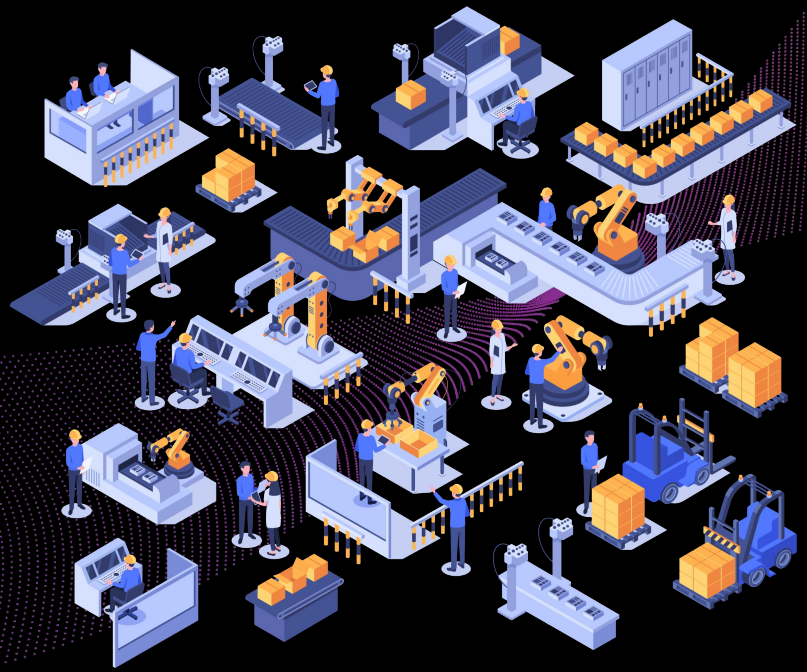
EIPGRID

Factory-Tailored Energy Cost Reduction Package Solution



Energy Market Trends: Explosive Growth, Increasing Complexity & Risk

A growing need for carbon neutrality despite extreme weather events, economic uncertainty and geopolitical tensions





20% of global CO2 emission

comes from manufacturing and production sectors

World Economic Forum, Reducing the carbon footprint of the manufacturing industry through data sharing, 2024

54% of global energy consumption

comes from manufacturing and production sectors

World Economic Forum, Reducing the carbon footprint of the manufacturing industry through data sharing, 2024

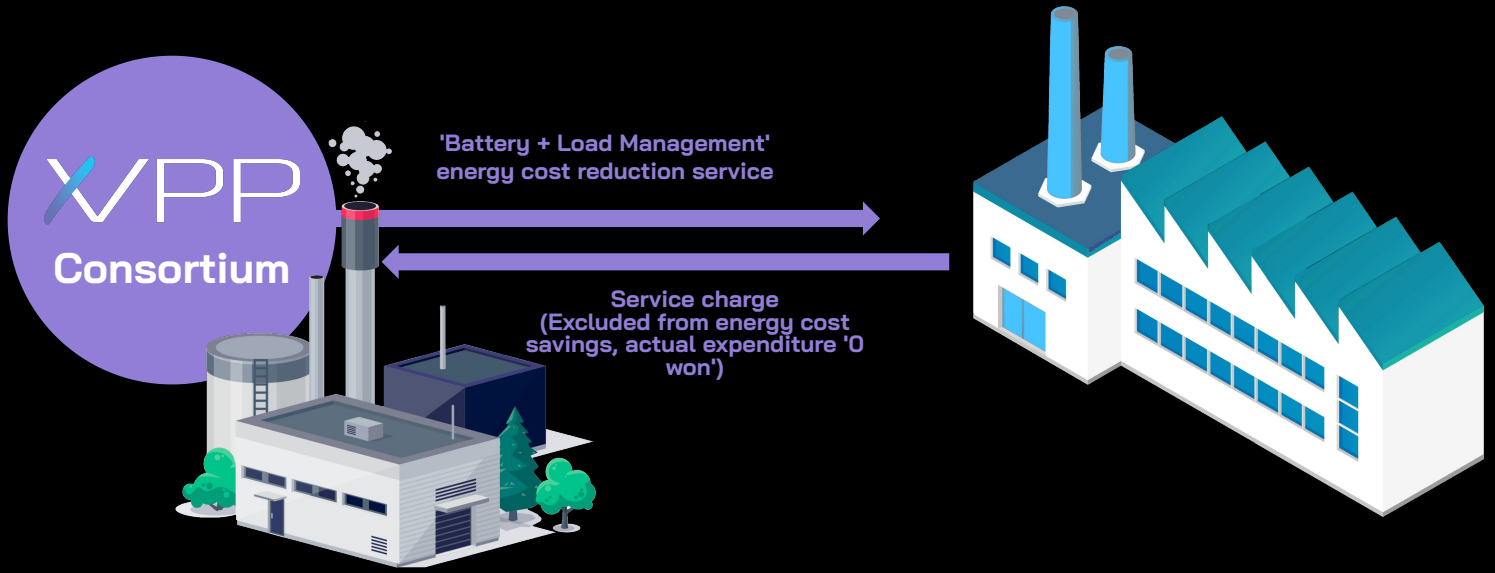
Min. 15% production cost increase

due to the costs of decarbonizing the production of steel, aluminum, and cement

McKinsey, An affordable, reliable, competitive path to net zero, 2023

The solution to the challenges

The 'Guaranteed Electricity Costs Reduction Rate (%)' service to reduce electricity bills without additional expenses!

