



DISCLAIMERS and ACKNOWLEDGEMENTS

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<http://communities.nrri.org/web/eispc>



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Phase 2: Transmission Build-Out

In December 2012, the states, working with the Eastern Interconnection Planning Collaborative (EIPC) and stakeholders, completed work on several possible 20 year “Futures” (scenarios) that culminated in transmission analysis for three of those Futures.

http://www.eipconline.com/Phase_II_Resources.html



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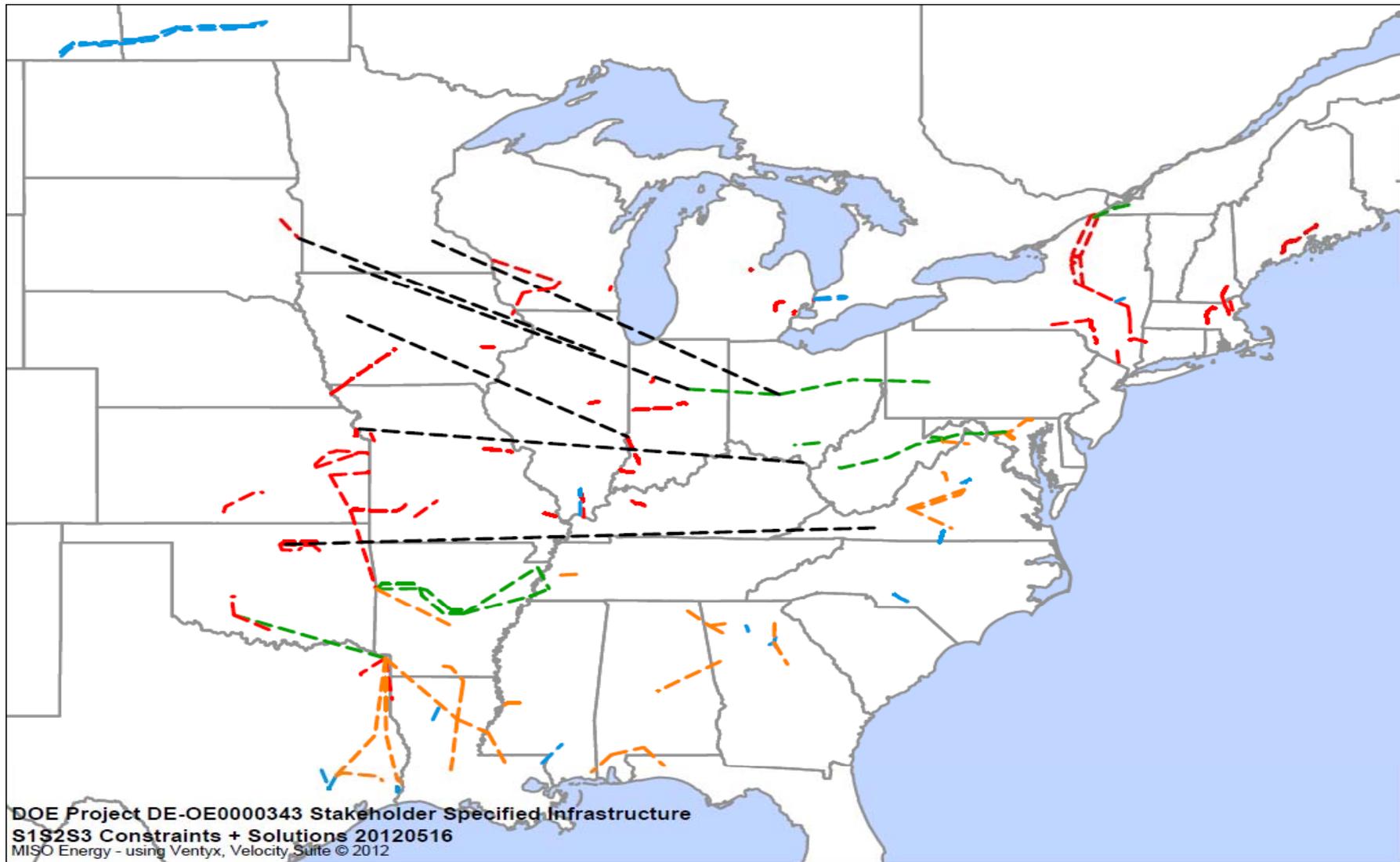
- For the 3 selected Futures (“bookends”) and 6 sensitivities on each of those 3 Futures, production cost analysis was performed. The analysis included conducting security constrained economic dispatch for all 8,760 hours of the year, as well as capital cost estimates for the generation and transmission included in each of the scenarios. Under the leadership of Oak Ridge National Laboratory, we are now starting a process of “mining” additional information from the Futures that were not selected.

