



Technology Landscape - Renewable Energy Mix and Energy Storage Technologies

Client	Leading producer of nitrates, calcium nitrate, ammonia, and phosphates
Industry	Chemical and Power & utilities
Products	Energy storage system

Background

- The context of this study was to focus on evaluating the various large scale energy storage technologies available across the globe. The key focus in this study was to identify the best fit energy storage technologies ideal for the geographies in focus for client and also best suited for the client's production sites and energy storage requirements .

Key Business Questions

- What are the various technologies used for large scale energy storage project (under Chemical, Electrochemical and Thermal energy storage systems)?
- What are the various regulatory policies in different geographies for energy storage system?

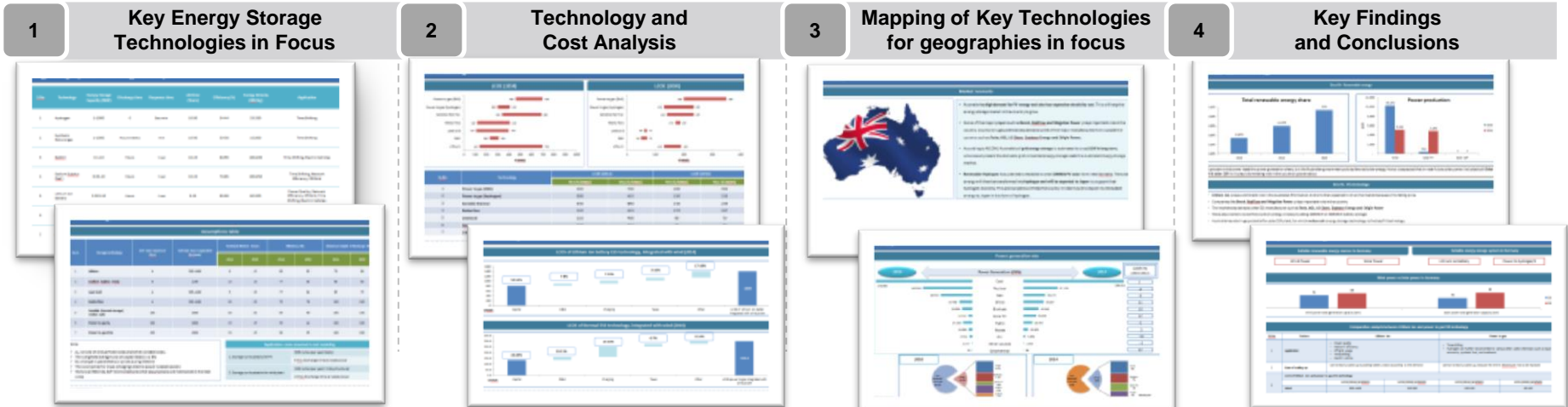
Engagement Scope

1	Key Energy Storage Technologies in Focus	2	Technology and Cost Analysis	3	Mapping of Key Technologies for geographies in focus	4	Key Findings and Conclusions
▪	What are the various technology used for large scale energy storage system for various application ?	▪	What are the LCOS and LCOE associated with various types of energy storage system?	▪	What are the various technologies used across various end user industry in Germany, Norway, Australia and South Africa?	▪	What is the market size of various energy storage system across major markets?
▪	What are the storage duration of different technologies used for large scale energy storage system?	▪	Comparison between various technologies on the basis of various technical parameters such as energy storage capacity, discharge time, response time, lifetime, etc.			▪	What are the different regulatory policies implemented in key geographies for driving the energy storage system market?
						▪	What are the best fit-technologies for large scale energy storage system in various geographies?

Research Methodology

- FutureBridge identified major energy storage technologies across the globe and key geographies mentioned by the client.
- We compared all the energy storage technologies being used based on the different examples of solutions, market scenario, and power generation mix in these key geographies.
- We also carried out deep analysis of policies & regulation related and cost involved for energy storage solutions in these key geographies. Finally best fit technology was identified for the key geographies.

Sample Analysis



Benefits to Client

- Client was able to understand the following aspect of the energy storage solution market in key geographies -
- Mapping of energy storage technology with the renewable energy sources in these key geographies
 - Various completed and ongoing projects of energy storage solutions and their parameters in these geographies
 - Policies and cost analysis of these energy storage technologies
 - Key providers of energy storage solution technology

Thank you

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