

Energize Eastside

South Sub-Area Committee Workshop #1

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energize**EASTSIDE**

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Energize Eastside overview

- Growth is straining our region's existing transmission system
- Conservation alone is not enough
- We need to act now
- We will work with the community to identify solutions

Energize Eastside will build new electric transmission infrastructure to ensure dependable power

Eastside system: 1930s to today

System first installed in
the **1930s**



3rd Avenue looking west, 1920s - Renton



Leary Way, 1940 - Redmond

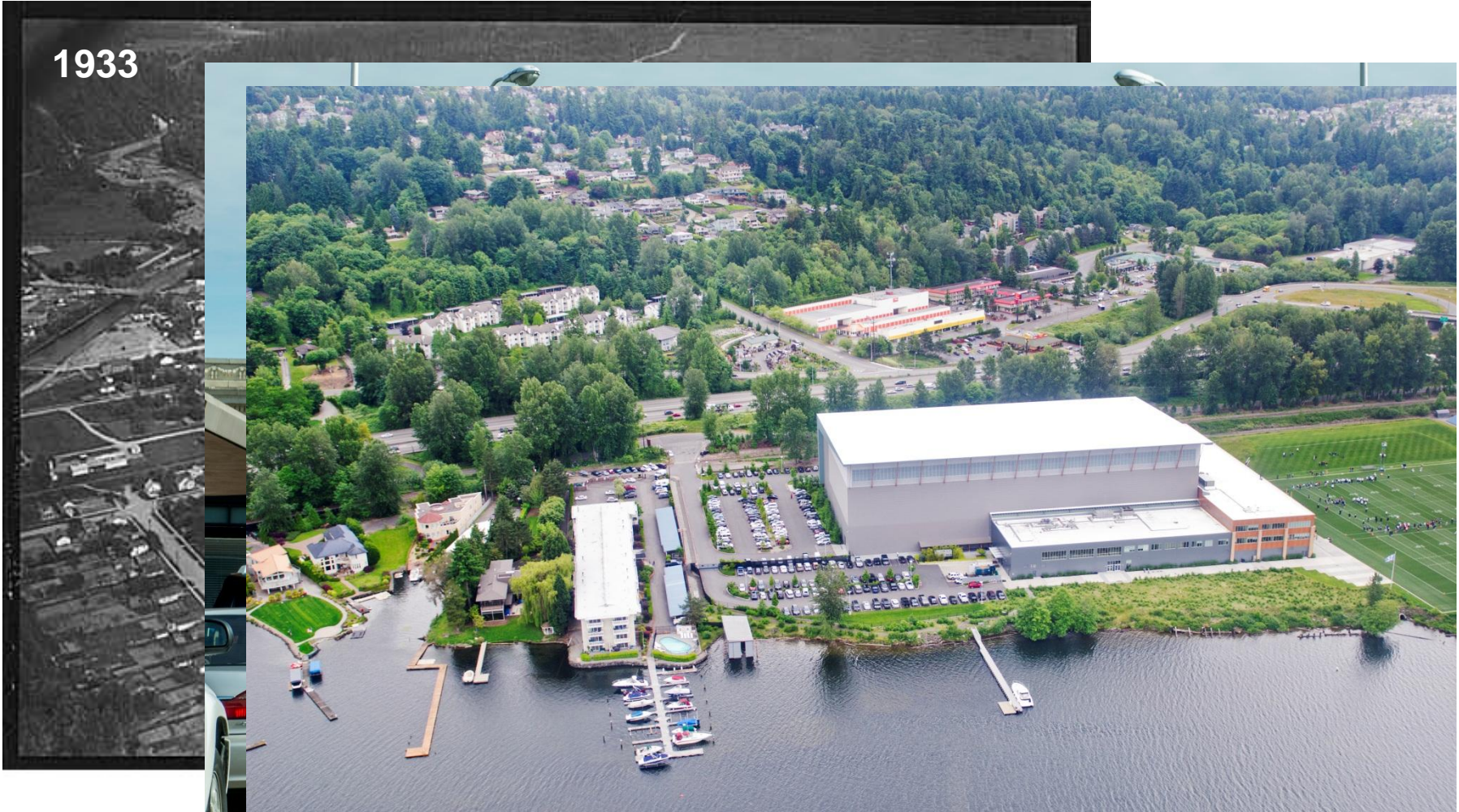


NE 8th Avenue and Bellevue Way, 1930s -
Bellevue

Eastside then and now

Renton

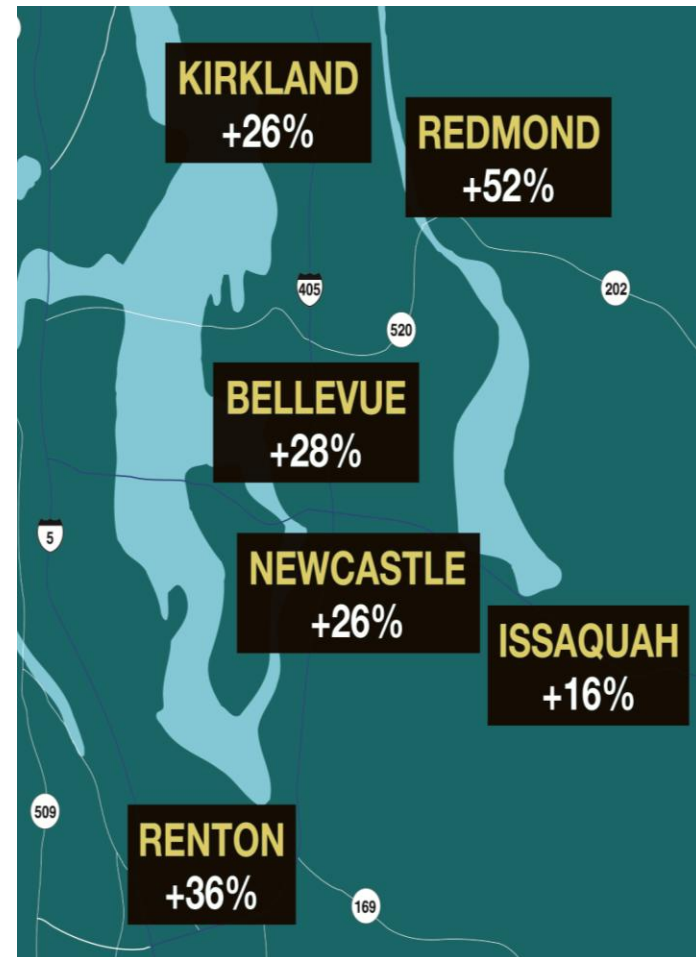
1933



Growth is straining the system

