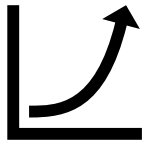






# Energy Modernization Project

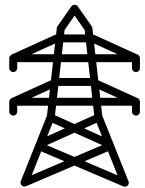
# Challenges to Utah's Grid



**INCREASING ENERGY NEEDS**



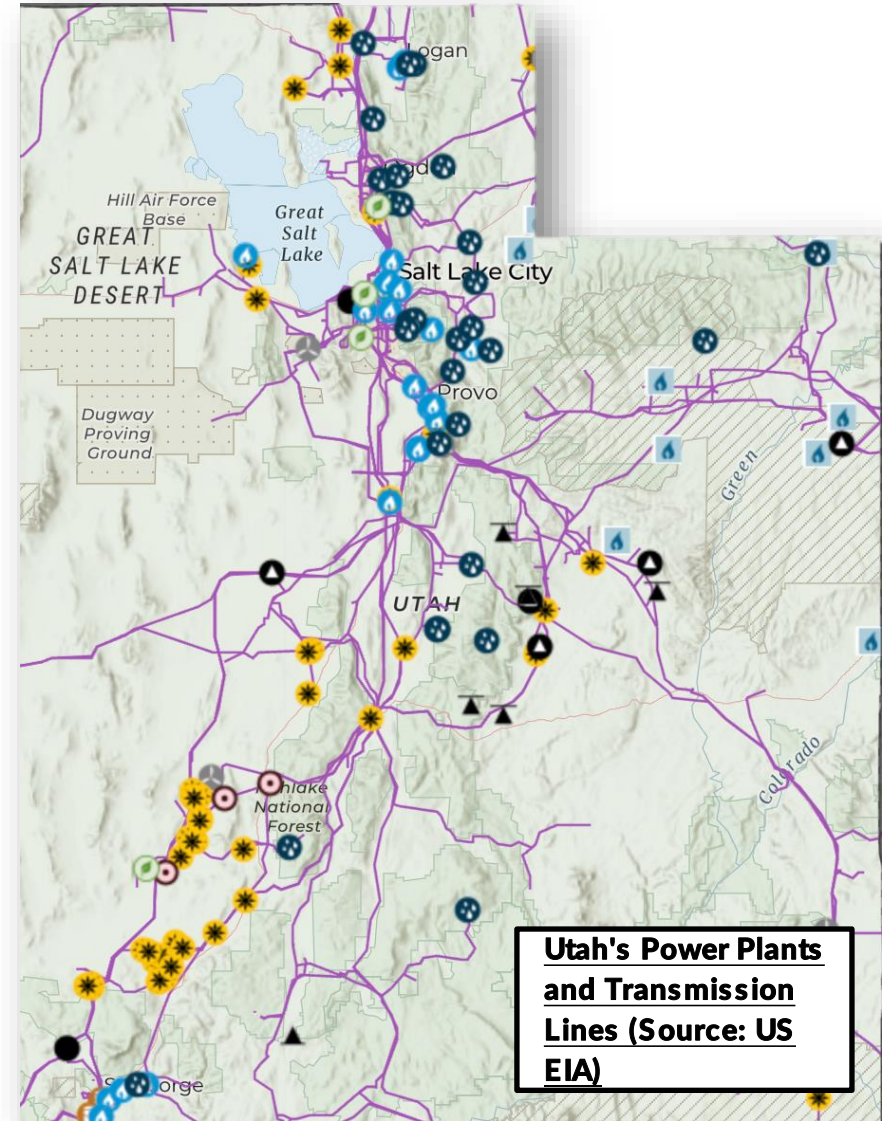
**COSTLY GRID CONGESTION**



**CAPACITY CONSTRAINTS**



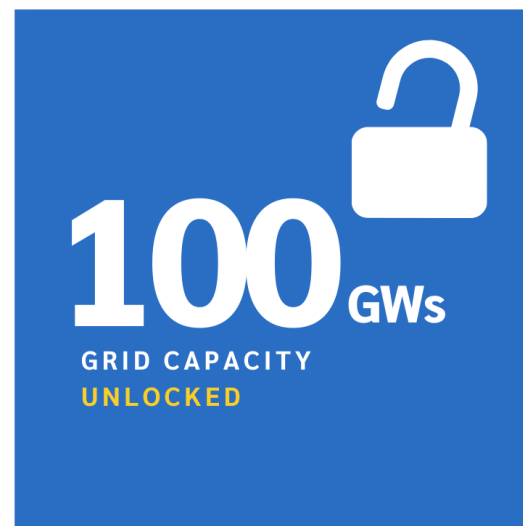
**EXTREME WEATHER**



# Modernizing the grid with ATTs

## Advanced transmission technologies (ATTs):

- squeeze more capacity out of the existing grid,
- reduce congestion costs,
- can be deployed faster than traditional transmission infrastructure.



# Types of Advanced Transmission Technologies (ATTs)

GETs: Dynamic Line Rating



10-30% Capacity Boost  
<3-6 months deployment

Advanced Conductors



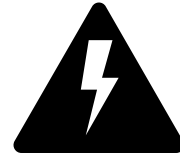
50-110% Capacity Boost  
1-3 year deployment

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# ATTs Benefits



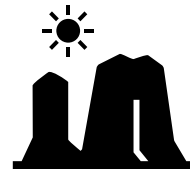
**CONSUMER SAVINGS**



**MORE ENERGY GENERATION**



**IMPROVED GRID EFFICIENCY**



**REDUCED LAND USE**



**INCREASED POWER CAPACITY**



**DECREASED WILDFIRE RISK**

# The Role of States on ATTs



AZ State Rep.  
Gail Griffin (R)



MT State Rep.  
Steve Galloway (R)



