Sammamish-Juanita 115 kV Project

Advisory Group Meeting #7

PUGET SOUND ENERGY

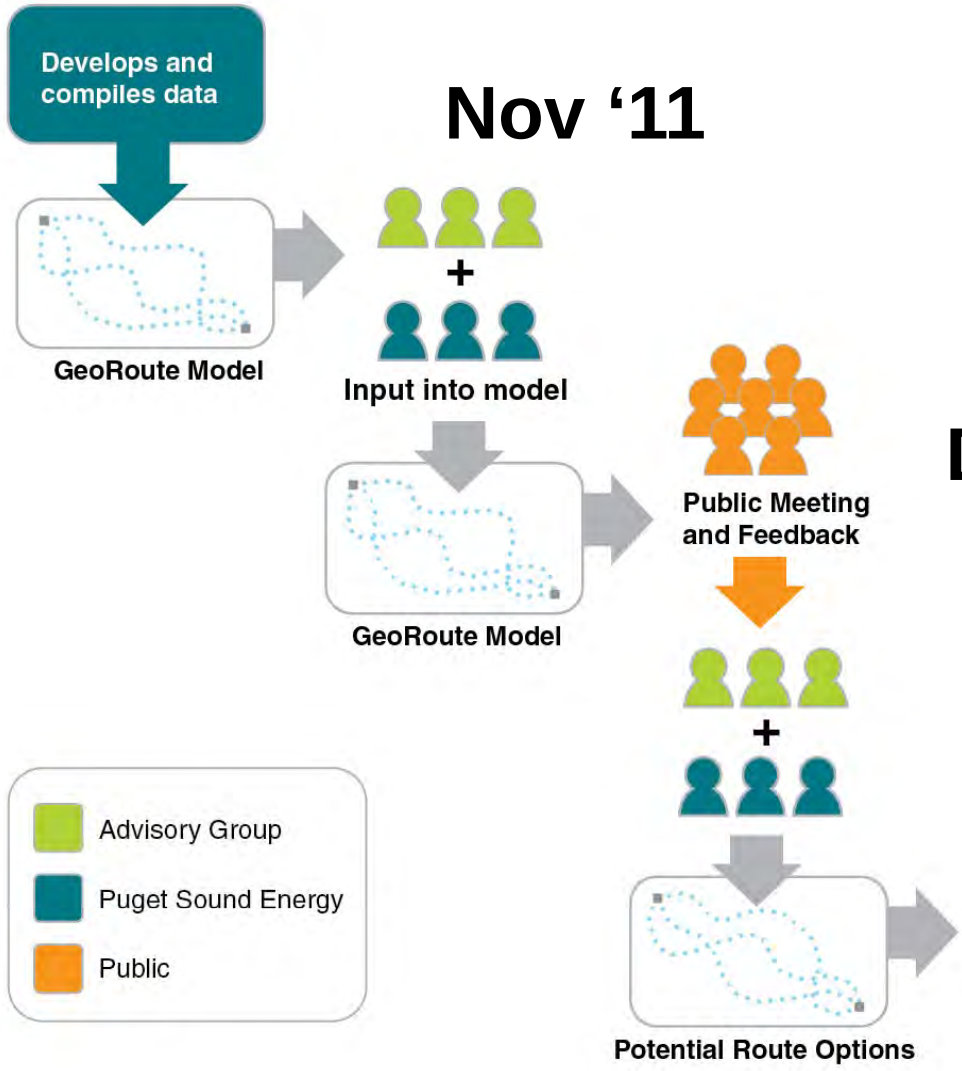
July 18, 2012

Tonight's agenda

- Overview of route alternative selection process
- Public comment to the advisory group
- What have we been hearing
- Preferred route selection process
  - Validate decision criteria
  - Identify preferred route east of Interstate 405
  - Identify preferred route west of Interstate 405
- Next steps