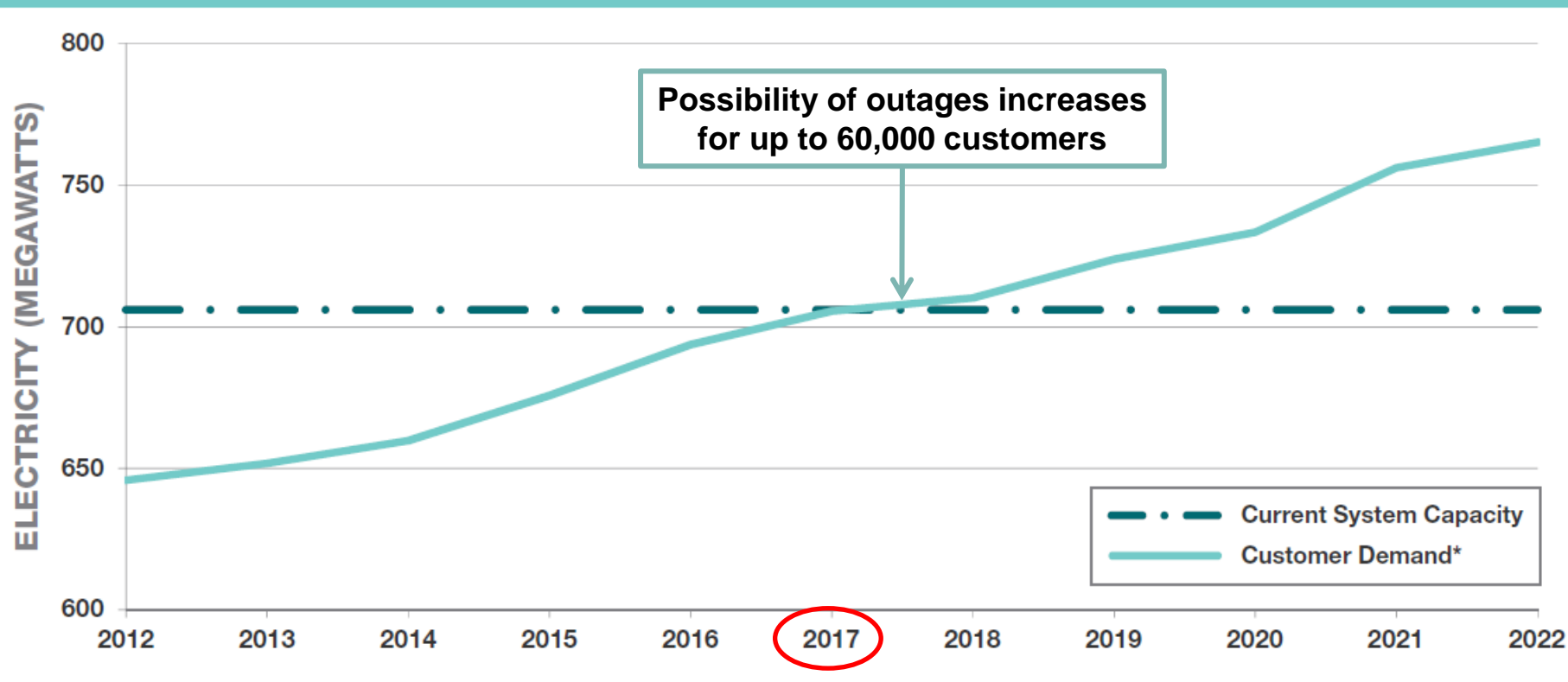
Regional growth

- Population predicted to grow by more than a third
- Employment to grow 70% between 2012 and 2040



We need to act now

EASTSIDE CUSTOMER DEMAND FORECAST



*Customer Demand assumes 100% of conservation goals are met.

Conservation alone is not enough

Energy demand will be met through **both** increased, aggressive **conservation efforts**



