

Fun Facts About SEAPA

2nd Largest Electric Transmission System in Alaska

Tyee: 3rd highest-yield hydro in Alaska

Petersburg

Wrangell

Swan Lake

Tyee Lake

Ketchikan

Services 3
Communities

2 hydro plants

175 miles of transmission

12 miles of submarine cables

175+ Giga-Watt hours/year

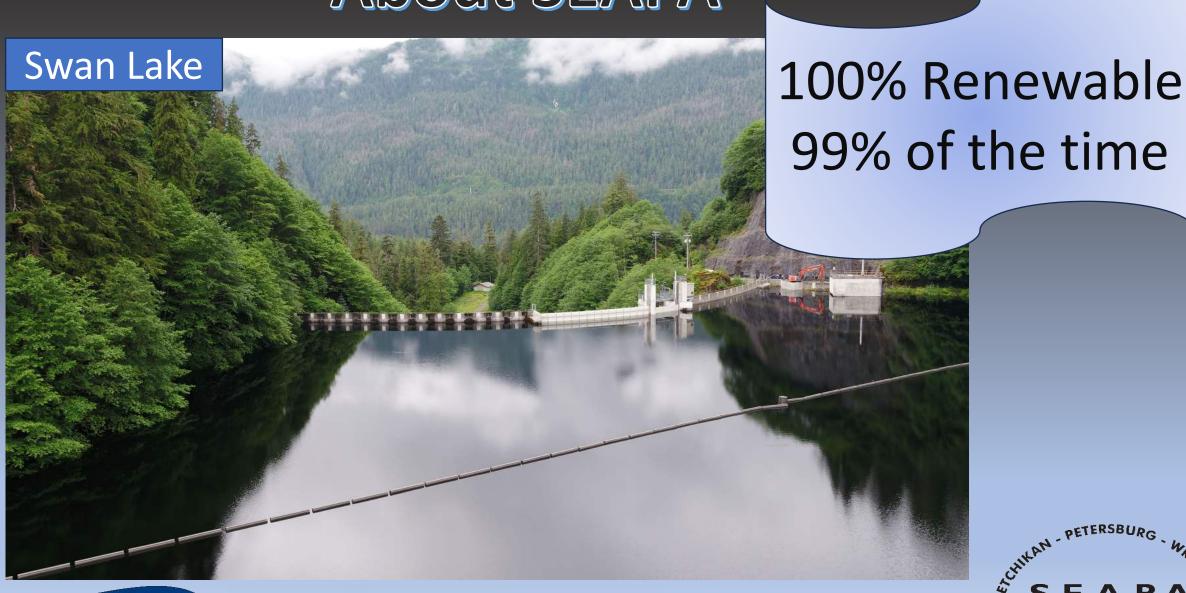
DETERSBURG

Southeast Alaska Power Agency



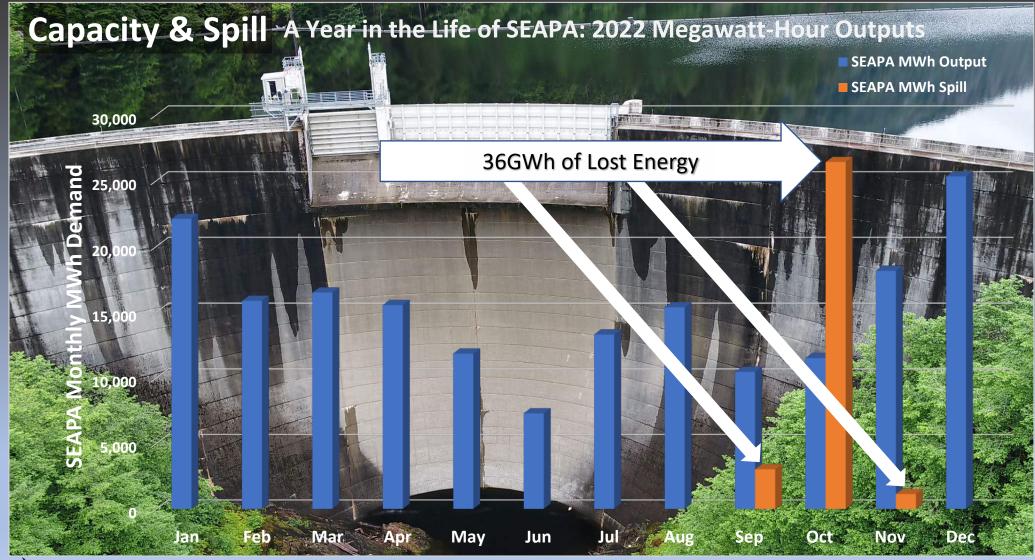


About SEAPA





Trend Analysis - Capacity



GWh Capacity is 200+GWh

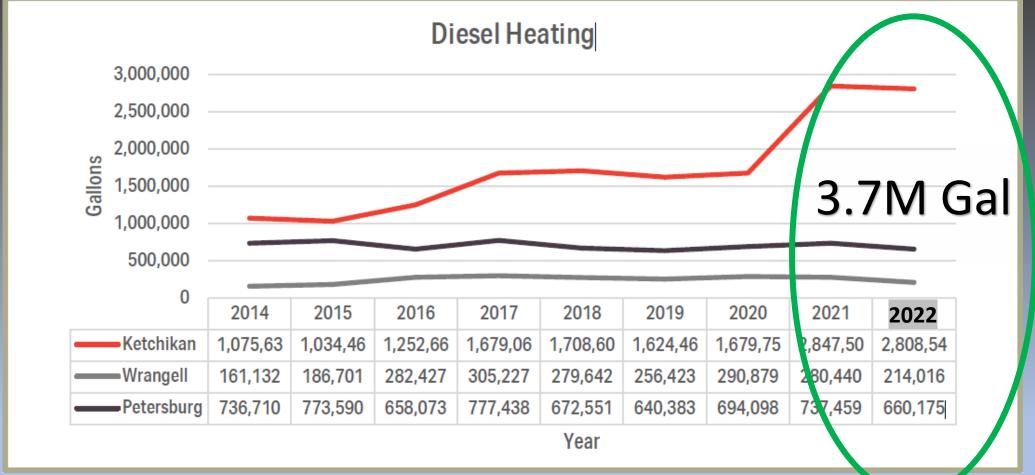
~180GWh
Dispatched in
2022

Average Spill between 20GWh – 30GWh



Southeast Alaska Power Agency

Trend Analysis - Diesel Heating







Diesel Heating Calculations