Stakeholder advisory group process

Fall ‘11



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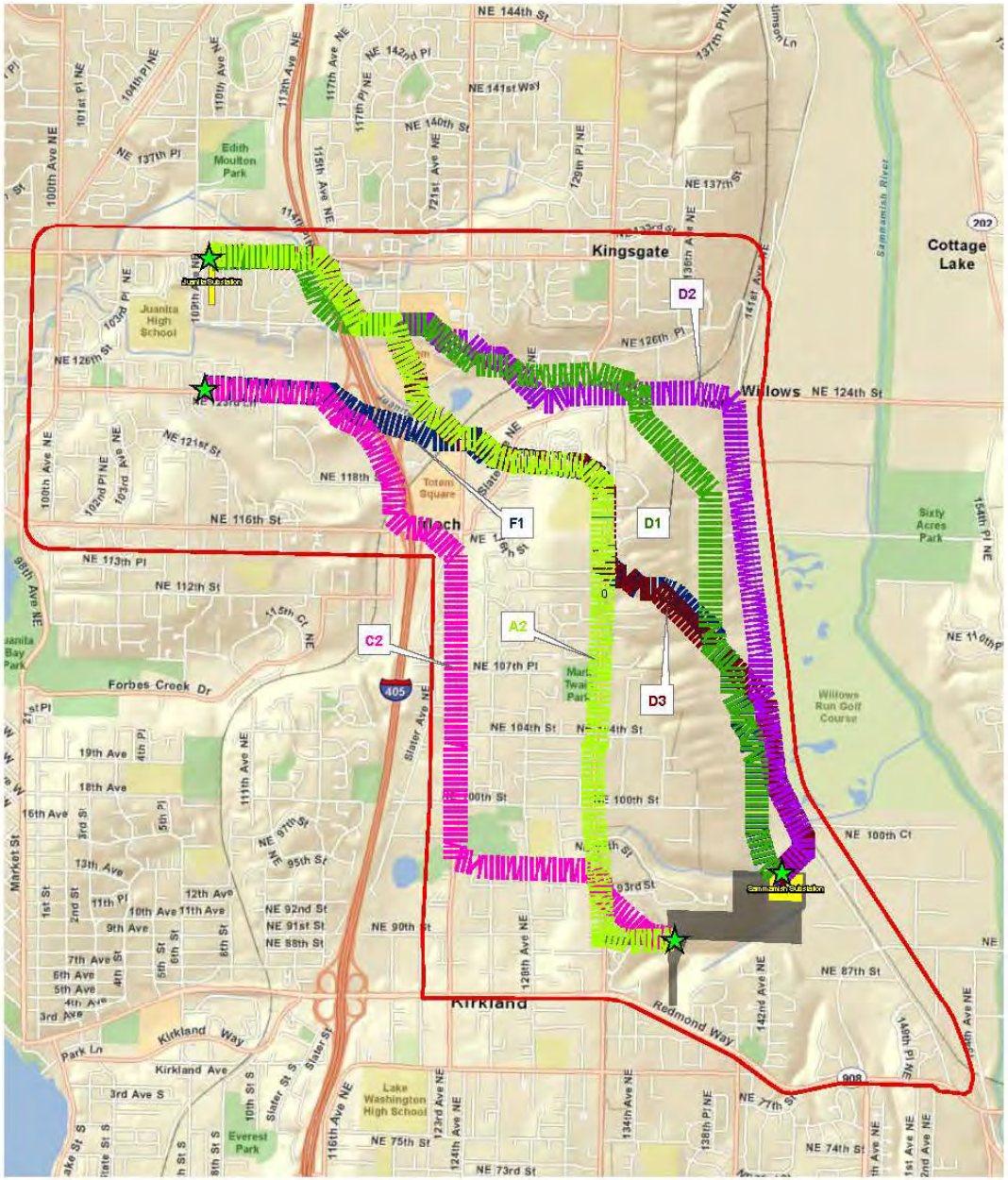

