

# PSCo Senate Bill 100

## Transmission Study Group

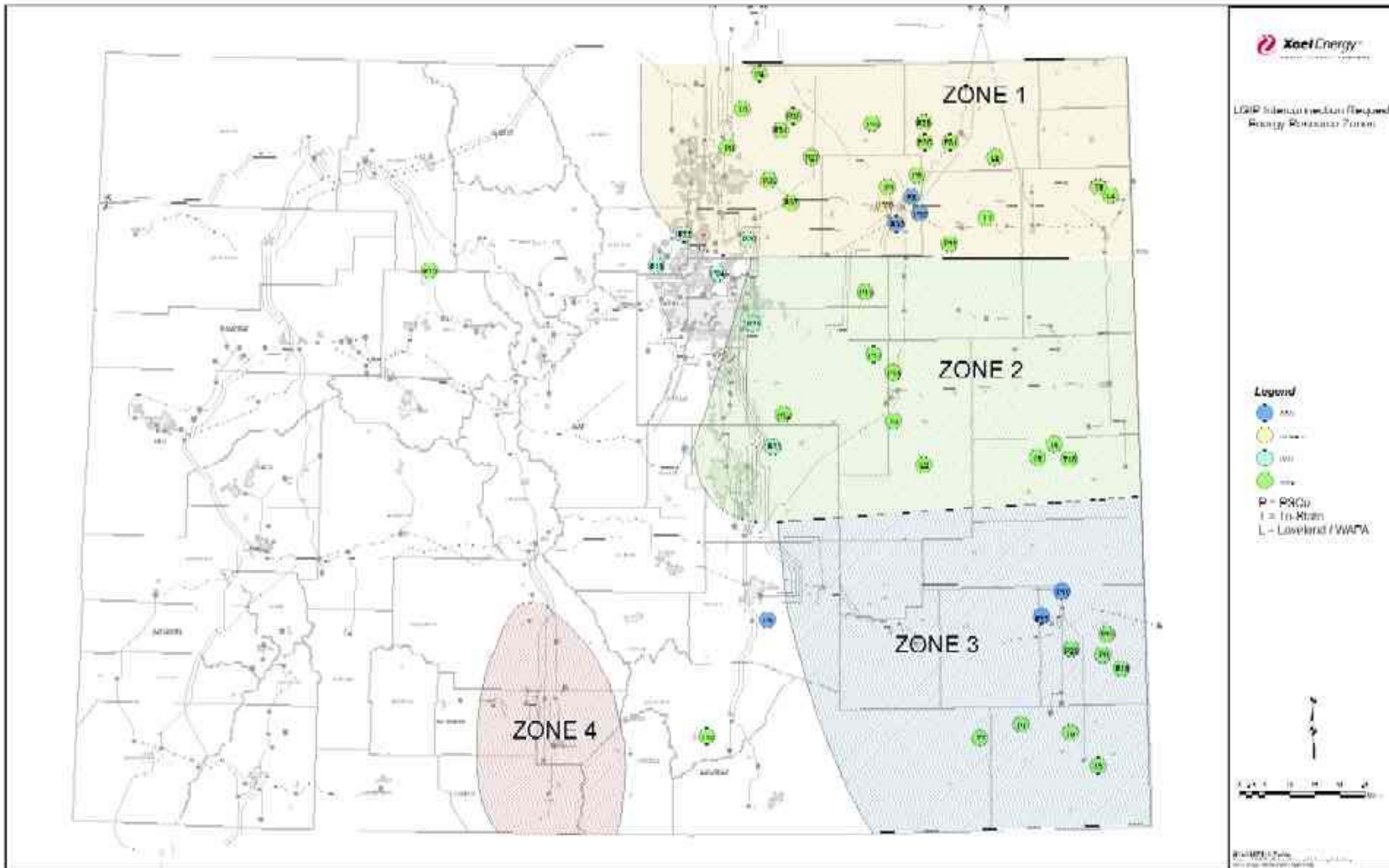
May 31, 2007

# Senate Bill 100 Transmission Study Group

## Transmission Study Team Goals

- ◆ Discuss preliminary transmission plans for each energy resource zone
- ◆ Discuss MW levels of injection for each plan
- ◆ Get input on the proposed transmission plan
  - ◆ Additional plans
  - ◆ MW injection levels
- ◆ Decide final list of study plans (July 1<sup>st</sup> 2007)
- ◆ Perform stand alone technical studies plus cost estimates and project schedules for each zone
- ◆ Integrated study most likely can be discussed in the long-term (2009 filing)

