

Potensi dan Kesiapan Industri Baterai Domestik Dalam Mendukung Transisi Energi di Indonesia

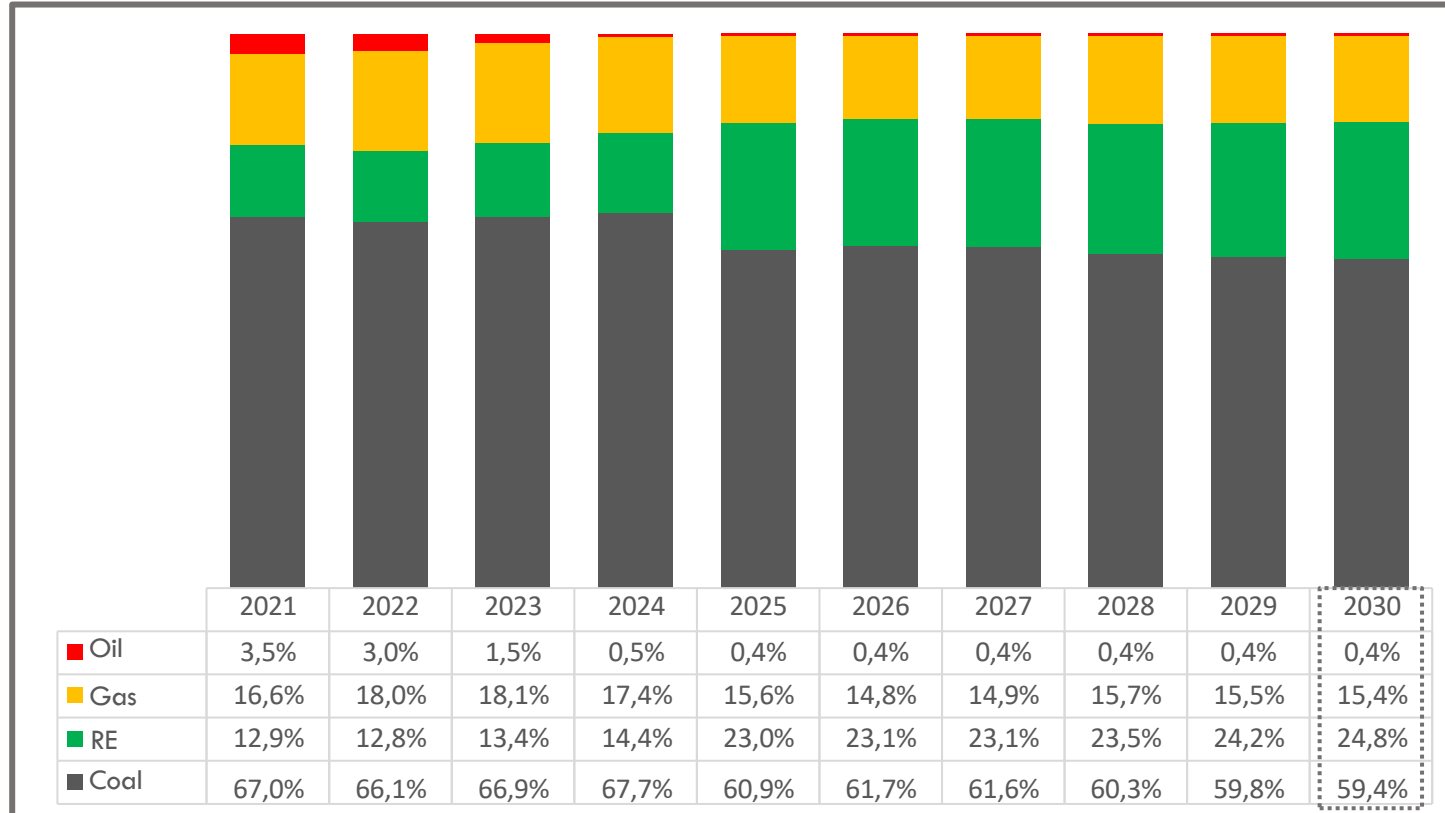
27 Juni 2023



Higher Renewable Portion in Power Generation Mix Will Boost the Demand for Battery Energy Storage System