FUTURE 1: Combined Policies (Aggressive Carbon Reduction)

FUTURE 2: Regional Portfolio Standards (limited ability to import from others)

FUTURE 3: Business as Usual

Scenario 1: Combined Policies – Aggressive Carbon Dioxide Reduction





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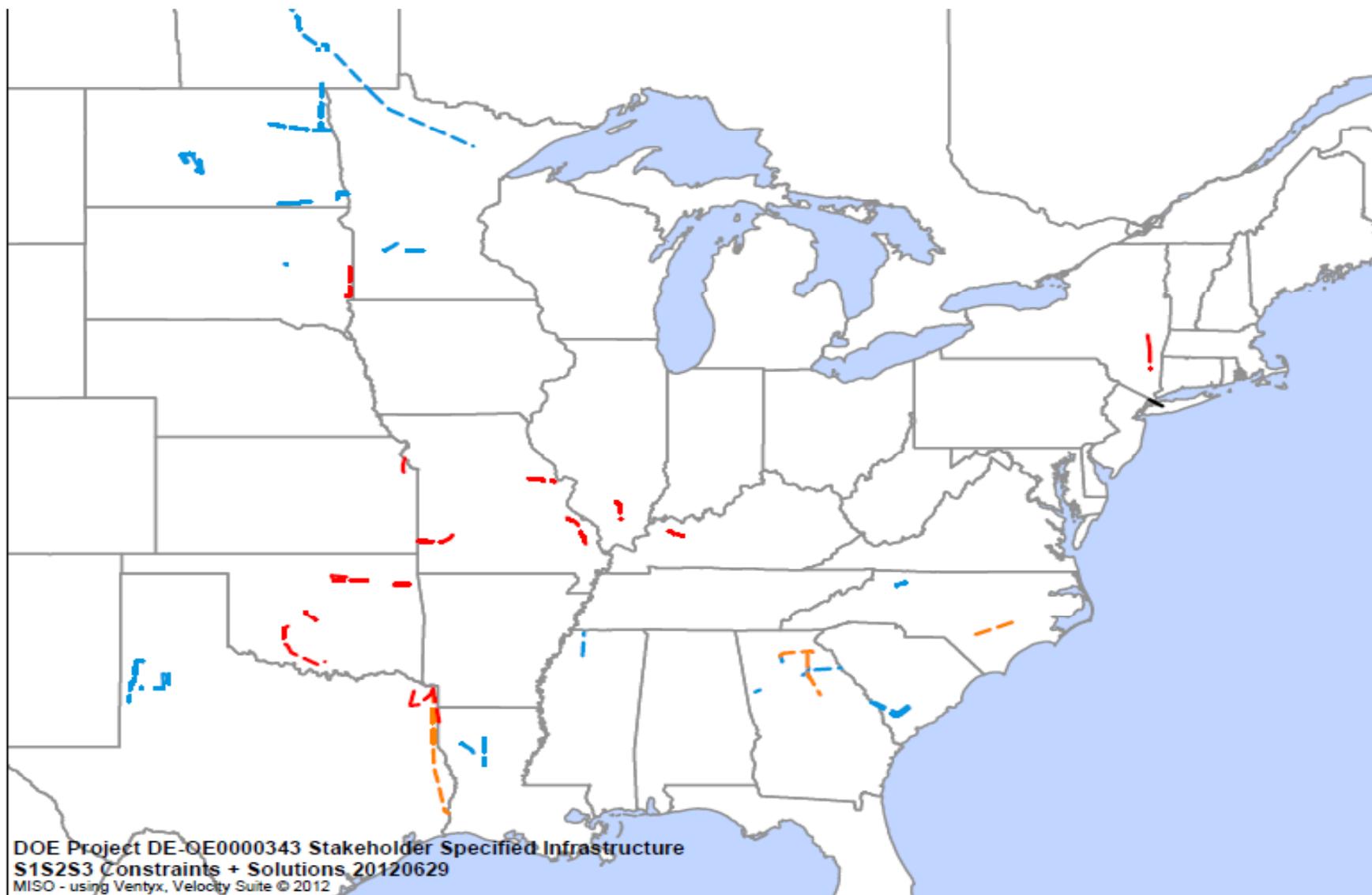
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Scenario 1 –Combined Policy (low CO2)

