North Shore Chelan Substation Property Planning

Board of Commission Update

May 1, 2017
Today’s Agenda

• Review of recent decisions to date
• Progress update on Chelan substation work since March 20\textsuperscript{th} Board update
• Decision to narrow load center area
• Review next steps and timeline
Review

• March 6th Board meeting
  – Presented information on three sites under consideration *(Uhrich, Chelan Heights, WA Federal)*
  – Showed the cost and visual impacts of being outside the load center area (blue line)

• March 16th Focus Group meeting
  – Provided update and heard support to seek sites closer to the load center
  – Presented hypothetical alternatives closer to the load center to demonstrate an opportunity of significant cost savings, visual impact reductions, and fewer easements required

• March 20th Board meeting
  – Commissioners agreed three sites did not meet the PUD’s goals
  – PUD staff directed to seek sites closer to the load center
  – Staff directed to analyze underground transmission
Follow-up Analysis
- Emphasis to reduce visual impacts and cost
- Choose generic sites closer to load center
- Compare Visual Impacts, Easements & Cost

Outlying Sites:

<table>
<thead>
<tr>
<th></th>
<th>Chelan Heights</th>
<th>Unrich</th>
<th>Wash Fed</th>
</tr>
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<tbody>
<tr>
<td>Visual Impacts</td>
<td>110</td>
<td>69</td>
<td>165</td>
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<tr>
<td>Easements</td>
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<td>50</td>
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<td>Est. Cost</td>
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<td>$12,300,000</td>
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Load Center Sites:

<table>
<thead>
<tr>
<th></th>
<th>Boyd Rd Site</th>
<th>Site 7</th>
<th>Site 18</th>
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<tbody>
<tr>
<td>Visual Impacts</td>
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<td>220</td>
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<tr>
<td>Easements</td>
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<td>7</td>
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<td>$5,400,000</td>
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Load Center Area
Load Center Line
Summary

• Three outlying sites had significant cost, visual and easement impacts
• Staff began to pursue sites within the original load center area
• Hypothetical sites within the original load center area showed less cost, visual and easement impacts
• Further narrowed load center area based on underground transmission cost and reliability requirements
  – Underground transmission is cost prohibitive
• Eliminated options south of the transmission line – site 18 (Lookout)
  – Overhead transmission would have significant visual impacts
• Currently seeking options within the narrowed load center area (north of the transmission line)
  – Engaging property owners within the load center to develop assessment
North Shore Chelan Substation
Planned Next Steps & Timeline

• **April:** PUD staff identified multiple locations inside the modified load center area
• **May 1:** Update to Commissioners
• **May 1-26:** PUD staff begin surveying potential properties to analyze
  - Costs
  - View impacts
  - Aesthetics
  - Property easements
• **May 22-26:** Chelan Focus Group meeting
  - Present initial information gathered on costs, view impacts and easements
  - Seek support on options
• **May 30-June 1:** Community meeting
  - Present preliminary cost estimate and line routes for potential load center sites
  - Seek community input and feedback and preferred alternative
• **June 16:** Finalize conceptual cost estimate and line routes
• **June 30:** Complete feasibility options
• **July 10:** Update to Commissioners and possible request for approval on preferred alternative
• **Q3-Q4:** Begin major equipment purchases
Questions?