PORT OF BELLINGHAM

Developing a Thermal Energy Network

2025 PORT COMMISSION



Bobby Briscoe



Ken Bell



Michael Shepard

Promote sustainable economic development, optimize transportation gateways, and manage publicly owned land and facilities to the benefit of Whatcom County

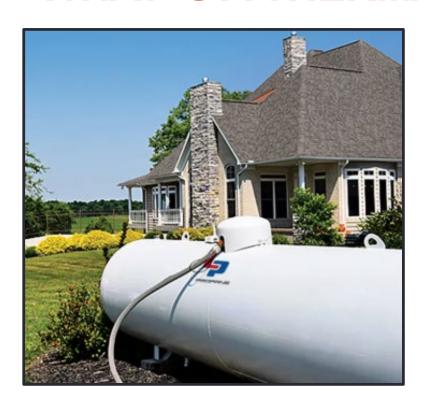
Gov. Ferguson Signs HB1514 to Law (5/13/2025)



GOVERNOR BOB FERGUSON
WASHINGTON STATE
GOVERNOR FERGUSON BILL SIGNING

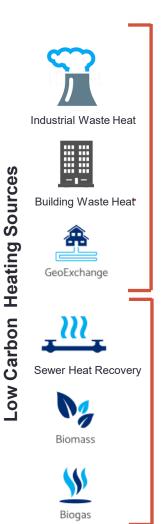


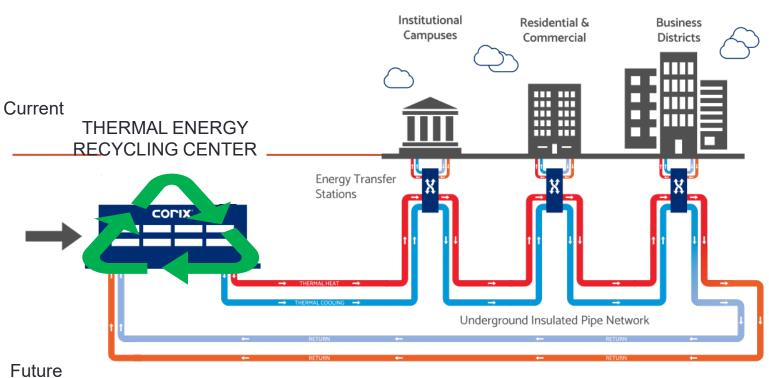
WHAT IS A THERMAL ENERGY NETWORK?



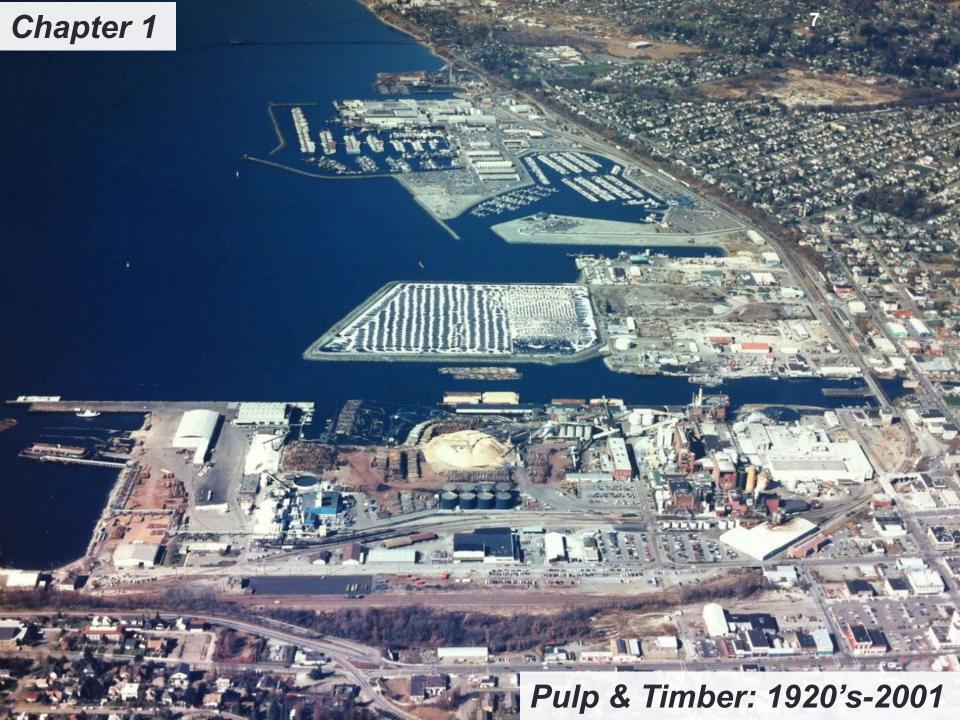


WHAT IS A THERMAL ENERGY NETWORK?





- MASSIVE SCALE HEAT RECYCLING
- ABLE TO CHANGE HEAT SOURCE





- 165 MW Co-Generation Electricity Plant
- Burns Natural Gas, Sells Steam & Hot Water to GP for Pulp Mill
- Sells Surplus Electricity

WEDNESDAY, SEPTEMBER 24, 2003

LOCAL & STATE

Inside

THE BELLINGHAM HE

G-P Closes Pulp Mill

March 30, 2001

Georgia-Pacific Corp. today announced it will permanently close its already-idled pulp mill and associated chemical plant at Bellingham, Wash., following a review of their long-term viability. Those operations have been temporarily closed since December due to high electric power costs.

