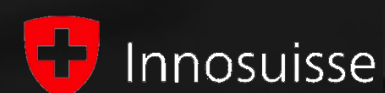


SWISS AWARD-WINNING PROVIDER OF UPCYCLED BATTERY ENERGY STORAGE SOLUTIONS: LIBATTION AG

Unlocking Battery Potential for a Renewable Future

WINNERS OF



MENTIONED IN:

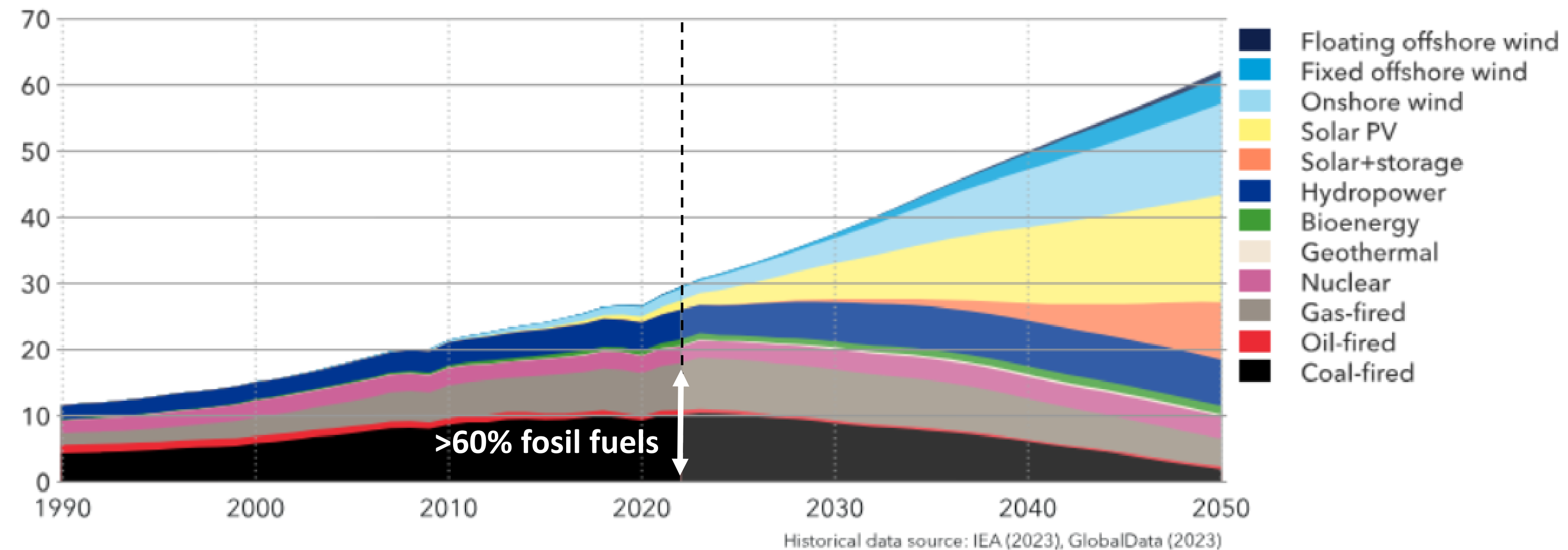


Uns erwarten anspruchsvolle Aufgaben.

🎯 1. Netto-Null bis 2050 (Ziel der IEA und der UN)