And **infrastructure upgrades** needed to provide reliable power



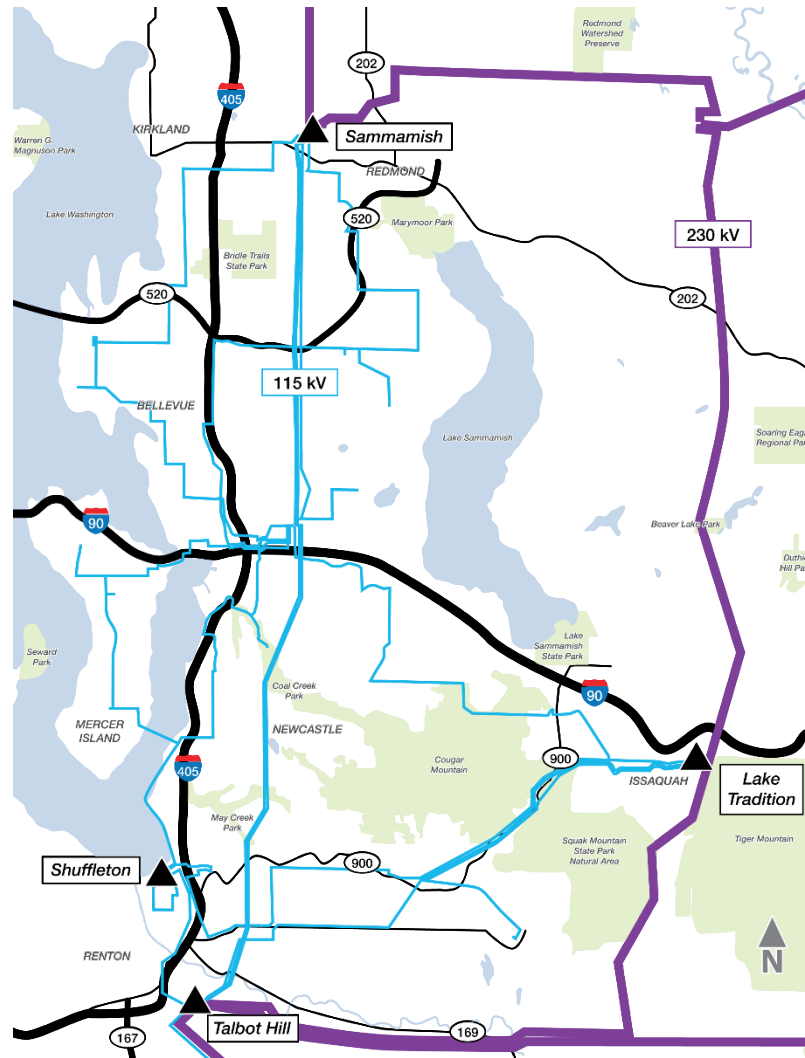
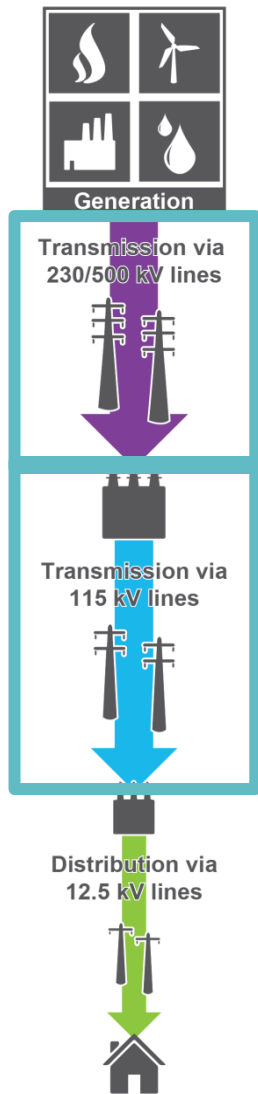
Our solution

energize**EASTSIDE**

Builds approximately 18 miles of **new 230 kV transmission lines** from Redmond to Renton

