



Department of Energy Workshop Electric Transmission Development and Siting

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Unprecedented number of changes in the power industry



Storage technologies



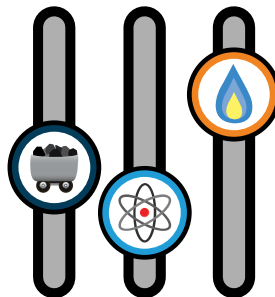
Distributed energy resources



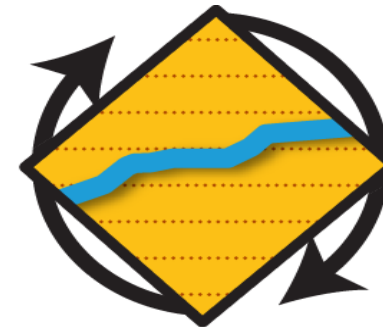
Intermittent renewables



Alternative technologies



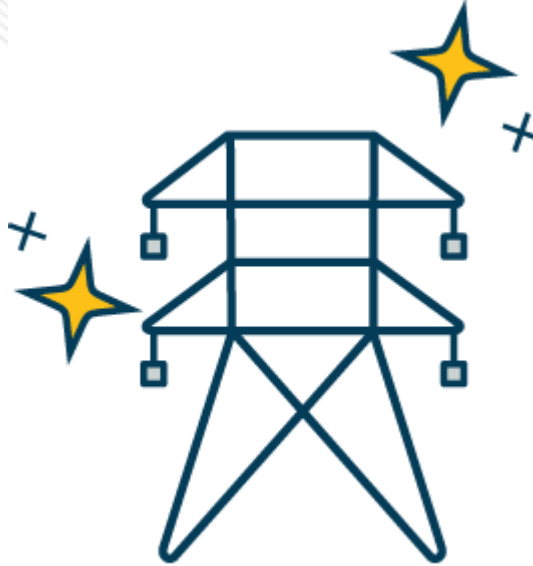
Fuel Swap



Changes in customer expectations

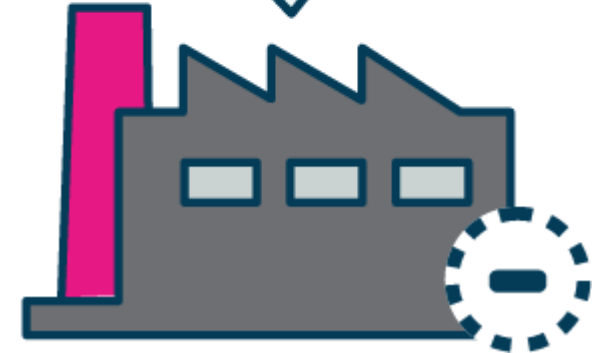


72,000 MW of new generation online 2023



\$16 billion in new transmission projects

DEACTIVATIONS	
2017	2018 (YTD)
2,084 MW	186 MW

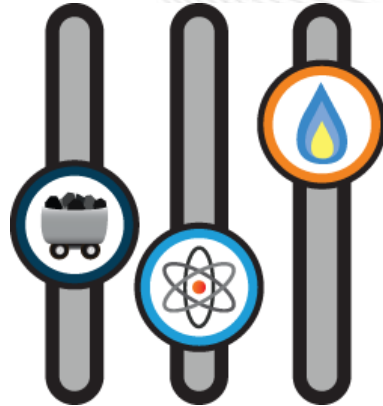


13,358 MW* scheduled for future 2021 retirement

*5,605 MW for end of year 2018



Changing Load Profiles



Changing Fuel Mix



Regulatory Uncertainty



Fuel Security



Renewable and Distributed Energy Resource Integration



Cybersecurity and System Resilience