



Fairbanks North Star Borough

DEPARTMENT OF THE ASSEMBLY
Division of Boards and Commissions

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February 27, 2023

Mayor Bryce Ward
907 Terminal Street
Fairbanks, AK 99701

2022 Sustainability Commission Annual Report

Dear Mayor Ward,

Please find attached the 2022 Annual Report and progress toward meeting Borough sustainability goals.

During CY22, the Commission prepared and submitted recommendations to reduce energy costs and meet energy security goals. Aligning with waste reduction goals, we applaud staff's hard work to ensure a smooth re-opening of the Central Recycling Facility (CRF). We will continue to identify ways to support CRF operations and waste reduction, including initiatives for a new facility through the Capital Improvement Program process. Federal funding under the Bipartisan Infrastructure Law provides a unique opportunity to reduce the financial burden on our local community, allocating \$275M for Solid Waste Infrastructure for Recycling grants.

We look forward to continuing our work towards meeting Borough sustainability goals in food security, energy security, and waste reduction for 2023. If you have any questions regarding the attached report, please reach out to us.

Sincerely,

[Sara Harriger \(Mar 6, 2023 18:04 EST\)](#)

Sara Harriger, Chair
Sustainability Commission



FNSB Sustainability Commission

907 Terminal St. Fairbanks AK 99701 (907) 459-1000

Sustainability Plan Metrics

The goals and indicators are the heart of the plan. Whereas the goals set benchmarks toward addressing issues, the indicators represent specific, measurable actions that can track progress toward meeting overarching goals and 2028 targets.

Goal	Indicator	2018 Baseline	2022 Update	2028 Target	Trend
Increase agricultural workforce	# of farmer-training programs per year ¹	1	4	2	
	# of food education programs or classes in school per year ²	8	18	12	
Increase food stocks	# of community food caches	0	0	1	
	# of days' food available on grocery store shelves	7-10	7-10*	14	
Increase food production and sales	# of farms producing food each year ³	39	27	50	
	# of cold storage facilities for local food producers	0	0	1	
	# of community-based processing and distribution facilities	0	0	1	
Increase access to local fruits and vegetables	# of community gardens per year ⁴	9	10	20	
Reduce household energy consumption	Average annual energy usage, in MMBTUs, per home ⁵	238 (2017)	215	150	
	% of residential structures built prior to 1980 needing weatherization ⁶	40% (2017)	40%*	20%	
Reduce borough operational energy consumption	Heat (BTU/sqft)/HDD - School district facilities	3.9 (FY18)	3.80	3	
	Heat (BTU/sqft)/HDD - Other borough facilities	5.47 (FY18)	6.25	5	

Goal	Indicator	2018 Baseline	2022 Update	2028 Target	Trend
Reduce borough operational energy consumption	Electricity EUI (kWh/sqft) - School district facilities	7.44 (FY18)	6.07	5	
	Electricity EUI (kWh/sqft) - Other borough facilities	12.19 (FY18)	9.51	9	
	Combined EUI (BTU/sqft)/HDD - School district facilities	5.87	5.34	—	
	Combined EUI (BTU/sqft)/HDD - Other borough facilities	8.58	8.66	—	
Reduce CO2e Emissions	# of members in GVEA Sustainable Natural Alternative Power Programs (SNAP & SNAP Plus)	240	709	500	
	# of short tons of CO2e emissions per MWh per year by GVEA (GVEA 2030 Goal is 0.66)	0.87 (2017)	0.98* (2021)	0.68	
	% of GVEA energy by MWh from renewables on an annual basis	10% (2017)	8.5%	30%	
	# of total tons on CO2e emissions from all sources per borough resident per year (US per capita avg was 15.8 in 2017)	38.6 (2007)	38.6*	20	
	# of buildings with a renewable energy system - School district buildings	2 (FY18)	3 (FY22)	10	
	# of buildings with a renewable energy system - other borough buildings	1 (FY18)	1 (FY22)	10	
Divert waste from the landfill	% of municipal solid waste diverted from the landfill per fiscal year by weight	0.7% (FY18)	0.8% (FY22)	10%	
	Pounds of office paper and newspaper accepted baled and recycled as office paper, rather than as mixed paper, by the CRF per fiscal year	0 (FY18)	0 (FY22)	100,000	
	Pounds of waste generated per resident per day (US avg. was 4.51 in 2017) ⁷	5.75 (FY18)	6.02 (FY22)	4.5	
	# of students participating in recycling education programs or classes in the FNSB school district	?	1,455* (2019)	10,000	

* New information unavailable

Notes:

1. Calypso Farm and Ecology Center offered farmer training apprenticeships, a two-week short farming intensive training, and partnered to offer Indigenous agriculture training (3). AFFECT Community Farm offered their first

Farmer Training Program (1) in 2022, occurring over six months, with 16 on-site visits, 23 classroom sessions, and five graduates.

2. Fairbanks Soil and Water Conservation District has online resources available to educators on their Alaska Agriculture in the Classroom (AITC) page. Programs offered include, Bushel Basket reading event (1), After School Programs: Agriculture in the Classroom and Gardening (2), and various online curriculum available to K-12 educators. In the FNSB-School District Elementary School Parents Guide to Elementary School Curriculum no food education programs or classes were referenced. However, Barnett Magnet School had curriculum listed online in the Explore Class Catalogue, offering Positive Energy and Culture Games & Cuisine (2). The catalogue noted that due to staffing shortages, some courses were not offered (i.e., The Focus on Cooking and Nutrition class previously offered was not available for the 2022/2023 school year). The District Middle School Course Catalog offered Family and Consumer Sciences I and Family and Consumer Science Enrichment (2). The District High School Course Catalog offered Nutrition in Healthcare, Catering and Food Production 1A, Catering and Food Production 1B, Culinary Arts 1A, Culinary Arts 1B, ProStart 1A, ProStart 1B, ProStart 2A, ProStart 2B, Natural Resources: Biology, Marine Biology, (11).
3. Data sourced from FEDC Interior Agriculture Map. Note: 2018 data included non-food producing farms. 2021 and 2022 data has been amended to include food producing farms only.
4. Data sourced from AFFECT, FEDC Interior Agriculture Map, Calypso Farm, and FNSB Libraries.
5. Data sourced from Alaska Housing Finance Corporation.
6. Data sourced from 2017 Alaska Housing Assessment by Alaska Housing Finance Corporation.
7. Source: Annual Solid Waste Report, under the Additional Information Section for FY22. Calculated based on material analysis reports from the Solid Waste Landfill divided by borough population.