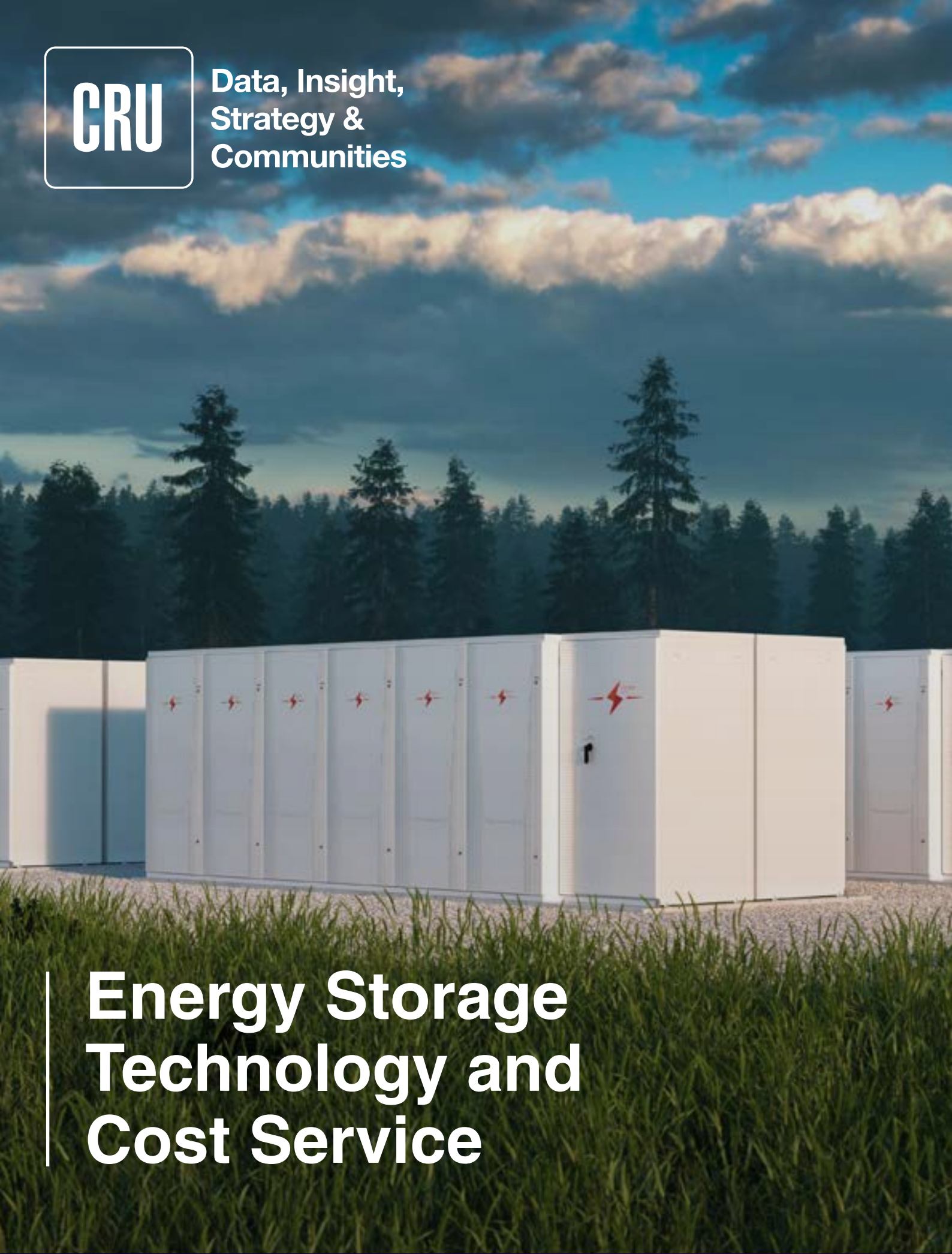

CRU

Data, Insight, Strategy & Communities

Energy Storage Technology and Cost Service

Independent *expert* intelligence

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A *full view* of the stationary battery storage market, from key raw materials to final systems

Our service in collaboration with PVEL, will keep you up to speed on changes in technology and manufacturing costs that define the future for manufacturers, storage integrators, utilities and related stakeholders. How does it all tie together? CRU delivers the battery market, commodity outlooks, cost forecasts and analysis, and PVEL provides information on policy.

The Energy Storage Technology and Cost Service service ensures a thorough understanding of competitive forces in the stationary energy storage market, allowing you to refine company strategy and secure market share. Trust our independent perspective to validate and test your internal assumptions, providing a clear view of the evolving stationary storage market. Stay ahead, stay informed, and drive your business forward with confidence.

