

Nov 15<sup>th</sup>, 2023

# Transmission Development Enhancing the Power Grid

John Kopinski, Director Development

**NEXtera**<sup>™</sup>  
**ENERGY**   
TRANSMISSION

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## Agenda



- Introduction
- NextEra Energy Transmission Overview
- Greenfield Transmission Development

**August 2003 northeast blackout is the genesis of my career building the grid; leads me to my current role developing transmission across North America**

John Kopinski – Career Pathway

Consulting Eng

Planning & Development

Director, Transmission Development



2004



2013



2022



2004: BS Electrical Eng



2022: MBA



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# NextEra Energy is a leading clean energy company





Composed of two primary businesses



**70 GW**  
In Operation<sup>(1)</sup>

**\$121 B**  
Market Capitalization<sup>(2)</sup>

**\$172 B**  
Total Assets<sup>(3)</sup>

-  **Clean Energy Generation Portfolio**
-  **Supply Chain, Engineering and Construction**
-  **Best-in-class Operations and Innovation Leader**
-  **Power Delivery and Transmission**

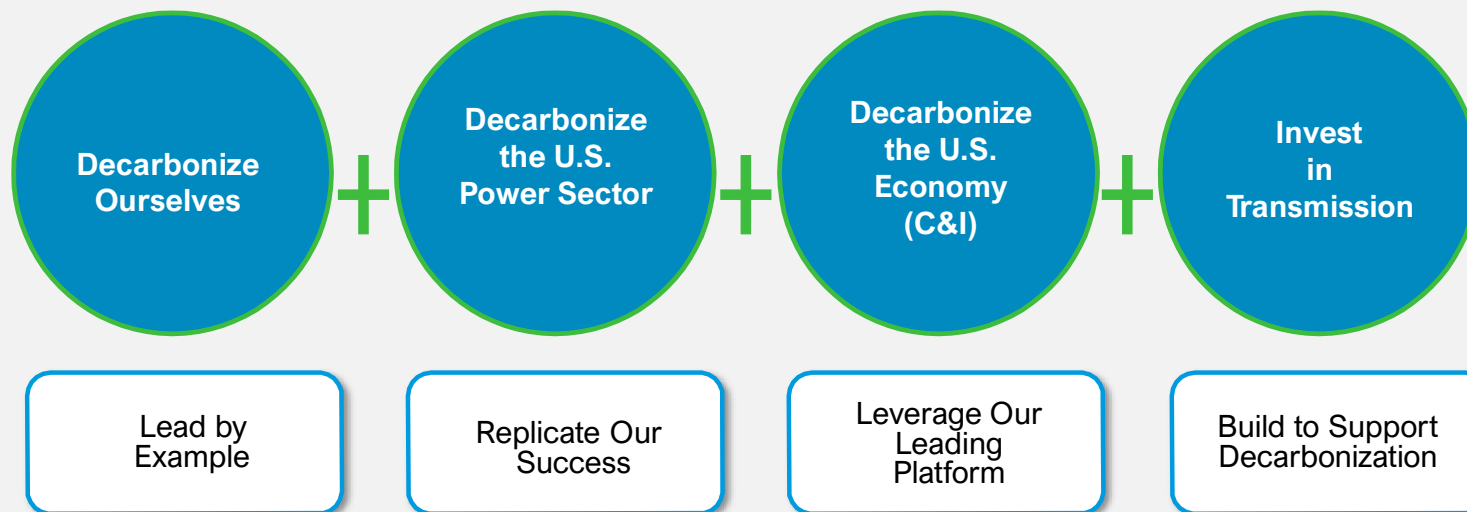


The largest electric utility in the United States by retail MWh sales and number of customers



The world leader in electricity generated from the wind and sun and a world leader in battery storage

## NextEra Energy decarbonization strategy



We plan to leverage our leadership position to be the world's largest, most profitable competitive clean energy company

