

Forecast of EES Market Potential by 2030

Energy Storage Systems (EES) Market Analysis

Introduction

- ▶ Overview of EES applications and future market potential
- ▶ studies.



Sandia National Laboratory (SNL)

- ▶ EES market potential in the USA by application type.



Boston Consulting Group (BCG)

- ▶ Forecast of profitability and market size for EES
- ▶ applications by 2030.



Panasonic Li-ion Battery Market

- ▶ Growth simulation for Li-ion battery applications.



Renewable Energy Integration

- ▶ Importance of EES for renewable energy support.



Germany Market Potential

- ▶ Storage requirements for renewable integration in Germany.

Germany Market Potential

Gas Grid Storage

- ▶ Hydrogen and synthetic methane storage in gas grids.



Siemens Europe Study

- ▶ Storage needs for 100% renewable electricity scenario.



IEA Global Forecast

- ▶ Global EES demand projections up to 2050.



Vehicle to Grid (V2G)

- ▶ Using EV batteries for grid support and storage.



Future Conclusions

- ▶ Key findings and future opportunities for EES.



Key Conclusions

- ▶ Future EES market will expand due to renewable energy growth.
- ▶ Li-ion batteries have strong potential across applications.
- ▶ Large-scale storage such as CAES and PHS will remain important.
- ▶ Hydrogen and SNG storage are promising for long-term storage.
- ▶ Vehicle-to-grid technology can support smart grid operations.
- ▶ Europe and China are expected to become major EES markets.