



# Building for the Future Through Electric Regional Transmission Planning, Cost Allocation, and Generator Interconnection

FERC Advanced Notice of  
Proposed Rulemaking (ANOPR)

July 27, 2021

# FERC Begins Reform Process to Build the Transmission System of the Future

July 15, 2021



Docket No.: RM21-17-000

Item: [E-1](#) | [Staff Presentation](#) | [Joint Statement from Chairman Glick & Commissioner Clements](#)



- Regional transmission planning
- Cost allocation & benefits identification
- Generator interconnection



# First major FERC action on transmission since 2011

- President Biden's climate change/clean power agenda
- Changing resource mix
- Need for reform (interconnection queue congestion)
- “Just and reasonable rates” that are “roughly commensurate” with benefits
- Role of states in planning, spending and cost allocation
- Inefficient to build a piecemeal grid



# To support wind and solar generation in E+ scenario with Base siting availability, total transmission capacity more than **triples**.



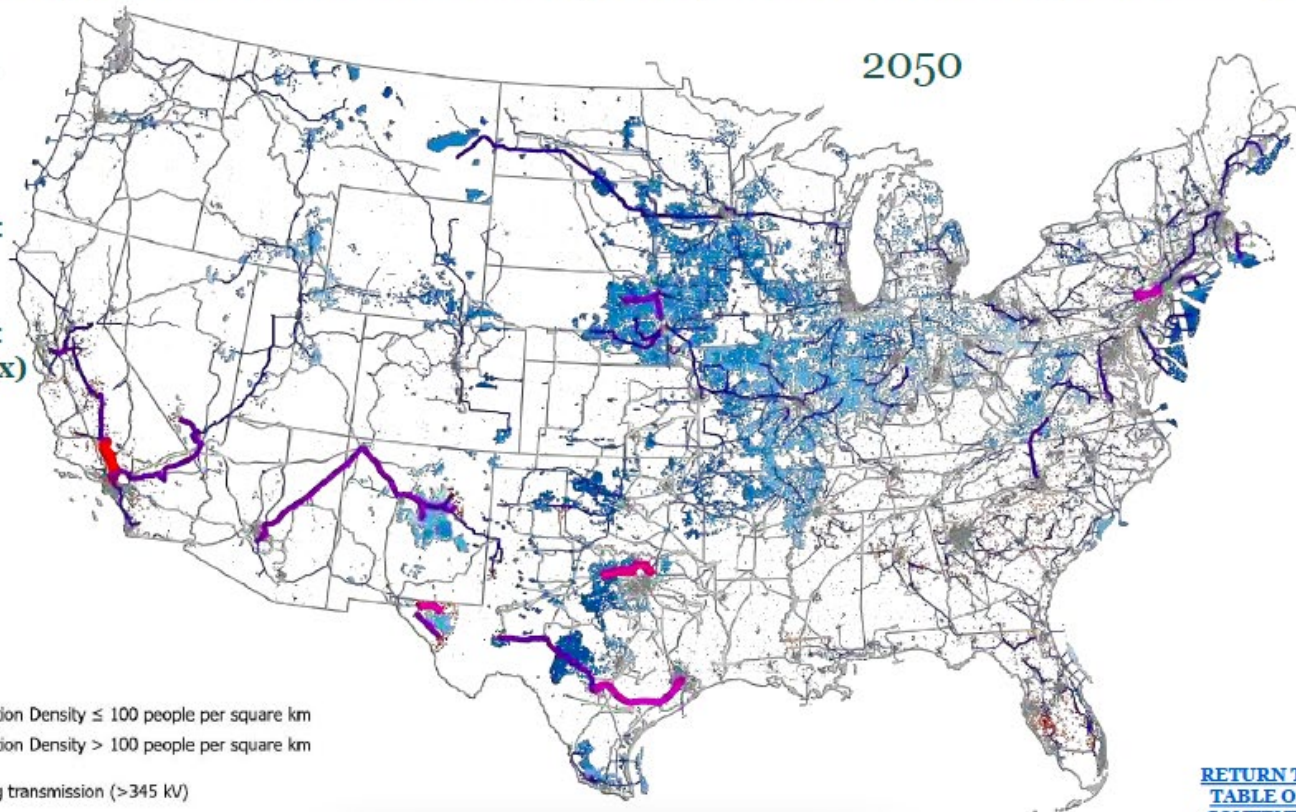
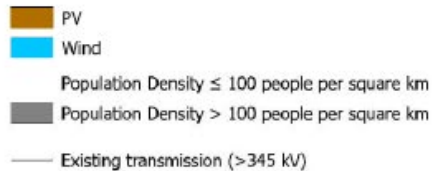
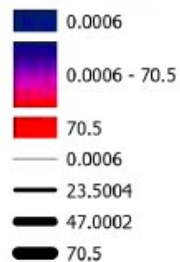
## Transmission & generators.

Note: Capacity factors at generator sites are reflected in color intensity, with highest CF = darkest color.