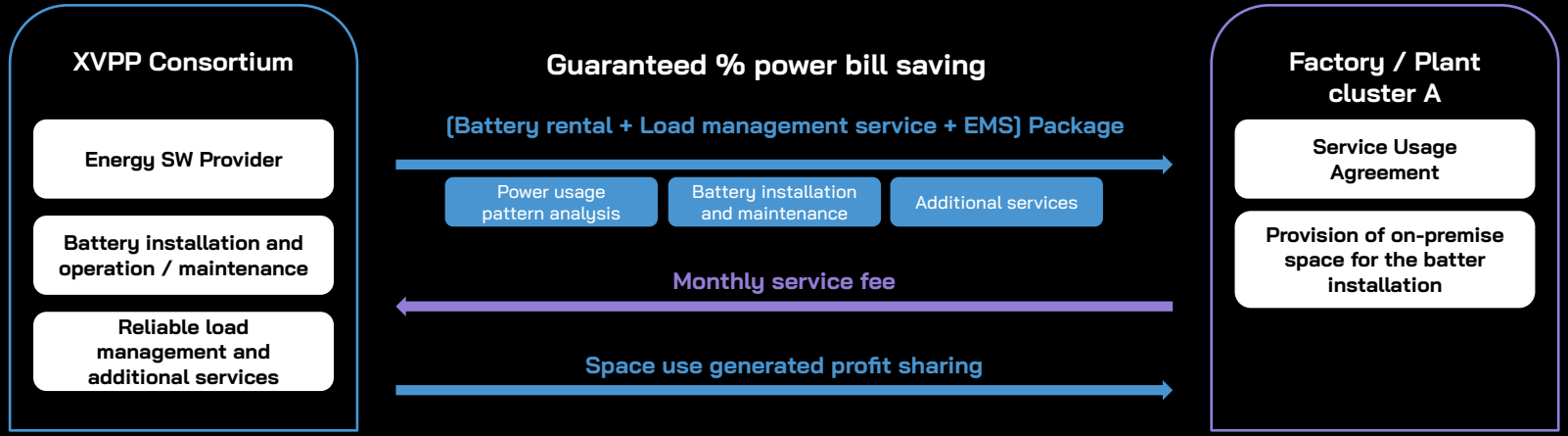


Guaranteed Electricity Cost Saving Rate % Service

- A model that guarantees a percentage reduction in electricity bills, regardless of actual savings
- Discounts on service charges by providing on-premise space (at factory site) for installing the rental batteries

Avoid the risk of high initial investment with rental batteries* + **Guaranteed savings (%) on the electricity bill** + **Reliable load management and additional revenue generation**