Supports the area's **growth**

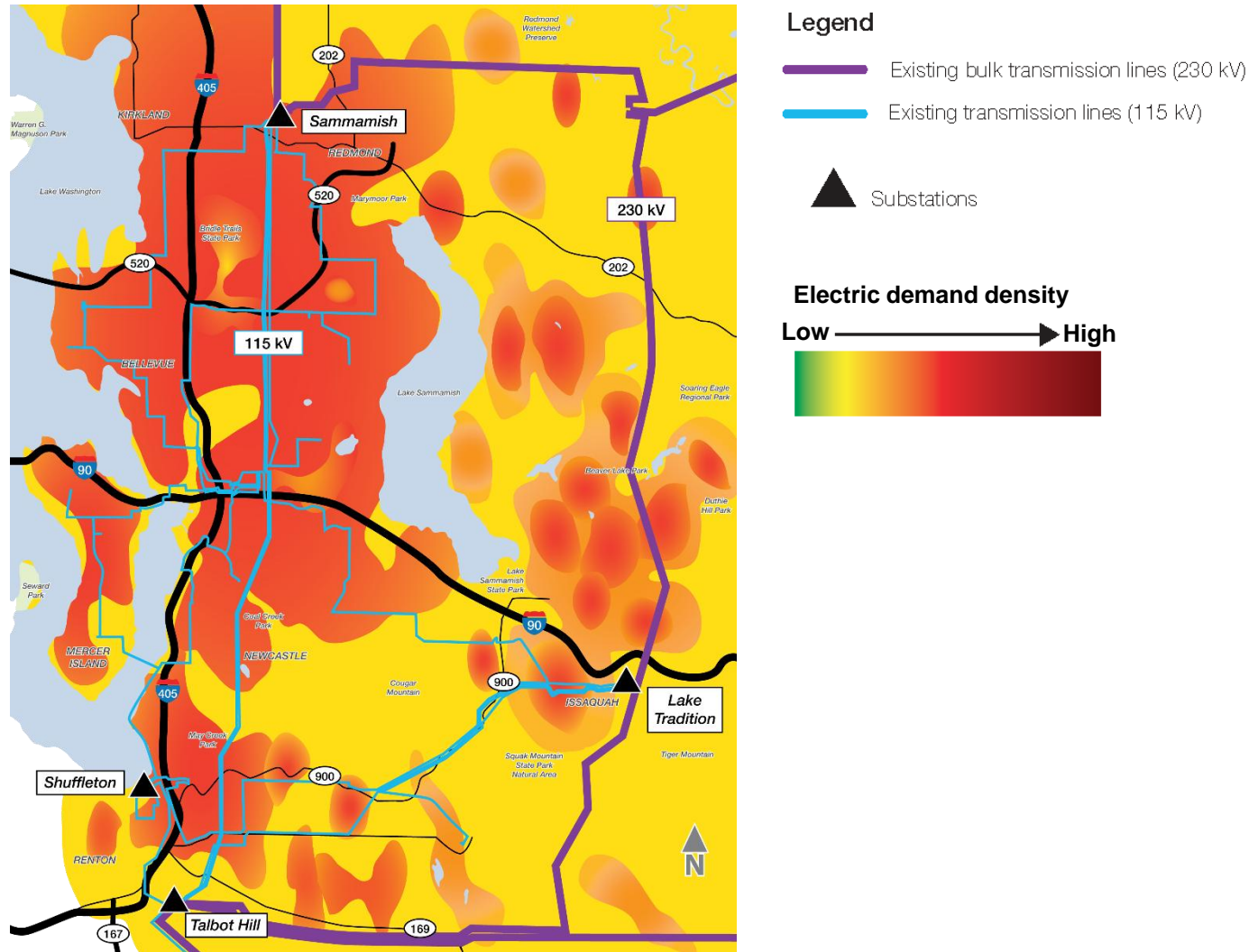
How power gets to the Eastside



Legend

- Existing bulk transmission lines (230 kV)
- Existing transmission lines (115 kV)
- Substations

