EISPC Energy Zones Study

Laboratory Teams Progress Overview

EISPC Meeting, January 17-18, 2013 Presented by: Stan Hadley, ORNL Jim Kuiper, Argonne Tom Schneider, NREL









Overview

- EISPC Energy Zones Study
- Natural Gas Resource Focus Team
- Environmental Focus Group
- Stakeholder Outreach
- Corridor Screening
- Questions and Comments
- Demonstration New Models and Reports

Clean Energy Technologies

Biomass

Concentrating solar power
 Utility-scale photovoltaic Rooftop photovoltaic solar Storage
 Hydroelectric pumped storage Compressed air energy storage
Water
 Added output from existing hydropower dams New output from existing non-powered dams In-stream hydrokinetic energy Tidal hydrokinetic energy
Wave energy
Wind ✓ Onshore wind turbines
✓ Offshore wind turbines
Planned suitability models
 Planned reports based on inventory, or basic resource Completed suitability models and reports - available on web site

Solar

Natural Gas Resource Focus Team

Resource Focus Team (RFT) Progress:

- Defined resource technologies in/out of scope
- Identified data and information sources
- Developing resource screening parameters and criteria
- Developing methodology and screening factors for Natural Gas Suitability Model
- Natural Gas RFT Timeline:
 - ✓ Collect resource data (Oct-Dec 2012)
 - Develop methodology and screening factors (Dec-Mar 2013)
 - Develop and implement Natural Gas Suitability Models in mapping tool (Apr-Jun 2013)

Environmental Focus Group

Environmental Focus Group Progress:

- Reviewed draft composite habitat and protected lands screening layers
- Reviewed additional environmental data layer recommendations from Wilderness Society
- Recommended data layers incorporated into composite habitat/protected lands screening layers for models or added to catalog
- Procured NatureServe imperiled species dataset
- Added protected lands report to system

Outreach activity progress/plans:

- EZ Mapping Tool demos: both webinars and inperson
 - State Commission staff December 2012 webinar
 - NARUC Committee Meetings February 2013 demo
- Training: webinars, in-person, and recorded website videos
- Press releases and announcements: EZ Mapping Tool release and training
- Technical papers to disseminate information

Beta Testing Group:

- Reviewing and testing of Draft EZ Mapping Tool during development period
- Members represent various stakeholder groups
- Tasks Progress:
 - Tested tool functionality
 - Reviewed data, report, and modeling content
 - Provided suggestions for making the tool more effective for energy zone analysis
 - Continued to provide feedback

Corridor Screening

Additional EZ Mapping Tool Capability:

- EISPC proposed development of corridor screening capability for new transmission lines and gas pipelines
- Argonne providing funding for this task
- Approach will provide high-level screening capability of potential corridors, <u>not a</u> <u>detailed siting analysis</u>
- Capability added to EZ Mapping Tool by end of June 2013

