

# Science, Technology and Telecommunications Committee

## Electric Grid Innovations

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September 13, 2012



# State-Level Authorities

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- Eight state-level authorities:
  - Wyoming Infrastructure Authority (2004)
  - Idaho Energy Resources Authority (2005)
  - Kansas Electric Transmission Authority (2005)
  - North Dakota Transmission Authority (2005)
  - South Dakota Energy Infrastructure Authority (2005)
  - Colorado Clean Energy Development Authority (2007)
  - *New Mexico Renewable Energy Transmission Authority (2007)*
  - Utah Generated Renewable Energy Electricity Network (2010)
- RETA was Statutorily Created in 2007 by the NM Legislature
  - Governed by a seven member board
  - Can plan, finance, acquire, and own transmission and storage facilities
  - 30% of the power on a RETA project has to be from renewable sources
  - Has the power of eminent domain



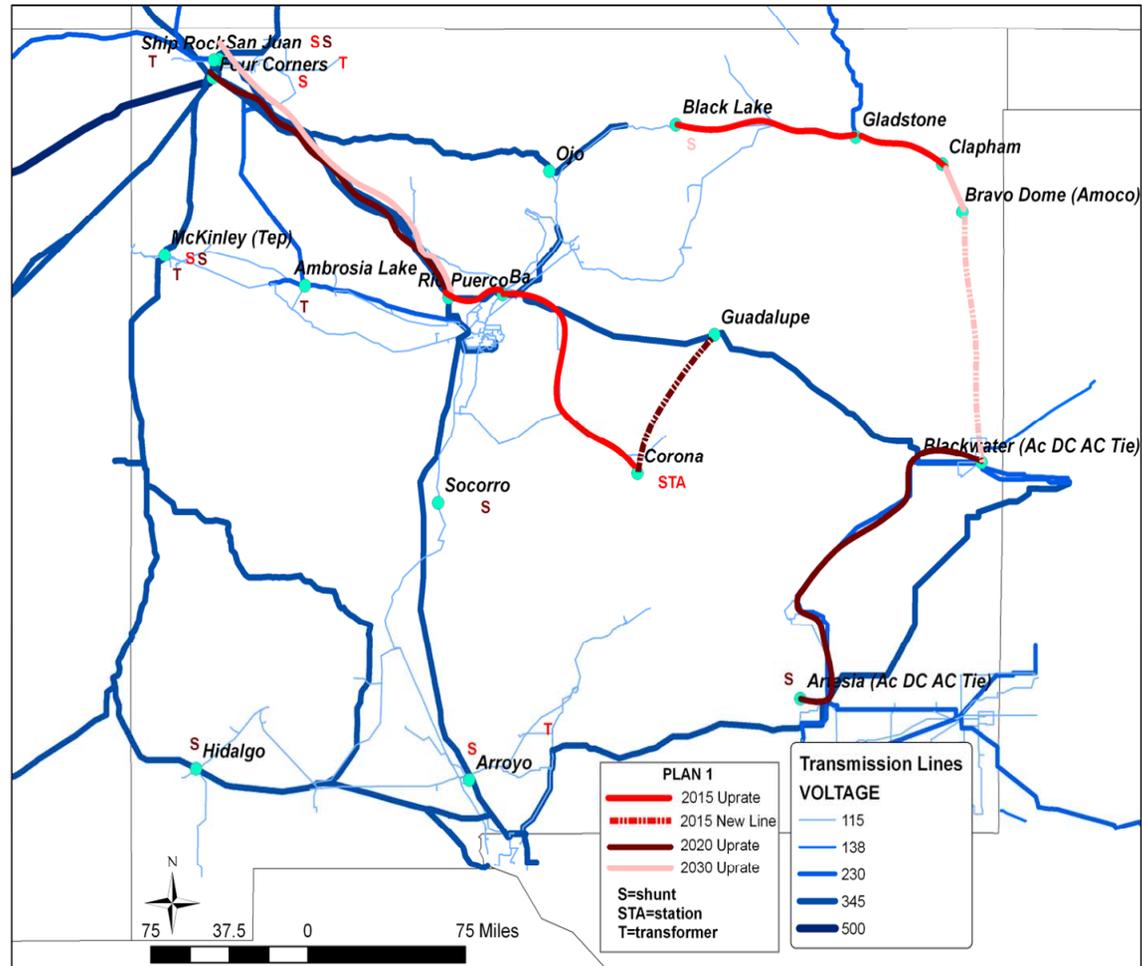
# RETA's Goal for the State

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- In 2010 Commissioned Los Alamos National Laboratory to complete an independent study to evaluate statewide transmission concepts, economic benefits, and cost allocation methodology
- The Study Analyzed
  - Two potential systems, looped vs. radial line upgrades, necessary to export 5,200 MW of generation
  - Upgrades on a 5, 10, and 20 year planning cycle
  - Economic benefits and cost recovery options
    - Total direct and indirect jobs that will be created
    - Potential tax implication of each plan
    - Energy tax required to support each potential system
  - RETA MOU with Lucky Corridor, LLC and Joint Development with GSIP directly advances the build-out of the system identified by this study

# RETA's Goal for the State

Suggested Grid Improvements:



# Project Overview

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- Central NM Collector System Project Details:
  - Approximately 200 mile long line
  - Double circuit 345 kV line with an initial carrying capacity of 1,500 MW
  - \$350 million in transmission investment
  - \$3 billion in renewable energy development
  - 1,500 wind/solar construction jobs
  - 100 wind/solar permanent operations & maintenance jobs
  - 200 transmission construction jobs
  - 20 permanent transmission jobs
  - 2.5 billion gallons of water saved per year
  - 3.5 million tons CO2 emission reduction per year
  - 1,500 MW of renewable development will produce enough energy to power 375,000 homes

