

PSE Green Direct program authorization
Operations Committee
1/5/2017

SOUNDTRANSIT

Overview PSE - Green Direct program

- **Recommend authorization to participate**
- Power purchase agreement = Direct purchase of wind power for fixed rate over 10 years
- No impact on energy security or O&M
- Commit in 2017 – Product online 2019
- Enrolling PSE Link accounts = light rail runs on 100% renewable energy 2019-2022



Skookumchuck Wind Energy project area 52 wind turbines planned



Alignment ST's GHG reduction mandate

2007 Board Resolution

Sustainability will be integrated into all aspects of agency business

2011 & 2015 Sustainability Plan – Board Approved

GHG emissions reduction and carbon neutrality goals – by 2030:

- **Facilities and all electricity are carbon-neutral**

ST3 Plan

Reaffirms agency goals

Alignment Strong regional GHG commitments

Carbon Neutrality Goals

- City of Seattle – gov't & community by 2050.
- King County – county operations by 2025.

GHG Reduction Goals

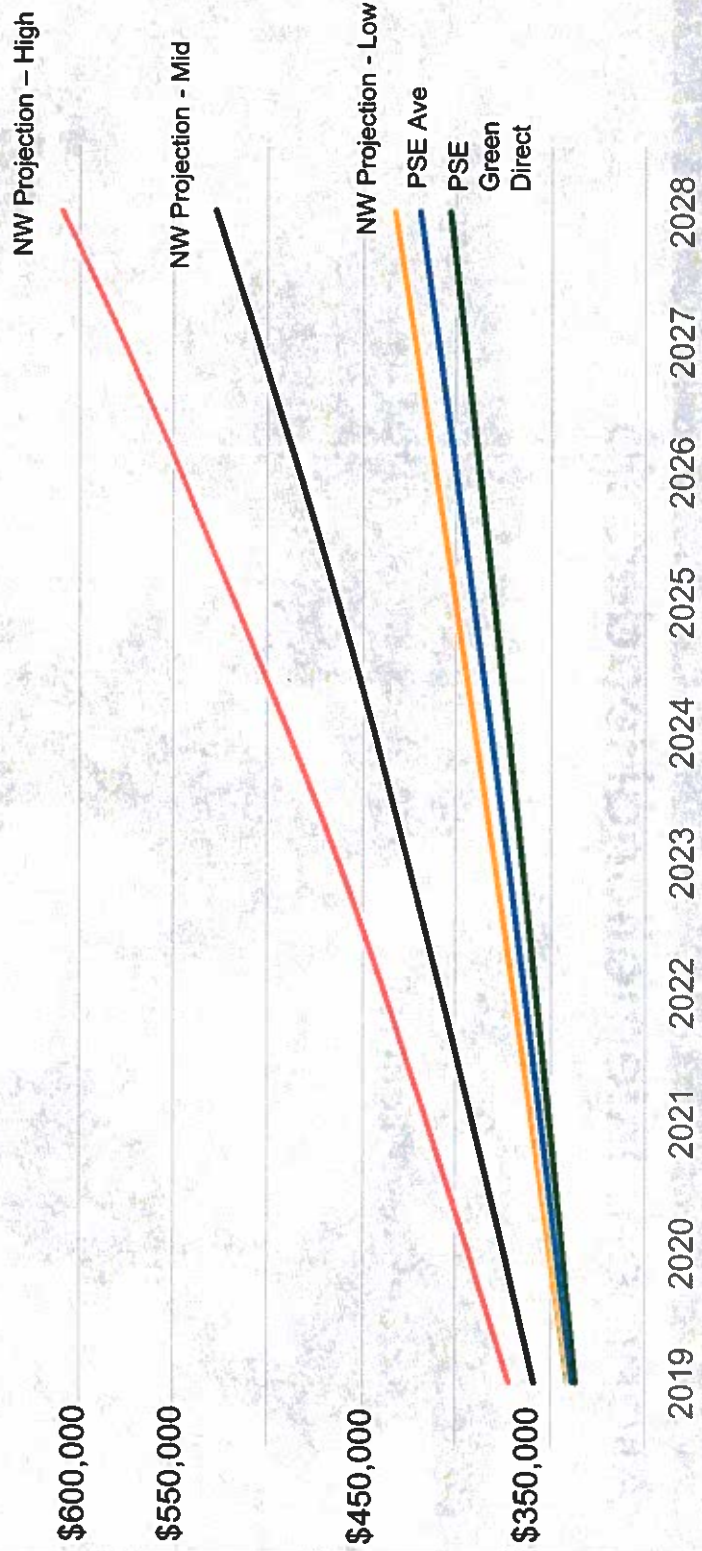
- K4C - 25% by 2020 and 50% by 2035
- WA State – 1990 levels by 2020; 20% below 1990 by 2035