2020 transmission capacity:  
~320,000 GW-km

2050 transmission capacity:  
~1,012,000 GW-km (3.2x)

## Transmission Capacity (GW)



Note: Transmission expansion is visualized along existing rights of way (>160 kV); paths are indicative not definitive.

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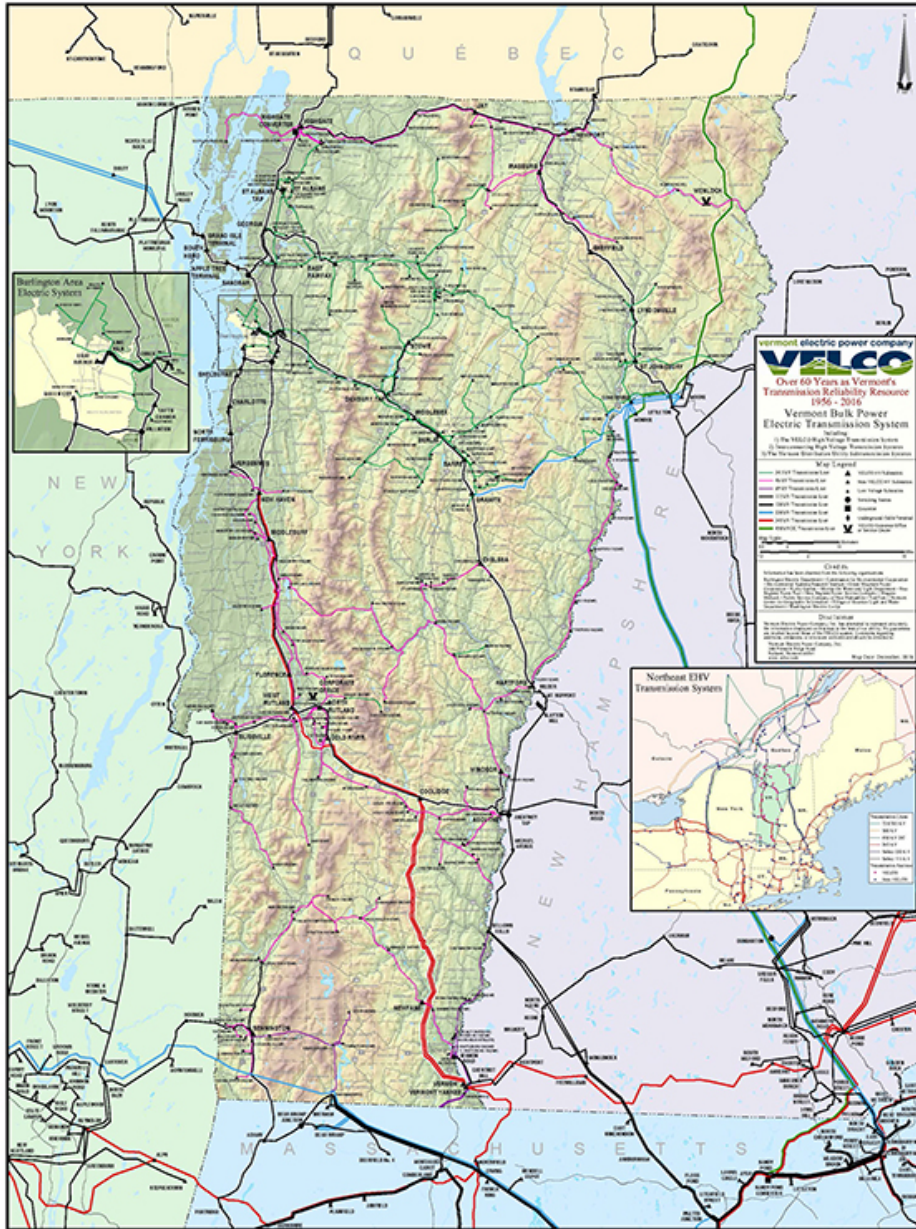
- US needs to triple its transmission capacity by 2050 (Princeton Net Zero America study)
- Interregional transmission needs to double by 2050 (DOE Solar Future's Study 9/21)



- “We are going to need a significant build out of the transmission grid to . . . access remotely located renewable resources . . .”
- “We know where we need to go”
- It’s “urgent”



- Vermont Planning Process
- Cost Allocation
- Cost Containment
- Incentives
- Order 1000 Reform
- Interconnection Requests
- Ind. Transmission Monitor
- Non-Transmission Alternatives
- Resource Mix





ANOPR:  
Information  
gathering  
October 12  
November 9

NOPR:  
Proposed rule  
Comment period  
(60 days)  
Public Hearings

Final Rule  
(expected late  
2022)

Implementation  
Timeline



Federal Energy Regulatory Commission

# Shaping the Grid of the Future

## HEADLINES

FERC & NARUC Announce Meeting  
Agenda for 11/10/21 Joint Task Force on  
Transmission



**NARUC**

National Association of Regulatory  
Utility Commissioners







More to come . . .