Power Generation Mix in RUPTL 2021 - 2030

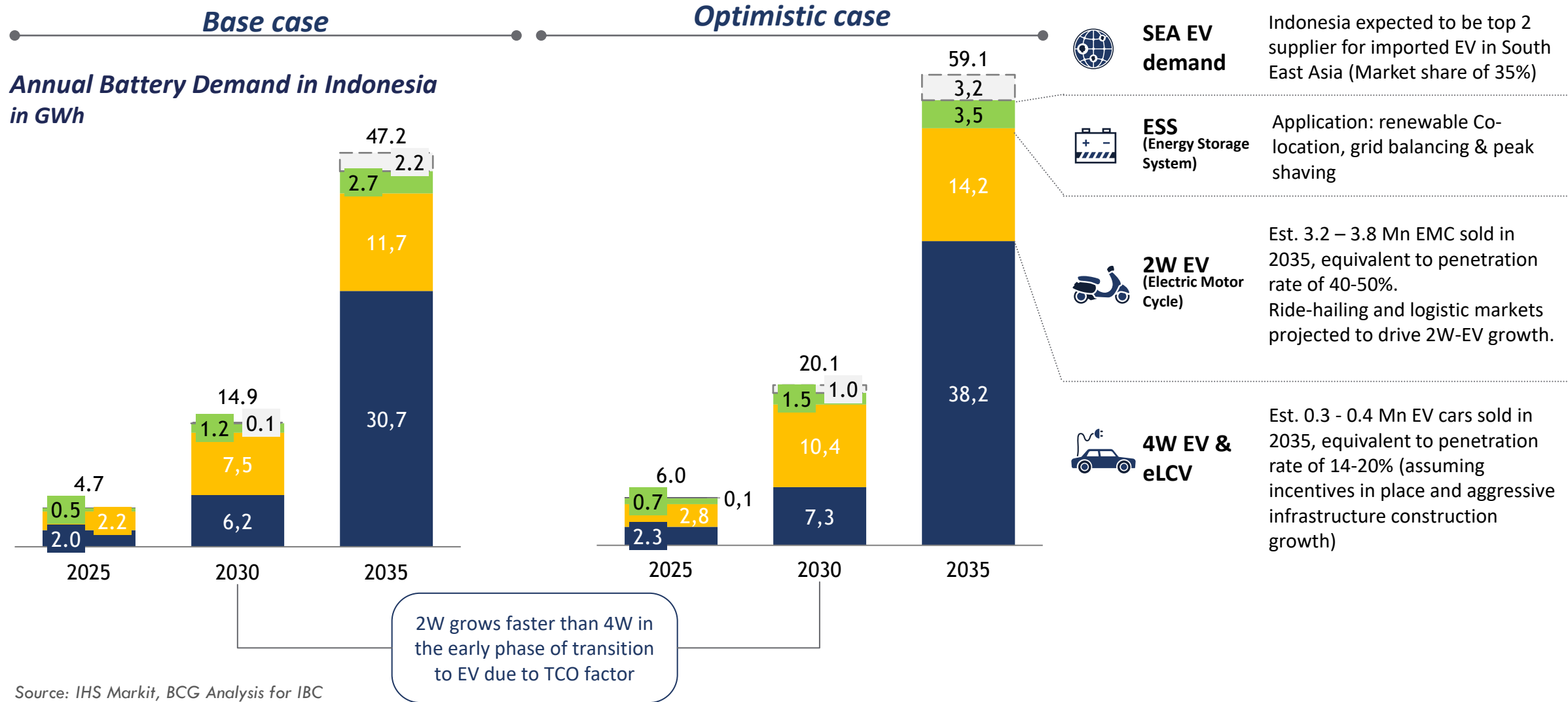


- By the end of 2030, Renewable Energy portion is forecasted almost 25%
- The increasing Renewable Energy portion will drive the demand of Battery Energy Storage System (BESS)

Benefit of BESS in the Future Electric Grid:

- ✓ Enabling smooth renewable energy integration to grid
- ✓ Flexible and scalable
- ✓ Improving grid reliability and resilience

Indonesia Battery Demand Projection



Indonesia Battery Corporation (IBC)