VA Gov.  
Glenn Youngkin (R)

## ATTs Policy Approaches

Studies

Utility Planning

Rate Recovery +  
Incentives

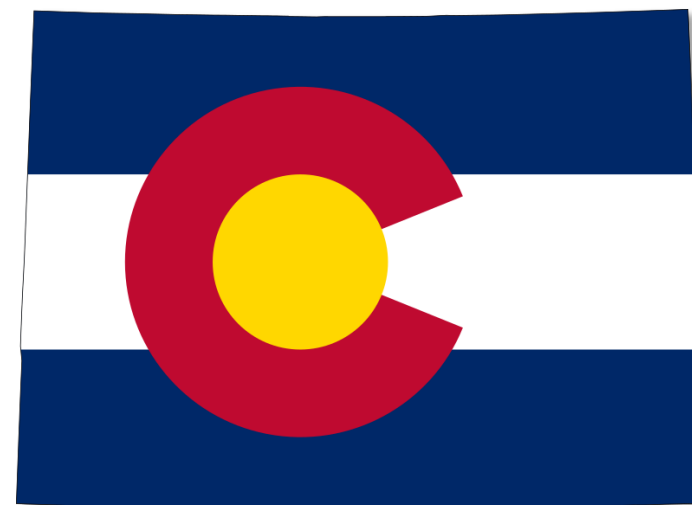
Streamlining Permits

# State ATTs policy: Studies

Laws that task state agencies or regulatory agencies with investigating the use of advanced transmission technology.



Maine HP 1413



Colorado SB23-016



# State ATTs policy: Utility planning requirements

Laws that require utilities to evaluate ATTs in their planning and give utilities a clearer path to recovering costs.



Minnesota SF4942



Virginia HB862

# State ATTs policy: Rate recovery and incentives

Allows utilities to recover costs of ATTs through their rate base or provide for additional incentives if ATTs are shown to be cost-effective.



Minnesota SF4942



Montana HB729

# State ATTs policy: Reforming permit process

Laws that reform the permitting process and expedite applications for faster ATT deployment.



Colorado SB23-016



Arizona HB2003

State policy can play a role in deploying ATTs to meet increasing energy demand and the challenges of a constrained grid in Utah.



## Questions?

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