Seattle Waterfront Clean Energy Strategic Plan

SWCESP

Item No. 6k_supp
Meeting Date: June 11, 2019

Roadmap For Clean Energy Delivery System

Port of Seattle®

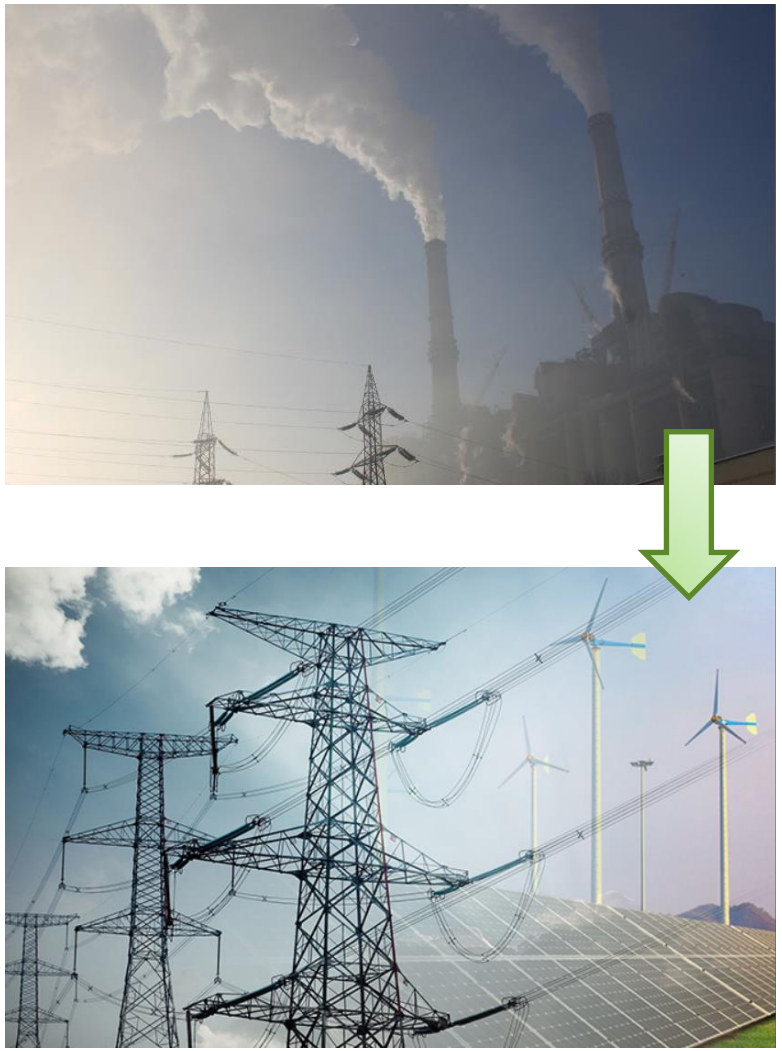
Vision




By 2050, modernize the harbor electricity grid to provide clean energy to Seattle's working waterfront to increase regional competitiveness, create jobs, improve community health, and confront climate change.

Goals

- Substitute clean energy for fossil fuels at facilities
- Define smartest investments for port-wide energy system
  - Low emission
  - Cost Effective
  - Reliable
  - Resilient



Planning Objectives

- Roadmap of infrastructure investments
- Regional technology policy
- 30 year time frame
- Shared funding sources to implement plan
- Collaborative with business, tenants, community, labor, local and state agencies

Internal and External Teams

Core Team

- Port of Seattle
- NWSA
- City of Seattle
  - Seattle City Light
  - Office of Waterfront
  - Office of Sustainability

