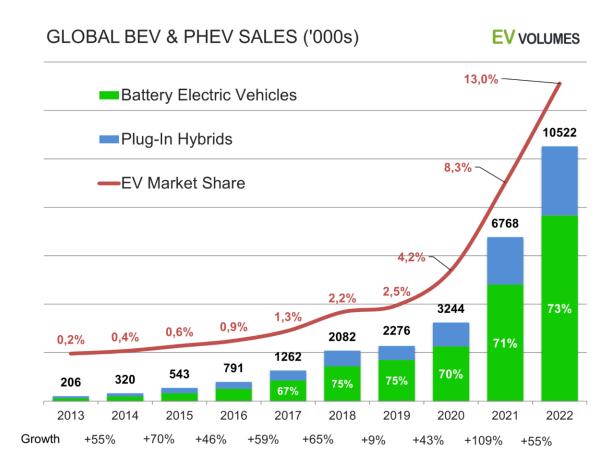


Projection 2017



Source: UBS estimates

Actual 2023



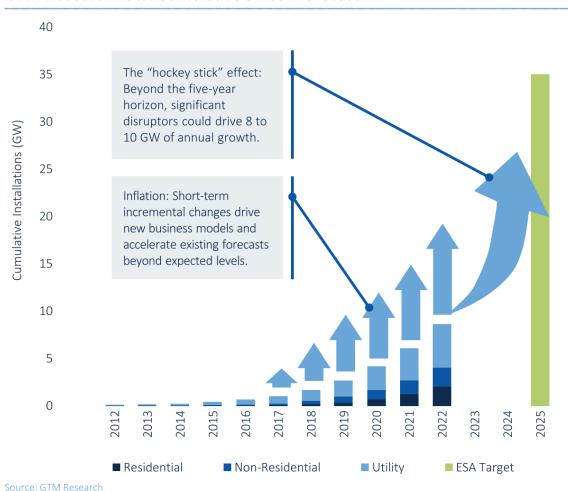


EBA250 Actual BESS market 2022 was 4 x prediction 2017

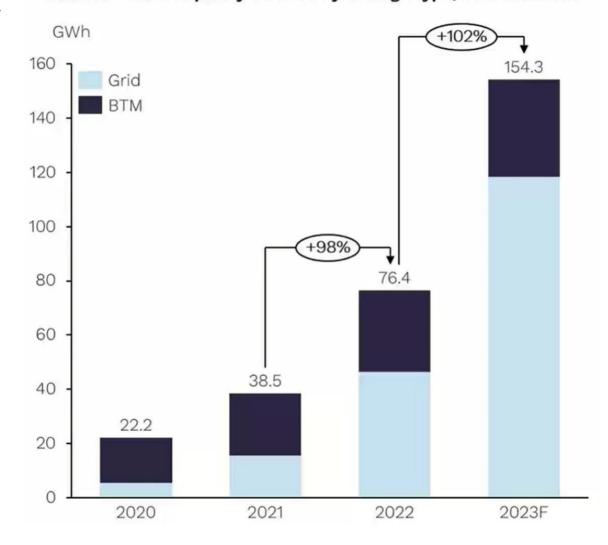








BESS installed capacity outlook by storage type, new additions





Evs still driving the demand for batteries

Volvo XC60 Diesel

52 017€

Tesla model Y

48 430€





- EV sales is still growing rapidly in Europe even tough car sales overall is decreasing
- Strong commitments from all OEMs to make the transition to electric drivetrains



Audi Will No Longer Develop Internal Combustion Engines

Sep 7, 2021 - 10:59 am

Daimler is done with plug-in hybrids

- Next focus "Affordable EVs"
- Charging infrastructure and V2G

Ford, Honda, and BMW create a new vehicle-to-grid company to help EV owners save money



European and member state legislation





- Incentives and taxes
- CO2 emissions thresholds
- CO2 emission targets
- Bans on sales of ICE accelerates phase-out
- Supportive regulatory framework fuelling the shift to electrification

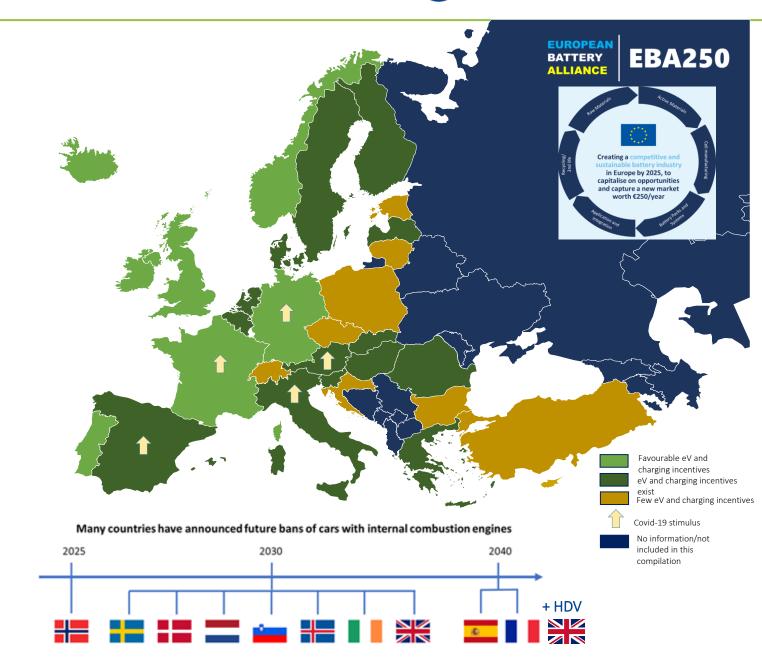
REPowerEU stipulates added capacity of:

- Solar: 320 GW 2025, 600 GW 2030
- Wind: 600 GW by 2030

New Electricity Market Design

Goals for:

- Zero emission cars 2035
- Aviation
- Marine vessels





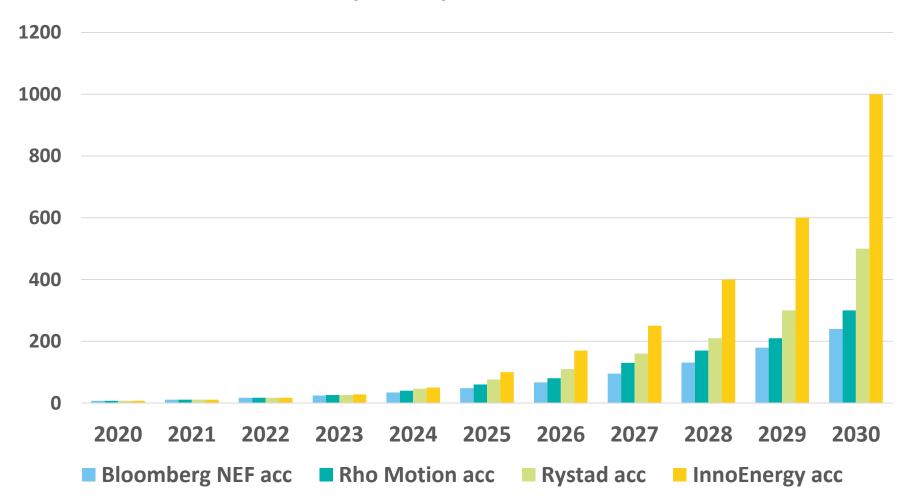
Correlation storage/peak demand vs RES share