Transmission Build-out:

Over 290 Generation Interconnection projects,
Over 325 Constraint Relief projects, and
6 Long-Distant HVDC lines

Scenario 2: Regional Portfolio Standards





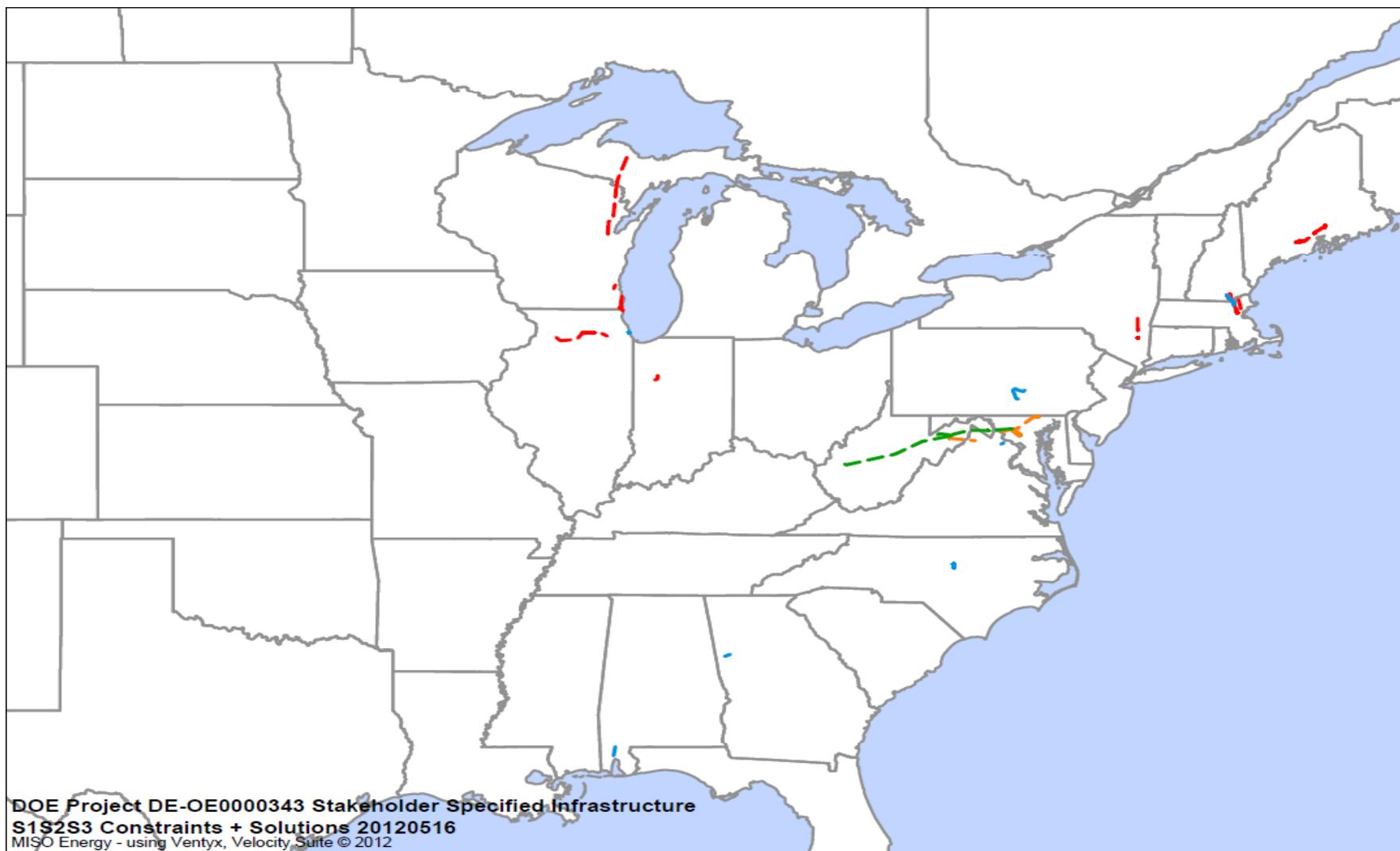
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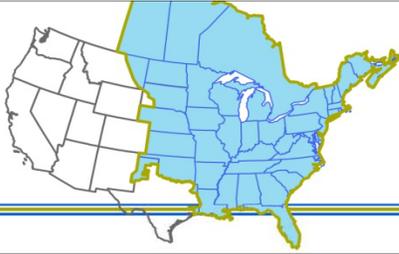
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■ Scenario 2: Renewable Portfolio Standards with Regional Implementation

