Xcel Energy Overview

Northern States Power Company - Minnesota

Public Service Company of Colorado

Southwestern Public Service

Northern States Power Company - Wisconsin

5th Largest Combination Electric and Gas Utility (based on customers)
### Xcel Energy Renewable MW (EOY 2011)

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>NSP</th>
<th>PSCo</th>
<th>SPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomass \ Landfill Gas</td>
<td>310</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Hydro</td>
<td>287</td>
<td>67</td>
<td>0</td>
</tr>
<tr>
<td>Utility Solar (AC)</td>
<td>0.3</td>
<td>52</td>
<td>50</td>
</tr>
<tr>
<td>DG Solar (AC)</td>
<td>3.7</td>
<td>91</td>
<td>3.5</td>
</tr>
<tr>
<td>Wind</td>
<td>1,604</td>
<td>1,770</td>
<td>682</td>
</tr>
</tbody>
</table>
Xcel Energy and Wind Potential

Wind Density
High
Low

Xcel Energy States Served
Xcel Energy manages output from 4.1GW of wind energy across the three operating companies (NSP-MN, PSCo, SPS) and six states (CO, TX, NM, MN, SD, ND).
Xcel Energy RES Compliance

- **Sufficient Wind RECs to meet RES**
  - NSP ~ 2019 (MN), beyond 2030 (WI)
  - PSCo ~ 2029
  - SPS ~ 2025

- **Additional REC needs**
  - PSCo ~ retail DG (Solar*Rewards)
  - SPS ~ biomass and solar (NM)
Renewable Acquisition

- NSP, PSCo, and SPS are Regulated Utilities
- Electric Resource Plan Competitive Solicitations
- Separate Renewable Solicitations
- Special Programs (Solar*Rewards)
Public Service Co. of Colorado

Denver

<table>
<thead>
<tr>
<th>Service</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity Customers</td>
<td>1.36 million</td>
</tr>
<tr>
<td>Natural Gas Customer</td>
<td>1.3 million</td>
</tr>
<tr>
<td>Service Territory</td>
<td>8,200 sq mi</td>
</tr>
<tr>
<td>Communities Served</td>
<td>165</td>
</tr>
<tr>
<td>Employees</td>
<td>3,959</td>
</tr>
</tbody>
</table>
Public Service of Colorado
Electric Resource Plan (ERP)

ERP filed every 4 years (2003, 2007, 2011 …)

- Primary ERP components
  - Current power supply mix
  - Sales and demand forecast
  - Projection of resource needs
  - Proposed generation technologies to add
  - Competitive procurement process or self-build
Public Service of Colorado
2011 ERP Schedule (Docket No. 11A-869E)

Phase 1  (Evidentiary Hearings)
- PSCo filed ERP + testimony  Oct 31, 2011
- Interveners file answer testimony  June 4, 2012
- PSCo files rebuttal testimony  July 16, 2012
- Commission issues initial decision  Oct - Nov 2012

Phase 2  (Resource Acquisition Process)
- Competitive bidding process  Jan 2013
- 120-day bid evaluation period (IE)
- Final bid evaluation report & selections  June 2013
- Commission issues final decision  Fall 2013
- Company implements approved plan
Public Service of Colorado
Phase 2 Competitive Bidding Process

■ Issue All-Source RFP (competitive solicitation)
- Dispatchable RFP
- Renewable RFP
- Semi-Dispatchable RFP

■ Economic Screening of bids by technology
- $/MWh LCOE (includes transmission)

■ Advance best bids to computer modeling
- Develop least-cost and higher cost portfolios from bids
  - Add renewables and Section 123 resources
- Estimate portfolio costs under various sensitivities
- Select preferred portfolio
- Report to Commission on results
For More Information

- select “About Us”
- select “Resource Plans”
- select “Public Service Company of Colorado Electric Resource Plan 2011”
  - Testimony
  - Application & ERP Documents
  - Additional Resources (wind related studies)