Dec ‘11

Jan/Feb ‘12

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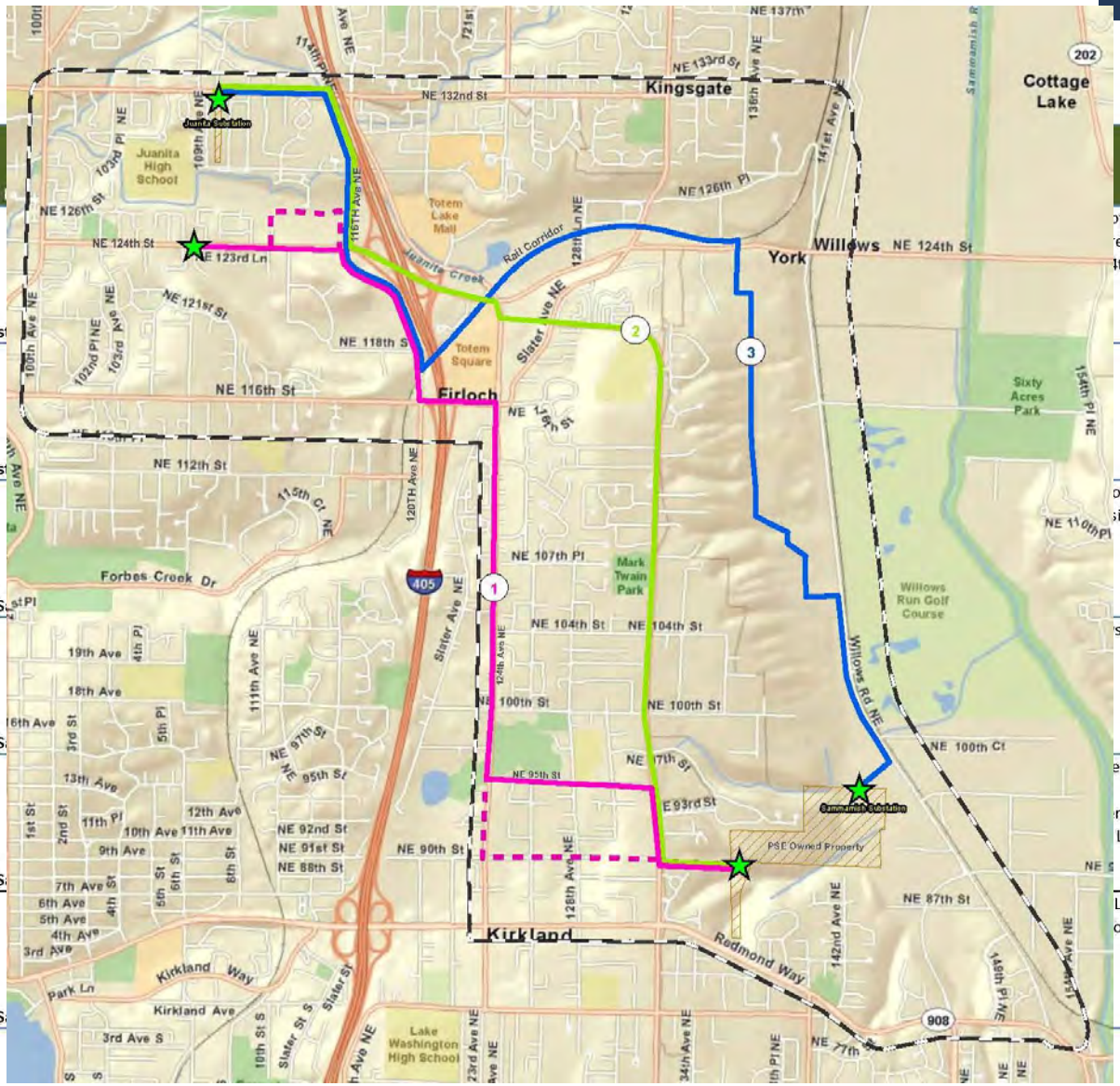
Stakeholder advisory group process

Puget Sound Energy Sammamish-Juanita 115 kV Project
Stakeholder Advisory Group
Route Option Tracking Worksheet - Feb. 2, 2012

Model Outputs	End Point	Weighting Scheme	Notes	Pros	Cons	Recommend further study?
A2.	West Sam - End Juanita Sub	60 Av/40 Opp		• Many open areas are along 132nd Ave NE • Runs along I-405/Totem Lake	• Wires are on both sides of 132nd Ave NE • More homes are on the front of this route than on 124th Ave NE	
C2.	West Sam - End 124th St	60 Av/40 Opp		• Uses 124th Ave NE, a main arterial and wider street • Avoids more residential area than C1		
D1.	NE Sam - End Juanita Sub	70 Av/30 Opp		• Impacts views along Willows Rd. less	• Cuts across wooded slope • Requires acquisition of easements • Complicated	
D2.	NE Sam - End Juanita Sub	60 Av/40 Opp		• Least residential of all routes	• Impacts Willows view corridor	
D3.	NE Sam - End Juanita Sub	50 Av/50 Opp		• Might be a good combination to try to avoid issues	• Cuts across steep slopes and wooded area • Could have over-use ATV impacts • Impacts Totem Lake Mall	
F1.	NE Sam - End 124th St	70 Av/30 Opp		• Least residential impacts	• Crosses Totem Lake Mall • Cuts through slope and trees	