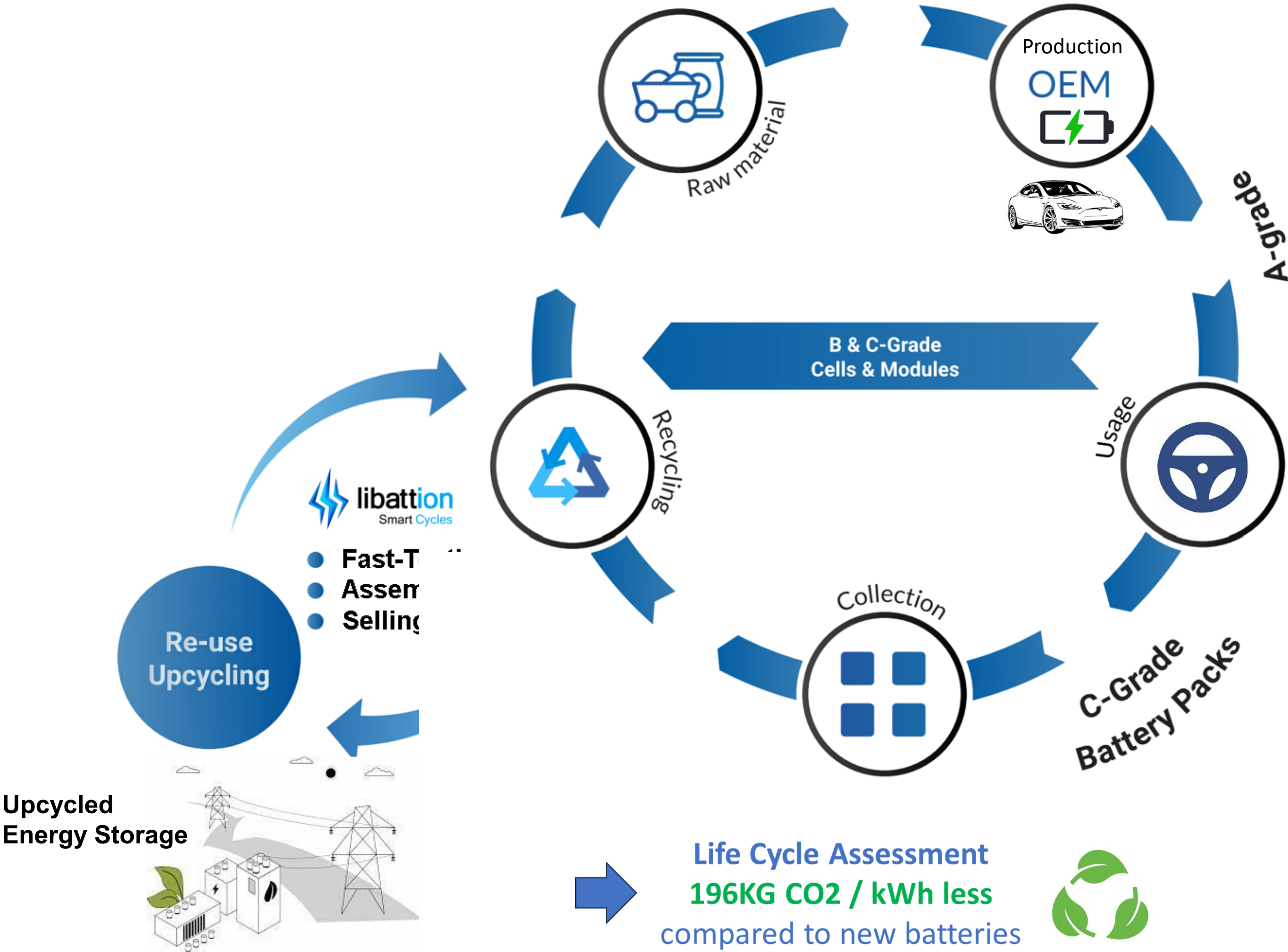
World grid-connected electricity generation by power station type

Units: PWh/yr



LIBATTION: BATTERY LIFE-CYCLE APPROACH

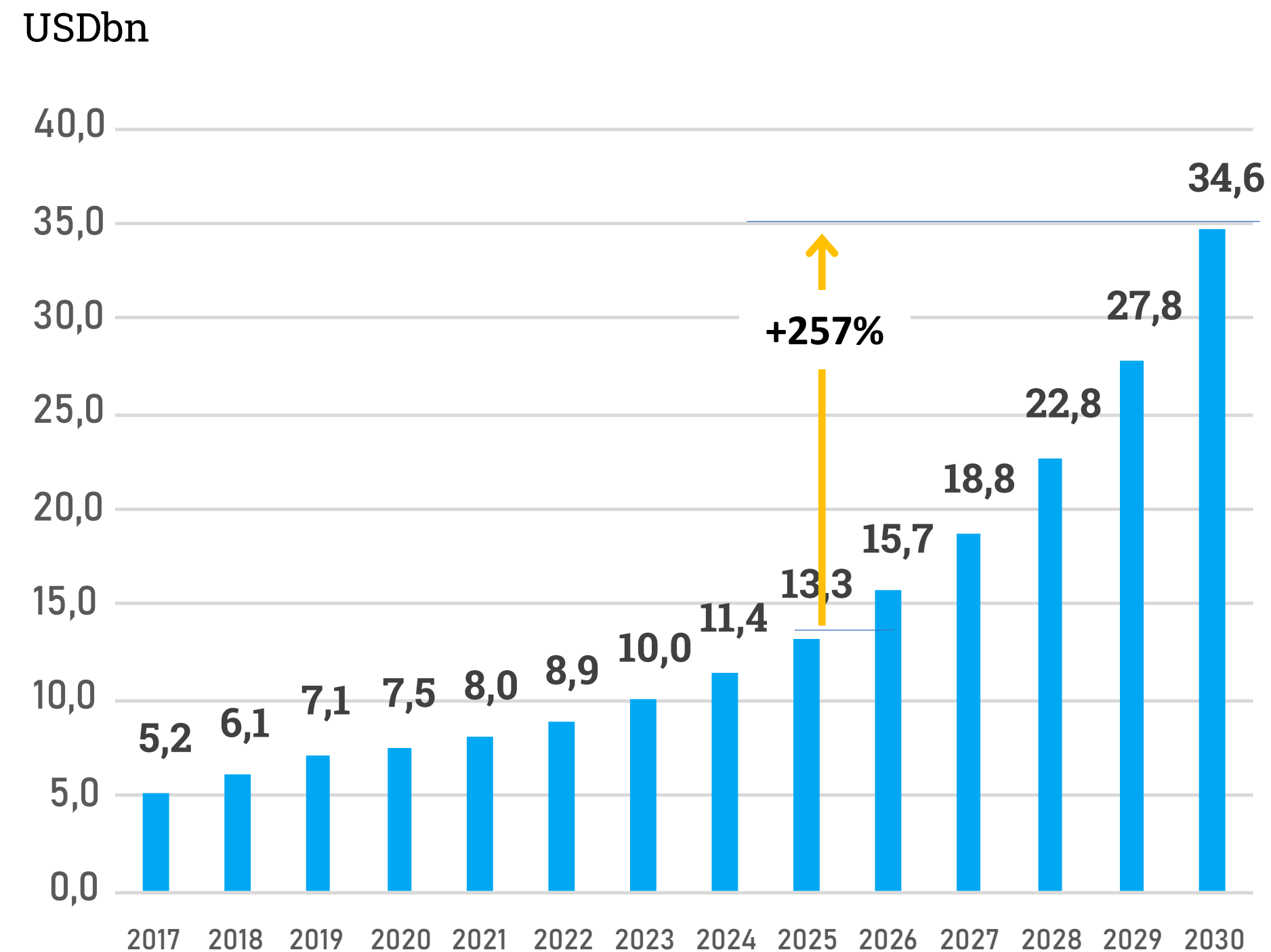
Maximizing the value of every battery, accelerating decarbonization and improving circular economy



