

# Energize Eastside

## *Community Advisory Group Meeting #5a*

energize**EASTSIDE**

Oct. 1, 2014

# Discussion objectives

- Review feedback from community and finalize:
  - Evaluation factors and their weighting
  - List of narrowed route options for further evaluation
- Prepare for the online Multi-Objective Decision Analysis (MODA) evaluation

# Open House participation

- **1,024 visitors** to online open house (between Aug. 27-Sept. 17)
- **Approx. 50 attendees** at Renton Open House (Sept. 10)
- **Approx. 90 attendees** at Bellevue Open House (Sept. 11)



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ONLINE OPEN HOUSE: AUG. 27 – SEPT. 17

Welcome Overview **Need** Key questions Community Advisory Group Route options Evaluation factors Data Thank you Survey

## Need

Growth is straining our region's existing transmission system

Growth studies project that demand for reliable power will exceed capacity as early as 2017.

This doesn't mean the lights will go out, but without substantial electrical infrastructure upgrades and aggressive conservation efforts, the Eastside's power system will lose redundancy, increasing the possibility of outages for as many as 60,000 customers.

Check out the links below for more information:

- [About Eastside Need](#)
- [Map of the Eastside's electric demand](#)
- [About Eastside growth](#)
- [How power gets to you](#)

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**Eastside need**  
Animated infographic



# Community feedback survey

## 515 surveys completed

- Available via online open house: Aug. 27-Sept. 17
- Note: The number of responses varies by question because some respondents did not answer all questions

## Survey questions:

1. Do you agree that the **11 recommended routes** should be further evaluated?
2. Do you agree that the **seven routes not recommended** should be removed from further evaluation?
3. Which **evaluation factors** are the most important to you?

# Evaluation factors

- Avoids impacts to aesthetics
- Avoids residential areas
- Avoids sensitive community land uses
- Avoids sensitive environmental areas
- Least cost to the rate payer
- Maximizes longevity
- Maximizes opportunity areas
- Protects health and safety
- Protects mature vegetation

# Evaluation factor weighting

## Weight the Evaluation Factors

Please assign weighting values to the following evaluation factors to indicate their relative importance to you. A larger value indicates greater importance, while a smaller value indicates less importance. The sum of all weighting values must equal 100.

**Note: Multiple evaluation factors can be assigned the same value, and some factors can be assigned a value of 0. The survey requires the values to add up to 100, so check your math if you get an error message when submitting the survey. Lastly, please use only numbers (e.g. 14); the software does not accept percentages (e.g. 14%).**

Avoids impacts to aesthetics (pole design, see photo simulations)

Avoids residential areas (number of residences, population density, noise, etc.)

Avoids sensitive community land uses (parks and other recreational areas, registered historic sites, schools, churches, etc.)

Avoids sensitive environmental areas (wetlands, wildlife habitat, fault lines, etc.)

Least cost to the rate payer (estimated monthly increase to average residential customer; calculation based on cost to construct)

Maximizes longevity (when new 230 kV infrastructure is needed)

Maximizes opportunity areas (runs along existing utility corridors, public right of way vs. private right of way, etc.)

Protects health and safety (EMF, Olympic Pipeline, etc.)

Protects mature vegetation (number of trees impacted)

# Evaluation factor weighting results

Evaluation factor	Advisory group weights (n = 23)	Community weights (n = 461)
Avoids impacts to aesthetics	5%	14%
Avoids residential areas	24%	31%
Avoids sensitive community land uses	13%	10%
Avoids sensitive environmental areas	7%	12.5%
Least cost to the rate payer	14%	7%
Maximizes longevity	9%	4%
Maximizes opportunity areas	15%	6%
Protects health and safety	9%	9%
Protects mature vegetation	4%	6.5%

= 100%

= 100%

# Final Weights

Would you like to adjust any of the evaluation factor weightings?