Data and Expertise Across Key Areas

- Global BESS supply and demand forecasting
- Five-year forecast of BESS with battery costs and prices
- LIB cell and price outlooks between 2028-2023
- Detailed analysis of Global policy and trade developments
- Technology Outlook

Our team comprises highly skilled experts who offer insight and analysis to help formulate strategies geared towards achieving your objectives. Gain access to valuable intelligence that can inform your decision-making process.

See the big picture with our global Battery Energy Storage Systems (BESS) forecasts

- Our global demand forecast across 2023–2030 is supported by detailed bottom-up demand analysis of key regions including China, the US and Europe
- The demand forecast is supported by solar PV and wind generation forecasts across 2023–2030
- Scenario analysis, examining trends such as the continued build out of co-located solar and storage (S&S)
- Deep dive on upstream trends, such as US policy, battery production capacity and demand outlook

Plan ahead with our five-year BESS forecasts, including battery costs and prices

- Granular bottom-up analysis of BESS system cost and price drivers
- This includes extremely detailed breakdowns of LIB cells and how much they contribute to the whole system costs
- Deep dives into other key cost drivers, such as inverter costs

Gain the edge with our LIB cell and price outlooks for 2024–2029

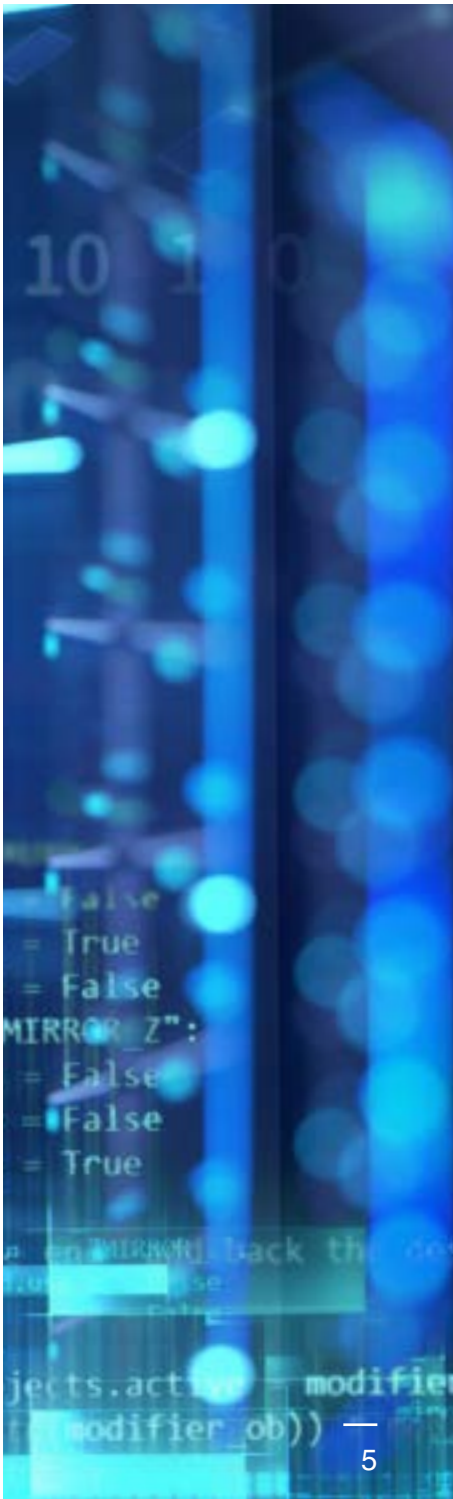
- Cell-level price forecasts and comparisons between Chinese, European and US-made LIB cells, informed by CRU's Battery Technology and Cost Model and extensive battery materials pricing data and forecasts
- Detailed manufacturing cost breakdowns of LIB cells, with analysis of key input costs including lithium, cathode materials, anode materials, separators, conductive foils and electrolytes
- Margin forecasts informed by extensive analysis of large-scale battery makers and companies throughout the industry

Detailed analysis of global policy and trade developments

- Initiatives and regulations, including the US Inflation Reduction Act (IRA) and Bipartisan Infrastructure Law (BIL) and EU Critical Raw Materials Act
- Coverage of key policy updates and their likely impacts on BESS stakeholders
- Critique of current policy developments informed by deep understanding of the upstream supply chain

Get ahead of the game with our technology outlook

- Comparisons of existing and emerging energy storage technologies, including manufacturing cost, energy density, cycle life and other relevant metrics
- Comparisons of pricing and manufacturing cost forecasts for sodium-ion battery (SIB) cells and lithium-ion batteries
- Detailed breakdowns of commercialisation efforts and core technologies deployed by global SIB companies
- Coverage of key stories from the SIB battery industry
- Global supply and demand forecasts for SIBs



Related Services

- Battery Value Chain Service
- Solar Technology and Cost Services
- Battery Technology and Cost Model
- Battery Materials Outlooks
- Specialty Phosphate Service
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