ESTIMATED MARKET SIZE OF ESS MARKET IN EUROPE

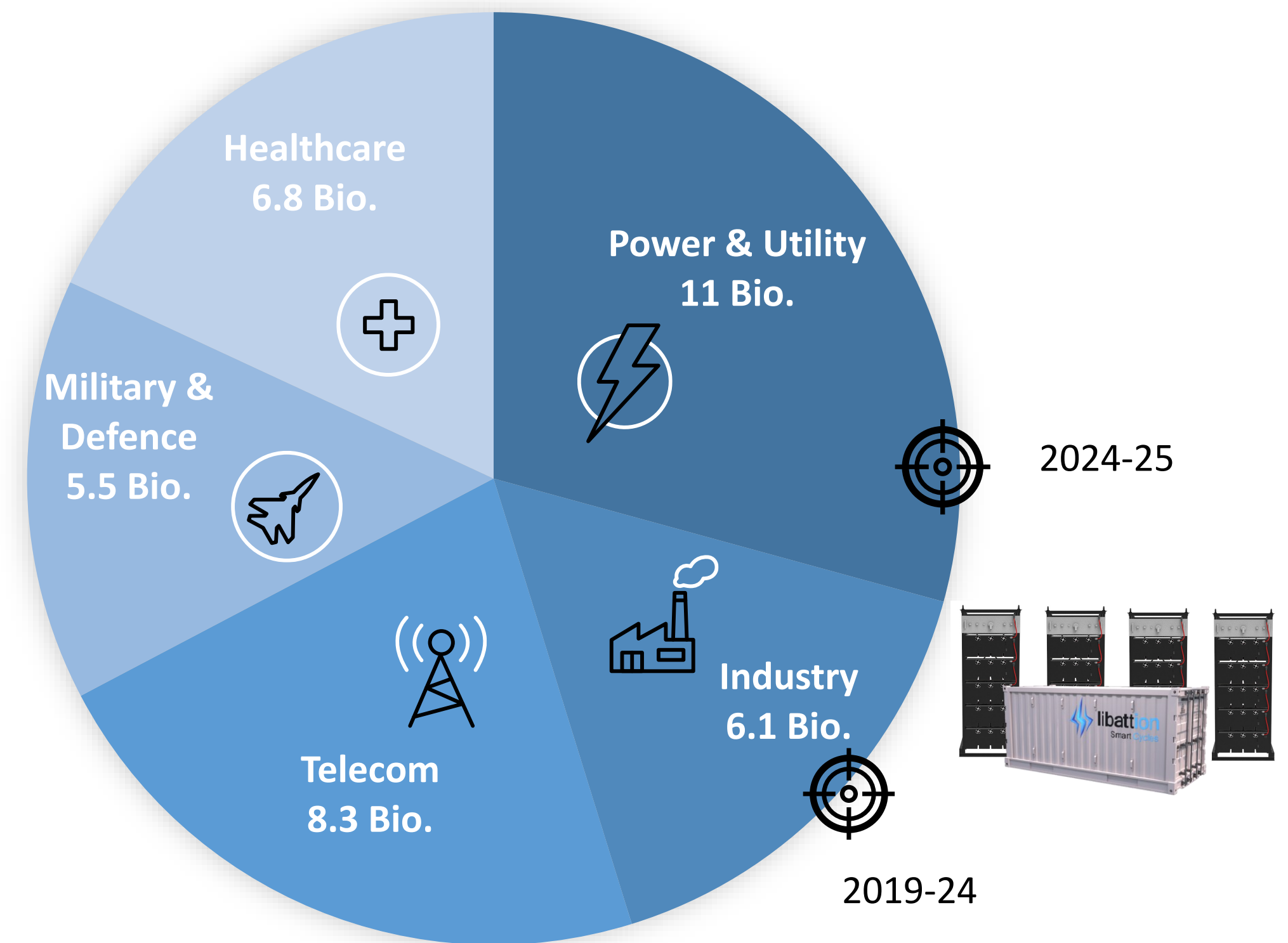
European ESS market is expected to reach USD 35bn by 2030¹

