



Federal

Tacoma

Dome

Way

Puyallup

Auburn

Sumner

Bonney Lake

Tacoma

TCC

Lakewood

DuPon



Regional Express Service Central Puget Sound 47M rides in 2017

- Link light rail
- Sounder Commuter train
- ST Express buses
- 54 Cities
- 3 Counties
- 55+ facilities



Energy background

- WA
- 4 Energy Utilities
- Kwh Consumption
- Cost
- Agency Charter
- Utility agreements

Regulated energy market

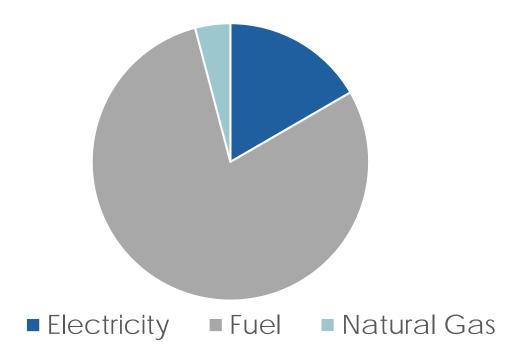
- 1 private, 3 PUDs
- 53M kwh annually
 - \$4.5M annually
 - NO RECs or offsets

TBD



GHG Emissions

2017 ST sources of GHG Emissions





GHG Reduction Goals

2011/15 Sustainability Plans Carbon neutral electricity by 2030

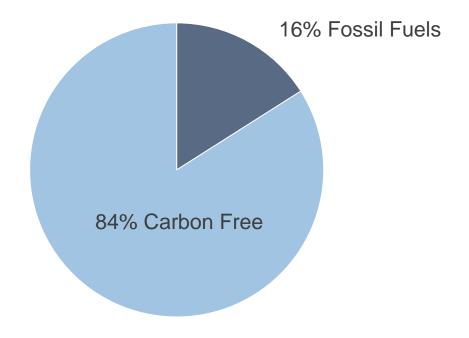
2016 ST3 Plan Affirmed agency GHG reduction commitments

Regional Context

- City of Seattle Gov't & community carbon neutral by 2050
- King County county operations carbon neutral by 2025
- WA State 1990 levels by 2020; 20% below 1990 by 2035



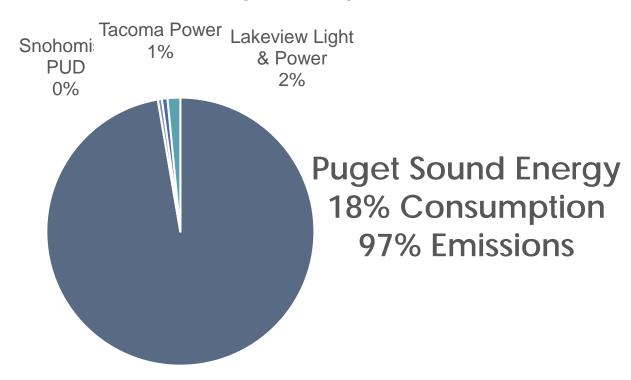
Energy Sources for Electricity



Energy Sources of ST Electricity



Electricity GHG Emissions by Utility





Solution?

- Become our own utility district?
- Purchase directly from BPA?
- Onsite solar generation?
- Negotiate new products with PSE?

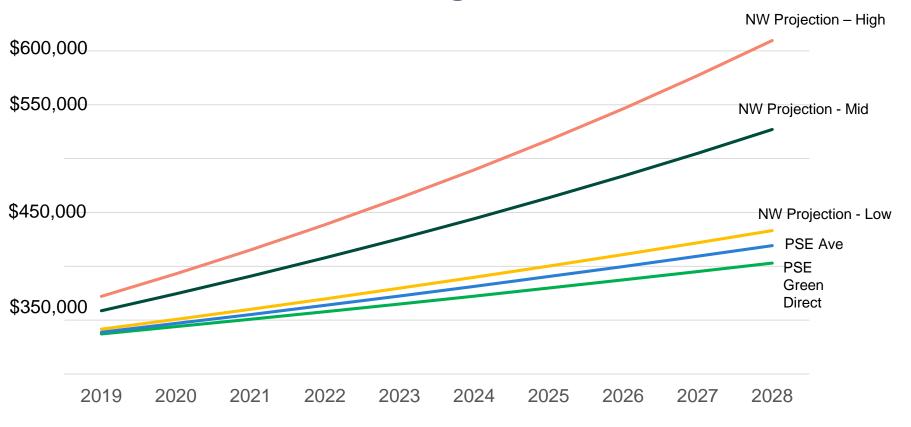




- A 2017 Puget Sound Energy sponsored Power Purchase Agreement (PPA)
- Approved by WA Utilities and Transportation Commission
- Interest = project scoped
- Local wind energy by 2019
- Long-term contracts 10/15/20 years
- Fixed rate increase 2%
- Only enroll existing accounts



Cost Power Purchase Agreement





Benefits

Enrolled 6 accounts - 10M kwh

- Reduce 68% of agency GHGs from electricity
- No energy security or O&M impact
- No capital cost
- "Immediate" online by 2019
- Not part of RPS truly "additional"



Green Direct

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Carbon Free light rail

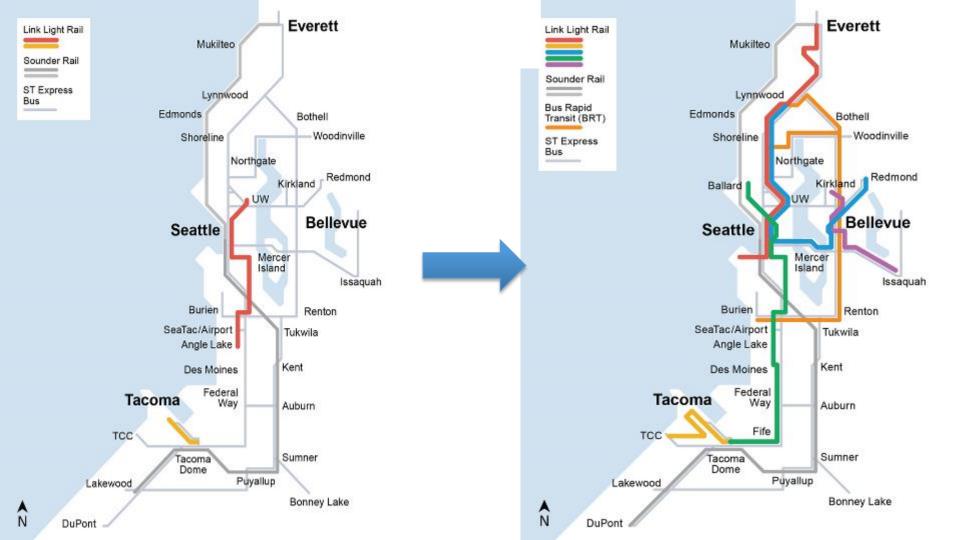


Context Terminology



Context Terminology

	PSE PPA	City Light
Renewable	✓	×
Carbon Neutral	×	✓





Feasibility Pathways to zero carbon

Electricity Conservation

Onsite Renewables

Utility Agreements



Update - Green Direct Phase 2

- 2018 Offering
- Solar project online by 2021
- Phase 1 discount
- 5% below commercial rates
- Enroll 100% of remaining PSE accounts
- Reduce electricity GHG emissions by 97%
- Renewed attention on reducing fleet GHG emissions

