



**Briefing to the
Colorado Coordinated
Planning Group
regarding the
Colorado Clean Energy
Development Authority
and
The Western Renewable Energy Zone
Initiative**

Morey Wolfson
Utilities Program Manager
Governor's Energy Office
March 25, 2008

An Act

HOUSE BILL 07-1150

BY REPRESENTATIVE(S) Gardner C., Witwer, Rose, Hodge, Kerr J., Lundberg, Massey, Soper, Balmer, Borodkin, Buescher, Butcher, Carroll M., Carroll T., Curry, Frangas, Gallegos, Gardner B., Gibbs, Hicks, Kefalas, Kerr A., King, Labuda, Levy, Liston, Looper, Madden, Marostica, May M., McFadyen, McGihon, McNulty, Merrifield, Peniston, Primavera, Rice, Riesberg, Roberts, Romanoff, Solano, Sonnenberg, Stafford, Stephens, Summers, Todd, Vaad, White, and Jahn;
also SENATOR(S) Kester, Penry, Harvey, Bacon, Boyd, Brophy, Groff, Isgar, Keller, Kopp, Morse, Romer, Schwartz, Shaffer, Spence, Taylor, Tupa, Ward, Williams, Windels, and Tapia.

CONCERNING THE CREATION OF THE CLEAN ENERGY DEVELOPMENT AUTHORITY.

Be it enacted by the General Assembly of the State of Colorado:

SECTION 1. Title 40, Colorado Revised Statutes, is amended BY THE ADDITION OF A NEW ARTICLE to read:

ARTICLE 9.7
Colorado Clean Energy
Development Authority

CEDA Board Members

Chairman: Tom Plant, Director, Governor's Energy Office

Vice Chairman: Don Elliman, Director of Economic Development

Secretary: Sam Weaver, appointed by the President of the Senate

Cary Kennedy, State Treasurer

John Stulp, Commissioner of Agriculture

Lee White, appointed by the Governor

Jeffrey Nathanson, appointed by the Speaker of the House

Lola Spradley, appointed by the Minority Leader of the House

Joel Bladow, appointed by the Minority Leader of the Senate

CEDA

- does not yet have a full time Executive Director- is staffed by the GEO's Utilities Program Manager, Morey Wolfson.
- expects that, longer term, funding will be derived from fees generated from projects.
- is interacting with counterparts in other states with transmission infrastructure authorities.

CEDA

- has been briefed on the major transmission topical areas in the state and region.
- has joined the High Plains Express.
- supports legislation that will exempt state transmission authorities from federal taxation.
- has briefed the Colorado Water Resources and Power Development Authority.
- will develop a three year plan.
- coordinates with the Colorado Public Utilities Commission on transmission policy development.
- requests a briefing from the Colorado Long Range Planning Group.

CEDA's First Meeting

November 1, 2007

Agenda (PDF 36 KB)

Minutes (PDF 50 KB)

Presentations:

Transmission Overview (PDF 884 KB)

Presented by Doug Larson - Western Interstate Energy Board

Presentation to Colorado Clean Energy Authority (PDF 60 KB)

Presented by James K. Tarpey - Holland & Hart, LLP

**Enabling Renewables via Transmission WCI & HPX Examples
(PDF 999 KB)**

*Presented by Jerry Vaninetti - Colorado Trans-Elect
Development Company, LLC*

Eastern Plains Transmission Project (PDF 711 KB)

Presented by Joel Bladow - Tri-State G&T

**The SB91 Task Force on Renewable Resource Generation
Development Areas
(PDF 1170 KB)**

Presented by Morey Wolfson - Governor's Energy Office

www.colorado.gov/energy

CEDA's second meeting

December 18, 2007
Agenda (PDF 38 KB)

Presentations:

Eastern Plains Transmission Project (PDF 921 KB)
Presented by Joel Bladow - Tri-State G&T

Western Grid Developments (PDF 511 KB)
Presented by Doug Larson - Western Interstate Energy Board

A Summary of the SB91 Task Force Report (PDF 3,365 KB)
Presented by Morey Wolfson - The Governor's Energy Office

Enabling Renewables via Transmission (PDF 999 KB)
Presented by Jerry Vaninetti - Colorado Trans-Elect Development Company, LLC

CEDA's Third Meeting

February 11, 2008

Agenda (PDF 30 KB)

Presentations:

Transmission Project Update (PDF 451 KB)