Shareholders of IBC



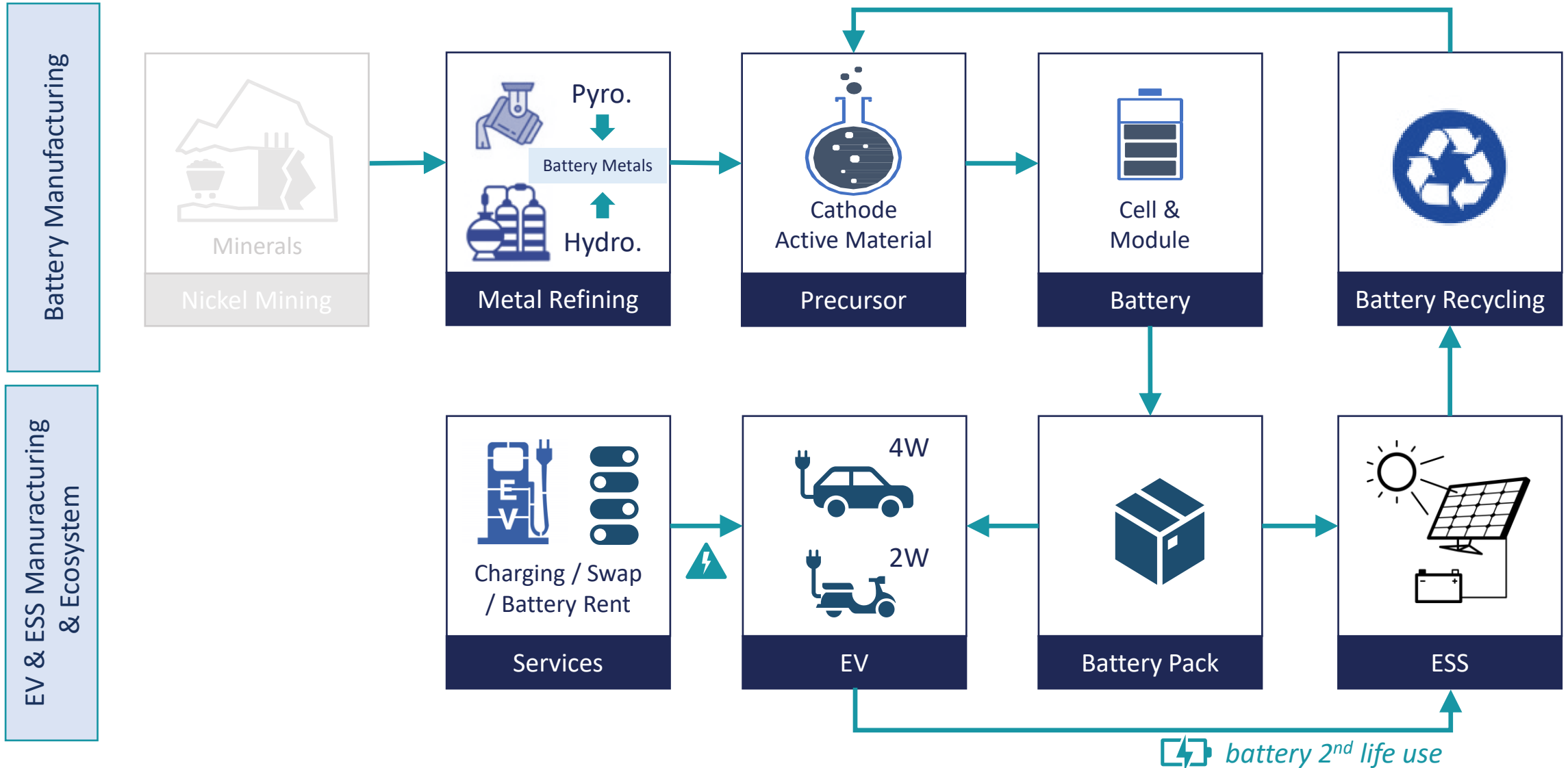
VISION

World Class Company in EV & Battery Ecosystem

MISSION

1. Maximizing the potential of Indonesia's resources by establishing a synergized EV battery ecosystem end-to-end from upstream to downstream
2. Proactively shape Indonesia's EV battery market and ecosystem
3. Continuously build capabilities and strengthen our competitiveness in order to become a world class company
4. To support Indonesia as a production base / hub for battery production and EV in ASEAN
5. Collaborating with global partners in the development of the EV and battery ecosystem

