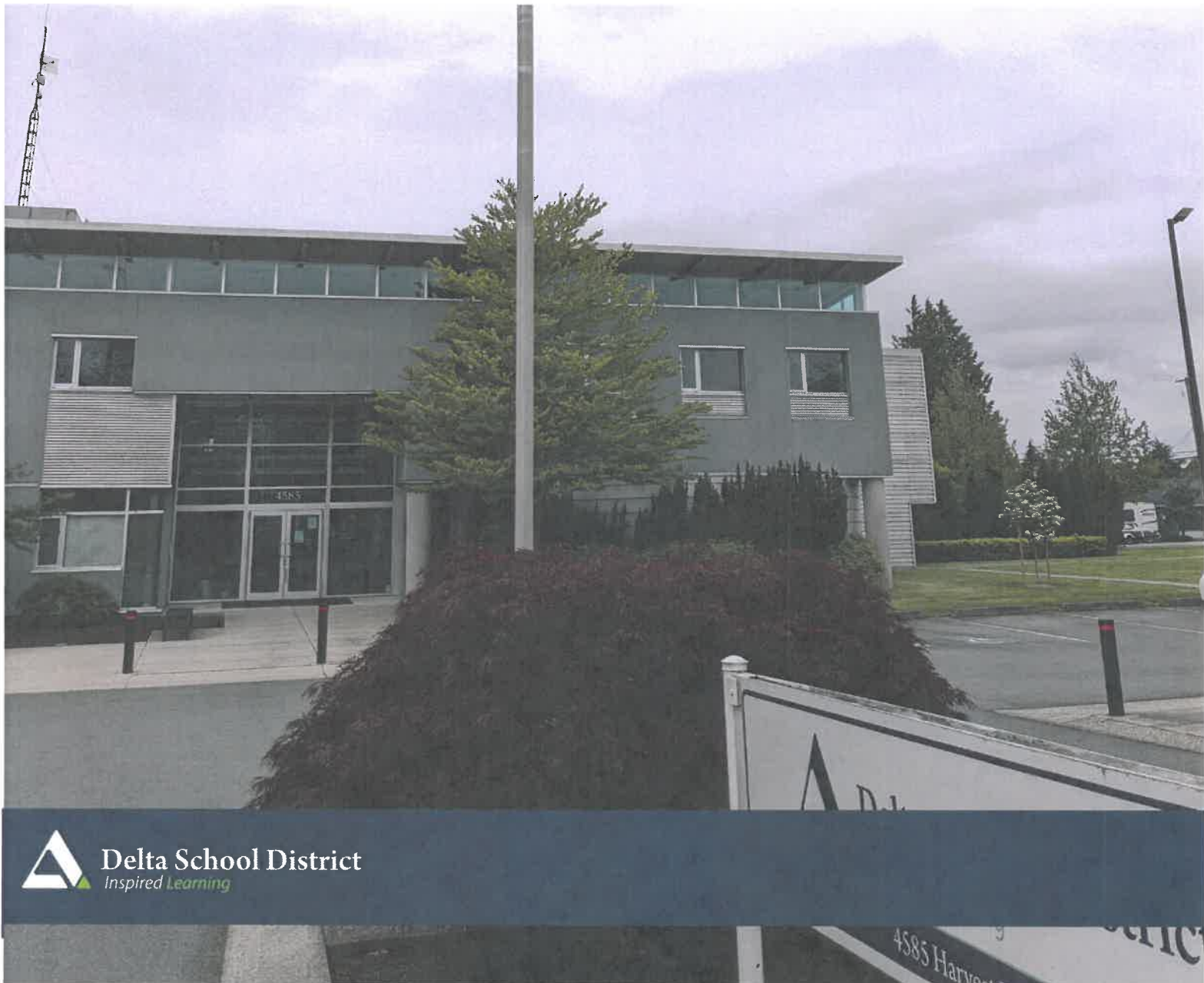




2025 DELTA SCHOOL DISTRICT CLIMATE CHANGE ACCOUNTABILITY REPORT



EXECUTIVE SUMMARY

In almost every decision that we make, reducing emissions and conserving our environment is at the forefront. We are constantly looking for any chance that we have to reduce our consumption of natural gas, electricity, and water while still providing a safe, clean, healthy, and functional learning environment. Budget constraints and working with the existing equipment in our facilities limit what we are able to accomplish, but there were still opportunities in 2025 and more opportunities moving forward to reduce our emissions.