Increased RES targets triggers 300 – 1000 GWh accumulated battery capacity and 100 – 300 GWh annual market by 2030

Accumulated Stationary Battery Market GWh

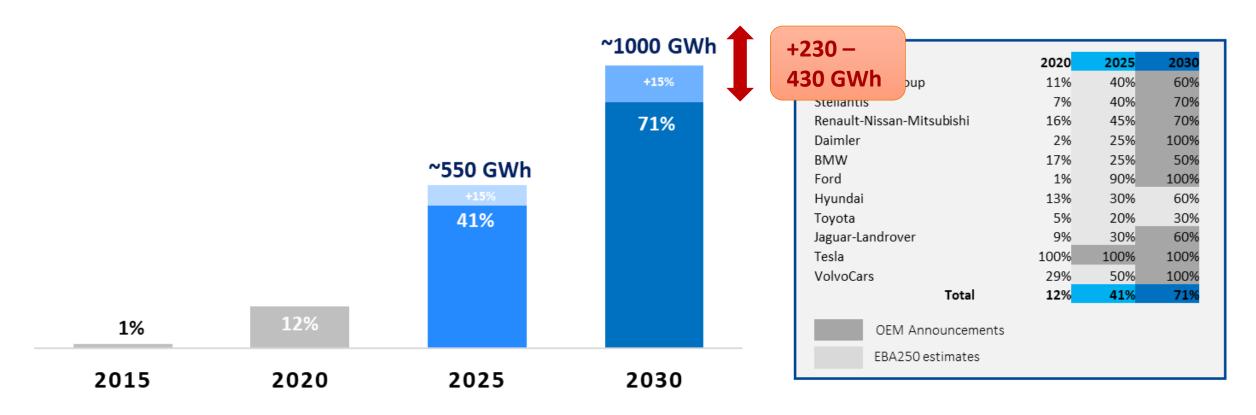


Increased electrification targets increase demand forecasts





Volume-averaged Europe forecast EV+PHEV sales forecast, including 15% for other sectors (HDV, busses, yellow machines etc...

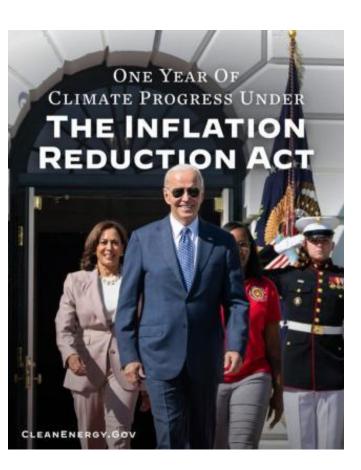


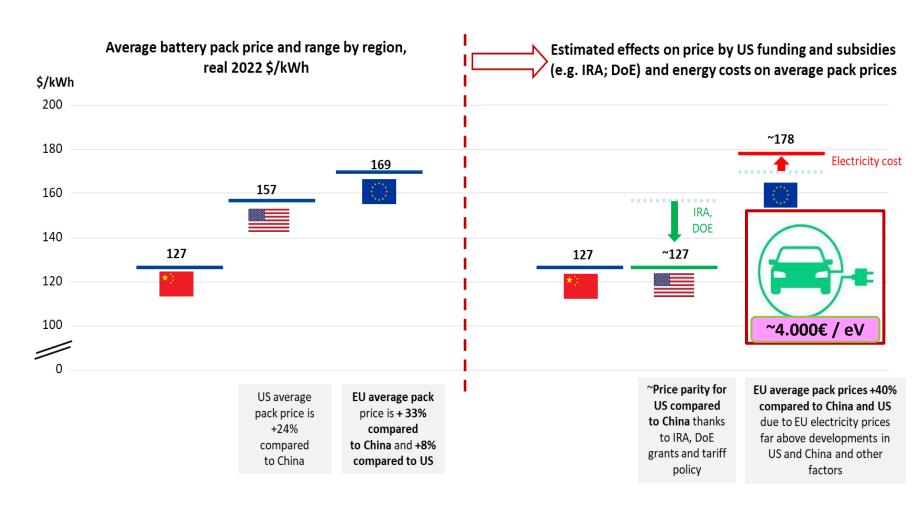


An unbalanced global playing field, impacting EU competitiveness ~4.000 Euros price difference per average eV







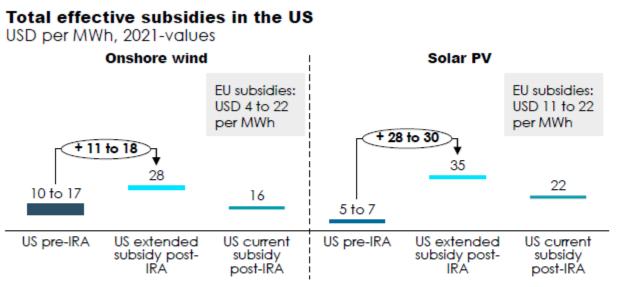


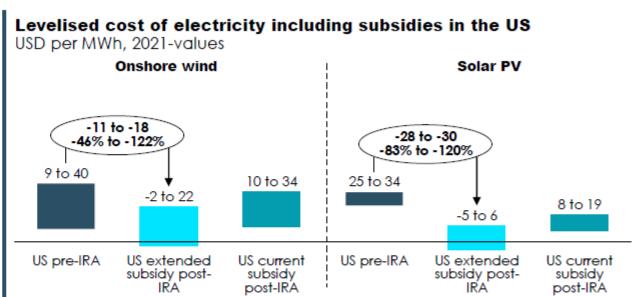


An unbalanced global playing field, impacting EU competitiveness LCOE around zero as the IRA lowers the price of renewable energy









Note: The initial starting point for our calculation is the upper bound of LCOE as shown on previous slides. Subsidies may contain local content requirements for the production of components and sourcing and refinement of materials. See appendix. The main interest of the effect of the IRA on LCOE is through indirect effects. As offshore wind is high cost in the US per prior slide, we have not included it in the above for simplification. Instead focus is on onshore and solar, where through main impacts are to be expected.

Sources: EU current subsidies follow from page 12, Department of Energy (2021) and Sidley (2022).

Source: Copenhagen Economics



EBA250 A combination of new instruments for Europe



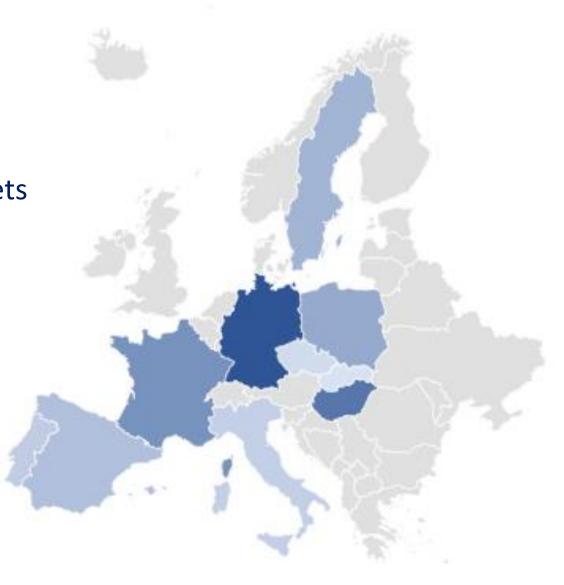


Temporary Crisis and Transition Framework
Relaxation of State Aid with max. of m€150-350,
including a matching clause