IBC Mission to Develop end-to-end EV, Battery & ESS Ecosystem



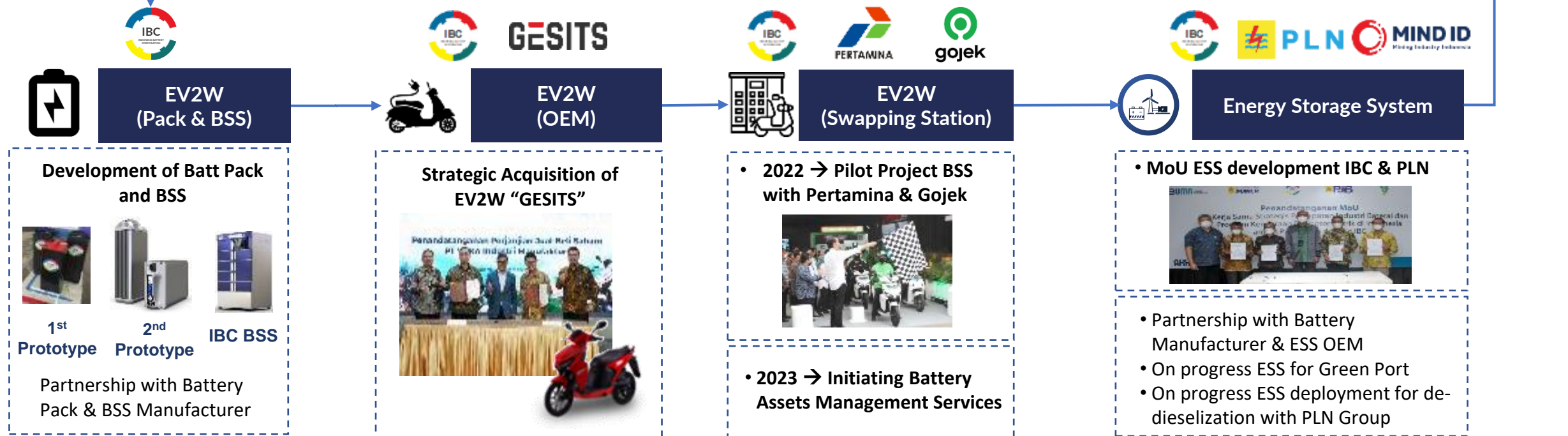
Strategic Partnership to Develop EV, Battery & ESS Ecosystem



“Battery Value Chain”



“EV & ESS Value Chain”



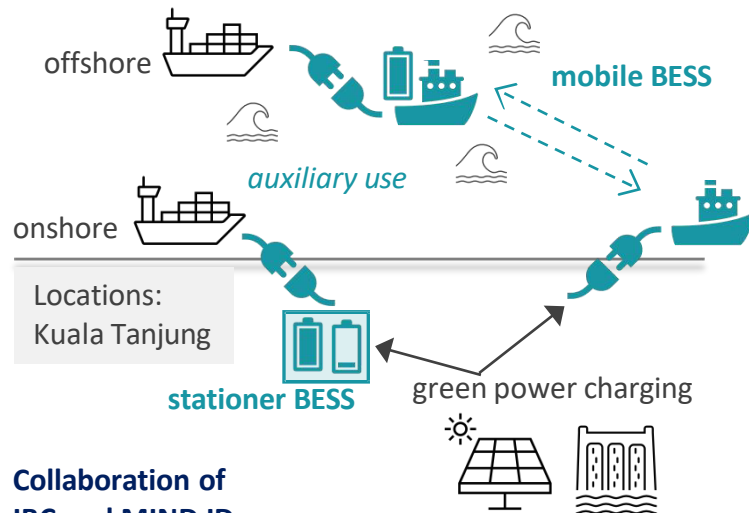
IBC Pilot Project Initiatives in Energy Storage System