# NextEra Energy Resources is the leading North American clean energy company



World leader in electricity generated from the wind and sun



~34 GW<sup>(2)</sup> of clean energy in operation  
23 GW wind  
5 GW solar  
2 GW nuclear  
1 GW battery storage

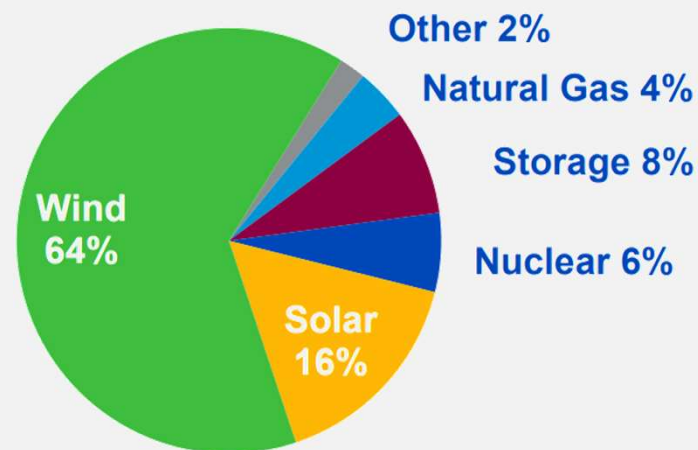


Over 21 GW backlog of wind, solar and storage contracts



~\$79 B in total assets

Generation and Storage Capacity



Capacity shown includes assets operated by NextEra Energy Resources owned by NextEra Energy Partners, all other assets are included at ownership share  
Note: All data is as of 9/30/2023 except for backlog which is as of 10/24/2023

# As the leading competitive transmission company in North America, we are prepared to lead U.S. decarbonization



**Development / Construction**

- ▲ Substations
- Transmission Lines

**Operating**

- ▲ Substations
- Transmission Lines

**ISO Region**

- ISO-NE
- CAISO
- NYISO
- IESO
- PJM
- WECC
- MISO
- SERC
- SPP
- ERCOT

Note: Numbers are as of March 2023



**\$5B** in total investments



**250+** employees



**~2,400** miles of transmission lines in development and operations



**11** states, Canada and all RTOs with operating or development projects

We own, develop, finance, construct, operate and maintain transmission assets across the continent. Our subsidiaries were among the first non-incumbents to be awarded projects by system operators and utility commissions in California, Kansas, Missouri, New York, Oklahoma, Texas and Ontario, Canada.

NEET's portfolio includes operating assets in California, Illinois, Indiana, Kansas, Kentucky, Nevada, New Hampshire, New York, Oklahoma, Texas and Ontario, Canada, as well as numerous projects under development in the United States and Canada.