*Presented by Jerry Vaninetti - Colorado
Trans-Elect Development Company, LLC*

**Colorado Coordinated Planning Group's Long
Range Transmission Planning Group
(PDF 877 KB)**

*Presented by Morey Wolfson - Governor's
Energy Office*

**CEDA's next meeting will be scheduled
in late April or early May**

**To be added to the CEDA distribution list for
meeting notices, agendas:**

morey.wolfson@state.co.us

CEDA meetings are on the GEO website:

www.colorado.gov/energy (utilities)

WGA West-wide Renewable Energy Zone (WREZ) Project

**Point of contact:
Doug Larson
Executive Director
Western Interstate Energy Board**

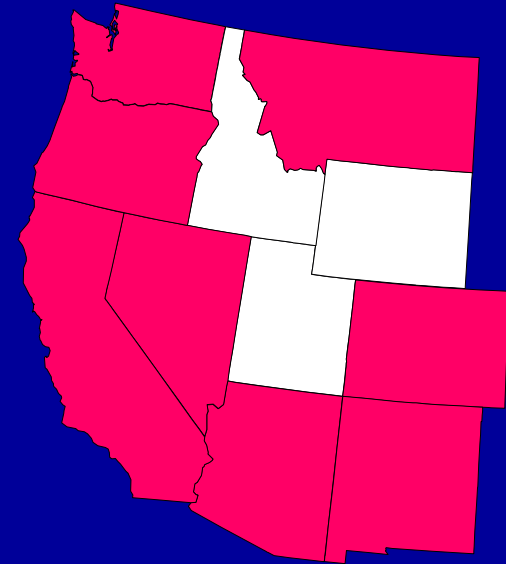
Source: WGA

Origin of Proposal

- 6/06 WGA Clean and Diversified Energy Initiative recommendations
- 9/07 WGA/NWCC/GEA renewables and transmission summit in Ft. Collins recommendation to identify WREZs that incorporate all renewable fuels (solar, geothermal, wind, biomass, hydro, etc.)
- Brainstorming group to explore how Ft. Collins recommendation could be implemented
- 10/07 WREZ briefing paper
- 11/07 presentations to and sign-off from WGA Staff Council, WIEB Board, CREPC
- 12/07 Governors' proposal to Secretary Bodman for a WREZ project
- 3/12/07 Meeting of states, DOE, FERC staff, WECC staff

State Actions Affecting Renewables

- 8 states with RPS + renewable policies in BC and AB
- 7 Governors, 1 Premier working on region carbon cap and trade system (which will increase pressure for more renewable development)
- **State-by-state REZ efforts**
 - Texas CREZ
 - CO SB 91
 - CA Renewable Energy Transmission Initiative
 - AZ Black & Vetch study
 - NV Governor's renewable and transmission task force
- ~~State-only work misses regional opportunities and could balkanize the renewable energy market~~



Overview of WREZ Phases

1. Identification of WREZs
 - Technical analysis
 - Stakeholder “ground truthing”
2. Conceptual transmission from WREZs
3. Coordinated resource acquisition for renewables (beyond current budget period)
4. Institutional options to facilitate interstate transmission for renewables (beyond current budget period)

Critical Elements in Phase 1 (identification of zones)

- Technical work
 - Technology characterization; resource assessment; supply curves; delineation of WREZ boundaries
- Transparency/communication: **Maximum stakeholder input to identifying WREZs**
 - Web based GIS
 - Easy electronic stakeholder input
 - Iterations between technical work (e.g., B&V type work, stakeholder input, and WREZ technical committee/work groups)
- Build on/supplement individual state REZ work

Critical Elements in Phase 2 (conceptual transmission from zones)

- LSE fuel choice is prime determinant
 - After identification of REZs, LSE (and states/provinces) need tools to:
 - Prioritize REZ options
 - Compare with other options
 - Identify synergies with other LSEs
 - Integrate with existing sub-regional and WECC transmission expansion planning processes

Tentative (speculative) Schedule

- Kick-off meeting in May
 - Governors explain project
 - Solicit participation
- Followed immediately by meeting of Technical Committee and formation of Work Groups
- Complete WREZ identification in November(?) and officially launch Phase 2 (conceptual transmission from WREZs)

