

Advancing Energy Storage through State and Federal Partnerships

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Advancing safe, reliable, affordable, and environmentally responsible electricity for society through global collaboration, thought leadership, and science and technology innovation.



Together...Shaping the Future of Energy™

KEY ASPECTS

Nonprofit

Chartered to serve the public benefit, with guidance from an independent advisory council.

Thought Leadership

Systematically and imaginatively looking ahead to identify issues, technology gaps, and broader needs that can be addressed by the electricity sector.

Independent

Objective, scientific research leading to progress in reliability, efficiency, affordability, health, safety, and the environment.






Scientific and Industry Expertise

Provide expertise in technical disciplines that bring answers and solutions to electricity generation, transmission, distribution, and end use.

Collaborative Value

Bring together our members and diverse scientific and technical sectors to shape and drive research and development in the electricity sector.

EPRI Energy Storage Roadmap: Vision for 2025

				
SAFETY	ELECTRICITY RELIABILITY	ECONOMICS	ENVIRONMENTAL RESPONSIBILITY	INNOVATION
Safety practices established	Energy storage asset reliability characterized and enhanced	Planning and operational modeling validated and applied	Reduced emissions with energy storage applications	Cross-industry disruption awareness and integration
Asset hazards characterized and minimized	Energy storage controls integrated and interoperable	Multi-use applications enabled	Sustainable life cycle implemented	Future workforce available and trained
Community resilience and public safety applications viable	Energy storage integrated into grid planning and portfolio management	Total cost of ownership reduced	End-of-life impacts minimized	Technology advancements accelerated

Source: [3002019722](https://www.epri.com/3002019722)

2015

- “Grid-ready storage”
- Kicking the tires

2020

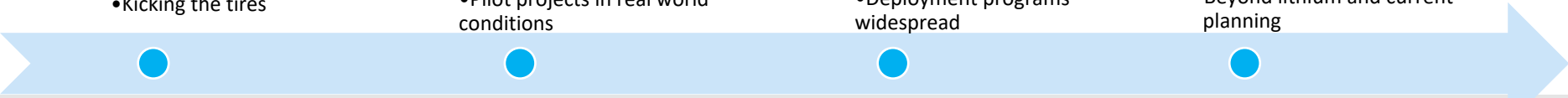
- “Storage Anywhere”
- Pilot projects in real world conditions

2025

- “Storage Everywhere”
- Deployment programs widespread

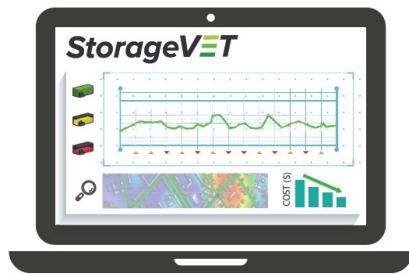
2030

- “New Landscape”
- Beyond lithium and current planning

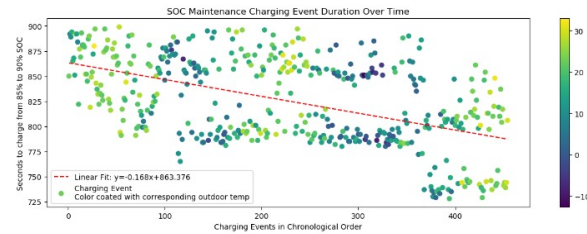


Addressing the roadmap – Always Better Together

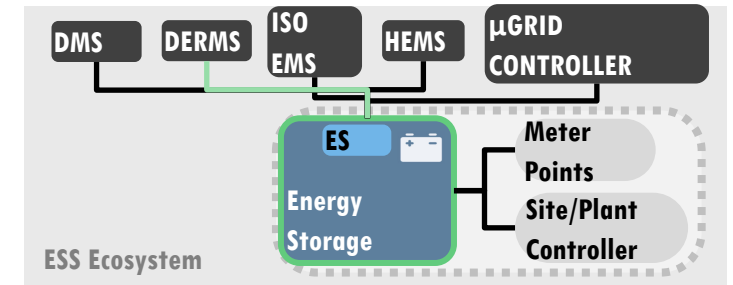
Analysis Methodologies
Valuation and Grid Impacts



Technology Assessments
Evaluation, Testing, Demonstration



Implementation Practices
Project Lifecycle and Controls



Asset Management Practices
Risk Analysis and Reliability



Industry Engagement
Advancing Common Approaches



EPRI's energy storage roadmap guides research and collaboration



Main page

Read

Welcome to StorageWiki

Welcome to the main page of the Electric Power Research Institute's [StorageWiki](#), a wiki-style hub for energy storage research at EPRI. StorageWiki was built using the [MediaWiki engine](#) to be an extensible and dynamic educational and knowledge dissemination tool. It is meant to supplement the breadth of published content that is accessible through the [EPRI website](#), or through each [program's cockpit](#), by providing a flexible, web-based content delivery solution for projects that can benefit from the ability to easily update and add content as a project progresses. This wiki can be quickly built upon by future energy storage projects that decide that this framework suits their needs.

We believe this resource can bring value to EPRI researchers, members, and the general public by providing:

- A unifying approach and platform to enable exchange of information across deliverables and programs
- An extensible website infrastructure to facilitate the quick addition of new projects as well as periodic updates to existing project content
- A hub for interactive content for future projects to build upon

Current and Planned StorageWiki Content

Content	Description	Access
<p>Energy Storage 101</p>	<p>DER-VET User Guide</p>	<p>Energy Storage Roadmap: Vision for 2025</p>
		<p>Energy Storage Analysis Case Studies</p>

Main page

▼ Contents

- ES 101
- DER-VET Guide
- Failure Event Database
- ES Analysis Case Studies

► Additional Resources

► Other Tools



A blue-tinted photograph of four people standing in a row. From left to right: a woman with curly hair and glasses wearing a white lab coat with 'EPR2' on the pocket; a man with glasses wearing a white lab coat with 'EPR2' on the pocket; a woman wearing a white hard hat and a dark polo shirt with 'EPR2' on the chest; and a man with glasses and a beard wearing a light blue button-down shirt. They are all smiling and looking towards the right. The background is a solid blue color.

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