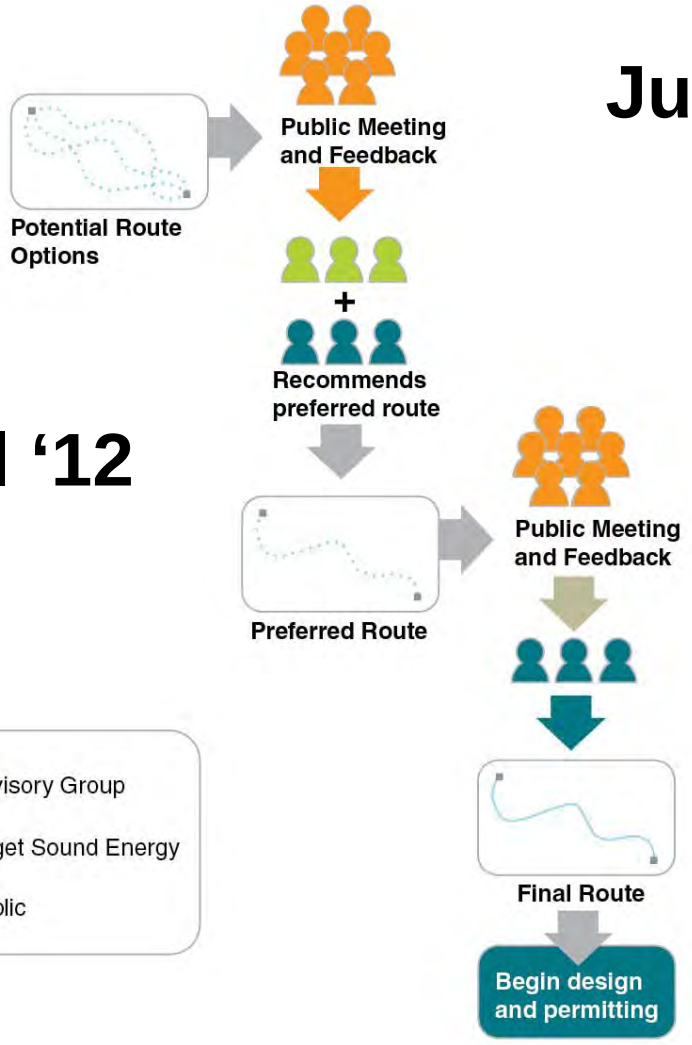


Model Outputs	End		Recommend further study?
A2.	West	oth sides of 132nd Ave NE e on the front of this 4th Ave NE	
C2.	West		
D1.	NE S	oded slope sition of easements	
D2.	NE S	s view corridor	
D3.	NE S	ep slopes and wooded r-use ATV impacts Lake Mall	
F1.	NE S	Lake Mall ope and trees	

?

Stakeholder advisory group process

May ‘12



Jun ‘12

Jul ‘12

Aug/Sep ‘12

Fall ‘12

Stakeholder advisory group process

Value Weighting Worksheet

Name:

Criteria List	Value of Importance (1 - 6)	Total Value of Importance Score (all stakeholders)	Prioritized List	Weighting Percentage (Starting Point)	Final Weighting Value
Least proximity to residential areas					
Least impact to mature vegetation					
Least proximity to critical areas					
Public support					
Opportunity areas					
Least proximity to community sensitive land uses					
TOTAL					

INSTRUCTIONS: In the highlighted column above (Value of Importance), please rank the criteria from 1 through 6 where 6 is the most important criterion and 1 is the least important criterion. *Please only use each number once.*

The third column represents the sum total value from all stakeholders, upon which the fourth column (Prioritized List) will be based.The fifth column (Weighting Percentage) is meant to provide a starting point for determining the Weighting Value to assign the criteria in the last column (Final Weighting Value).

The Final Weighting Value will be to score the concepts based on how well they meet the criteria. The master decision matrix will use raw scoring multiplied by the Final Weighting Value giving each concept a total weighted value score.