Critical Raw Materials Act
 Addresses supply chain vulnerabilities with targets for domestic production and diversified supply chains

Net Zero Industry Act
 Simplification of regulatory framework and permitting for net-zero technologies

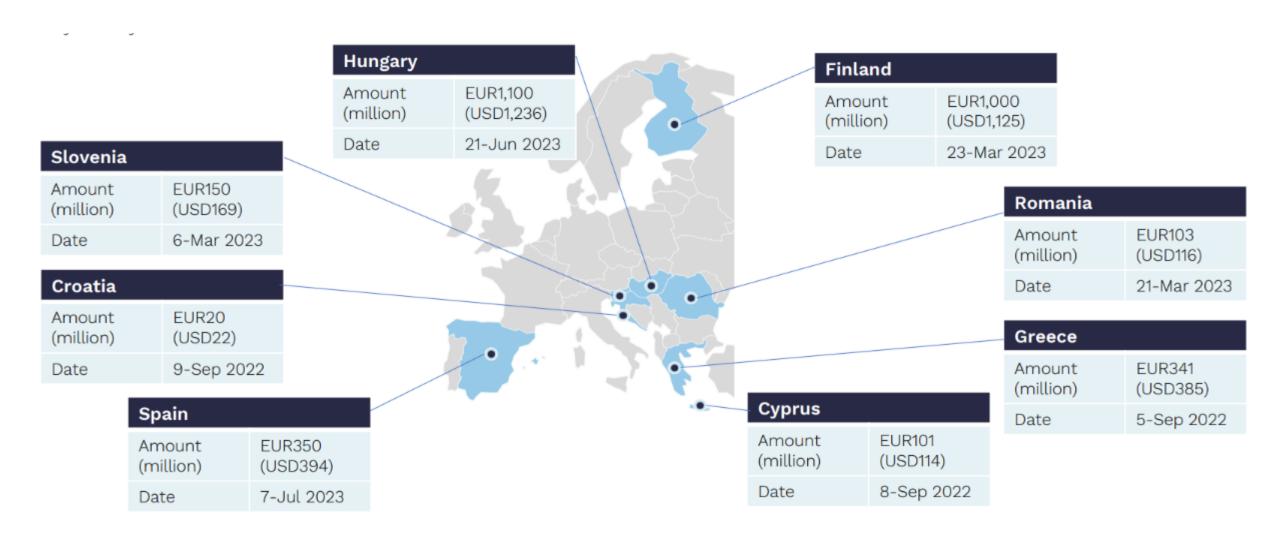
European Economic Security Strategy
 Proposal for a new Regulation to establish a Strategic Technologies for Europe Platform ('STEP').





BESS Funding











Electric Transportation

- Driving the development of the battery value chain
- Affordable cars next focus impact on battery design

Stationary storage next big demand

- Expected to have a similar growth as EVs
- Europe is picking up speed

Upstream restrictions in the Li-ion value chain

- Added demand for raw materials
- Alternative chemistries Na-Ion a good contender





Ilka von Dalwigk

ilka.vondalwigk@innoenergy.com

+46725424740



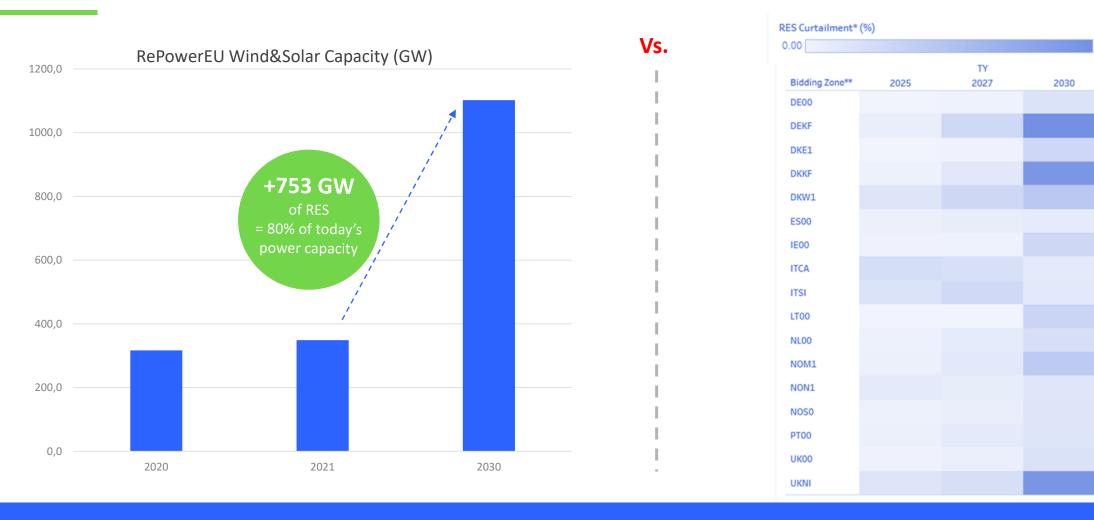
EIT InnoEnergy

Kennispoort 6th floor John F. Kennedylaan 2 5612 AB Eindhoven The Netherlands Info@innoenergy.com www.innoenergy.com

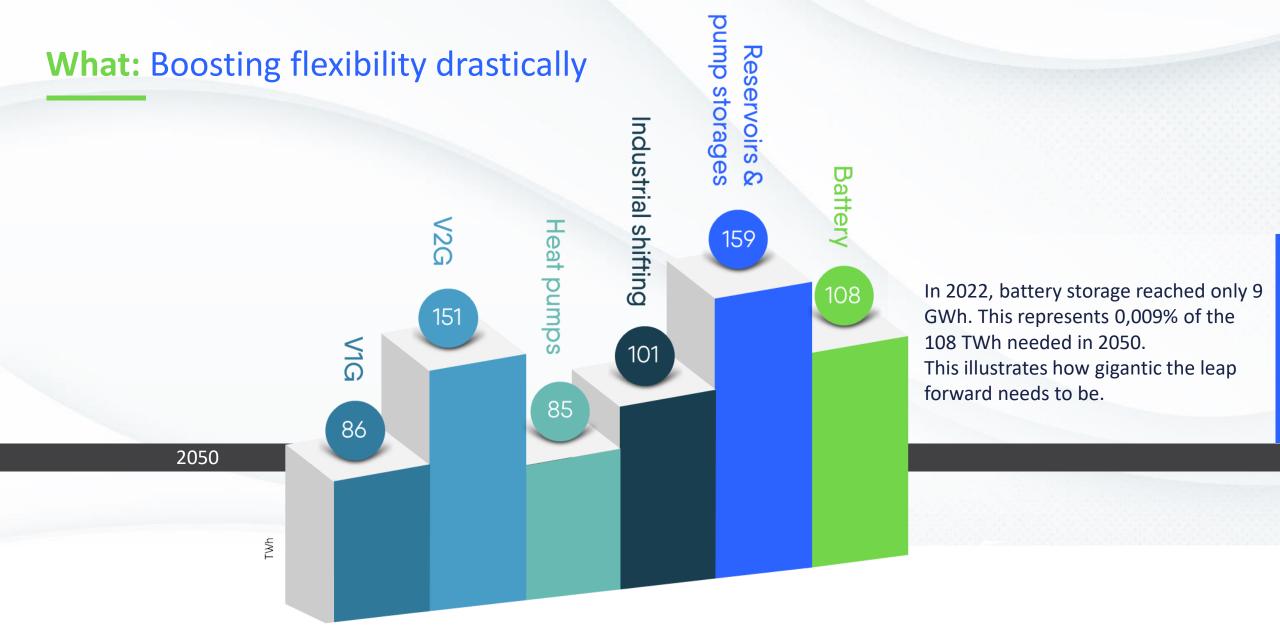


Why: REPowerEU demands accelerated RES electrification by 2030

36.11



In 7 years, the Wind & Solar capacity of EU-27 should **grow to 1102 GW from 349 GW.**However potential high level of curtailments risk slowing down the necessary RES investments unless we boost flexibility offerings