During 2025, the Delta School District produced a total of 2,870 tonnes of CO₂e, 2,194 tonnes (76.5%) of that came from burning natural gas for heating. The Delta School District has paid \$71,750.00 plus GST, for 2,870 tonnes of CO₂e offsets, to claim carbon neutrality for 2025 CO₂e emissions.

Carbon Emissions of 2,870 tonnes of CO₂e in 2025, resulted in a 24.03% reduction from the 4,061 tonnes of CO₂e produced in 2010.

Emissions reduction measures in 2025 included:

- Sands Secondary GYM and Shops HVAC Upgrade (4 Units)
- DDC Controls Upgrade at Gray, North Delta, Delta Secondary and South Delta Secondary
- Flat Panel LED Upgrades hallways and classrooms at Richardson
- Flat Panel LED Upgrades cafeteria, gym, hallway at North Delta Secondary
- Port Guichon High Voltage Transformer Upgrade
- Green Teams that carried out energy conservation activities.

Emissions Reduction Measures Planned for the Future (2026):

- Continue LED lighting upgrades.
- Seaquam High Voltage Transformer Upgrade
- Sands High Voltage Transformer upgrade
- Brooke and Gibson GYM HVAC Units upgrade
- Delta Secondary Chiller to Air Source Heat Pump upgrade
- Neilson Grove – BC Hydro COPT Project and VFD Upgrade Project
- Continue replacement of gas-fired Roof Top Units with dual fuel electric heat pump/ gas fired backup RTUs, to reduce natural gas consumption and cut CO₂e production.

We are pleased to present the following report outlining our continued pursuit to become carbon neutral.

Doug Sheppard,
Superintendent
of Schools

Peter McLoughlin
Director of Facilities
& Planning

Pierre Ngo, P.Eng.
Project
Manager/Energy
Manager

Dean While, P.Eng.
Mechanical Manager

CONTENTS

Executive Summary	2
ABOUT DELTA SCHOOL DISTRICT.....	4
Declaration statement	4
Compared to 2010 Baseline	4
Compared to 2024 Last year	5
Offsets Applied to Become Carbon Neutral in 2025.....	5
Emissions Reduction program	8
Journey of Carbon Reduction	8
Retrofit Projects	8
SANDS 4units gym hvac upgrade.....	8
DDC Controls upgrades at Gray, north delta, delta secondary, south delta	9
Flat Panel LED upgrades hallyways and classrooms at Richardson	10
Flat Panel LED upgrades cafeteria, gym, hallways at north delta secondary	11
port guichon high voltage transformer upgrade	12
Fleet Vehicles	13
Sustainability engagement	13
green teams	13
Plans for future	13
Replacement of Roof Top air handling units	13
Lighting Upgrades and building systems optimization.....	13
IRRIGATION UPGRADES	14

ABOUT DELTA SCHOOL DISTRICT

"The Delta Board of Education, through the Delta Green Committee, is committed to instilling in its students, staff, parents, and community an awareness of a commitment to *sustainability* by leading environmental stewardship and fostering a holistic approach towards climate change, energy optimization, waste reduction, and water conservation.

The board is committed to improving its performance in sustainability and will endeavor to conduct its operations and make decisions based upon five priorities: conservation, protection, education, regulation, and recognition.

Within the scope of Environmental Stewardship, the District will actively promote, model and advise decision making, professional learning and actions that will meet these five outcomes."

DECLARATION STATEMENT

This PSO Climate Change Accountability Report for the period January 1, 2025 to December 31, 2025 summarizes our greenhouse gas (GHG) emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2025 to reduce our GHG emissions, and our plans to continue reducing emissions in 2025 and beyond.

