

CITY AND BOROUGH OF SITKA

A COAST GUARD CITY

MEMORANDUM

To: Sustainability Commission Members

From: Bri Gabel, Sustainability Coordinator

Date: November 25, 2025

Subject: December Work Session Materials

Background

Per the direction given at the November regular meeting, the December regular meeting session will be used as a work session to focus on <u>2025-2026 Sustainability Commission Work Plan</u>. This work session will focus on:

Goal 1: Support Sustainable Municipal Operations

- a. Update the Municipal Greenhouse Gas (GHG) Emissions Inventory and analyze progress.
- b. Identify sustainability metrics for municipal operations that align with CBS's Strategic Plan.
- **c.** Develop recommendations and necessary actions to reduce municipal emissions, such as continued support for electrification of the municipal fleet via advisory group.
- **d.** Integrate sustainability metrics into existing and near future CBS projects.

Other Helpful Documents:

Sitka 2022-2027 Strategic Plan

Sitka 2023 Greenhouse Gas Emissions Inventory Summary Table (Attached)

Sitka 2023 Greenhouse Gas Emissions Inventory Summary The full inventory is anticipated to be released early December, 2025

Building Heating		Notes	% of Total	MTCO ₂ e	Emission Source
Building Heating			27%	33,275	SCOPE 1
10,448 Feb) consumption was \$50% than st. (Jun, Jul, Aug) presumed electric. Us customized heating energy (76 MMB) is more accurate to Sitka's climate vs general and sf from assessing inform	ercise	9,975 gal used in diesel back up exercis	0.1%	102	Electricity Generation
Commercial Commercial 1,640 1,640 49% Electric, 51% Fuel Oil, likely doe account for seasonal activity Ground Transportation 4,387 Passenger Cars and SUVs Trucks, Vans, Buses 7,040 Trucks, Vans, Buses 143 1,140 1,140 2,280 2,280 2,280 2,280 2,280 2,280 2,280 2,280 2,280 2,280 2,280 2,281 1,290 2,251 1,200 1,	summer Jses a IBtu/sf) that vs AK in	Utility Bill Analysis: if avg winter (Dec, J Feb) consumption was >50% than sum (Jun, Jul, Aug) presumed electric. Uses customized heating energy (76 MMBtu/ is more accurate to Sitka's climate vs A general and sf from assessing information	8%	10,448	Building Heating
1,640		57% electric, 41% Fuel Oil, likely does a capture all of heat pumps (closer to ~30 increase in consumption)	7%	8,808	Residential
Passenger Cars and SUVs Trucks, Vans, Buses Tour Buses Public Transport ATVs Marine Activity Commercial Fishing Recreational Activity Charter Tour Buses Possage Tour Buses ATVs Mastewater Possage Atterians Activity Asserbase	oes not	49% Electric, 51% Fuel Oil, likely does account for seasonal activity	1%	1,640	Commercial
Trucks, Vans, Buses Tour Buses 143 0.1% Subsection of trucks, vans, buses Public Transport 375 0.3% Subsection of trucks, vans, buses Motorcycles, ATVs Marine Activity 18,330 14% Commercial Fishing 15,363 12% PNNL analysis, marine activity was in Scope 1 with commercial fishing clas industry and rec/charter as transported includes shipping SCOPE 3 MSW 4,440 Shipping Air Freight/Mail Air Travel Mainline 2,097 2,511 10tal vehicles 35ubsection of trucks, vans, buses 3busection of trucks, vans, buses 3cusection of trucks, va	vehicles,	2024 DMV VIN list analysis: 8,353 vehice 70% active, 1,400 mi/yr	4%	4,387	Ground Transportation
Tour Buses Public Transport 375 0.3% Subsection of trucks, vans, buses Public Transport 375 0.3% Subsection of trucks, vans, buses Motorcycles, ATVs Marine Activity 18,330 14% Commercial Fishing 15,363 12% Recreational Activity 2,256 Charter 711 0.6% Wastewater 9 0.01% EPA emission factor based on popula non-nitrifying SCOPE 3 95,399 MSW 4,440 Shipping 45,083 Barge 1,854 Air Freight/Mail 43,229 Air Travel Air Travel Motorcycles, 148 0.1% Subsection of trucks, vans, buses Subsection of trucks.	С	5,443, 5,222 gas/diesel, 221 electric	2%	2,280	
Public Transport 375 0.3% Subsection of trucks, vans, buses Motorcycles, ATVs Marine Activity 18,330 14% Commercial Fishing 15,363 12% PNNL analysis, marine activity was in Scope 1 with commercial fishing class industry and rec/charter as transported for the stransported for the		2,511 total vehicles	2%	2,097	Trucks, Vans, Buses
Marine Activity Marine Activity 18,330 14% Commercial Fishing Recreational Activity 2,256 Charter 711 0.6% Wastewater 9 0.01% EPA emission factor based on popula non-nitrifying SCOPE 3 95,399 MSW 4,440 Shipping Air Freight/Mail Air Travel Marine Activity 18,330 14% PNNL analysis, marine activity was in Scope 1 with commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as transported in the commercial fishing class industry and rec/charter as		Subsection of trucks, vans, buses	0.1%	143	Tour Buses