Source: Eurelectric Decarbonisation Speedways Study, June 2023

How: 5 Policy Requests to make storage a key industry in the EU

1	2	3	4	5
Consider storage as a flexibility option	Provide long-term predictability of revenues	Make use of existing funding opportunities for the transition	Build up capacities	Ensure Supply Chain Resilience
 ✓ Member States to carry out an economic assessment to better understand their flexibility needs and secure cost-efficient adequacy. ✓ System operators should identify system benefits from storage in their network assessments 	 ✓ Stop electricity market interventions that have eroded investors confidence ✓ Implement the Clean Energy Package ✓ Facilitate capacity mechanisms ✓ Ensure adequate remuneration for the multi-service utilisation of storage capacities ✓ Abolish double taxes, charges and grid tariffs issues for storage ✓ Enable PPA development 	 ✓ Launch specific tenders for standalone storage and co-located storage. ✓ Consider storage as one of the flexibility options eligible for competitively-designed EU and Member State funds for the transformation of our energy system. 	connection agreements	✓ EU Battery Alliance, Critical Raw Materials Act and Net Zero Industry Act are positive steps

Thank you!

eurelectric

Get in touch: agarcia@eurelectric.org

POWER BAROMETER

21 September 2023

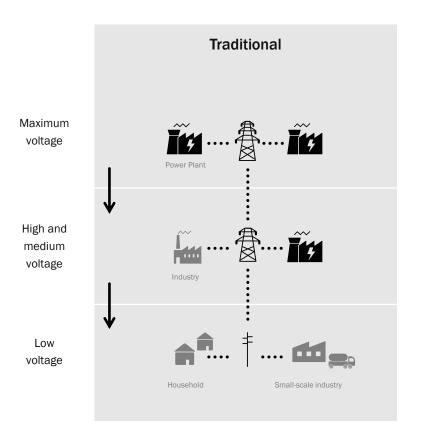


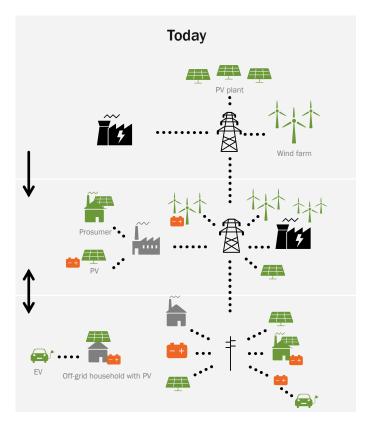
Dr Andre Haubrock
Empowering the world for renewable energy

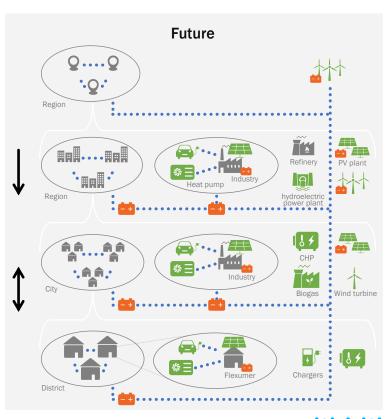


The transformation of the energy system to smart grids

From centralization to decentralization with increasing digitization

























One-stop shop solution for energy storage

INTILION



Intelligent storage systems

- Customized system engineering
- Modular und scalable design
- Storage technology agnostic



Proprietary software

- Dedicated energy management
- Data analytics and cloud connection
- Remote monitoring for predictive maintenance and security



Fulfilment & service

- End-to-end fulfilment with deep grid integration expertise
- ► Local after-sales service
- Availability guarantee over full-service life







Our products combine scalability, flexibility, and connectivity



Outdoor commercial storage system

Approx. 70 up to 1170 kWh 25 kVA, 50 kVA, and 73 kVA

In-/outdoor

Product scaleable



Indoor commercial storage system

154 - 616 kWh up to 1,200 kWh 25 - 400 kVA in 25 kVA steps

Indoor

Module scaleable



Indoor & outdoor large-scale storage

From 1 up to 100 MWh From 1000 kVA

Outdoor

Module and product scaleable





Proprietary software is core to our offering

Ensuring safe operation

- ► Controlling & managing the components (cells, converter, air-condition)
- ► Collecting system data (~ 500 datapoints per system in 5 sec. interval)
- ▶ Gateway for real time connection (LAN, LTE, Modbus, MQTTs)

Improvement of the algorithm and acceleration of the processes

- Processing of all relevant system data
- ► Lean processes due to data transparency
- Algorithm improvement based on data analytics for installed base



Design of customized solutions

- Development of customer specific application software
- Manage the entire battery solution & customer application via Energy Management System (EMS)
- ► Full control of energy flow

Connection across all energy system levels

- ► Performance & lifetime reporting
- ► Data cloud & dashboards
- ▶ Predictive maintenance based on data analysis





Your turnkey solution – from project planning to recycling

Concept & design phase

- ✓ Energy advisory
- ✓ Solution concepts
- ✓ System design

Add-on services & analytics

- ✓ Replacement part management
- ✓ Disassembly and disposal
- Data analysis and operational optimization



Installation & commissioning

- ✓ Location management
- ✓ Cold and hot commissioning
- ✓ Integration of network control

Operation & maintenance

- ✓ System operation
- ✓ System monitoring and on-site service
- ✓ Whole-system maintenance









Grid stabilization at the hydropower plant & backup power for the airport

- ✓ Multi-use case: besides grid stabilization and primary control power, the energy storage system secures the power supply of an airport
- ✓ Integration of the nearby hydropower plant
- √ 10 independently operating battery systems
- Turnkey project consisting of container, converter transformer, software algorithms and complete fulfilment & commissioning
- Primary control power is a mechanism for stabilizing the power grid by adjusting power generation to power demand at short notice
- Reliable and effective power supply is only possible with INTILION storage units in order to be able to react to fluctuations in the grid at short notice
- INTILION's storage solution makes the hydropower plant capable of black-starting and thus ensures the emergency power supply of large consumers in the event of a power outage









Industry Telecommunication & Data Center



Capacity ~ 60 MWh







Telecommunication company

- Bamberg, Münster, Hannover, Germany

60 MWh for Telecommunications industry & data centers

- INTILION | scalecube large-scale storage units deployed at three sites for frequency balancing and balancing services
- Front-of-the-meter installation for effective grid integration
- Approximately 26 MWh energy storage systems planned for Hanover and Bamberg locations each
- Additional 6 MWh energy storage to be installed at the Münster location
- Construction has already started in Münster