GROWTH OF EUROPEAN STATIONARY ESS MARKET



Source: Coherent Market Insights, Stationary Energy Storage Market Size and Forecast 2023 - 2030

MARKET SEGMENTS SIZE IN EU (2030)



UPCYCLED ENERGY STORAGE SYSTEMS



BATTERY E-RACKS V1.1
(DISCONTINUED)

1



BATTERY E-RACKS V2.0

2



CONTAINER STORAGE

3

FEATURES

- | Manual Production in CH
- | Rack Capacity 80kWh (V1)
- | Scalable from 80 – 2000 kWh
- | For PV, peak-shaving, SCR, smart-grid
- | 0.5C

- | Automatic Production in CH
- | Rack Capacity 97kWh (V2)
- | Scalable from 97 – many MWh
- | EMS: For PV, peak-shaving, SCR, smart-grid
- | 1.0C

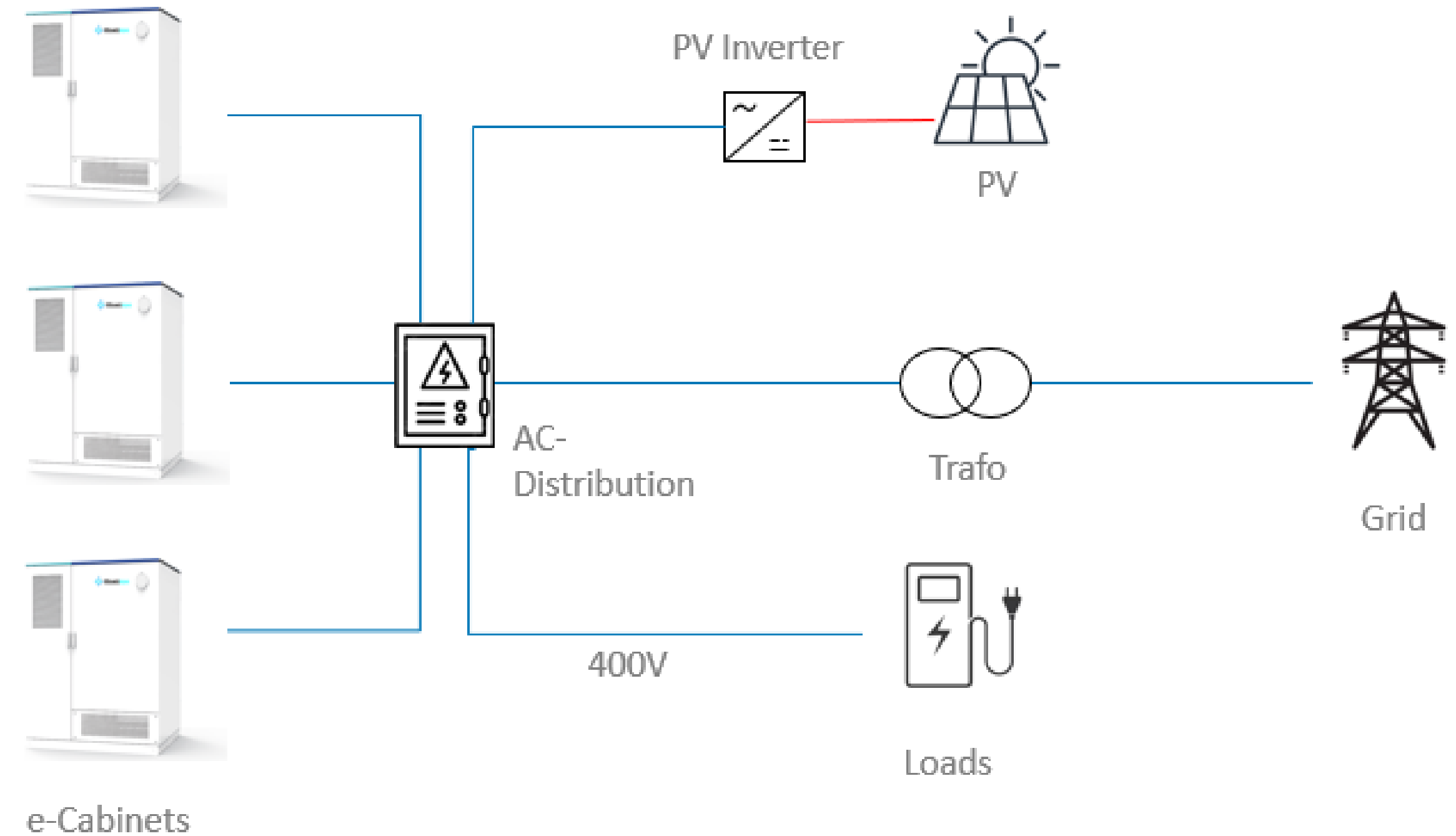
- | 1.1 MWh & 1.5 MWh
- | Scalable to 60 MWh
- | 12x Racks V2 in one 20-ft container
- | EMS: For grid-scale, price optimization
- | 1.0C

