

Renewable Energy Transmission Company (RetCo) Inc.

*Presentation to the Board of the
Wyoming Infrastructure Authority*

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The Wyoming Collector System

Key questions asked in January.....

Question 1. What is the role of the collector system?

Question 2. What is the right design?

Question 3. What is the right business structure?

Question 4. What should the work plan priorities be?

Question 5. How is Wyoming wind to be scheduled?

Task Force Participants



Answer to Question 1.

- What is the role of the collector system?

Minimum

1. Organize a higher voltage (500kV or 340kV) solution as against multiple individual (138kV or 220kV) generator ties.
2. Design in redundancy, where cost effective.
3. Avoid unnecessary duplication of transmission lines (contrary to NEPA).
4. Make best use of Wyoming rights of way / corridors.

Potential

5. Provide flexibility for generators to reach additional markets.
6. Improve diversity of wind resource areas.
7. WAPA better able to allocate stimulus funding to a collective initiative.

Bonus

8. Helps build confidence in Wyoming and credibility in customer states.

Question 2. What is the right design?

1. February 2010 ICF report commissioned by the Task Force “Wyoming Collector System Conceptual Design.”
2. For a theoretical 12GW recourse scenario examined:
 - radial single circuit (\$2.48Bn);
 - radial-double circuit (\$3.34Bn);
 - networked wind hubs (\$2.93Bn); and
 - Networked wind hubs and transmission export hubs (\$3.07Bn).
3. Significant additional work ahead:
 - examine common infrastructure with Wyoming utilities;
 - understand business model / who pays;
 - sequence for individual projects;
 - respond to generators and inter-state lines relationships.
 - dynamic flow studies.

Question 3. What is the right business structure?

ICF Report:

1. Currently under development.
2. Examining precedents from across the US.
3. Narrowing down the range of possible approaches.

RetCo's January Presentation:

1. No rate-base solution for collector system.
2. Will need to be capable of raising its own capital.
3. Federal and State support will likely be required.
e.g. Some form of public private partnership (PPP).
4. Shared utility infrastructure opportunities to be examined.

Question 4. How to organize our work plan priorities?

Multiple, work streams will need to be managed e.g.

1. Engineering / design - underway.
2. Permitting / right of way – to be started.
3. Business arrangements – report underway.
4. Stakeholder and political out reach – more to be done.
5. Regulatory structure – following business arrangements.
6. Documentation / Finance – too soon to start.
7. Scheduling of Wyoming wind – individual developers.

The Wyoming Collector System

Status of key questions three months later.....

Question 1. The required role? – *becoming much clearer.*

Question 2. Design? – *conceptual design report released.*

Question 3. Business structure? – *clarity emerging.*

Question 4. Work plan priorities? – *key activities underway.*

Question 5. Scheduling? – *more work needed.*



Appendix 4. UWIG April 2009 presentation

