

Enabling energy storage projects: A summary fiche

Aim and scope

The 'Enabling energy storage projects' toolkit is aimed at local and regional authorities and decision-makers in JTF regions. It provides information on energy storage systems; guidance on how to develop and implement storage projects; and key learnings from experience.

Why is energy storage important?

Energy storage is key to enabling widespread renewable energy distribution with high security of supply, and to decarbonising energy demand, making it an essential element in achieving net-zero objectives.

Key challenges and opportunities

The [toolkit](#) covers the key challenges and opportunities energy storage represents. Challenges include the need for upfront investment and grid infrastructure upgrades. Opportunities include the range of energy storage products that can facilitate new power plant retrofit projects, that can in turn create new jobs and revenue.

Success factors in developing and implementing storage projects

The toolkit looks at the key success factors for energy storage, such as

- Integrating energy storage into future power system planning and modelling,



- Mobilising financial resources,
- Location and environmental factors,
- Connectivity,
- Supply and demand factors,
- Duration requirements, for example fast frequency response service versus providing peak capacity and overcoming seasonal energy production variability.

Key learnings

The toolkit includes a number of key learnings from JTF regions which demonstrate that energy storage

- Can help ensure grid flexibility, stability, and reliability,
- Is becoming increasingly cost-effective as advances in technology bring system performance, safety, and affordability improvements,
- Helps facilitate cleaner alternatives to fossil-fuel powered thermal plants covering flexibility needs,
- Brings new employment opportunities for former coal+ or carbon-intensive workers.

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