INTILION is ready to accelerate the energy transition

- ✓ Highly attractive market for stationary C&I and FTM storage systems: cum 124GWh by 2030, CAGR ~25%¹
- ✓ Energy storage systems are absolutely necessary to make the energy transition fast, reliable and sustainable.
- ✓ Lithium ion batteries are at a high level of technological maturity, now innovation and cost optimization need to be promoted
- ✓ Pure innovation in battery technology (cell) is not sufficient, expertise is needed to make this technology available to the industry and to the electric power grids
- ✓ Comprehensive flexibilization of the electricity market is necessary to fully use the potential of energy storage systems for the economy
- ✓ Comprehensive support for the battery industry in Europe to reduce supply chain risks and increase the competition
- ✓ INTILION with a strong position in Europe is ready to accelerate the energy transition the relevant solution pillars (hardware, application software, Fulfillment & Service) are in place





Gianpaolo G. Giuliani
Zero-miles Battery Storage made possible

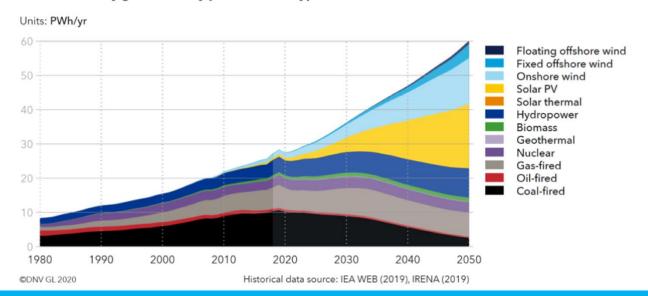


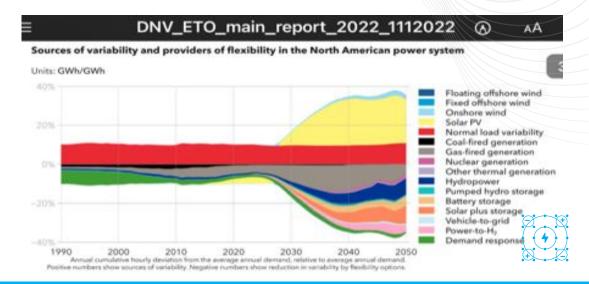


The evolution of electricity ecosystem: stationary storage potential



World electricity generation by power station type





~3TWh of grid scale BESS + 9 TWh of C&I/Residential BESS, 2030 to 2050





The real cost of Lithium-Ion batteries



Cells EXW (1 kWh)

EU 10%-12% more costly China CO2 emissions +16%



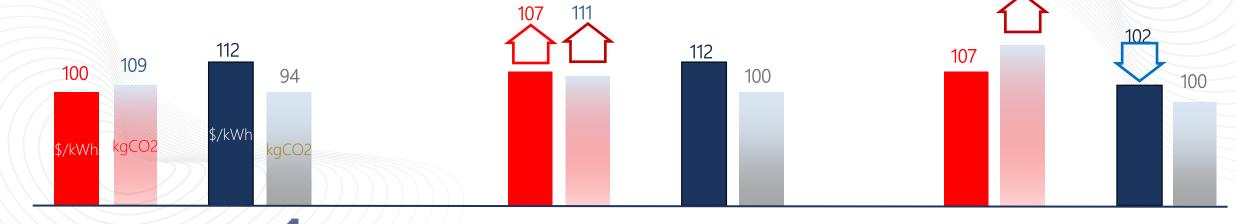
Cells Shipment

China 7% transport + duties
Transport CO2 emissions 2kg/kWh³



Vertical integration

10% markup avoided on cells Pack/re-pack of cells is 1kg/kWh²





Sources:

- 1. www.instituteforenergyresearch.org
- 2. 8billiontrees.com
- 3. www.statista.com

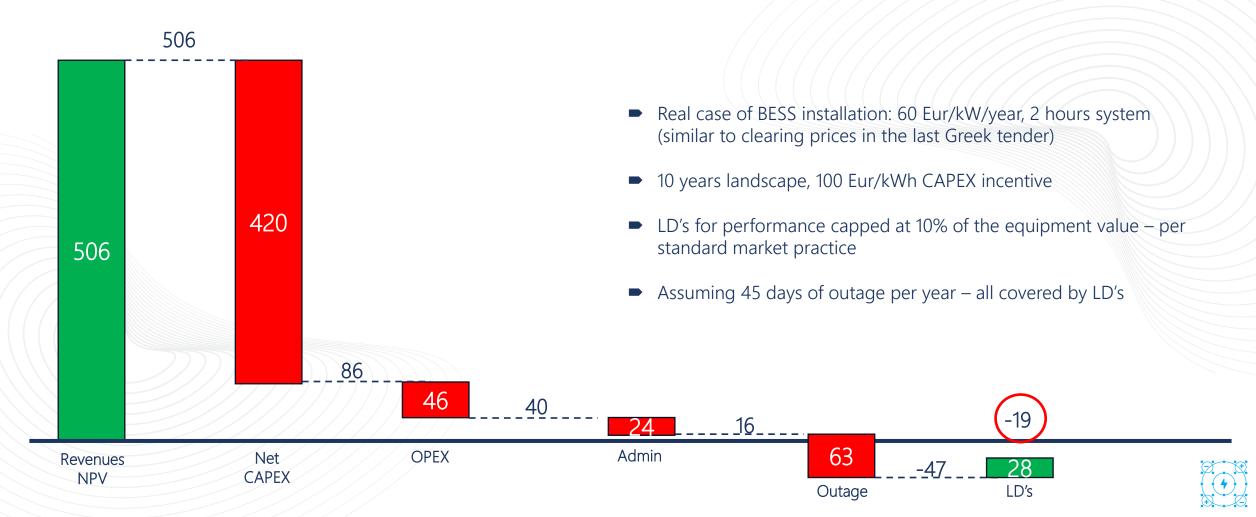






The real value of Lithium-Ion batteries

Figures in \$/kWh







Protectionism vs fair measures

- The Biden administration issued an incentive scheme in the USA under the Inflation Reduction Act (IRA) ...10% ITC bonus for goods exceeding 40% US content (raised to 55% by 2026)
- All battery manufacturers –including Chinese ones- are looking for ways to settle production units in the US... will this work economically? Will this serve the scope?