Alignment International leadership



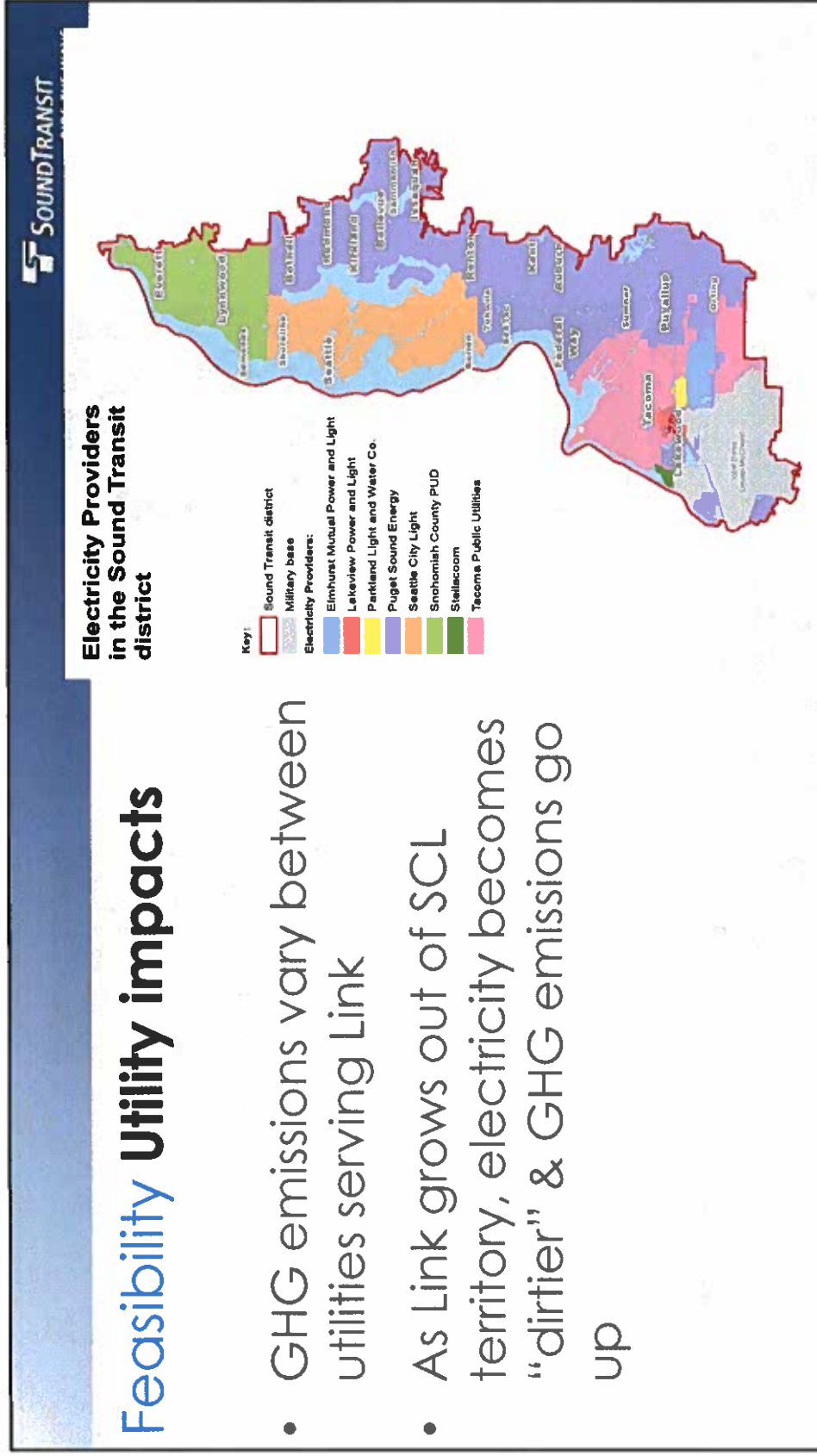


Cost Power Purchase Agreement

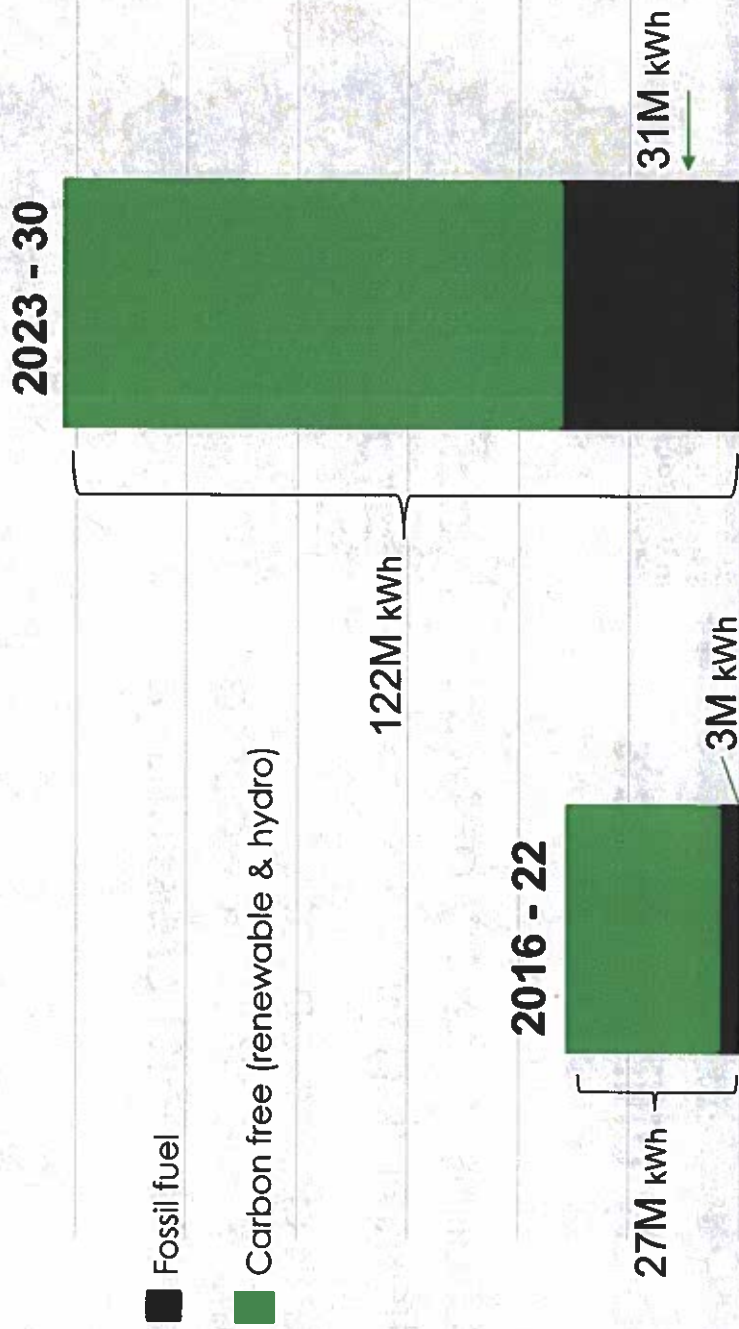


Feasibility Utility impacts

- GHG emissions vary between utilities serving Link
- As Link grows out of SCL territory, electricity becomes "dirtier" & GHG emissions go up



ST2 build out = more to offset



Feasibility Recalibrating Carbon Neutrality Strategy

- Strategy needs to address Link light rail major expansion phases
- Return to Board with long-term strategy in next 2-3 years



Feasibility Pathways to neutrality

Electricity
Conservation

Onsite
Renewables

Change
Power
Source PPA

Summary **Green Direct program**

- ✓ The right thing to do
- ✓ Aligns with Agency Mission
- ✓ Aligns with Regional Climate Leadership
 - ✓ Feasible
 - ✓ Cost-effective