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- ◆ PSCo Transmission Planning will perform system studies for the four energy resource zones identified

### Zone 1 (Northeast Colorado)

- ◆ **Pawnee Region:** (A) Transmission plan to add additional Available Transmission Capacity (ATC) by upgrading the existing 230 kV Pawnee – Quincy - Smoky Hill – Daniels Park, and Pawnee – Daniels Park lines to 637 MVA. (B) Transmission plan for a 345 kV switchyard at Pawnee.
- ◆ **Keenesburg Region:** Network upgrade requirements are presently being studied for injection into Keenesburg 230 kV. Ongoing studies include GI-2007-5 and GI-2007-6.

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## Zone 1 (Northeast Colorado – cont.)

- ◆ **Ault Region:** In process of evaluating the need for additional ATC to accommodate new alternatives of 300 MW (GI-2007-3, 2010) and additional 300 MW (GI-2007-4, 2013) injection into Ault area. Studies being coordinated with WAPA, PRPA and Tri-State.

## Zone 2 (East Central Colorado)

- ◆ Evaluate and incorporate the transmission study of the planned Eastern Plains Transmission Project (EPTP). Discuss status of project with Tri-State and WAPA.

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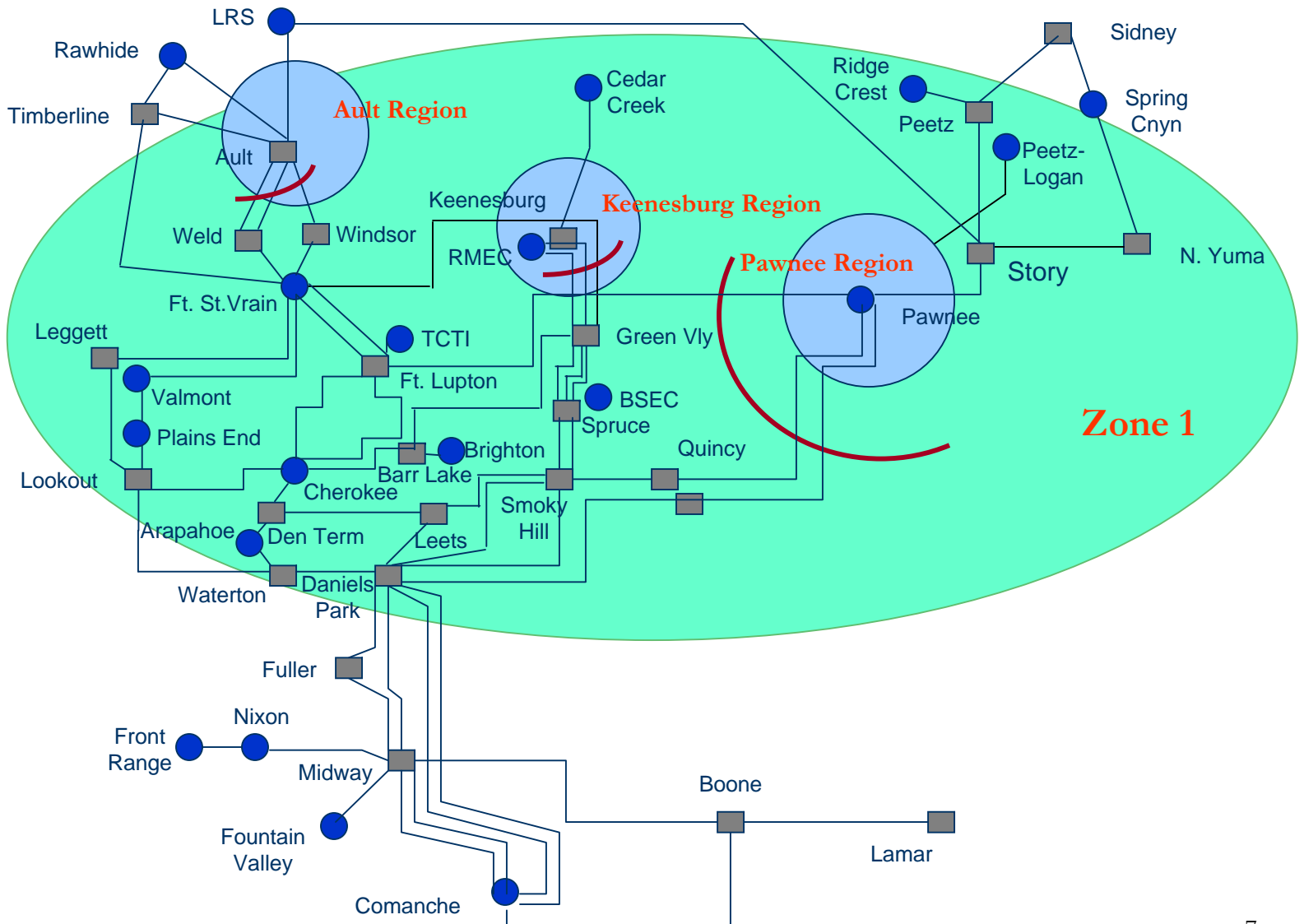
## Zone 3 (South East Colorado)

