

Long Duration Energy Storage in High Renewable Penetration

DER Integration

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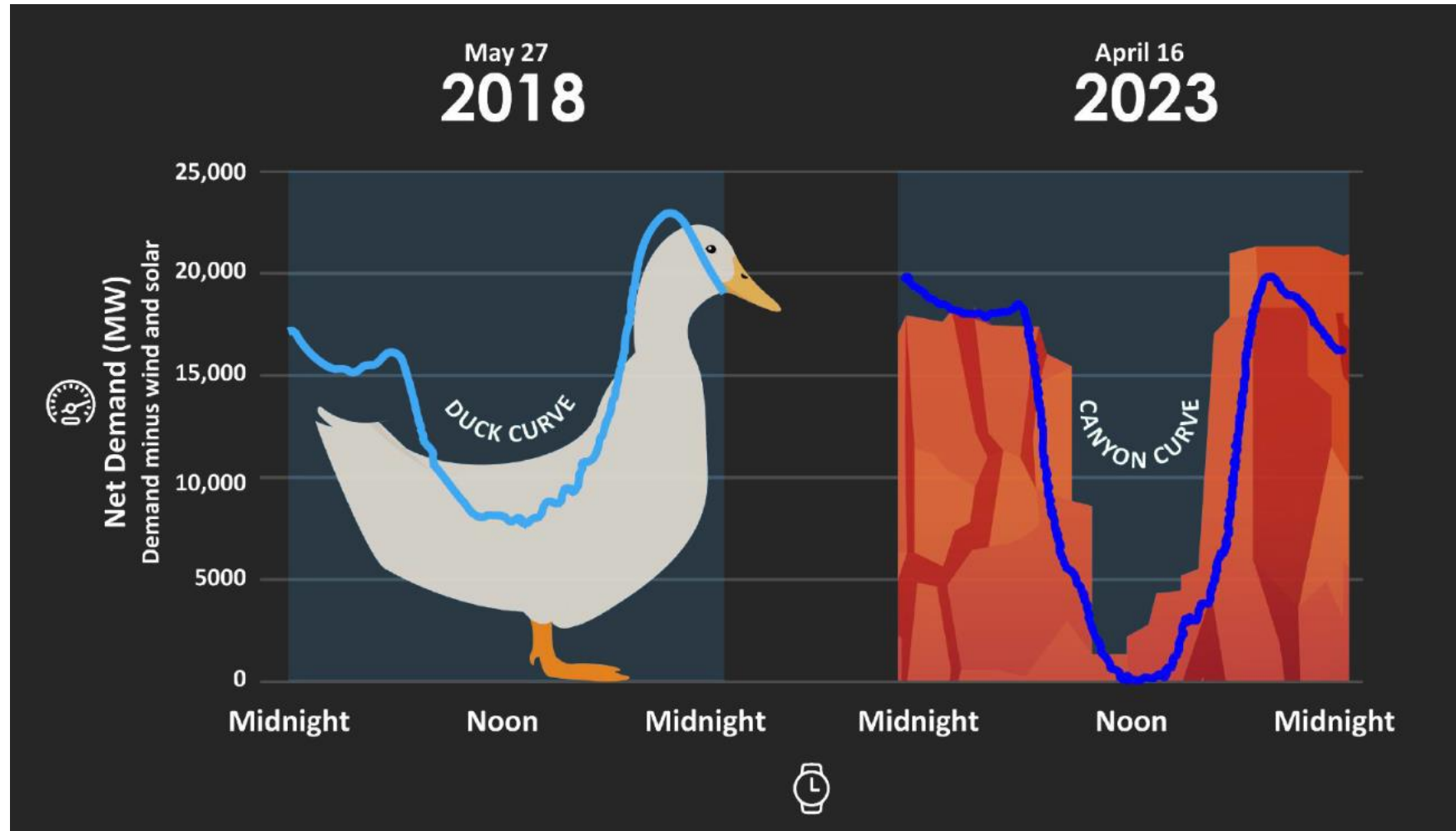
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Supporting the Energy Transition



Energy storage is a key technology in addressing grid flexibility and reliability

Roadmap for Effective Energy Storage

Mission: advance integration and use of safe, reliable, cost-effective and environmentally responsible **energy storage**.

				
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	Technology advancements accelerated
Asset hazards characterized and minimized	Energy storage controls integrated and interoperable	Multi-use applications enabled	Sustainable and equitable 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	Cross-industry breakthroughs tracked and integrated

Source: <https://www.epri.com/research/products/000000003002019722>

A blue-tinted photograph of four people standing in a row. From left to right: a man with curly hair and glasses wearing a white lab coat; a man with glasses wearing a white lab coat; a woman wearing a white hard hat and a dark polo shirt; and a man with glasses and a beard wearing a light-colored button-down shirt. The background is a solid blue color.

Together...Shaping the Future of Energy®