... Some valid alternatives exist:

- 100 Eur/ CO2 ton excess in EU today => Most China-OEM cells would cost several Eur/kWh more if same penalty applied to GHG footprint of goods
- Other technologies (Solid state, Sodium Ion) seen promising near term => EU labs under bonus/penalty scheme to incentivize trading the IP rights within EU
- Large combined Hybrid
 Storage solutions =>
 Incentivize projects able to
 affordably replace
 conventional power plants by
 combining different storage &
 generation assets
- Most Renewable sources
 excluded from grid services
 => Open up and mandate
 dispatchability -> BESS
 remunerative at an all-happy
 turnkey price







Sunlight's vision

- Vertically integrated production with three targets: the best safety, the least environmental impact, the least lifecycle cost
- Build cells with the most reliable, proven and automated industrial process available ... spend more today to get more tomorrow
- Keep the design of the batteries chemistry-agnostic ... Over-bespoken
 DC solutions have proven to be high-risk investments in this industry
- Technology experts are not enough... energy market experts are going to make the difference ... customers' awareness is the key
- De-regulation is the best regulation... energy market is self-adapting
- Liaise with Regulators to foster fair and equal rules in the energy sector...if total CO2 footprint is the KPI, local battery manufacturing & renewables growth in EU will be largely pursued
- Standardize the EV's battery sector ... regulated battery packs will foster competition on technology and innovation and make the "mobile storage" capital more controllable: from a grid knocker to a grid stabilizer

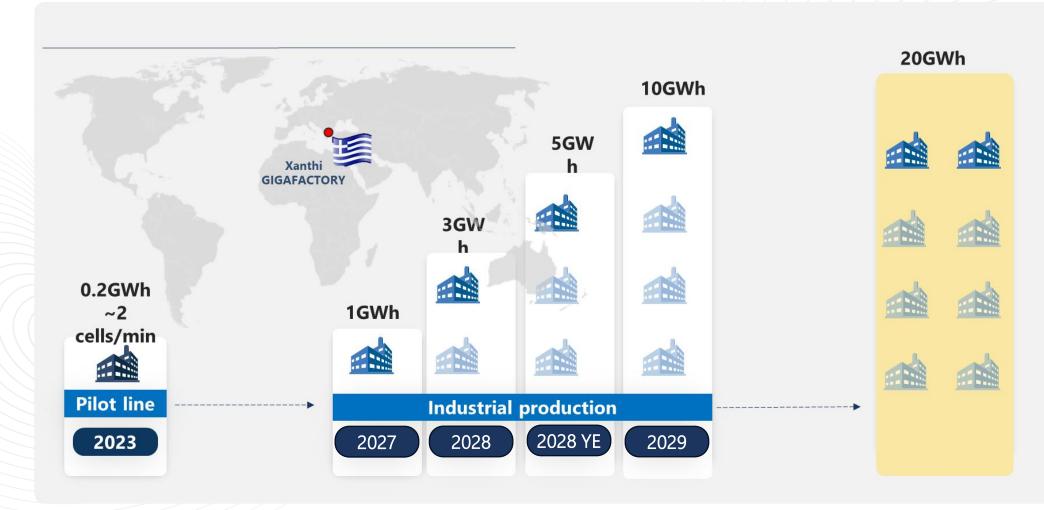








Sunlight's vision: LFP manufacturing industrial plan







Sunlight's vision: State-of-art FtM & BtM solutions



- ✓ Modular, drop-ship
- ✓ 1500V, ~ 1,4MWh,
- √ >7000 cycles guaranteed
- √ < 14 tons
 </p>



- ✓ Integrated, Scalable
- √ air/liquid cooling
- ✓ Advanced EMS +Cloud
- ✓ 100÷500 kW/ 200+ kWh



- ✓ Rugged design
- √ 48 VDC
- ✓ 4,6-10 kW







THANK YOU





Gery Bonduelle

03

Transforming the EU grid through resiliency: FREYR proposal with innovative and locally produced Battery Energy Storage Systems

FREYR

What is resiliency?

Grid has to ensure the delivery of reliable electricity to consumers through:

- Reliability
- Redundancy
- Fast recovery
- Adaptability









Why Low CO2 Electricity Generation is needed?

- Mitigating Climate Change
- Reducing Air Pollution
- Enhancing Energy Security
- Long term sustainability







Why Energy Storage is needed in this low CO2 emission context?

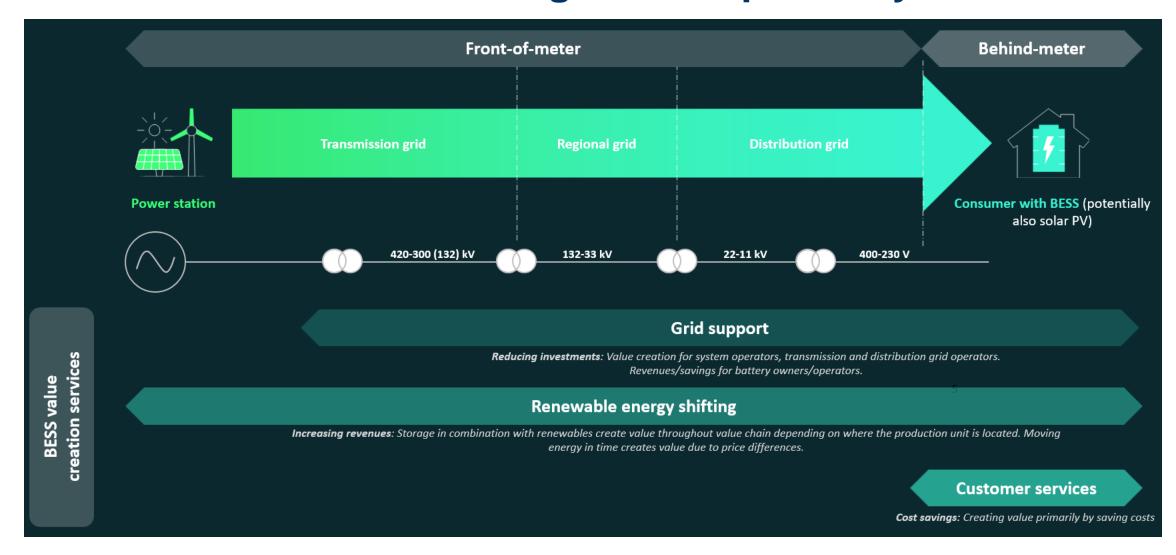
- Integrating intermittent renewables
- Improving grid reliability
- Managing peak loads
- Reducing infrastructure costs







BESS can create value throughout the power system







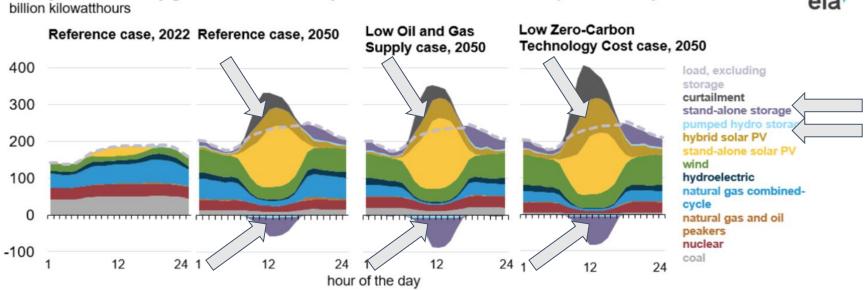
Exponential demand for clean battery solutions:

Example of the USA to eliminate coal and oil for electricity generation

Figure 5.

Hourly U.S. electricity generation and load by fuel for selected cases and representative years





Data source: U.S. Energy Information Administration, *Annual Energy Outlook 2023* (AEO2023)

Note: Negative generation represents charging of energy storage technologies such as pumped hydro storage and battery storage. Hourly dispatch estimates are illustrative and are developed to determine curtailment and storage operations; final dispatch estimates are developed separately and may differ from total utilization as this figure shows. Standalone solar photovoltaic (PV) includes both utility-scale and end-use PV electricity generation.