- ◆ Boone/Las Animas Region: Utilize the transmission study of the Generator Interconnection Request 2007-2 for a 675 MW unit near Las Animas. Stand alone project without EPTP.
- ◆ Lamar Region: Transmission Plan to add addition ATC to relieve the current constraint from the South East area though Boone and into Denver Metro area.

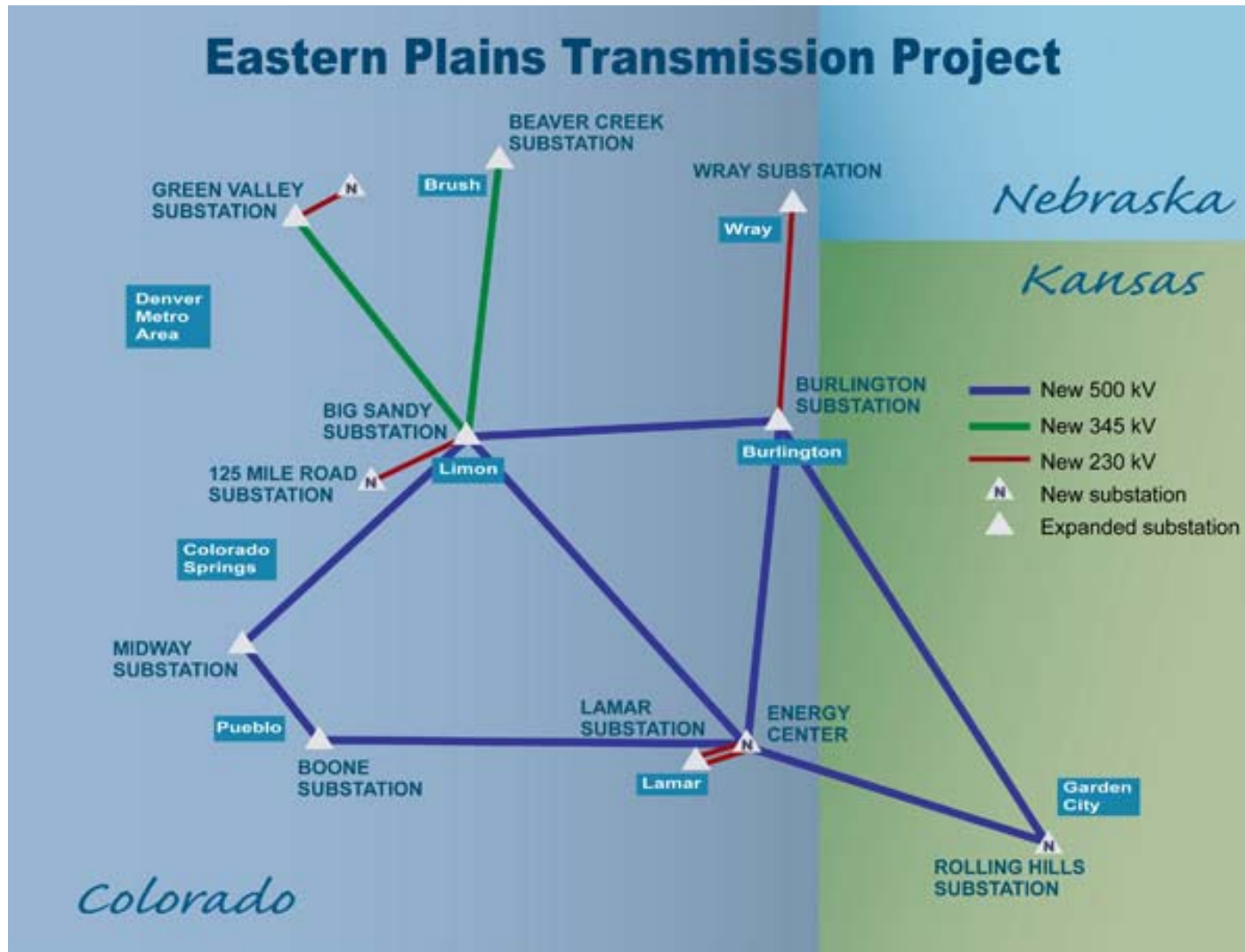
## Zone 4 (San Luis Valley - Colorado)

