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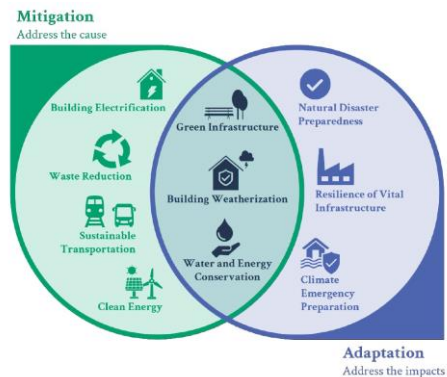
About Gig Harbor

- Originally home to the sx^wəbabč people of the Puyallup Tribe
- Incorporated in 1946
- Growth Management City
- Area: 6 ¼ sq. mi.
- 3.6 miles of Puget Sound shoreline
- Population Growth:
7,913 (2013) to 13,060 (2023)

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Gig Harbor's Climate Considerations

- Strategic Plan : Environmental Sustainability a Priority
- 2023 Climate Action Plan



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City Buildings Inventory

- City operates 30 buildings, including a boat maintenance facility and two historic netsheds
- City has one new all-electric building (<20,000 sq ft)
- City has one Tier 2 building – Civic Center



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Current Focus: Clean Buildings Performance Standard

- Review Strategic Plan Priorities
- Review Climate Action Plan
- Begin Budgeting
- Consideration of Contracting Options
 - Design/bid/build
 - Design/bid
 - Department of Enterprise Services: Energy Savings Performance Contracting
- Civic Center HVAC Feasibility Study - MacDonald Miller

Compliance deadlines

Tier 1 covered buildings reporting schedule

- **June 1, 2026** - More than 220,000 sq. ft.
- **June 1, 2027** - More than 90,000 sq. ft. and more than 220,001 sq. ft.
- **June 1, 2028** - More than 50,000 sq. ft. and more than 90,001 sq. ft.


Tier 2 covered buildings reporting schedule

- **July 1, 2027** - More than 20,000 sq. ft. and more than 50,001 sq. ft. and All Multifamily residential buildings more than 20,000 sq. ft.

SUSTAINABILITY REPORT CARD | GIG HARBOR CIVIC CENTER

MacDonald-Miller FACILITY SOLUTIONS

Your sustainability cliff notes for your building's mechanical system design & impacts. This summary supports the best system selection for your business and our planet.



BUILDING VITALS

Location: Gig Harbor, WA
 Type: Civic, Commercial
 Size: 3 buildings, 2 floors, 40,975 sq. ft.
 Year Built: 2002
 Current HVAC: Multizone unit, variable volume heat pump, with electric reheat

PROJECT SCOPE CORE VALUES

Conservation (energy)
 Conservation (water)
 Decrease embodied carbon
 Decrease operational carbon
 Health & wellness (air quality)
 Waste reduction (construction)
 Diversity & inclusion (process)
 Other: _____

WA STATE CLEAN BUILDINGS ENERGY USE INTENSITY (EUI) TARGET

Note: A project of this size is not required to meet this target at this time, however this project will be required to report annual LEED Energy Management Plan, and 6M Program by 2027.

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Futureproofing: There is a high likelihood that buildings of this size will need to comply, possibly as soon as 2029 and certainly within the next HVAC equipment's useful life.

Proposed Mechanical System (SYSTEM A):
CENTRALIZED VARIABLE REFRIGERANT FLOW (VRF)

VRF 10: Uses a heat pump to supply a refrigerant based energy recovery unit and zone level refrigerant coils. This system allows simultaneous heating and cooling of the zones using the energy recovery unit.

ENERGY FUEL MIX

- Electricity
- Natural Gas

OPERATIONAL CARBON

CURRENT

289 metric tons of CO₂e

PROPOSED SYSTEM (VRF) ANTICIPATED

143 metric tons of CO₂e

COMPARING SYSTEM OPTIONS | ANTICIPATED BASED ON CURRENT SD LEVEL DESIGN

ENERGY USE INTENSITY (EUI)	CURRENT	A: CENTRALIZED VRF	B: AIR SOURCE HEAT PUMP	C: WATER SOURCE HEAT PUMP	TBD: NET ZERO ENERGY (NZE)
Energy Use Intensity (EUI) - kBtu/sq.ft/yr	83	33	35	48	18
Carbon Impact - metric tons of CO ₂ e	289	143	155	220	112
Gas-Powered Vehicles Removed // Year compared to current system	0	32	29	15	42

*NZE: Demonstrative only. If NZE desired, mobilizing & costing would need to take place. A NZE project supplies 100% of energy needs via renewables, after intense energy reduction and using no fossil fuels.

GIG HARBOR THE MARITIME CITY

Updated: 11.08.2022

Future Focus – What's Next

- Retrofit Civic Center Solar
- EV Charging Stations
- Grant opportunities



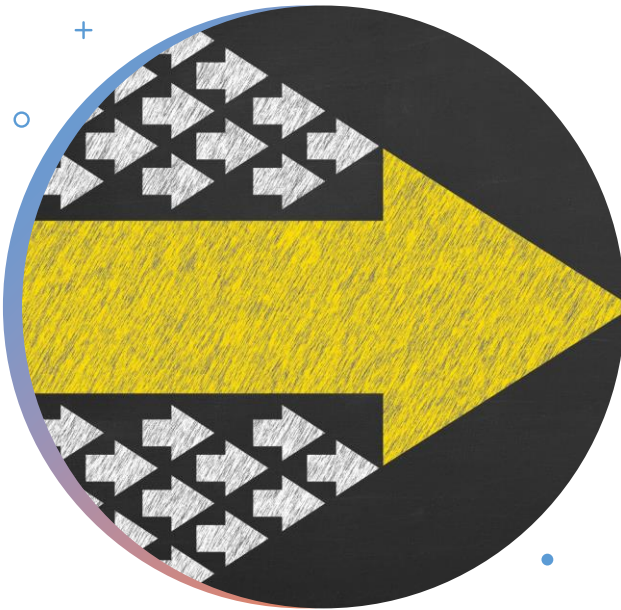
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Working with Dept. of Commerce

- Received grant funding to update comprehensive plan
- A current comprehensive plan provides for funding
- This work makes environmental and financial sense
- Next Steps for Gig Harbor: Solar panels and EV charging



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Walking the Walk – Leading the Way

- City should be the leader and trailblazer
- Look to adopted plans
- Get ahead of requirements

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THANK YOU!

QUESTIONS?

Katrina Knutson, EMPA, AICP
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