The adjoining tissue paper and converting facilities Bellingham will continue operating with temporary electric generators while Georgia-Pacific searches the continuing



Georgia-Pacific is set to permanently close its Bellingham pulp mill

affordable electric power. The tissue operations will be included in for other sources integration

analysis Georgia-Pacific and former Fort James operations as the company seeks to maximize

synergies across consumer products manufacturing system. The tissue paper and

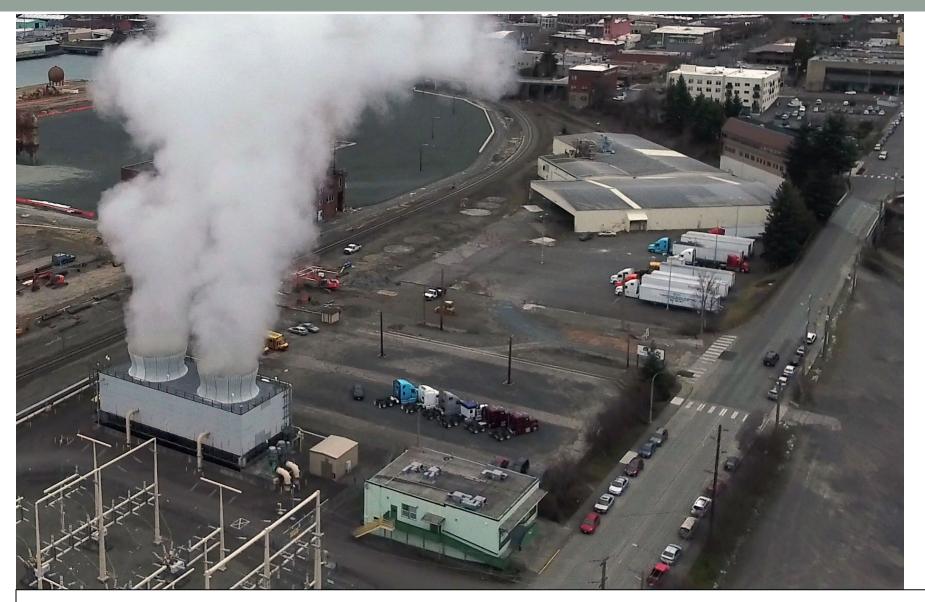
converting operations have been powered by temporary generators since January.

Waterfront Futures Group (2002-2004)

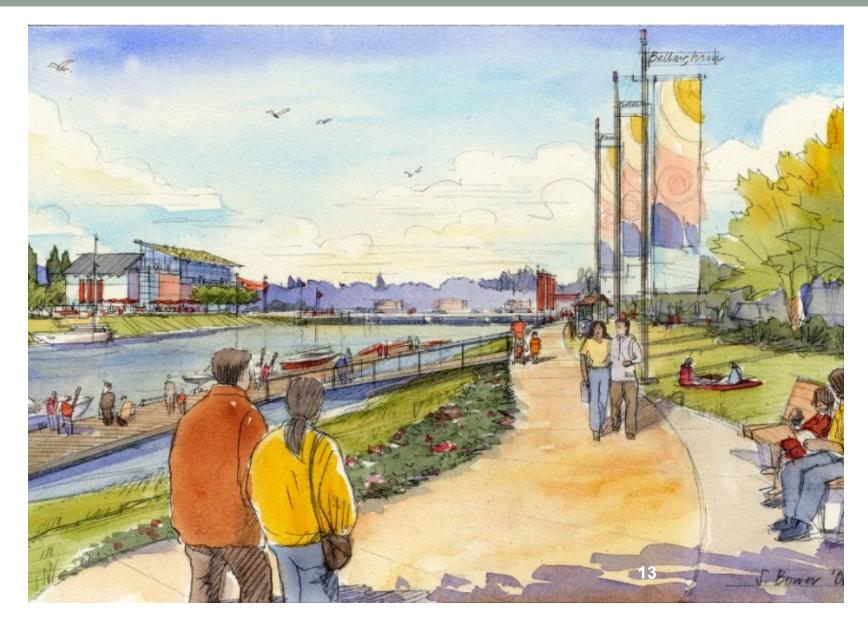
- Rebuild the Waterfront Economy
- Restore the Health of Land and Water
- Improve Public Access to Water
- Vibrant, Mixed-Use
 Waterfront







- Enough Waste Heat to Supply the Entire City of Bellingham
- Reduce, Reuse, Recycle



Waterfront Master Planning

District Energy Feasibility

- Will Puget Sound Energy allow us to use the waste heat?
- How much to install the infrastructure?
- How much will waste heat cost residents?
- Do private developers want this?
- Where else has it been done?
- Who will be the utility provider?
- What if the PSE closes its Encogen Plant?
- Is District Energy a market differentiator?
- Economic Development opportunities?

Developers hate uncertainty! Do good staff work, form partnerships, keep your Commission informed and keep the dream alive!!

Hedging Our Bets (2013)





A D2 Group, L.L.C. Architectural Illustration

Sub-Area Plan

Development Regulations

"If District Energy is available, you shall connect"







2020: Infrastructure Agreement with Corix Utilities

Oh No!

- City Permitting
- TEN's Not Regulated, Independent Ratepayer Panel
- Clean Energy Transformation Act (CETA) WA
 - All Public Utilities Carbon Neutral by 2030, 100% renewable by 2045
 - Long-term viability of waste heat from PSE Encogen Plant
- 2021 Washington State Energy Code Bans fossil fuels and electric resistance heating in new commercial/residential buildings
 - Effectively prohibits new construction from connecting to primarily fossil fuel powered District Energy systems.
 - Provides new definition for "Low Carbon District Energy Systems" and clear pathway for buildings to achieve energy code compliance with district energy.

Thermal Energy Networks, A Sequel?

- First Low Carbon District Energy System in WA
- HB 1514
- Ribbon Cutting Next Week
- Port Infrastructure Opportunities

Optimization and Expansion: Thermal Energy Networks

Strike Back