COMPARED TO 2010 BASELINE

In 2025, the Delta School District produced a total of 2,870 tonnes of CO₂e from all sources reported. Sources included electricity and natural gas used in buildings as well as fuel for fleet vehicles, fugitive emissions from refrigerants, and office paper consumption. This is a 29.33% reduction in Carbon Emissions from the 4,061 tonnes of CO₂e produced in 2010.

The EF emission factor updates in 2025 have impacted our organization's TCO₂e emissions calculations and offsets:

- BC's integrated grid electricity emission factor will nearly triple. This means that if we consume the same amount of integrated grid electricity in 2025 as we did in 2024, our emissions from this electricity will triple.
- Diesel and FortisBC natural gas emission factors will decrease slightly.
- Some refrigerants emission factors will decrease substantially.

COMPARED TO 2024 LAST YEAR

In comparison from last year. From 2024 purchased energy TCO_{2e} rose from 87.5 TCO_{2e} to 268 TCO_{2e} approximately 306.29% (268/87.5) a triple increase as per CCAR advisory, actual kWh from 2024 to 2025 only increased by 4.33%. CCAR explained that the 300% increase in the electrical emission factor was due to tariffs across the border and the way energy is purchased/produced so the factor had to be adjusted.

TCO _{2e}	2024	2025	Pct inc/dec
Direct Fuel Combustion	2088	2194	5.06%
Purchased Energy	87.5	268	306.29%
Mobile Energy	235	221	-5.96%
Office Paper	198	155	-21.72%
Fugitive Emm	26.2	31.4	19.85%
SubT	2,634.70	2,869.40	8.91%

	2024	2025	Pct inc/dec
Gas GJ	41,438.87	44,314.04	6.94%
Elec kWh	8,675,072.17	9,050,505.64	4.33%

Vehicles - Consumption	2024	2025	Pct inc/dec
Light Duty-Gas	29,385.66	27,949.27	-4.89%
Light Duty Truck-Gas	23,526.17	21,923.32	-6.82%
Heavy Duty Truck Gas	33,381.62	30,399.55	-8.93%
Heavy Duty Truck Diesel	4,549.37	4,525.53	-0.52%
Off Road Diesel	11,804.40	12,278.85	4.02%

OFFSETS APPLIED TO BECOME CARBON NEUTRAL IN 2025

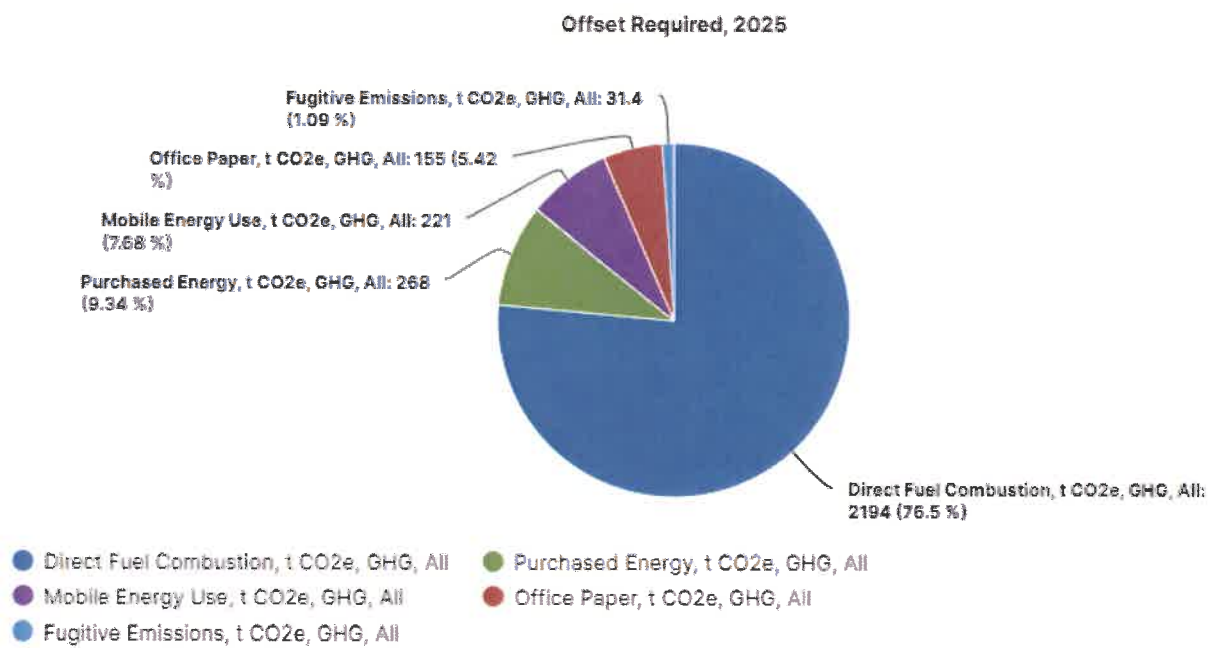
The total amount the district is required to offset for 2025 is 2,870 tonnes of CO_{2e}.