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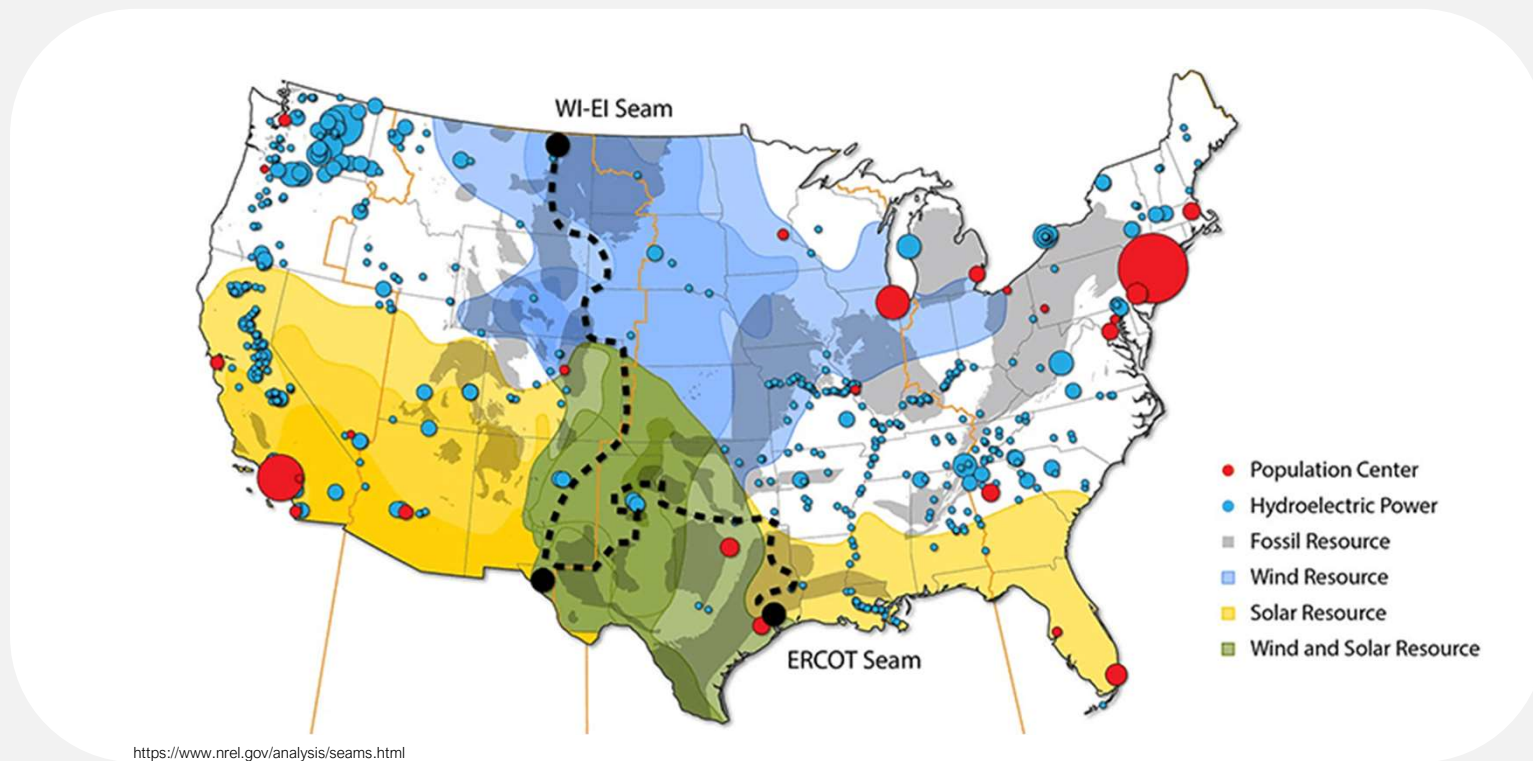
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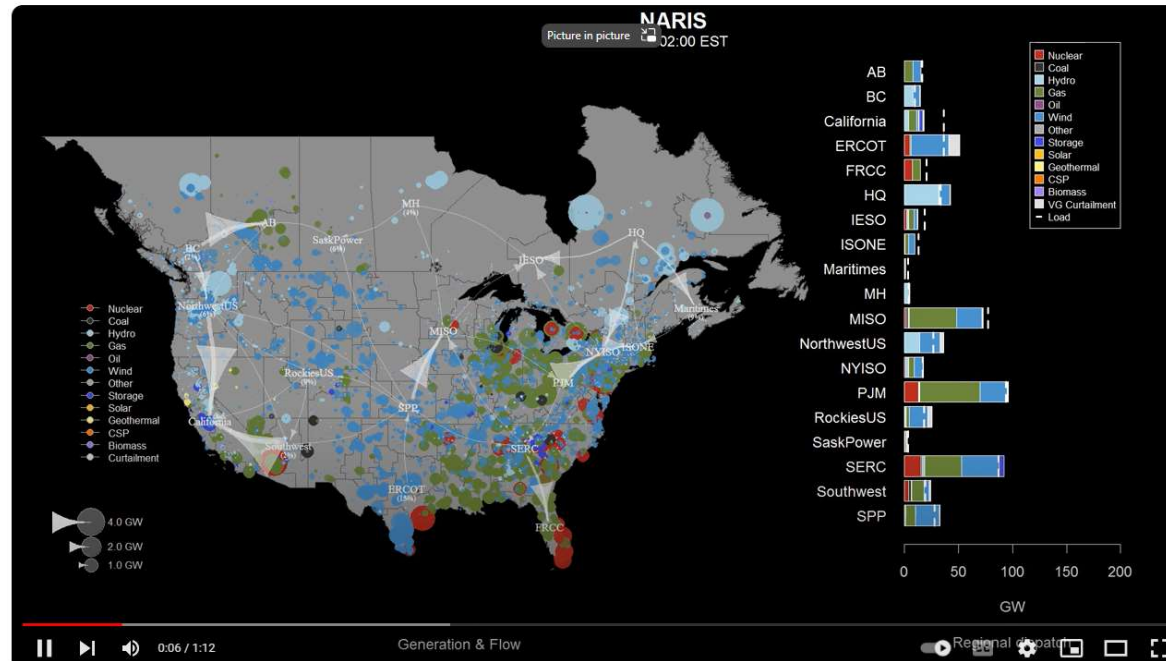