Marine Activity Commercial Fishing 15,363 12% Recreational Activity 2,256 Charter 711 0.6% Wastewater 9 0.01% EPA emission factor based on popula non-nitrifying SCOPE 3 95,399 MSW 3% 7,618 tons waste, 240 recycling, does include shipping Shipping 45,083 Barge 1,854 Air Freight/Mail 43,229 Air Travel Mainline 18,330 14% PNNL analysis, marine activity was in Scope 1 with commercial fishing class industry and rec/charter as transportation industry and		Subsection of trucks, vans, buses	0.3%	375	Public Transport
Commercial Fishing Recreational Activity Recreational Activity 2,256 Charter 711 0.6% Wastewater 9 0.01% EPA emission factor based on popula non-nitrifying SCOPE 3 73% 95,399 MSW 3% 7,618 tons waste, 240 recycling, does include shipping Shipping 45,083 Barge 1,854 Air Freight/Mail 43,229 Air Travel Mainline 15,363 12% PNNL analysis, marine activity was in Scope 1 with commercial fishing clas industry and rec/charter as transported industr			0.1%	148	•
Recreational Activity 2,256 Charter 711 0.6% Wastewater 9 0.01% EPA emission factor based on popular non-nitrifying SCOPE 3 95,399 MSW 3% 7,618 tons waste, 240 recycling, does include shipping Shipping 45,083 Barge 1,854 Air Freight/Mail 43,229 Air Travel Air Travel Mainline 2% Scope 1 with commercial fishing class industry and rec/charter as transported and supported industry and rec/charter as transported industry and rec/charter as transported and supported industry and rec/charter as transported industry and rec/charter as transported industry and rec/charter as transported industry and rec/charter as			14%	18,330	Marine Activity
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Charter 711 0.6% Wastewater 9 0.01% EPA emission factor based on popular non-nitrifying SCOPE 3 73% MSW 3,7,618 tons waste, 240 recycling, does include shipping Shipping 35% Includes shipping waste to WA Barge 1,854 1.54 gal diesel to move 1 ton to Sitkat tons to/from Sitka via barge Air Freight/Mail 34% 46,658 tons to/from Sitka via air, EPA emission factor Air Travel 11,804 9% 40,586 revenue passenger miles, 67/ of medium/short haul flight emission medium/short haul flight emission medium/short haul flight emission medium/short kerosene assumed			2%	2,256	Recreational Activity
SCOPE 3 95,399 MSW 4,440 Shipping Barge Air Freight/Mail Air Travel Mainline 1,854 Mainline 1,854 Monon-nitrifying 7,618 tons waste, 240 recycling, does include shipping Includes shipping waste to WA 1,618 tons waste, 240 recycling, does include shipping 1,618 1,61			0.6%		Charter
SCOPE 3 95,399 MSW 4,440 Shipping Barge Air Freight/Mail Air Travel Mainline 73% 95,399 37,618 tons waste, 240 recycling, does include shipping 1,854 1,854 1,854 1,854 43,229 Air Travel 11,804 Mainline 73% 34% 4,440 35% 1.54 gal diesel to move 1 ton to Sitkat tons to/from Sitka via barge 46,658 tons to/from Sitka via air, EPA emission factor 40,586 revenue passenger miles, 67% of medium/short haul flight emission in Mainline 6,445 5% 20% of imported kerosene assumed	ulation,	EPA emission factor based on population	0.01%	9	Wastewater
4,440include shippingShipping35%Includes shipping waste to WABarge1%1.54 gal diesel to move 1 ton to Sitkar tons to/from Sitka via bargeAir Freight/Mail34%46,658 tons to/from Sitka via air, EPA emission factorAir Travel11,8049%40,586 revenue passenger miles, 67/of medium/short haul flight emissionMainline6,4455%20% of imported kerosene assumed			73%	95,399	SCOPE 3
Barge 1,854 1.54 gal diesel to move 1 ton to Sitka tons to/from Sitka via barge Air Freight/Mail 34% 46,658 tons to/from Sitka via air, EPA emission factor Air Travel 11,804 9% 40,586 revenue passenger miles, 67/ of medium/short haul flight emission Mainline 6,445 5% 20% of imported kerosene assumed	es not	7,618 tons waste, 240 recycling, does r include shipping	3%	4,440	MSW
1,854 tons to/from Sitka via barge Air Freight/Mail 34% 46,658 tons to/from Sitka via air, EPA emission factor Air Travel 11,804 9% 40,586 revenue passenger miles, 67/ of medium/short haul flight emission Mainline 6,445 5% 20% of imported kerosene assumed		Includes shipping waste to WA	35%	45,083	Shipping
Air Travel43,229emission factorAir Travel9%40,586 revenue passenger miles, 67 of medium/short haul flight emissionMainline6,4455%20% of imported kerosene assumed	ka, 117,658	1.54 gal diesel to move 1 ton to Sitka, 1 tons to/from Sitka via barge	1%	1,854	Barge
Mainline of medium/short haul flight emission 5% 20% of imported kerosene assumed	² A ton-mile	46,658 tons to/from Sitka via air, EPA to emission factor	34%	43,229	Air Freight/Mail
Mainline 6,445 5% 20% of imported kerosene assumed		40,586 revenue passenger miles, 67/32 of medium/short haul flight emission fac	9%	11,804	Air Travel
mainline flights		20% of imported kerosene assumed to mainline flights	5%	6,445	Mainline
	4 gal)	80% of imported kerosene (657,784 ga	4%	5,359	Local
Cruise Ships 34,072 26% 4 hrs @ 53% MCR, 9 hrs @ 29% MC visits from 39 ships	1CR 333	4 hrs @ 53% MCR, 9 hrs @ 29% MCR visits from 39 ships	26%	34,072	Cruise Ships
TOTAL 128,675 100%		·	100%	128.675	TOTAL