Scoring Worksheet - East of Interstate 405

Name:			
Sammamish-Juanita 115 kV Project	**Route Alternative 1**	**Route Alternative 2**	**Route Alternative 3**
Criteria List	Scoring	Scoring	Scoring
Least proximity to residential areas			
Least impact to mature vegetation			
Least proximity to critical areas			
Public support			
Opportunity areas			
Least proximity to community sensitive land uses			
Total (Max of 30 points per alternative)			

Please score each of the above concepts for each of the criteria based on the following scoring table:

Scoring Key

5 points = Exceeds the criterion

4 points = Meets the criterion completely

3 points = Mostly meets the criterion

2 points = Mostly doesn't meet the criterion

1 point = Completely fails to meet the criterion

Stakeholder advisory group process

Decision Matrix

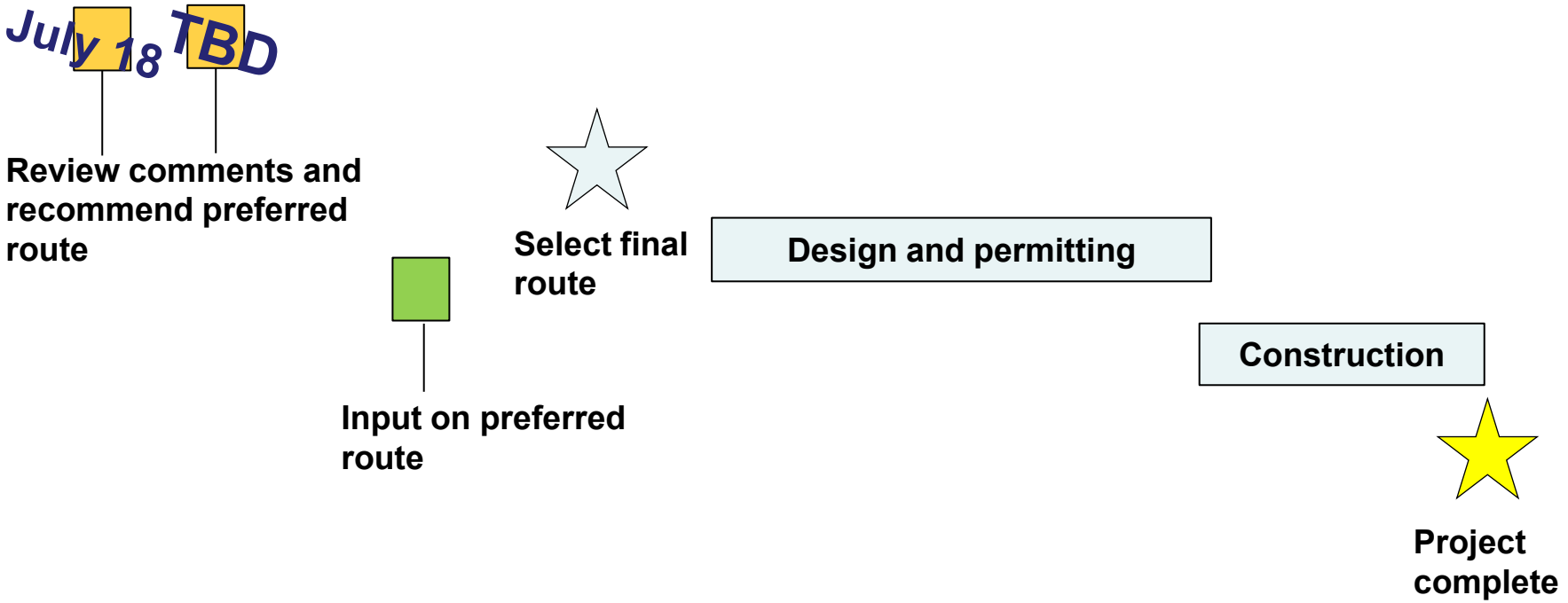
7/18/12

Weighted Score Results		Route Alternative 1		Route Alternative 2		Route Alternative 3	
Criteria List	Weight	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
Least proximity to residential areas							
Least impact to mature vegetation							
Least proximity to critical areas							
Public support							
Opportunity areas							
Least proximity to community sensitive land uses							
Total	0	0.0	0.0	0.0	0.0	0.0	0.0

Begin design and permitting

Next steps for the siting process

2012			2013	2014
Summer	Fall	Winter		



Stakeholder advisory group meetings

Community meetings

Puget Sound Energy

Public comment

- What would you like the SAG to hear before they start their work?
- Be respectful of your time and others
- The advisory group is in *listening mode* and will not respond to questions or comments

Public comment from audience

Lots of input – key themes heard

- Avoid residential areas, playgrounds, parks, wetlands and schools
- Use commercial and industrial areas to reduce impacts to residential areas
- Combine alternatives and consider new route paths
- Residential impacts are greater than impacts to City of Redmond's designated view corridor
- Concerns about health, property values, aesthetics and safety