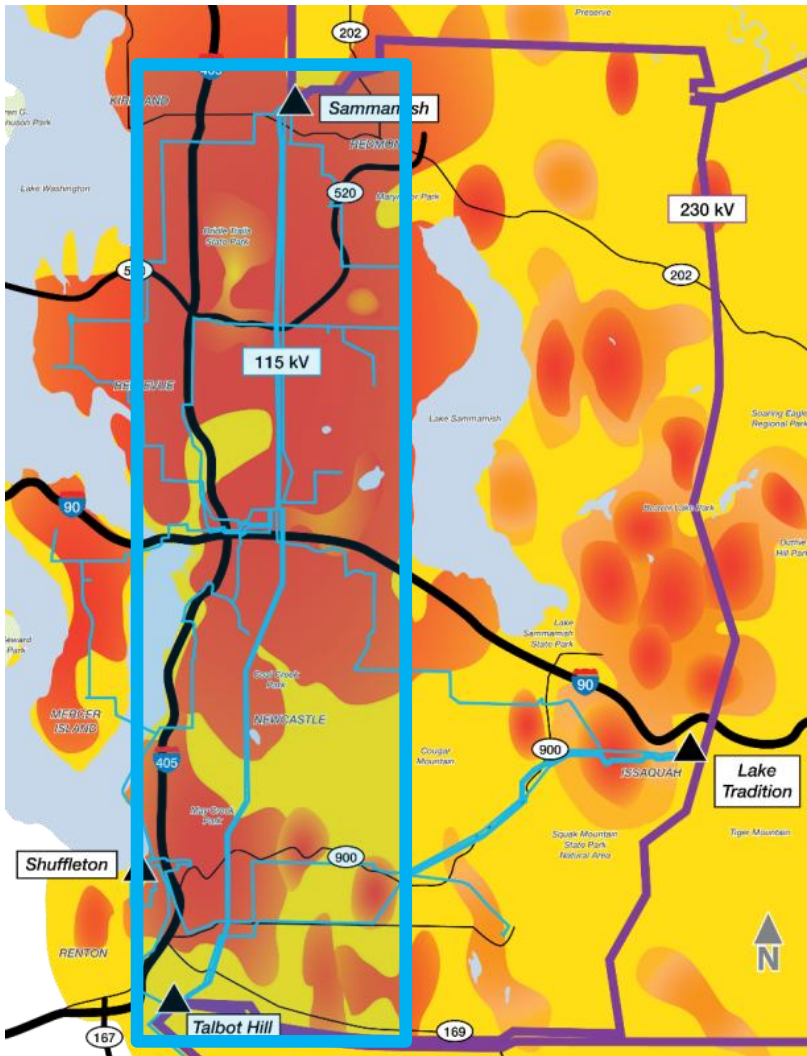
Where energy use is growing most



Potential route segments



Bringing power to where it's needed



What we're not building



Sample transmission lines

Typical pole height: 95 to 125 feet depending on topography

Typical span range: 400 to 700 feet depending on topography



What about undergrounding?

- PSE is proposing an overhead transmission line project
- The reasons:
 - **No. 1: Cost \$**

Underground	Overhead
\$20-28 million per mile (estimated labor, material and equipment costs)	\$3-4 million per mile (estimated labor, material and equipment costs)

Who pays to underground?

Requesting group pays the delta between undergrounding and overhead

- Requesting group needs to initiate and identify the specific members of the group
- Money paid up front for both engineering and construction