Relationship with WECC/Sub-Regional Planning (SPG) Work

- WREZ identification too late for 2008 TEPPC study cycle, but timely for 2009 study cycle
- Much better wind and solar data being developed by NREL which will be used in WREZ project and should be used in TEPPC
 - 2 km grid, 100 meter hub height, 10 minute wind data
 - 10 km grid solar data
- Need TEPPC and Sub-Regional Planning Group participation in Implementation of Phase 2
 - Development of model to evaluate WREZs from LSE resource planner perspective
 - Incorporation of WREZ info into TEPPC data base
 - Participation in Work Groups and Technical Committee

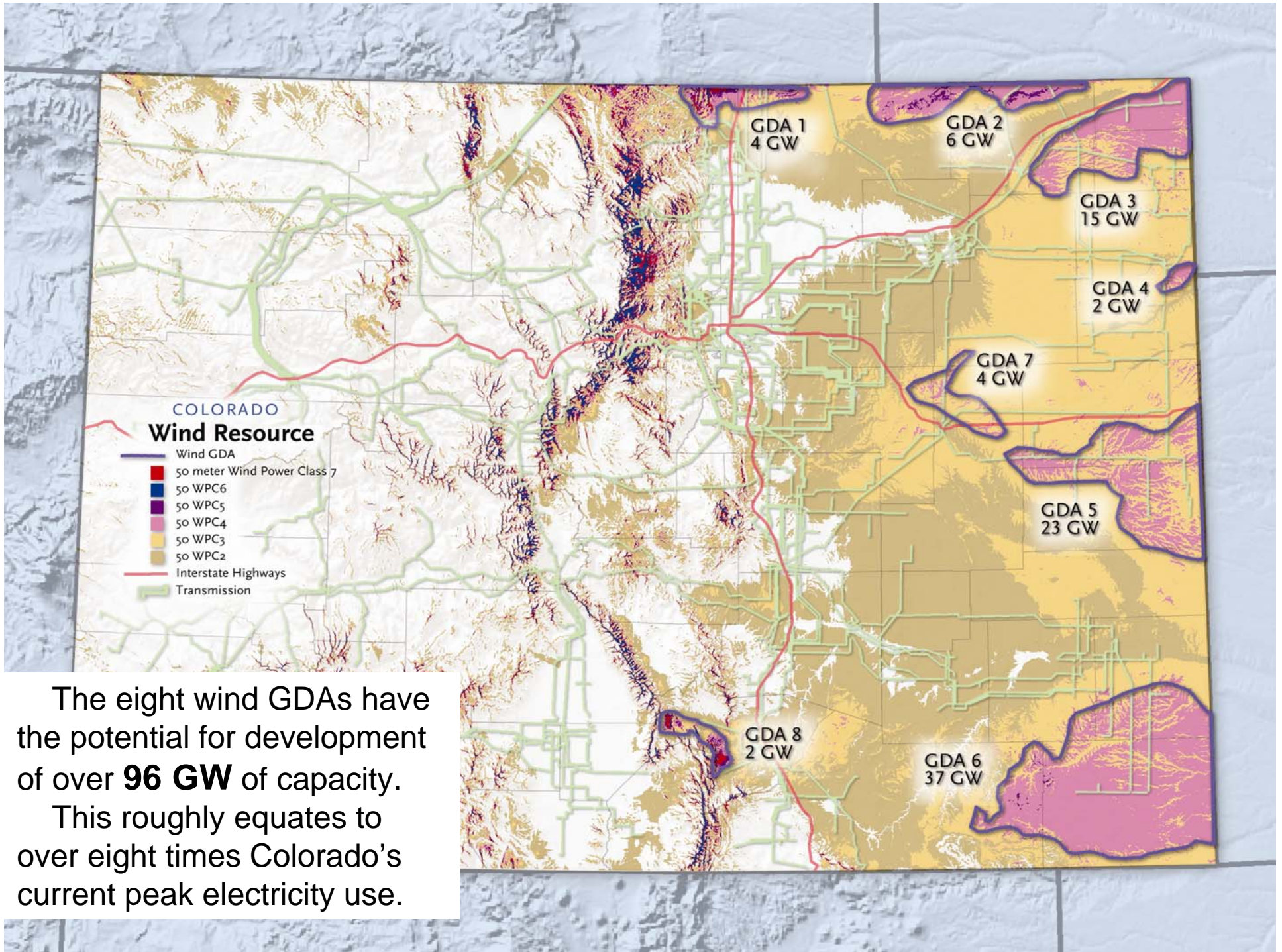
A WREZ effort also...