NEUE HW PLATFORM



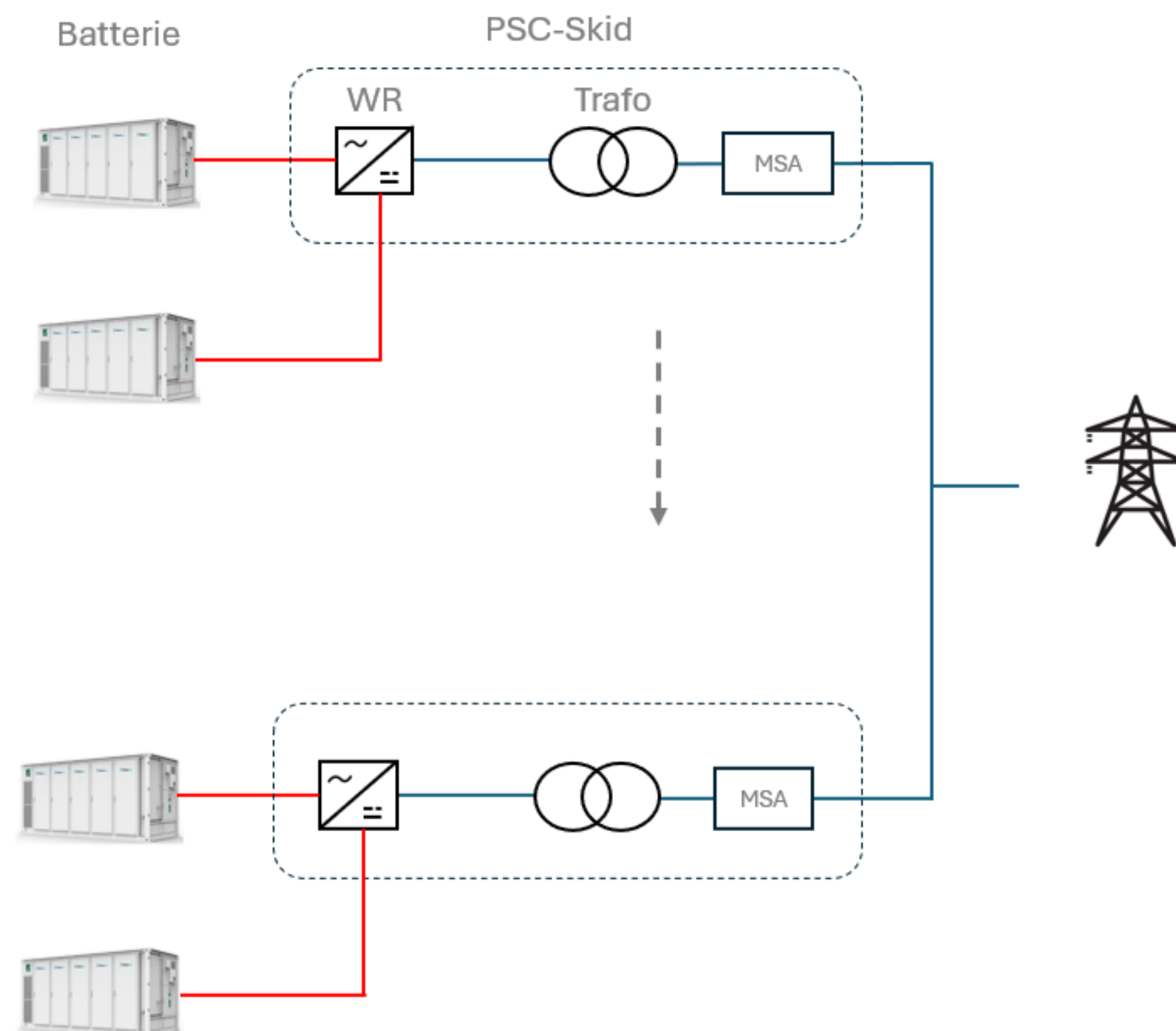
- e-Cabinet 232 05P (232kWh - 115kW)
- 400 Vac Ausgang
- BESS 0.2 MWh – 2.3 MWh