**300 kWh to 1 MWh battery rental based on load analysis results*

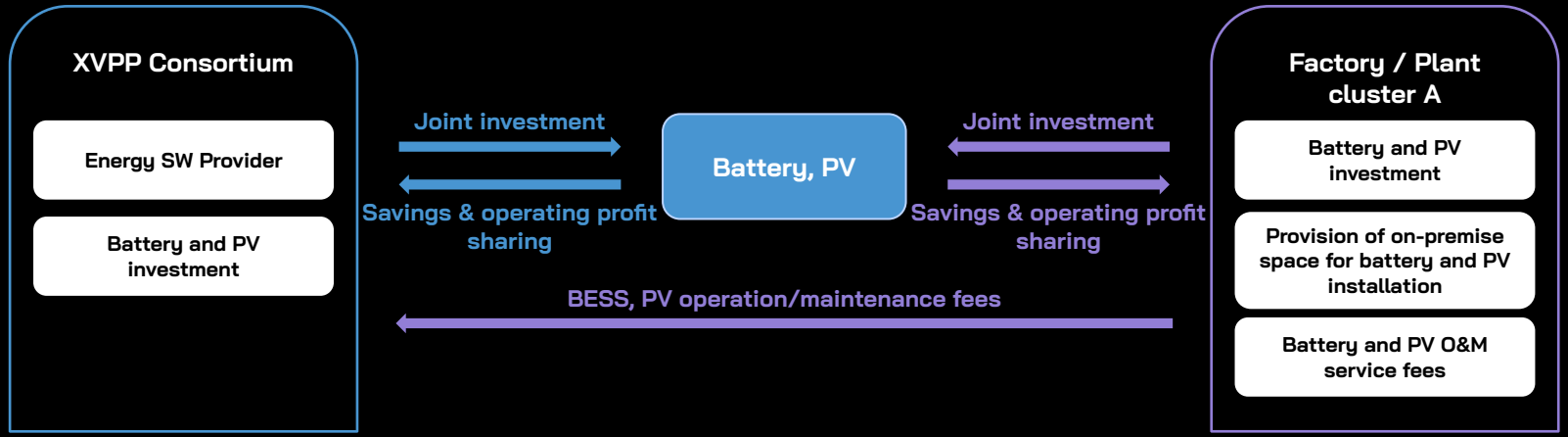


(optional) Co-equity investment and profit sharing model

- Joint investment in energy cost reduction infrastructure (battery and/or solar) considering shareholding ratio between the consortium and the factory or industrial cluster
- Differences in the investment recovery period according to the joint investment structure

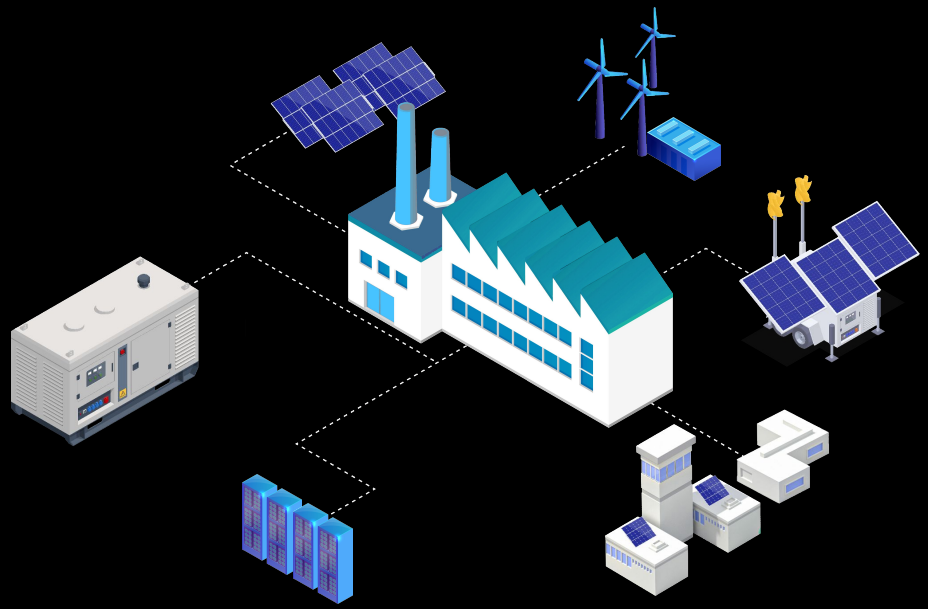
Joint investment (variable equity ratio) + **Cost savings + extra revenue generation post return on CAPEX*** + **Reliable load management and additional revenue generation**

**Payback Period is calculated based on the customer's annual savings and initial outlay*



Additional expected benefits

- Integrated management of the energy within the facility (HVAC, EV chargers, emergency generators, etc.)
- Operate AI-based advanced systems and full resource monitoring dashboards by integrating with the existing ICT infrastructure



- AI automatically integrates new energy resources (PV, battery, EV, charging infrastructure, etc.) into the infrastructure and optimizes the portfolio to reduce additional energy costs
- Real-time portfolio configuration and operation of available resources by AI ensures stable power supply even in emergency situations

Service delivery process and application results

- Service package level selection based on energy use pattern analysis (2-3 months)
- Energy cost reduction guarantee thanks to AI-driven battery / PV operation and load management

Service delivery process

Determine service package after energy use pattern analyzing (2-3 months)

(1) Service application site consultation □ (2) PoC for the selected site □ (3) Create PoC result report □ (4) Calculate 'target reduction rate (%)' based on PoC report □ (5) Estimate final service charges(*)

**For Proof-of-Concept (PoC) charges, differential agreement is made based on the number/complexity of managed facilities and the amount of power used in the PoC site*

** The final service charge consists of 'Basic Service Charge + Savings Fee'*

The final service charge is calculated within the 'energy cost saved through the service', so there is no additional cost burden.

Ensuring the energy cost reduction by linking battery-PV

Provide reliable energy cost reduction services by linking distributed resources such as batteries and solar power

Ensure cost reductions by reducing peak-cut and contract capacity

- Basic energy cost reduction through AI-based load optimization
- Maximized cost reductions by installing distributed resources such as batteries and solar power

average 15 ↓ %

NOW IT'S YOUR TURN