- ◆ Evaluate current system capacity of injection at San Luis Valley substation with the existing Transmission System

# Transmission Study Plan: Zone 1

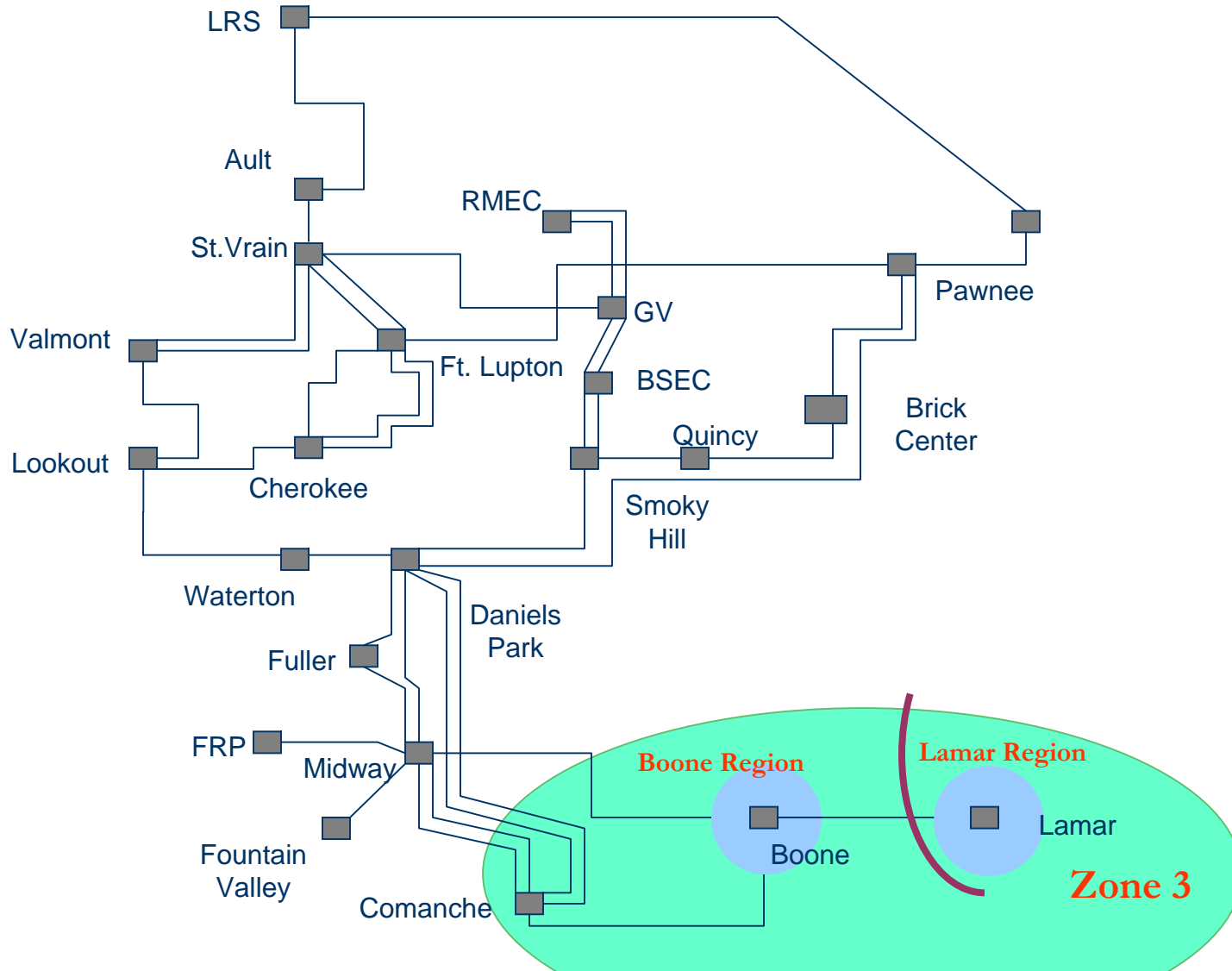


# Transmission Study Plan: Zone 2





# Transmission Study Plan: Zone 3





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Questions?