Overview

36GWh of Energy required to convert Fuel Oil Heating to Heat Pumps



36GWh spilled Energy in 2022

Existing Fuel Oil Boilers

\$4 - \$5 per gallon of Diesel Fuel Oil

Heat Pump Systems

\$1.62 per equivalent gallon of Diesel Fuel Oil





Load Growth - Horsepower





Forecasted HP Growth is 2.52%

Heat Pump conversions dock electrification and electric vehicles included

Increase MW from 48MW to 60MW (16,000HP)



New Generator at Tyee





Tyee was built with provisions for another generator

Increase Tyee HP by 50%

Increase SEAPA HP by 25%

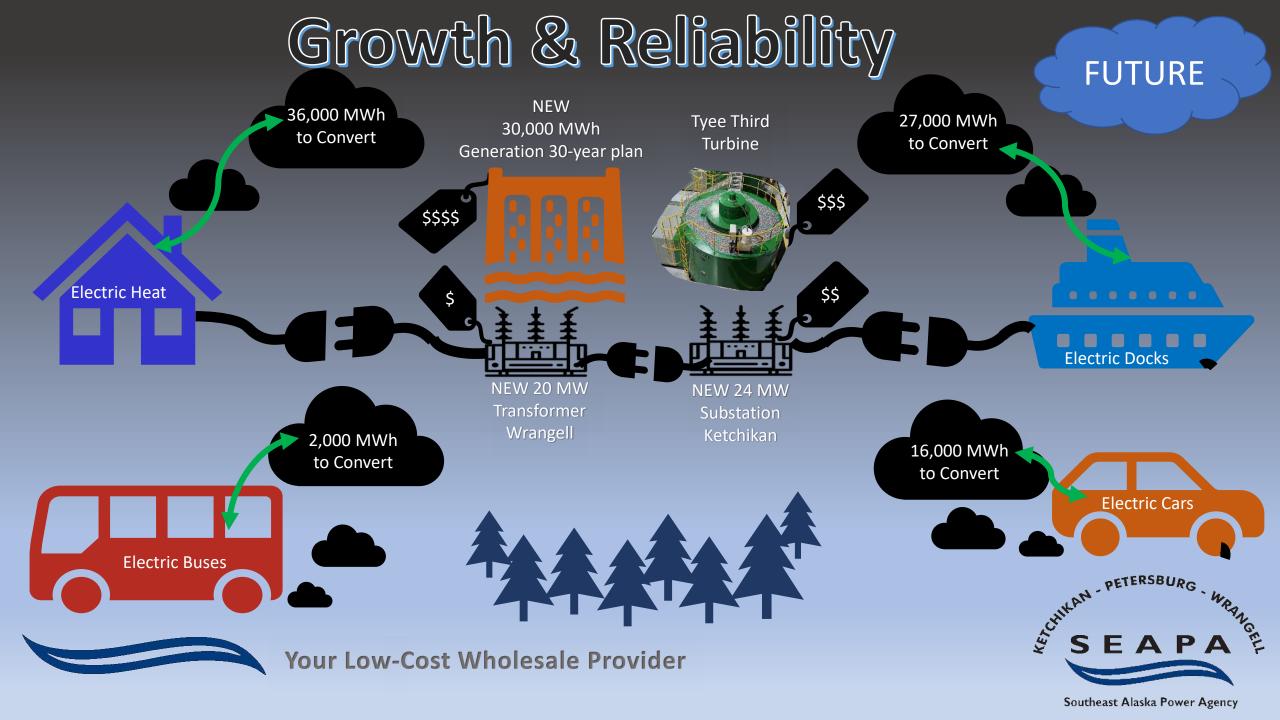
Increase Contingency

Increase Resiliency

Low Hanging Fruit







Questions/Discussion