Block Diagram with Charging Stations



NEUE HW PLATFORM

Block Diagram Utility Scale

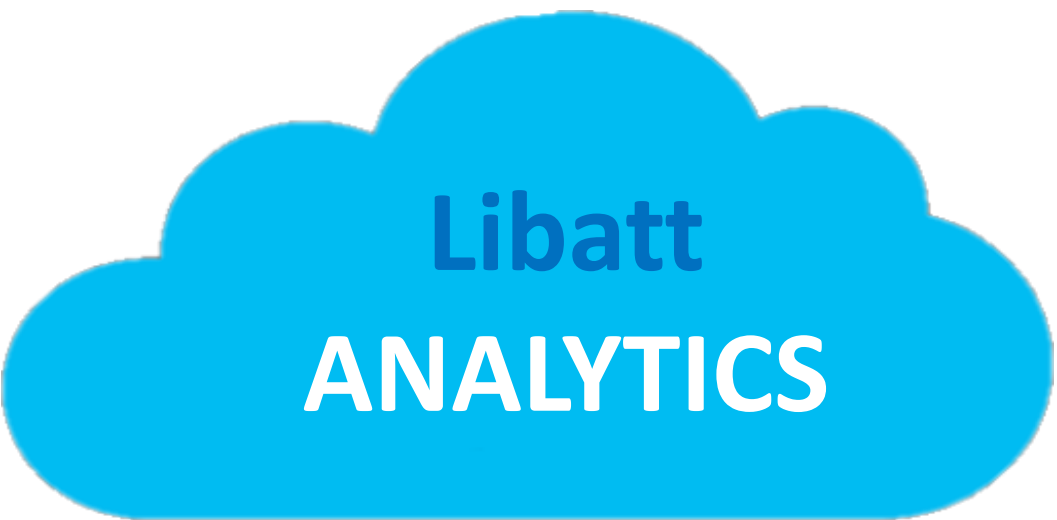


- e-Container FLEX (2.8 – 4.0 MWh)
- 1500 Vdc Ausgang
- **BESS 2.8 MWh – 60 MWh**

LIBATTION SOFTWARE PLATFORM

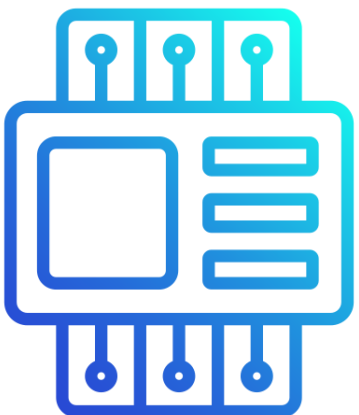
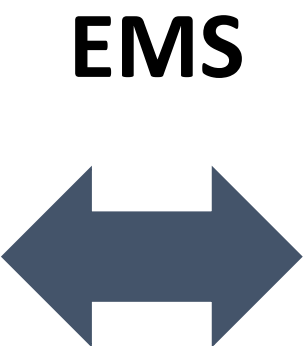
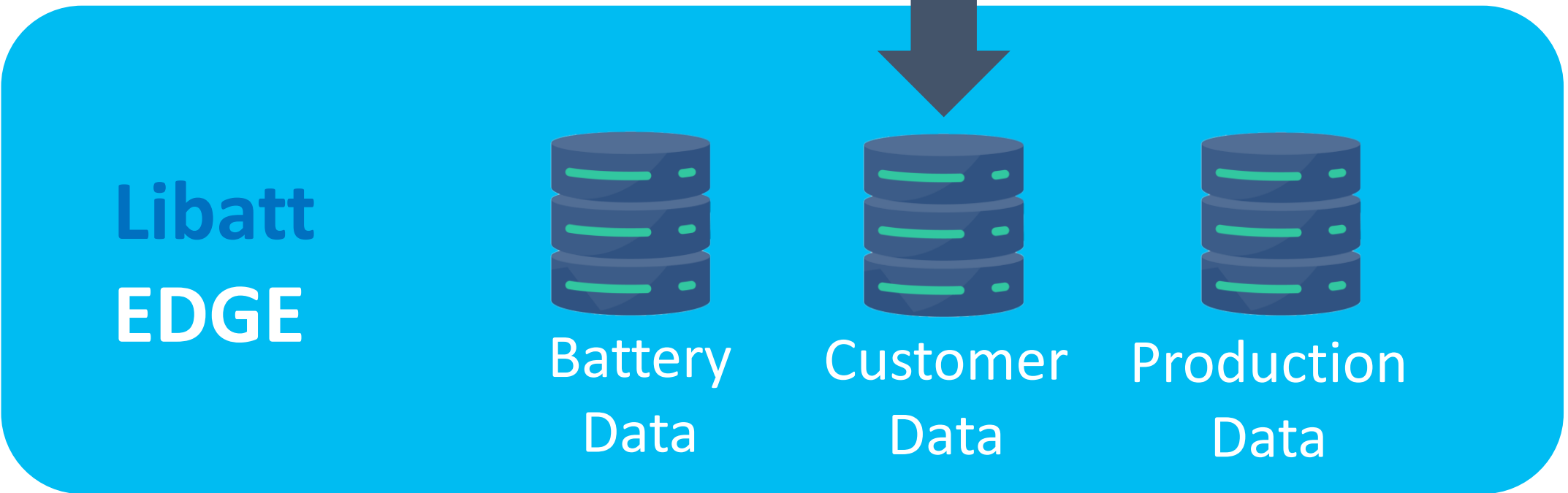


SOC
SOHc, SoHr
Digital Twins
Pred. Maint.