Renewable resources are not evenly dispersed across the U.S. and require transmission to move these new/future generation resources to load



# The future grid variability can be managed with bulk intertie flows between regions, but new connections are needed to make this happen

The North American Renewable Integration Study: [https://youtu.be/g\\_rFj-9M96](https://youtu.be/g_rFj-9M96)



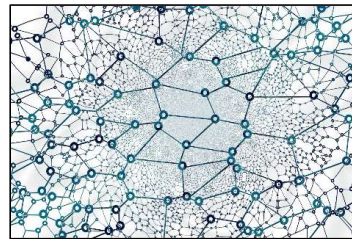
# What makes greenfield development complicated is the there are generally longer development cycles to bring resources online

Greenfield development – requires multi-faceted development

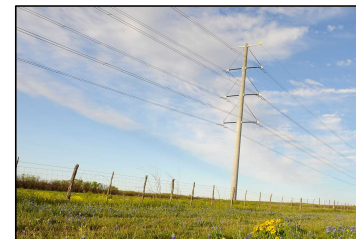
Resources unlocked



Interconnection with existing grid



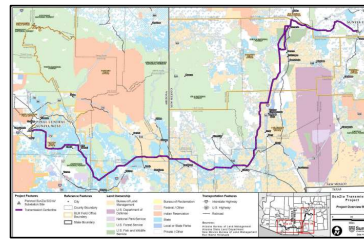
Engineering/Permits



Policy/regulatory



Routing/Siting/Land



Financing/Commercial

Company Snapshot			
2015	2016	2017	2018
\$ 967,339	\$ 11,771,094	\$ 43,749,297	\$ 137,304,034
\$ 241,635	\$ 2,342,771	\$ 10,337,324	\$ 34,335,053
\$ 725,504	\$ 8,828,313	\$ 32,811,973	\$ 102,978,028
\$ 836,860	\$ 1,474,551	\$ 4,806,709	\$ 13,311,695
\$ 1,007,250	\$ 1,185,000	\$ 1,185,000	\$ 1,185,000
\$ 79,586	\$ 142,324	\$ 256,672	\$ 460,345
\$ 667,748	\$ 2,711,673	\$ 5,223,373	\$ 16,335,373
\$ 113,379	\$ 244,357	\$ 395,007	\$ 691,433
\$ 2,710,822	\$ 5,728,734	\$ 15,862,760	\$ 31,988,421
\$ (1,983,293)	\$ 3,354,583	\$ 17,537,145	\$ 73,087,250
\$ -	\$ -	\$ -	\$ -
\$ 2,062,777	\$ 5,417,960	\$ 23,014,505	\$ 96,401,755

DOE is working to unlock certain hurdles faced by these projects with National Interest Electric Transmission Corridors and other enabling policies

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## Discussion