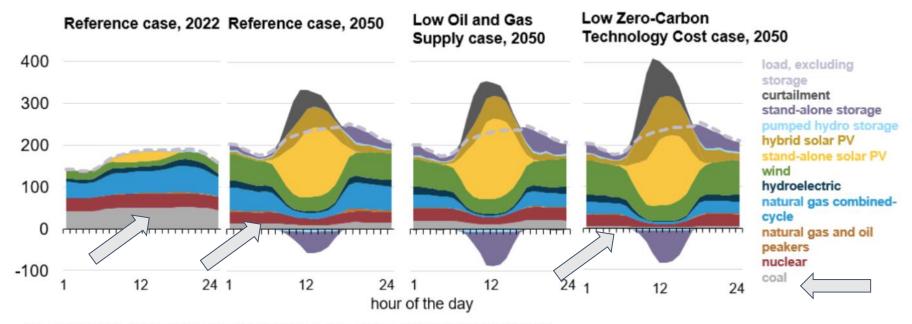
Exponential demand for clean battery solutions:

Example of the USA to eliminate coal and oil for electricity generation

Figure 5.

Hourly U.S. electricity generation and load by fuel for selected cases and representative years billion kilowatthours





Data source: U.S. Energy Information Administration, Annual Energy Outlook 2023 (AEO2023)

Note: Negative generation represents charging of energy storage technologies such as pumped hydro storage and battery storage. Hourly dispatch estimates are illustrative and are developed to determine curtailment and storage operations; final dispatch estimates are developed separately and may differ from total utilization as this figure shows. Standalone solar photovoltaic (PV) includes both utility-scale and end-use PV electricity generation.







Is there an opportunity to displace CO2 emissions during electricity generation?

- UK is showing it's possible
- Italy is showing it's possible

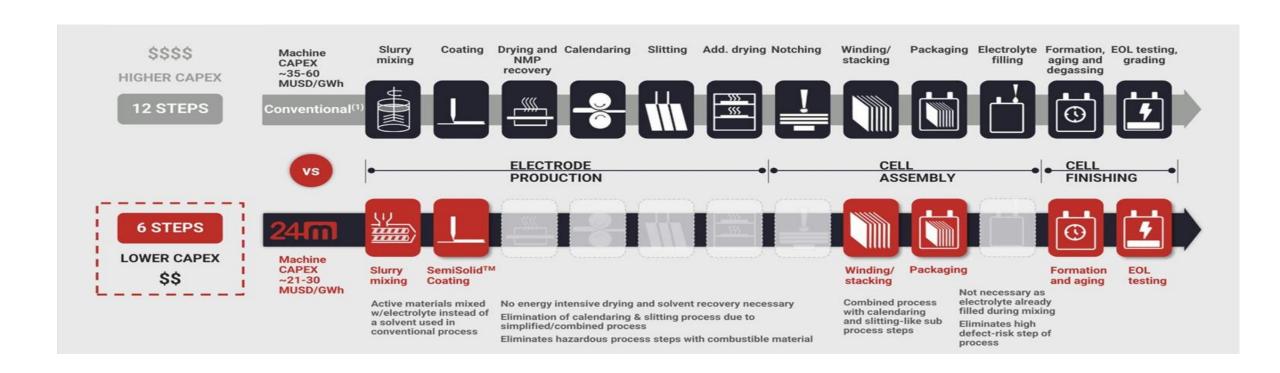
WE JUST NEED BATTERIES!







Process at a glance: Simplified Manufacturing Process



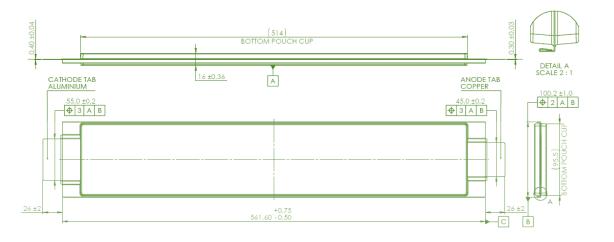






Product: Less Material in the cell with thicker electrodes

- Li-Ion
- → LFP Graphite Pouch Cell
- → 7300 cycles
- 4 79 Ah
- Optimised for C/4









Integration at a glance

- Partnership in Europe with Nidec
- JV Created in 2022
- Co-located with cell production
- Integrated Module Production
- Integrated DC Bloc Production





Products

The new generation in energy storage

Our engineering teams are already in the advanced design stage for the next generation battery modules, racks and DC blocks specifically for stationary energy storage systems. Our goal is to produce competitive batteries with a reduced environmental impact. Products will start their certification process mid-2024 and be ready for production in 2025.

FREYR

CQP status

Progress Plan/Key Milestones

- First cells assembled and charged: June25th, 2023
- Additional progress:
 - Additional PLE commissioning packages completed
 - Testing program for Nidec underway
- Sample production targets: 3Q/4Q 2023
 - All processes automatic
 - Targeted approval of first samples
- Fully integrated production line: 4Q 2023
- Continuous improvements: 1Q 2024







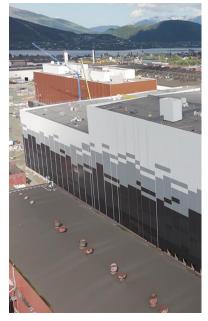


GigaArctic status

Construction progressing according to plan

- Deployed \$54 million of capital
 expenditures at Giga Arctic during 2Q
 2023
- Finalizing the weatherization of north and east buildings
- Next phase of construction predicated upon financial incentives associated with expected Norwegian IRA response











EUROBAT ASSOCIATION OF EUROPEAN AUTOMOTIVE AND INDUSTRIAL BATTERY MANUFACTURERS

Next steps

+ Pro	oduce fully	automated of	cells in our	CQP	2023
-------	-------------	--------------	--------------	-----	------

- Validate Products with our customers
 2023 2024
- + Finalize financing of GigaArctic Mid 2025
 Finish construction

SOP

Finalize financing of GigaAmerica
 Start construction
 SOP







Conclusion

- A resilient CO2 free European Grid will require Battery Energy Storage
- FREYR Battery is committed to produce locally clean, next-generation batteries
- CQP officially opened, Giga Arctic and Giga America in progress
- Our plan is to get SOP and Products available for customers in 2025







FREYR is mass-producing the next era in lithium-ion cells. Less materials to build. Less energy to make. At GWh scale.