HMI
Customer

HW independent
Own SW architecture
Safe operation area control



Inverter
Trafo



WHAT WE'VE BUILT

Referenzprojekt 1



Charging Station e-Bus
BESS 160 kWh

Referenzprojekt 2



Ancillary Services
BESS 480 kWh

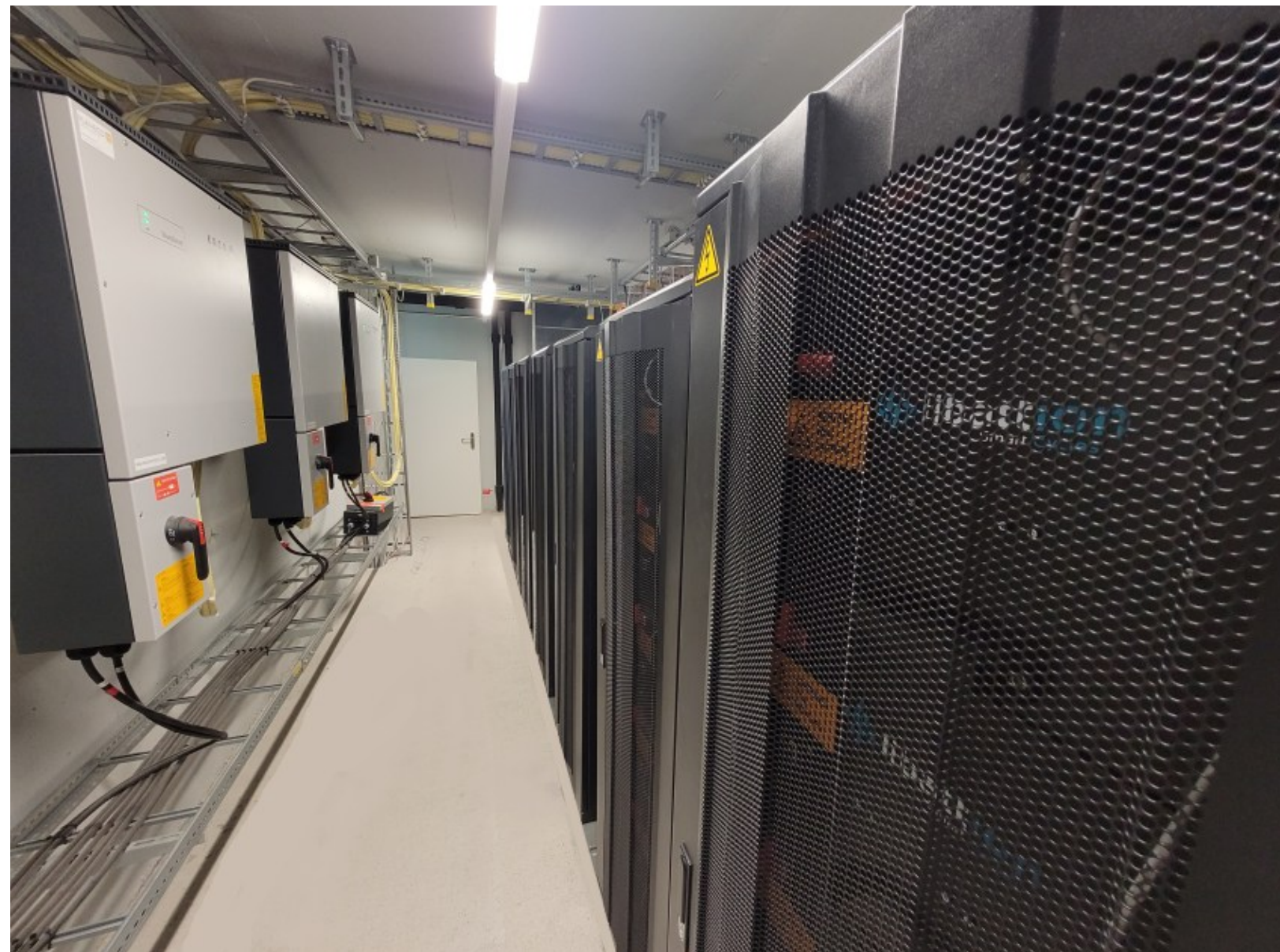
Referenzprojekt 3



PV + Ancillary
BESS 97 kWh

WHAT WE'VE BUILT

Referenzprojekt 4



**PV & Peak Shaving
BESS 1.1 MWh**

Referenzprojekt 5



**Replacement Genset
BESS 320 kWh**

Referenzprojekt 6



**Ancillary Services
BESS 776 kWh**

WHAT WE'VE BUILT

Referenzprojekt 7



Ancillary Services
BESS 3.3 MWh

Referenzprojekt 8



Ancillary Services
BESS 2.0 MWh

Referenzprojekt 9



Ancillary Services
BESS 1.1 MWh



COMING SOON..