This Climate Change Accountability Report for the period January 1st, 2025 to December 31st, 2025 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2025 to reduce our greenhouse gas emissions, and our plans to continue reducing emissions in 2026 and beyond.

The Delta School District has an obligation to pay \$71,750.00 plus GST, for the offset of 2,870 tonnes of CO_{2e} to achieve carbon neutrality for 2025.

The breakdown of the emission sources, as illustrated in Figure 1, spotlights that the vast majority of the greenhouse gas emissions are created from the use of natural gas (76.5%) for the purpose of providing heat to our buildings. Fuel switching to the use of electricity to provide heating through the use of heat pumps, is the most viable way to have a serious impact on reducing carbon emissions. This will significantly increase electricity consumption, which comes at a higher monetary cost.

Figure 1



Emissions and Offsets Summary Table:

Delta School District #37 2025 GHG Emissions and Offsets Summary	
GHG emissions for the period January 1 - December 31, 2025	
Total BioCO ₂	65.3
Total Emissions (tCO ₂ e)	2935
Total Offsets (tCO ₂ e)	2870
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	0
Grand Total Offsets for the 2025 Reporting Year	
Grand Total Offsets to be Retired for 2025 Reporting Year (tCO ₂ e)	2870
Offset Investment (\$25 per tCO ₂ e)	\$71,750.00

Retirement of Offsets:

In accordance with the requirements of the Climate Change Accountability Act and Carbon Neutral Government Regulation, Delta School District #37 (**the Organization**) is responsible for arranging for the retirement of the offset's obligation reported above for the 2025 calendar year, together with any adjustments reported for past calendar years. The Organization hereby agrees that, in exchange for the Ministry of Energy and Climate Solutions (**the Ministry**) ensuring that these offsets are retired on the Organization's behalf, the Organization will pay within 30 days, the associated invoice to be issued by the Ministry in an amount equal to \$25 per tonne of offsets retired on its behalf plus GST.

Executive Sign-Off:

28 May 2026

Signature

Date

DOUG SHEPPARD

SUPERINTENDENT, DELTA SCHOOL DISTRICT #37

Name (Please Print)

Title

EMISSIONS REDUCTION PROGRAM

JOURNEY OF CARBON REDUCTION

Because of the urgency of Climate Change, investment in sustainable systems must be at the core of all renovations and new construction initiatives within the Delta School District.

For more than 20 years, the Delta School District has been striving to reduce our carbon footprint through countless projects ranging from fine-tuning equipment operation to replacing rooftop units and lighting fixtures with more energy efficient technology. In addition to hardwire replacement programs, and through our Energy Conservation Program Green Teams, the District has continued to encourage our stakeholders to practice resource conservation within schools as well as in the home.