Multi-objective decision analysis process

Criteria

- Discuss and agree on evaluation criteria

Weighting

- Rank importance of each criterion
- Develop weighting of each criterion

Scoring

- Score each alternative against each criterion
- Apply weighting factors to develop final scores
- Discuss and select recommended alternative

Multi-objective decision analysis process

Criteria under consideration:

- *Proximity to Residential Areas* – The location of the transmission line in relation to homes.
- *Impact to Mature Vegetation* – The amount of mature vegetation that must be removed **or trimmed** for construction and operation of the transmission line.
- *Public Support* – Public support for the transmission line route **balanced against established Comprehensive and Functional Plans adopted by both cities.**
- *Opportunity Areas* – The location of the transmission line in relation to the **Kirkland** railroad corridor, arterial streets (by classification or traffic counts), and existing utility lines/**corridors.**
- *Proximity to **Community-identified** Sensitive Land Uses* – The location of the transmission line in relation to schools, parks or similar sensitive land uses.
- *Proximity to Critical **and Designated Areas*** – The location of the transmission line in relation to critical areas such as wetland, streams, steep slopes, **designated view corridors, Native Growth Protection Areas and Transfer of Development Rights**, etc.

Multi-objective decision analysis process

Other criteria suggested:

- Proximity to schools (as a separate criteria)

- A broader consideration of proximity to homes, businesses and schools with numbers of residents, workers, and students per each

- The cost of each route relative to the others, including construction as well as maintenance *(Note: PSE has indicated this level of cost detail is not available at this stage of planning. A range of $6-8 million for any of the three alternatives is the current cost information. The actual costs will vary depending on route selection, engineering, construction, property rights, etc.)*

Multi-objective decision analysis process

- Rank criteria by importance to you
  - Lowest number equals least important
  - Highest number equals most important

Example value weighting worksheet

Value Weighting Worksheet

Name:					
Criteria List	**Value of Importance (1 - 6)**	**Total Value of Importance Score (all stakeholders)**	**Prioritized List**	**Weighting Percentage (Starting Point)**	**Final Weighting Value**
Rajiopf jik;jiujr jjslk;jrr ddkkji	5				
lksksk juneo ujujmt yuj jkliijhh	3				
Joiup eunfklpj jn;lnl;jjdfdhhh	1				
Purriyy lskjerjnm	2				
Oiuo seruj jlpul; yuy;lje ghghgj	6				
Leres ouu rjuuu jkooooo jjj	4				
TOTAL					

INSTRUCTIONS: In the highlighted column above (Value of Importance), please rank the criteria from 1 through 6 where 6 is the most important criterion and 1 is the least important criterion. *Please only use each number once.*

The third column represents the sum total value from all stakeholders, upon which the fourth column (Prioritized List) will be based.The fifth column (Weighting Percentage) is meant to provide a starting point for determining the Weighting Value to assign the criteria in the last column (Final Weighting Value).

The Final Weighting Value will be to score the concepts based on how well they meet the criteria. The master decision matrix will use raw scoring multiplied by the Final Weighting Value giving each concept a total weighted value score.

Multi-objective decision analysis process

- Score each alternative against each criteria
  - Use scoring table to assign points based on how well the alternative meets each criteria
  - Assign up to 5 points per criteria for each alternative
  - Better the alternative meets the criteria, the higher the points given
  - Total score cannot exceed 30 points for each alternative

Example scoring worksheet

Scoring Worksheet - Selection of an important thing

Name:			
Sammamish-Juanita 115 kV Project	**Alternative 1**	**Alternative 2**	**Alternative 3**
Criteria List	Scoring	Scoring	Scoring
Luklj a;lseu fessfg ljjul usiojr	4	2	1
Ujk;lu fjiuu llkjh' seete uijlljj;lj	3	2	1
poiu serr uoj ui jkl;upuop j tgjhkl;ja;	5	4	4
Rjhj kuljb ljhlkj ujhsh	5	4	2
Adsk sjuiok klsje up jurjeju	2	1	3
Yoh HKLukdah ehsh yohk ryat y hkyo	4	3	2
Jioj oiuoij sere oiujnkluu sedreaw	3	3	4
Total (**Max of 35 points per alternative**)	26	19	17

Please score each of the above concepts for each of the criteria based on the following scoring table:

Scoring Key

5 points = Exceeds the criterion

4 points = Meets the criterion completely

3 points = Mostly meets the criterion

2 points = Mostly doesn't meet the criterion

1 point = Completely fails to meet the criterion