

Western Governors' Association

Western Renewable Energy Zones
Zone Identification and Technical Analysis (ZITA) Working Group
September 3, 2008

**DRAFT
CALL SUMMARY**

Decisions & Next Steps
<ul style="list-style-type: none">• Proposed use of power control areas may be too large to use as units for the resource density maps; NREL and Black and Veatch are exploring use of 100 sq/mile/km.• The criteria table, once complete, is a key for each map, explaining what is being shown in each.

Action Items
<ol style="list-style-type: none">1. Revise GIS maps to reflect three and four class; 20% slope; 5 MW/sq. km; 100 sq/ml/km – Black & Veatch.2. Revise the Wind Criteria document to capture decisions made and assumptions used

Call Objective

- The purpose of this week's call is to develop consensus on Wind criteria that will identify the greatest resource density.

Discussion of Wind Criteria Table and Review of Maps

- Dave Hurlbut described the term "*resource density*" Resource density: Amount of high-yield resources per square kilometer. This measure compares different areas on the basis of "how much" and "how close" simultaneously.

Resource density is calculated over a power control area (the size of several counties), screening out known exclusions. (To be clear: exclusions are counted against the numerator, but not the denominator.) Can be expressed as MW per square kilometer of total area (preferred) or as a percentage of total area.

The function of this metric is to compare one power control area against another for the purposes of initial screening. A higher density (by orders of magnitude) means a larger number of potential sites for least-cost development at utility scale.

In the draft GIS maps presented for this call, the units used are the existing Power Control Areas. After screening for known exclusions, the maps can then be used to compare the available renewable resource in different regions. Those areas with the most renewable resource will be proposed as "Candidate Study Areas"

that will then be looked at with a more detailed screen by this subcommittee as well as by the E&L Subcommittee. The initial goal in identifying Candidate Study Areas is to narrow the focus of further inquiry

- At this early stage, the technology assumptions were not used to narrow candidate study areas – this factor will be addressed in the next phase.
- There was some discussion over whether power control areas are too big to be useful and whether high resource density areas might inadvertently be “averaged” out and overlooked. Several other methods to divide land were suggested, such as by state or by geographic region, but a 100 square kilometer grid was most acceptable to the group.
- The data sources and assumptions being used in each map must be clear, such that the other renewables can use Wind as an example. The maps need to be comparable between different resources, and the table needs to be updated to match the maps.

Deliverables Timeline Discussion

- Wind Criteria table and a new version of a map to the working group (*date decided?*).
- Review maps, comments and criteria table at meeting September 22nd-23rd in Denver.
- Identify Candidate Study Areas following the Denver meeting.

The meeting will commence at 12:00 with a working lunch and will end at 4:00, September 23rd Hotel logistics:

Renaissance Denver Hotel (www.renaissancedenver.com)

3801 Quebec Street

Denver, CO 80207

Tel: 303-399-7500

Fax: 303-321-1966

Reservations can be made by calling (303) 399-7500 or 1-888-238-6762. Please reference "WREZ Western Renewable" room block in order to receive the contracted rate of \$140.00/night. Rooms will be held in the block until September 8.

Call Participants

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Jason Berry

Jim Byrnes

Angela Dykema

Bart Jones

Steve Ellenbecker

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Sharon Firooz

Bob Gough

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Western Governors' Association

Utah State Energy Program

Western Grid Group

Third Plant Wind

Trans Canada

Governor Freudenthal's Office

Black & Veatch

First Wind

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WAPA
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CanWEA
Ormond Group LLC
Black and Veatch
Sextant Research
WA Depart. of Community, Trade and Economic Dev/
Sacramento Municipal Utility District

New Mexico RETA
E.ON Climate & Renewables
Western Governors' Association
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Abby Arnold

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