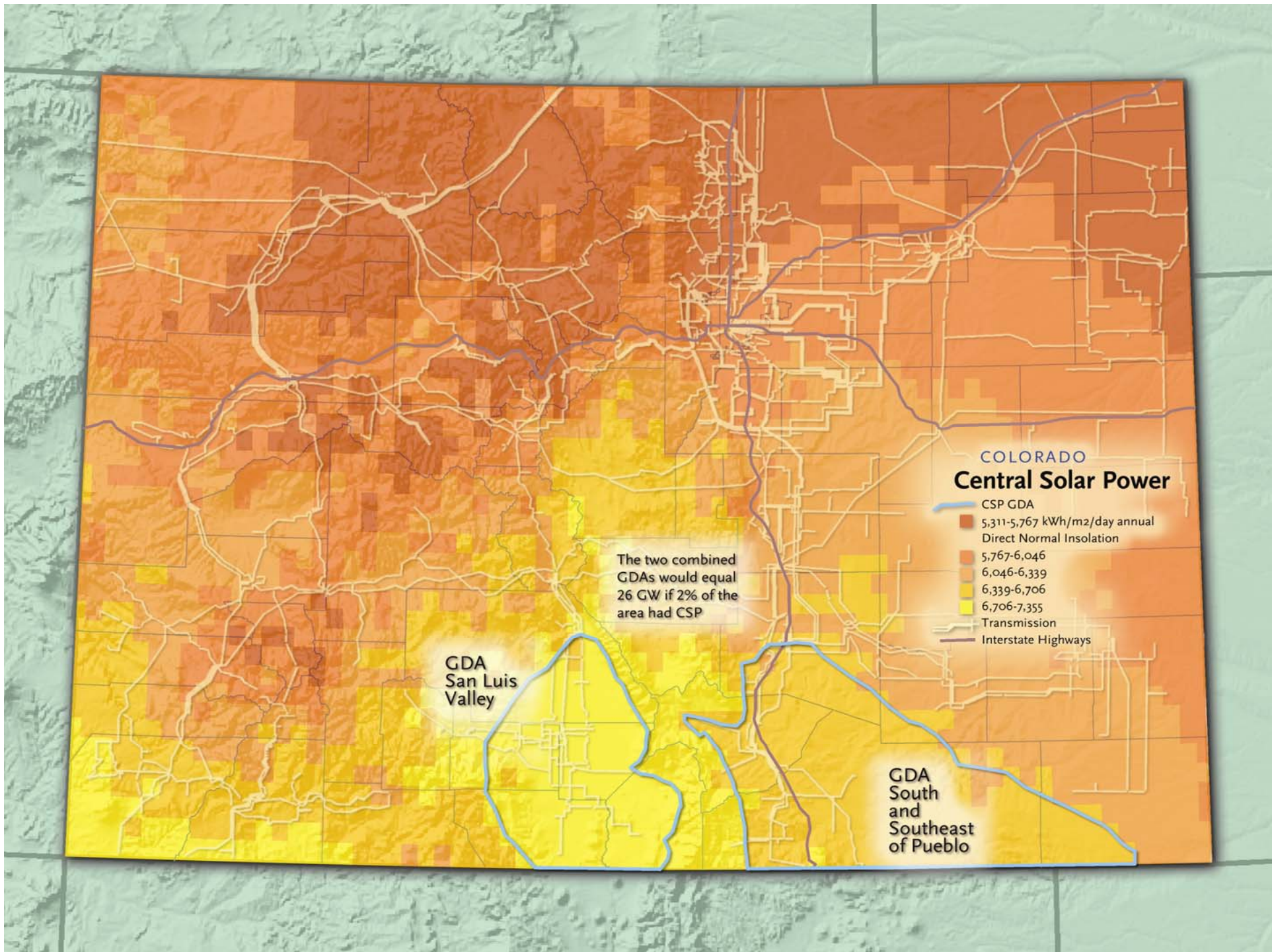
- Promotes a regional view of renewables development blunting potential balkanization of the renewables markets. This is particularly important for development of renewables that are distant from load centers.
- Paves way for interstate collaboration on:
 - Permitting of multi-state transmission;
 - Allocating and recovering cost of new transmission.
- Could provide an informational foundation for new approaches to interconnection and transmission service queuing problems.

Hard copies of this report are available at today's meeting



Pdf is available on GEO website: www.colorado.gov/energy







Thank You

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