Transmission Build-out: Over 280
Generation Interconnection projects
Over 200 Constraint Relief projects
No new HVDC lines

Scenario 3: Business as Usual





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- **Scenario 3: Business As Usual (BAU)**
 - Transmission Build-out: Over 50 Generation Interconnection projects
 - Over 165 Constraint Relief projects
 - No new HVDC lines



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Energy Zones

■ *Final Stages of Beta testing of Mapping Tool*

The training sessions are interactive. You can set up an account to access the mapping tool by going to <https://eispctools.anl.gov>, click the Register link at the lower left corner of the login page, and submit a registration request. When your registration is approved you will receive an e-mail response and be able to log in. Contact Ms. Donna Brunner dbrunner@anl.gov



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EISPC EZ Mapping Tool

A map-based tool for identifying areas within the eastern United States that may be suitable for clean power generation.

Launch Tool

About the Tool

The EISPC EZ Mapping Tool is a free online mapping tool that enables users to identify potential clean energy resource areas within the Eastern Transmission Interconnection.

This web site provides information [about the study](#), background on the [energy resources](#), and details on the [data](#) layers used in the tool. There are also links to printable [maps](#), [documents](#), and related [links](#).

Features

- Eight energy resources: [Biomass](#), [Coal with carbon sequestration](#), [Geothermal](#), [Nuclear](#), [Solar](#), [Storage](#), [Water](#), and [Wind](#)
- Flexible analysis of siting factors such as slope and land protections
- Analysis of potential collocation of energy technologies
- Informed analysis to reduce new transmission construction

Getting Started

The EZ Mapping Tool is an easy-to-use web-based mapping system. Click the launch button above to start. If you need help, use the Help menu at the top of the page.

We are interested in your feedback. Please complete our short [survey](#). Your input will be used to evaluate the quality and value of this web site.

News

August 31, 2012
[Draft Mapping Tool Launched](#)
Draft model, energy zone, & report tools. Solar PV model. Pumped Storage report.

July 06, 2012
[NatureServe Data - Now Available](#)
Added NatureServe Data to the EISPC EZ Mapping Tool.

Partners and Sponsors

The study is led by the Eastern Interconnection States' Planning Council (EISPC). The research support and technical assistance to EISPC is provided by Argonne National Laboratory, National Renewable Energy Laboratory, and Oak Ridge National Laboratory. Funding is provided by the U.S. Department of Energy. [More >](#)



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STUDIES AND WHITEPAPERS

- **Market Structures – May 2012**
- **Resource Adequacy – January 2013**
- **Demand Response, Energy Efficiency, Energy storage, Customer-Owned Generation –Renewable Energy, Customer-Owned Generation – Fossil Fuel, and Smart Grid - April 2013**
- **Clean Coal – August 2013 (probably May)**
- **Nuclear – July 2013**
- **Transmission Primer – November 2013**
- **Co-Optimization of All Resources – August 2013**
- **Collaborative - Probabilistic Risk Assessment (June 2014)**
- **Collaborative -L-T Natural Gas & Electric Infrastructure Requirements (July 2014)**
- **“Data Mining” – Intermittent resources, relative benefits...**



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Meeting Dates

EISPC Meetings:

- 1. May 30-31 Philadelphia***
- 2. Kick-Off webinar (June 2013) and meeting (August 29-30) on L-T Nat. Gas & Electric Infrastructure Requirements***
- 3. Webinars on the Studies and Whitepapers***
- 4. Summer NARUC meeting with Energy Zones training.***