# Project Timeline

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## ➤ *March 2011*

- RETA entered into an MOU with GS Global Infrastructure Partners II (GSIP) to jointly develop the Central New Mexico Collector System project

## ➤ *April 2011*

- GSIP created Power Network New Mexico, LLC.
  - Specific Focus on developing the NM Collector System Project
- Letter of Request for Expressions of Interest (RFEI) was sent out to developers for transmission capacity

## ➤ *July 2011*

- Bid Package sent to developers that responded to the RFEI

## ➤ *October 2011*

- Business arrangement changed to a Lease Agreement where RETA will now own the project and lease it back to Power Network New Mexico

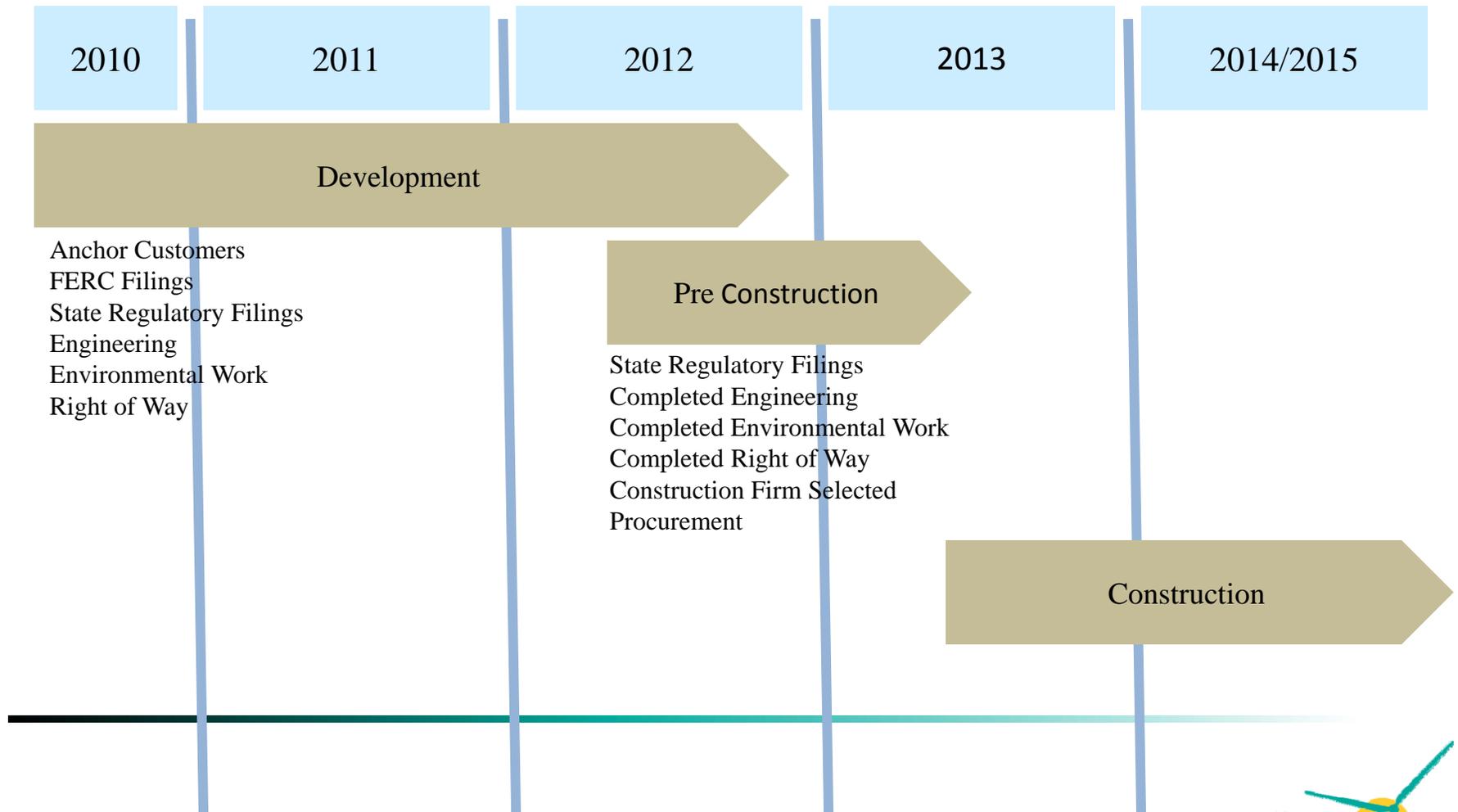


# Project Timeline Contd.

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- *December 2011*
  - Doyle Land Services retained for right-of-way work
- *April 2012*
  - Power Engineers retained for Engineering/Environmental work
- *May 2012*
  - Signed Precedent Agreements and Letters of Intent with prospective customers
  - Made Federal Energy Regulatory Commission (FERC) filings
- *Next Steps*
  - Obtain favorable approval from the FERC
  - Begin engineering and environmental work
  - Begin right-of-way acquisition

# Power Network NM – Schedule



# Project Location



➤ The map depicts a general area of routing and is conceptual only

➤ Affected Counties for renewable development

- Guadalupe & Torrance

➤ Affected Counties for transmission development

- Guadalupe, Torrance, Santa Fe & Sandoval

# Contact Us

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## New Mexico Renewable Energy Transmission Authority

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