# Final evaluation factors and weighting

## Final adjusted evaluation factors and weighting:

Evaluation factor	Community weighting	Advisory Group weighting
1. Avoids impacts to aesthetics	14%	5%
2. Avoids residential areas	31%	24%
3. Avoids sensitive community land uses	10%	13%
4. Avoids sensitive environmental areas	12.5%	7%
5. Least cost to the ratepayer	7%	14%
6. Maximizes longevity	4%	9%
7. Maximizes opportunity areas	6%	15%
8. Protects health and safety	9%	9%
9. Protects mature vegetation	6.5%	4%
	100%	100%

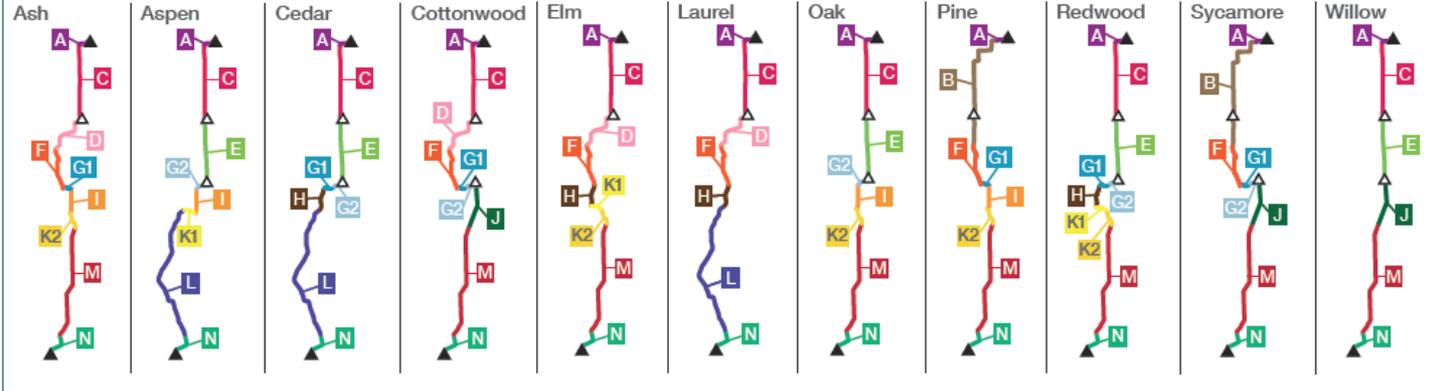
*In Meeting #5a, the Community Advisory Group decided to conduct two separate MODA evaluations, one with the community weightings and another with the advisory group weightings.*

# Narrowed route options



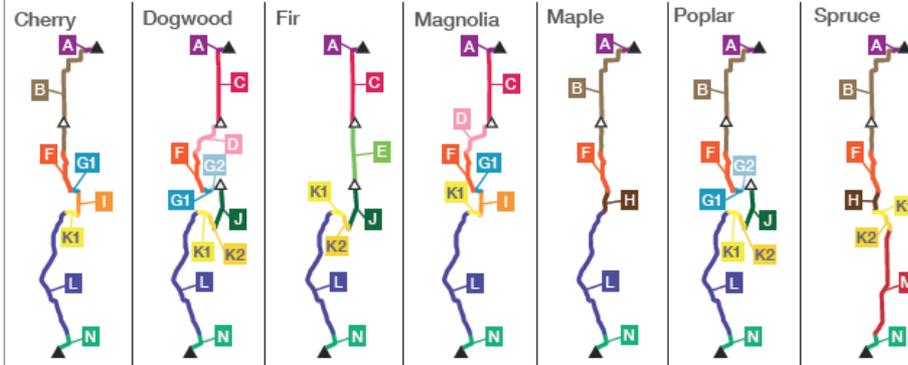
## ROUTE OPTIONS RECOMMENDED for further evaluation by the Community Advisory Group

The Community Advisory Group recommended further evaluation of the following 11 potential routes options:



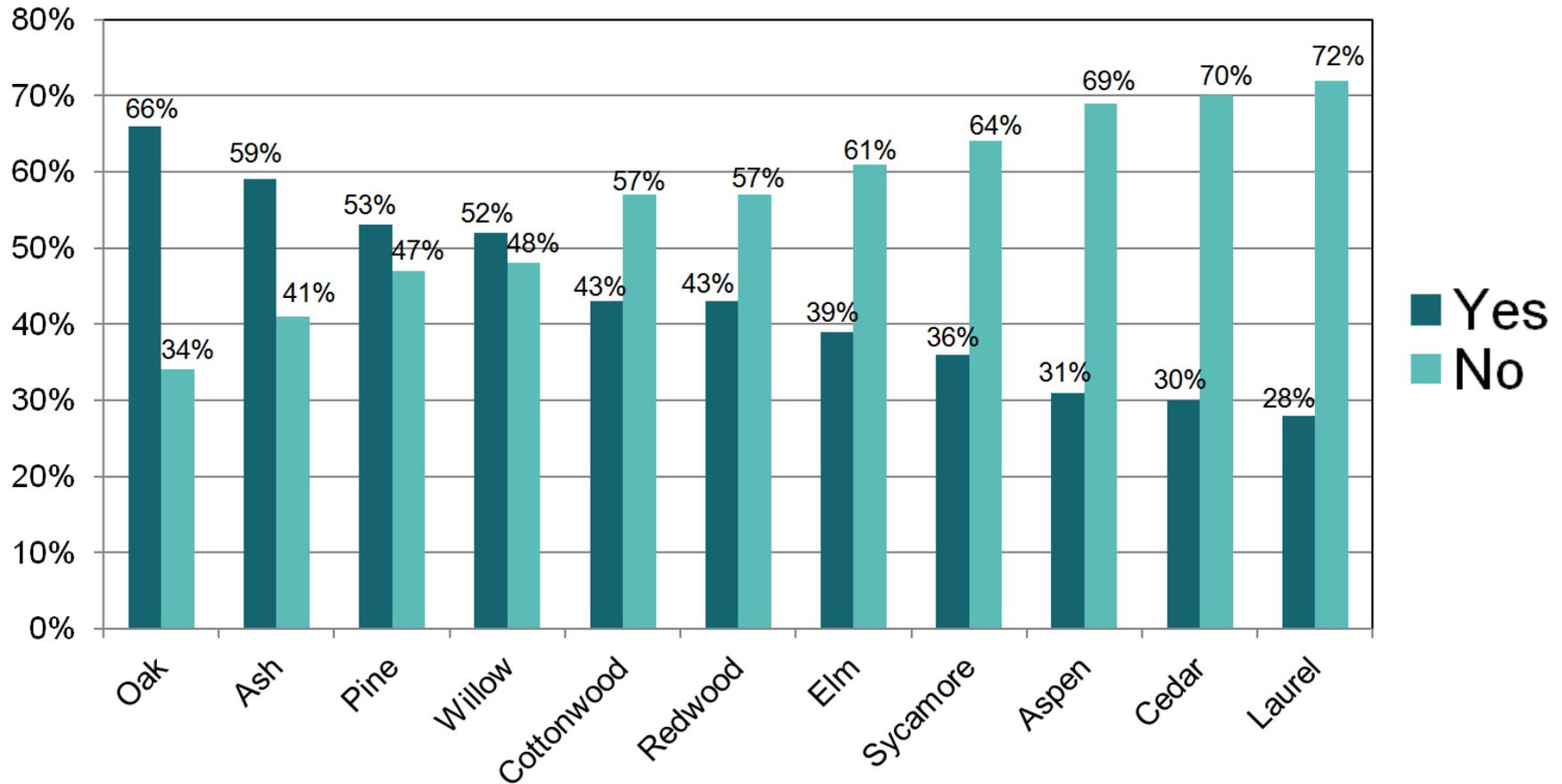
## ROUTE OPTIONS NOT RECOMMENDED for further evaluation by the Community Advisory Group

The Community Advisory Group recommended no further evaluation of the following seven potential route options:



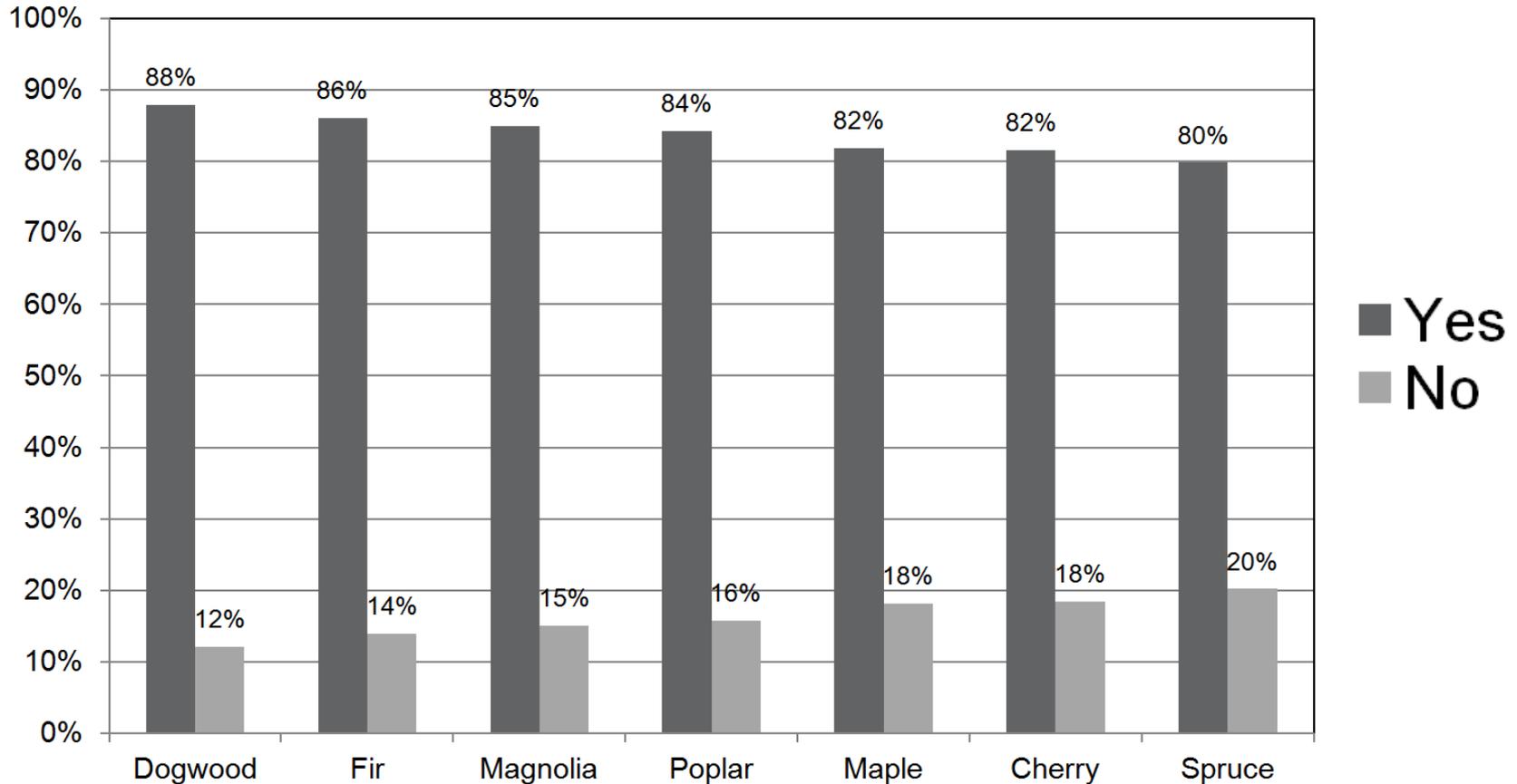
# Survey results

**Route options recommended:** Do you agree that these routes should be further evaluated? (n = 501)



# Survey results

**Route options not recommended:** Do you agree that these routes should be removed from further evaluation? (n = 438)

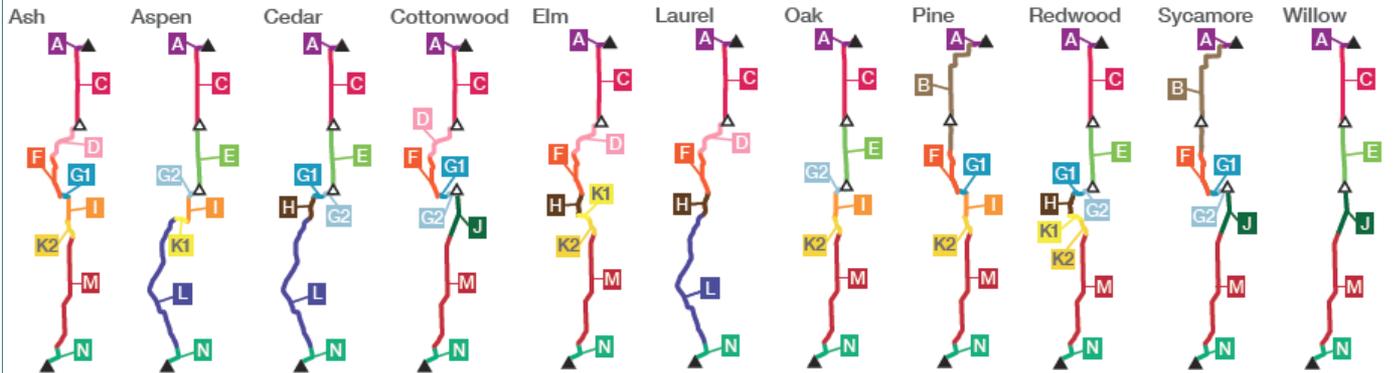


# Narrowed route options



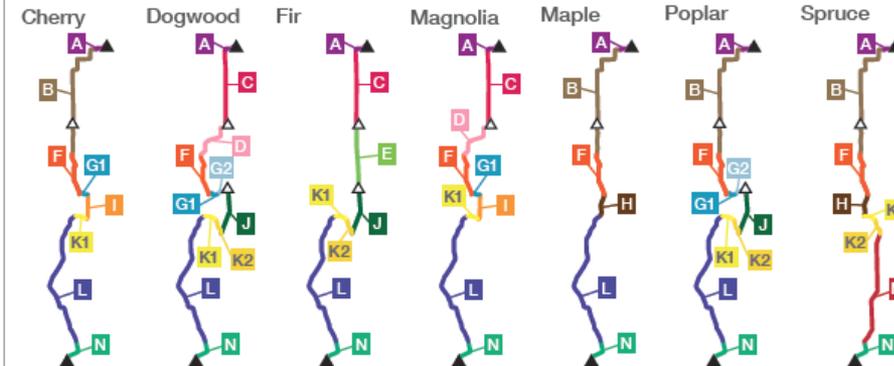
## ROUTE OPTIONS RECOMMENDED for further evaluation by the Community Advisory Group

The Community Advisory Group recommended further evaluation of the following potential routes options:



## ROUTE OPTIONS NOT RECOMMENDED for further evaluation by the Community Advisory Group

The Community Advisory Group recommended no further evaluation of the following potential route options:



# Multi-Objective Decision Analysis

## MODA steps:

1.  Factors
  - Discuss and agree on evaluation factors
2.  Weighting
  - Determine relative importance of each factor and assign corresponding weights
3.  Route options
  - Determine route options to evaluate
4.  Scoring
  - Score each route option for each weighted factor
5.  Decision
  - Discuss results and determine decision

# MODA evaluation

- Each advisory group member will complete the MODA evaluation using:
  - Data table
  - Photo simulations
  - Route maps
  - Online evaluation tool (Transparent Choice)
  - MODA worksheet (optional)



# MODA timeline

<b>Thurs., Oct. 2</b> by 10 a.m.	Members receive unique link by email to access the MODA evaluation
<b>Mon., Oct. 6</b> by 10 a.m.	Deadline to complete the evaluation
<b>Wed., Oct. 8</b>	Review results at next advisory group meeting and develop preliminary route recommendation

Any questions about the  
MODA evaluation?

# Next steps for the advisory group

- **Meeting #5b on Wednesday, Oct. 8**
  - Review and discuss MODA evaluation results
  - Develop preliminary route recommendation to share with community at November open houses
  
- **Meeting #6 on Wednesday, Dec. 10**
  - Review community feedback on preliminary route recommendation
  - Finalize recommendation to share with PSE

# Public comment

# Upcoming meetings

- **Community Advisory Group Meeting #5b**  
Wednesday, Oct. 8, 6:30 to 8:30 p.m. at  
Old Redmond Schoolhouse
- **Open House #3**  
November 12 and 13, 2014; *location TBD*

**Thank you!**