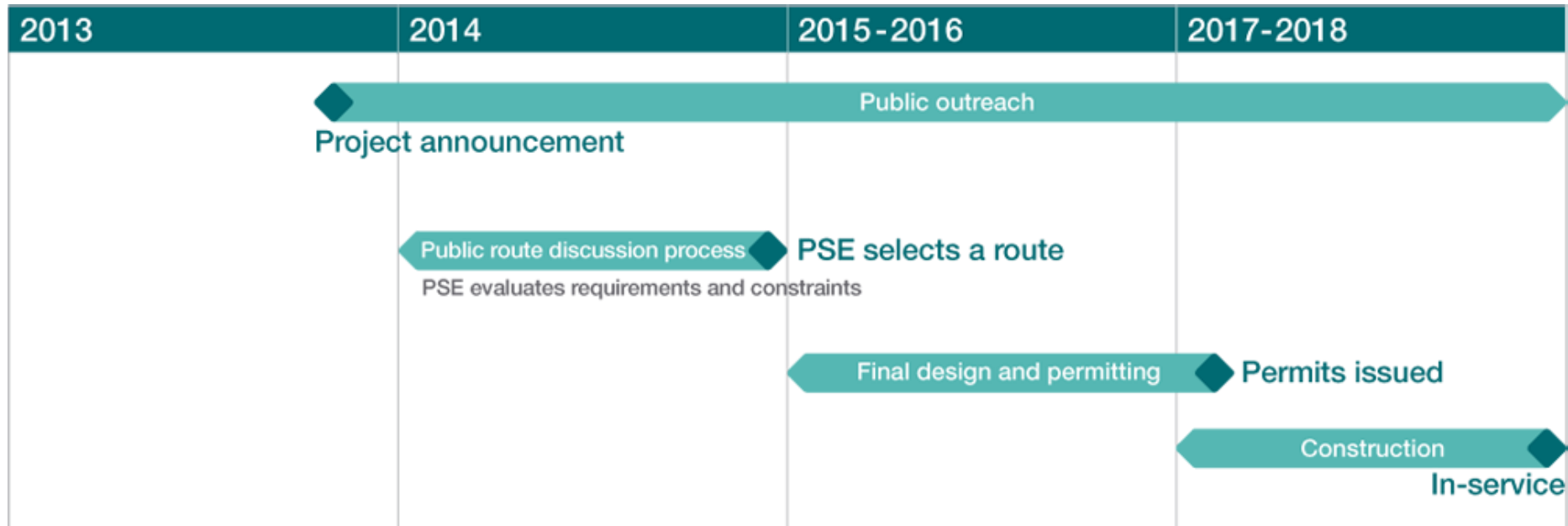


What about undergrounding?

- Other reasons:
 - Construction impacts
 - Environmental impacts
 - Operational impacts



Project schedule



Opportunities for public involvement

Community Advisory Group

Sub-Area Committees

Community Meetings

Other Opportunities

WINTER

1 Education

Learn about electric system and project need

Community Meeting #1
Feedback on project need, potential segments and route selection process

- Discuss community concerns
- Learn about the factors involved in developing the route segments
- Bus tour of project area

SPRING

2 Identify route options

Develop sub-area segment input for full Community Advisory Group discussion

- Discuss community concerns
- Develop potential route options based on input from Sub-Area Committees

SUMMER

3 Narrow route options

Community Meeting #2
Feedback on potential route options

- Discuss community concerns
- Weight community values for evaluation process
- Narrow route options to one recommended route

FALL

4 Recommended route

Community Meeting #3
Feedback on Community Advisory Group recommended route

- Discuss community concerns
- Consider public input and validate recommended route and provide route recommendation to PSE for consideration

Nighborhood and community group briefings, fairs and festivals, public kiosks, online surveys

Sub-area boundaries



Workshop #1 goals

- Provide input on the potential route segments
- Begin discussing key evaluation factors

Directions for the workshop

- Choose one person at your table to be the recorder
- Follow the guiding questions provided
- The recorder will write down your group's key points on the flip chart
- We will have facilitators available to help and subject matter experts available to answer specific questions

Route segment conversation

Question 1:

- For this segment, what key issues should be considered?
 - Part A: **Individually**, complete the issues checklist worksheet
 - Part B: **As a group**, discuss and identify the top five issues for this segment

Route segment conversation

Question 2:

- For this segment, what are specific considerations, unique characteristics and any other information that hasn't already been discussed?
- What should the Sub-Area Committee and the Community Advisory Group know about your segment?

Evaluation

- How do tough decisions get made?
- How do community values get considered?

Evaluation factors

Community value

- Community values pristine parks

Evaluation factor (question)

- How many parks are crossed or adjacent to each segment?

Evaluation factors

Question 1: Values and factors

- What evaluation factors should be considered by the Sub-Area Committees when considering route segments in this sub-area?

Example:

- Community value = Limited infrastructure in residential areas
- Evaluation factor (question) = How many residences are adjacent to each segment?

Evaluation factors

Question 2: Factors

- Thinking about the factors you considered earlier:
What data does your group think would be useful to make an objective comparison across segments?

Evaluation factors report out

- What evaluation factors did your group come up with?
- Share three key factors

Upcoming meetings

- **South Sub-Area Committee Workshop #2**
April 24 from 6:30 to 9 p.m. at Renton Technical College
- **South Sub-Area Committee Meeting**
May 15 from 6:30 to 9 p.m. at Renton Technical College

Thank you!