Proof of Concept BESS Solution

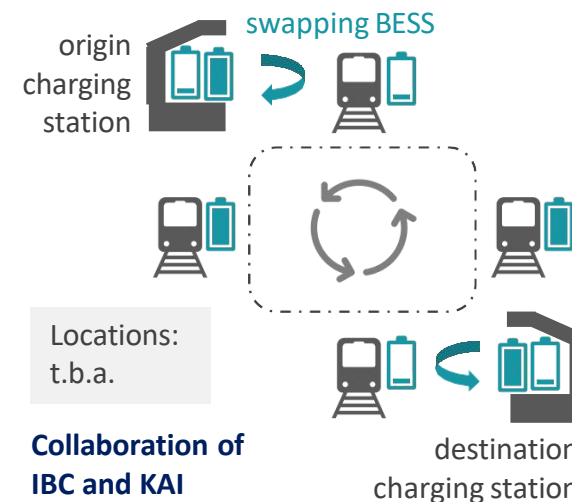
- Battery Capacity : 1290 Kwh
- Dimension : 6,06 m x 2,44 m x 2,89 m (20 ft HC container)
- Weight : 18000 kg

Shore-to-ship power via BESS 8 MWh



Collaboration of
IBC and MIND ID

Diesel-to-electric train conversion 2 MWh



Collaboration of
IBC and KAI

Action Plans

Manufacturing Capability



- Partnership with reputable partners that can bring manufacturing capability
- Financing support from shareholder and financial institutions

Supply Chain



- Integrated with mining for critical cathode material
- Utilizing partner's existing supply chain network
- Exploring own supply chain capability

Technology



- Partnership with reputable partners that can bring technology
- Exploring technology acquisition (M&A)
- Exploring R&D with universities & research institutions

Regulatory Framework



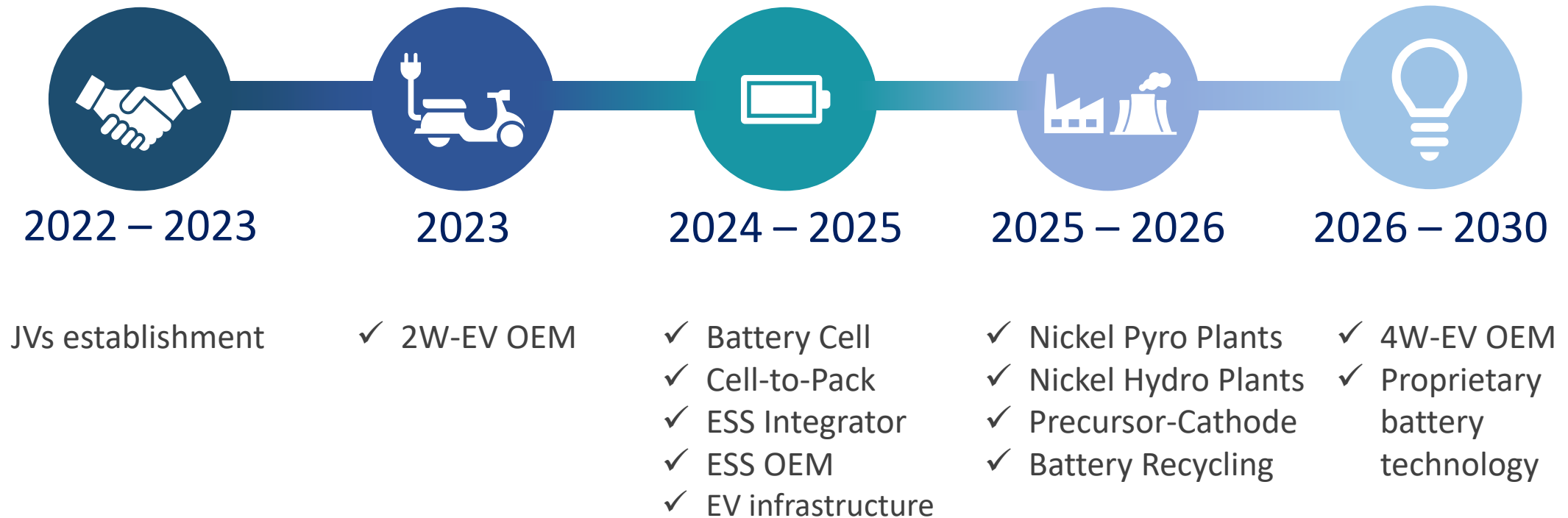
- Work closely with regulator to push for supportive regulatory framework

Grid Integration & Storage Safety



- Work closely with PLN to ensure grid integration
- Learning and adopting suitable safety standards from partners and other sources for Indonesia condition

IBC Roadmap



Terima Kasih