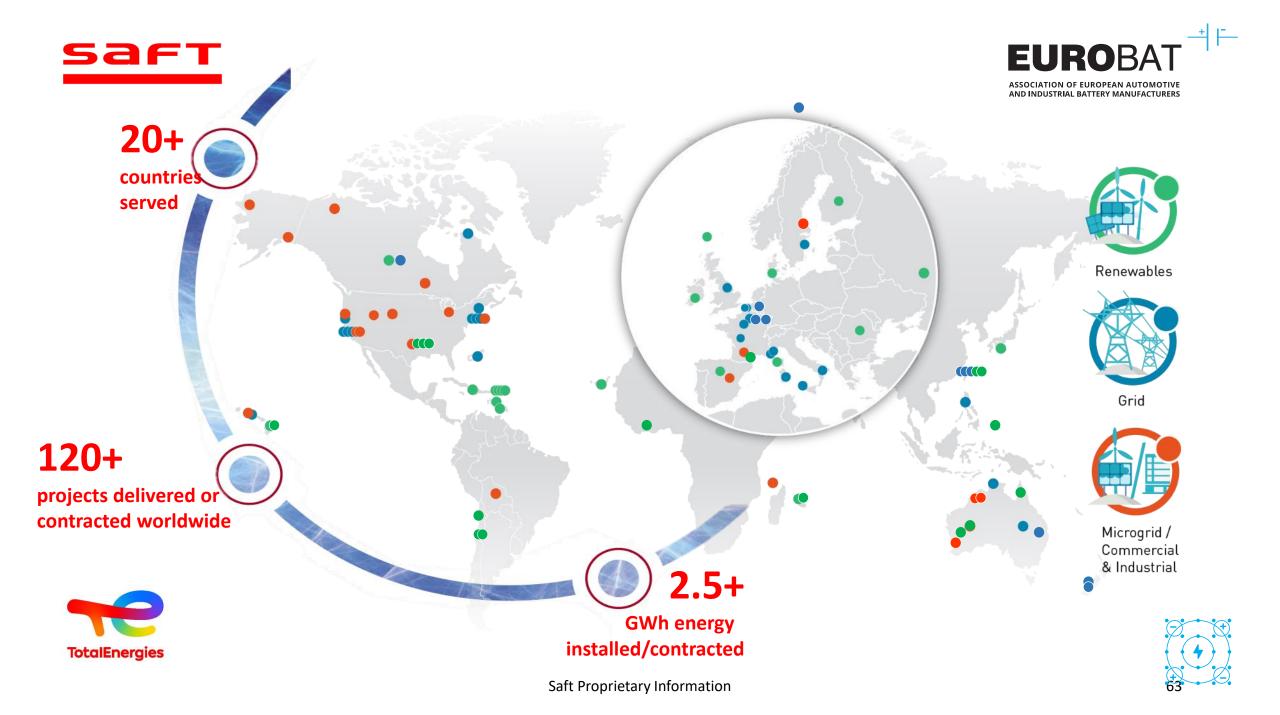
We believe in making these batteries cost-competitive.

United with our partners, our goal is to accelerate the decarbonization of our energy systems to mitigate the worst effect of the climate crisis.

FREYR. FOR A BATTERY POWERED FUTURE.



Michael Lippert
BESS supporting the Energy Transition Worldwide







01.

Maximize renewables in a large mining microgrid

Challenge: meet at least 50 % of the mine's electricity demand from renewables without compromising power quality or reliability





Stabilize microgrid with high wind & solar penetration



13 MW ESS supporting 22MW wind & solar

Customer	 EDL Australia developer and operator of microgrid for Agnew mine
Challenge	 Manage short-term variability of 4MW PV and 18 MW wind power plants Minimize idle running of Backup Diesel Gensets
Saft solution	 6 containers Intensium Max+ 20 - 13 MW / 4,5 MWh 3 MV power stations Microgrid Controller
Functions	Renewable smoothingSpinning reserve
Results	 Renewable share reaching daily average of 50 – 60% 46 400 t of CO2 savings per year Stable and reliable grid with up to 85% renewable penetration





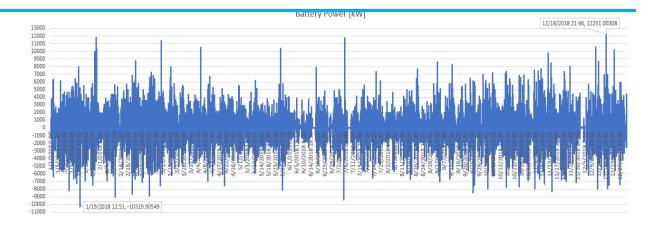


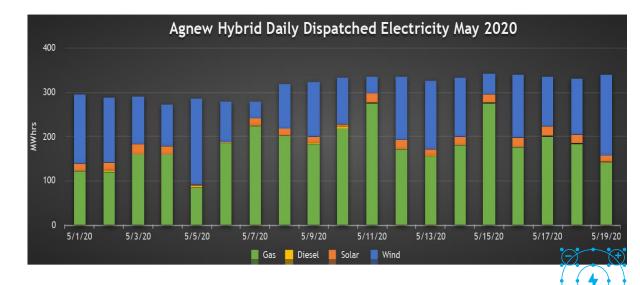
Operation Profile

 Permanent buffer of variable power generation and power consumption

Result

- 50-60% renewable share in daily power mix
- Stable up to 85% renewables
- 46 400 t of CO2 savings/ year











- High penetration of variable renewables is feasible
- Spinning reserves from fast reacting BESS substitute fossil-based reserves to stabilize the grid
- B Driver: cost of fossile-based alternatives, and CO₂ savings











Firming Solar generation in Ivory Coast

Challenge: Make PV a secure power resource to face rapidly growing electricity







Making solar energy predictable



Deliver forecast compliant solar power of 37.5 MWp PV plant in Ivory Coast

	 Ensure predictable
Challenge	first large scale PV
	 Hot and dry climate

e delivery of baseload power for IC's plant

e, dusty winds

Saft solution

• 6 containers Intensium Max High Energy 1500V LFP

• 14 MWh / 10 MW

Functions

- PV capacity firming
- PV shifting

Expected Results

- Reliable clean energy for 30 000 households
- 27 000 t of CO₂ savings
- •300 jobs









Solar PV energy is considered as base load generation thanks to « firming » with BESS

2 In Ivory Coast, firming requirement is imposed by regulator

In Europe, IPP's start to use BESS to balance their generation portfolio











Load Shifting and Grid Services in TAIWAN

Challenge: contributing to frequency stabilization of network and peak shifting in the local grid of Taiwan







Combining capacity and ancillary services



Deliver simultaneously frequency regulation and load shifting services

Chal	lenge
Chai	ienge

 Support massive integration of solar energy in TPC grid by addressing both, grid stability and peak capacity

Saft solution

- 25 containers Intensium Max High Energy 1500V LFP
- 58 MWh / 20 MW peak

Functions

- Frequency Regulation ,
 Pfrequ = 20 MW max @ 60Hz +/-50mHz deviation
- Load Shifting
 Pshift = 20MW Pfrequ

Expected Results

- Stable grid frequency despite increased PV generation
- Avoided curtailment of PV generation
- Maximized penetration of PV







Operational Results

Solution with 20MW - 58MWh BESS

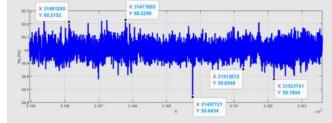
Daily throughput ≈0.7 FEC for shifting
 and ≈0.2 FEC for FR

Max – min SOC : 5 -95%

- 20% ageing at 15 years

- Service quality measure

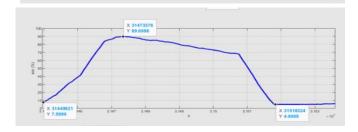
P_{freq} profile



P_{shift} profile



Combined power



State of Charge (SOC)







BESS can combine multiple services simultaneously or in sequence

This enables optimum use of the BESS, and lowest cost per delivered service

Obvious solution for all vertically integrated utilities: benefit of storage for balancing supply and demand, and for ancillary services







AND INDUSTRIAL BATTERIES MANUFACTURERS





Ilka von Dalwigk Policy Manager **EIT INNOENERGY**



Bernhard Riegel Director Research & Development HOPPECKE



Aida García Advisor Renewables -2030 Framework Lead EURELECTRIC



André Haubrock Managing Director INTILION



Gianpaolo Giuliani Chief Commercial Officer SUNLIGHT



Gery Bonduelle **FREYR**



Michael Lippert Executive VP Sales Director Innovation and Solutions for Energy SAFT





THANK YOU

www.eurobat.org