Proposed External Partners

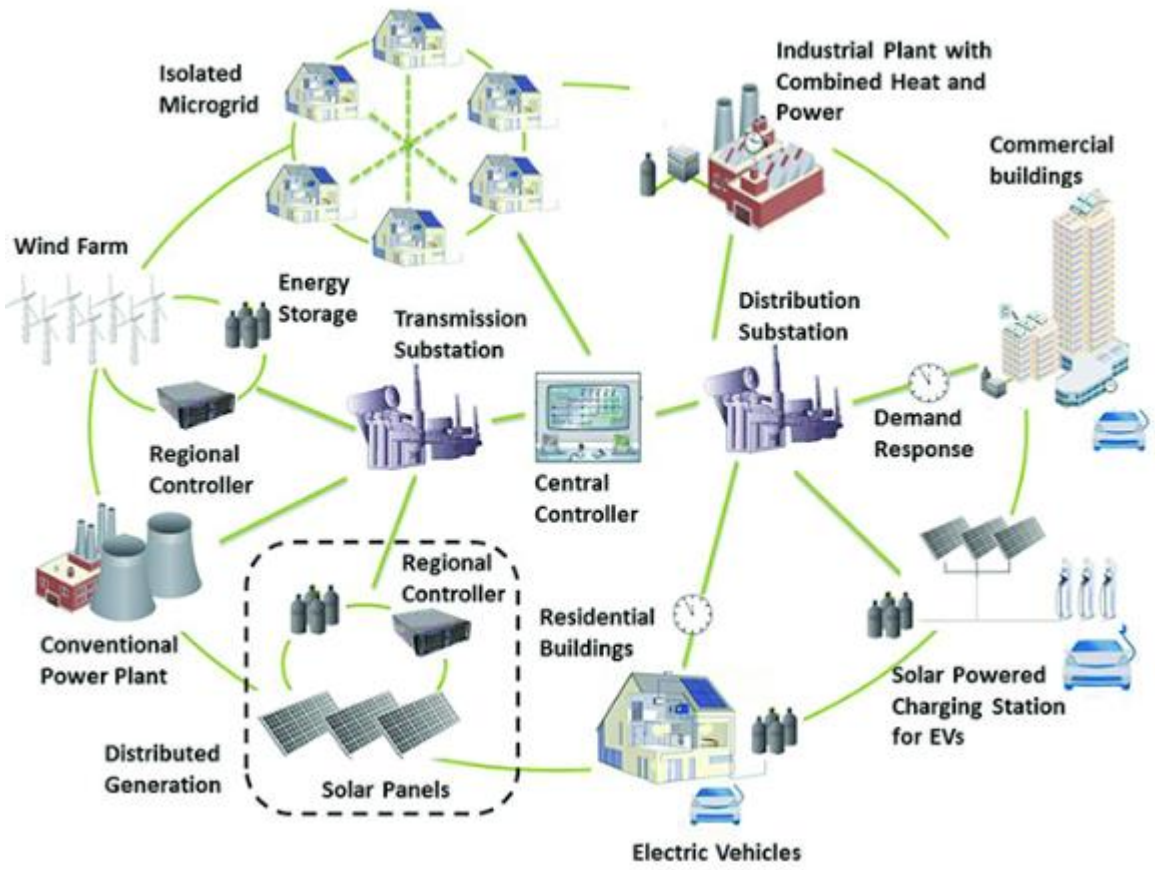
- Washington State Ferries
- Container, Cruise Tenants
- Maritime Blue
- Maritime Industry
- Harbor intensive energy users
- Labor

Port of Seattle

THE NORTHWEST SEAPORT ALLIANCE

Scope of Work Ideas

- Understand and analyze demand needs
- Explore smart and resilient grid systems
- Centralize energy distribution substation
- Upgrade power management systems
- Create innovative supply and storage solutions
- Consider Renewable on-site and off-site solutions



Visualization purpose only – graphic does not reflect actual plans. Courtesy of Georgia Tech Climate and Energy Policy Laboratory: http://www.cepl.gatech.edu/drupal/node/43

Schedule

Project Step	Estimated completion
Internal Plan Development and Consultant Scope Definition	7/1/2019
Project planning development with external groups	8/15/2019
Data Gathering	11/15/2019
Strategy Development	3/15/2020
Develop Final Report: Blueprint for Modernized Grid	8/15/2020
Adopt Technology Policy	9/1/2020

Funds

- Total Estimated project cost = $250,000
  - $50,000 from Maritime Environmental Air planning
  - $200,000 from Energy and Sustainability Committee funds
  - NWSA contribution pending
- Consultant support with expertise in energy planning, engineering and project facilitation.