Kundenbereich : Industrie

PV + PS
BESS 11 MWh

Kundenbereich : Metalbau

Ancillary Services
BESS 1.5 MWh

Kundenbereich : Industrie

Ancillary Services
BESS 1.5 MWh

Kundenbereich: Lebensmittel

Ancillary Services
BESS 2.0 MWh

Kundenbereich : Uhrenhersteller

A.S + Backup
BESS 1.0 MWh

Kundenbereich : Installateur

PV + PS
BESS 1.1 MWh

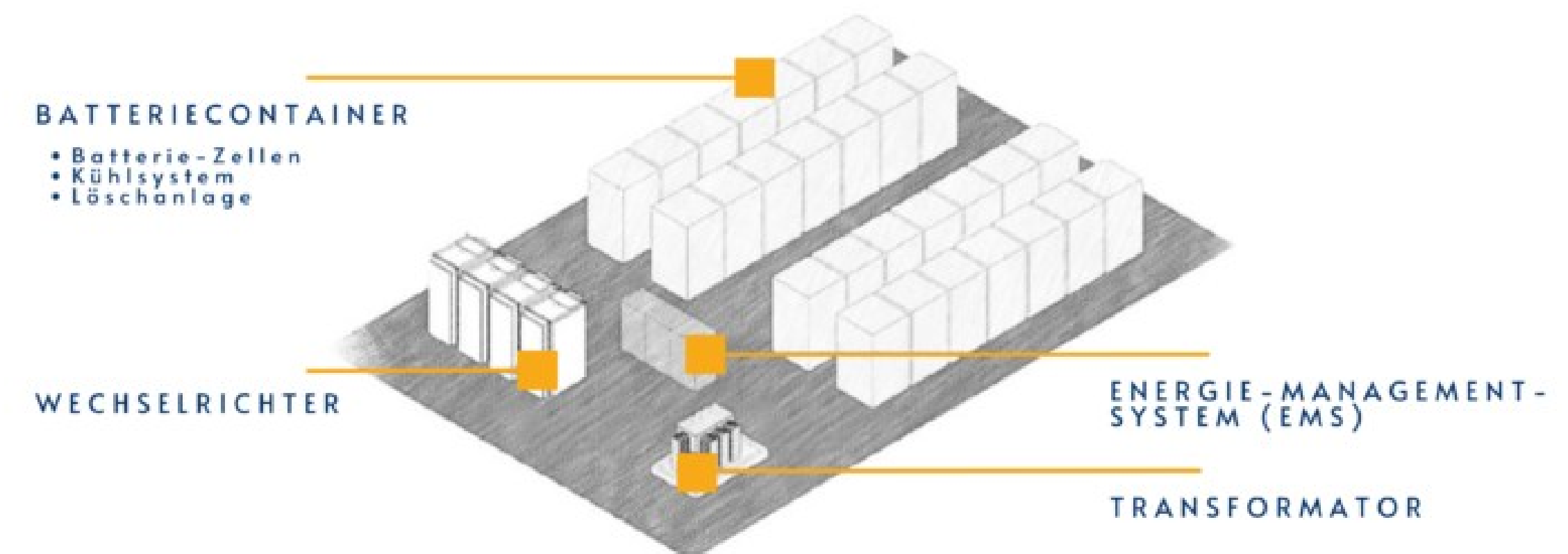
Und viele mehr!! ➡

Allgemeine Installationsbedingungen

- Ausreichend tragfähiger Untergrund
- Zugang für LKW und Hebewerkzeuge
- Mindestabstände gemäss Brandschutzrichtlinien
- Einhaltung der lokalen Bauvorschriften / Zonenvorgaben
- Umgebungstemperaturbereich gemäss Spezifikation
- Kein Überflutungsgefahr
- Flächenbedarf inkl. Sicherheitszonen beachten

Behördliche Anforderungen / Genehmigungen

- Baugesuch / -bewilligung
- Brandschutzabklärung
- Umweltschutz / Lärmschutz prüfen
- Netzanfrage beim Netzbetreiber
- Eventuelle Notstrom-Funktion abstimmen



UNSER ANGEBOT

Regelenergie

Primary, Secondary Control

Energy Arbitrage

Intraday Trading, Spot Market

PV & Peak Shaving

Load shifting

Notstrom

Security

BESS



Inverters & EMS



NEW PRODUCTION FACILITY IN SWITZERLAND: BIBERIST

Location: Biberist / Total: 7000m2 (upcycling + recycling)



- ✓ Automatische Fertigungslinie mit integrierter Batteriediagnose
- ✓ Niedrige Produktionskosten und wettbewerbsfähige Preise
- ✓ Schweizer Qualität



Safe. Circular. Powerful.