RETROFIT PROJECTS

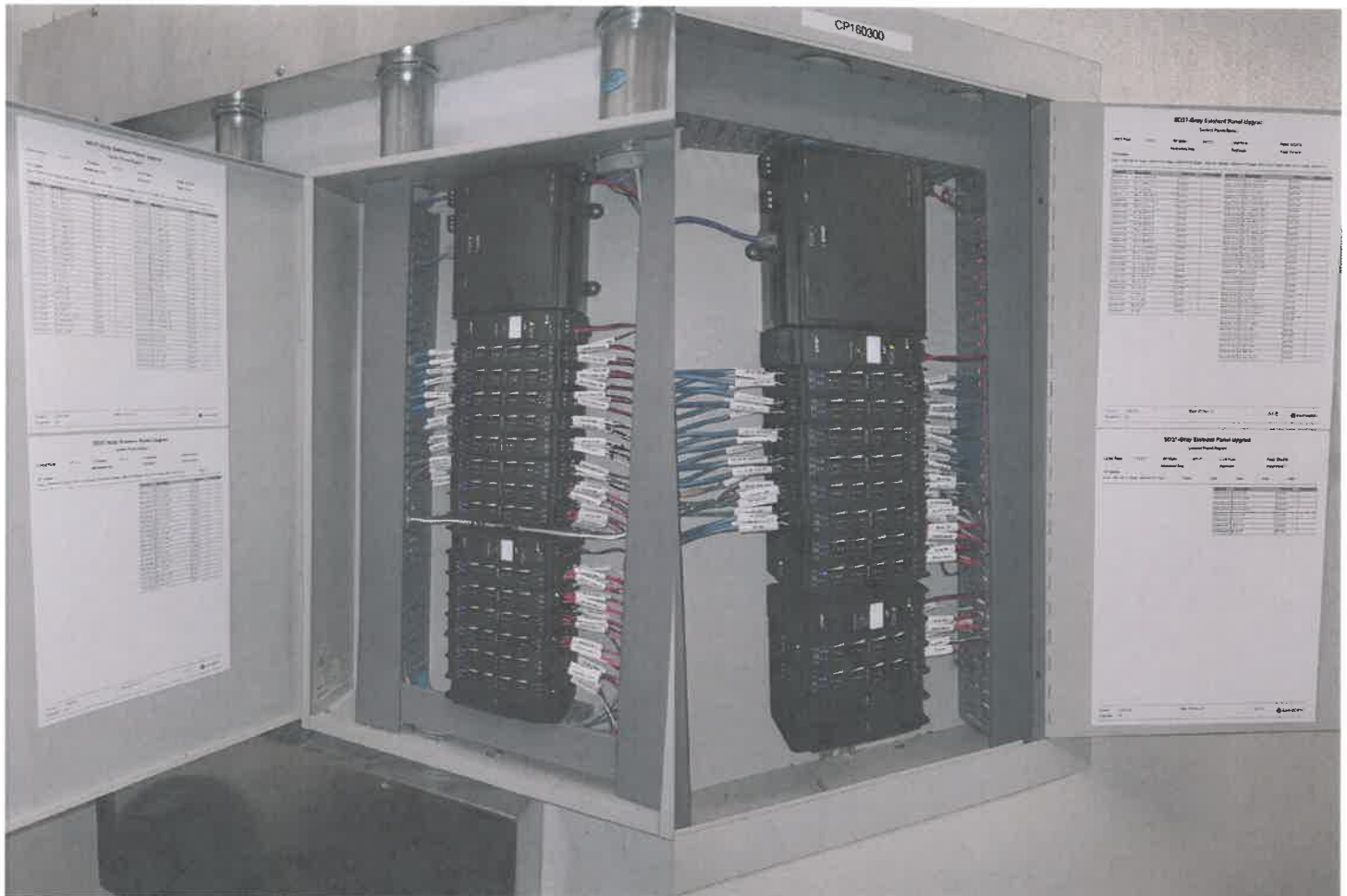
SANDS 4UNITS GYM HVAC UPGRADE

Replace 4 original indirect gas-fired rooftop HVAC equipment serving the GYM at Sands Secondary with 4 new rooftop heat pumps. These new units use electricity to heat the air delivered to these spaces rather than burning natural gas. Furthermore, the new units have the ability to cool these spaces which will make them more comfortable during the increasingly warmer spring and fall months. Note: These units are scheduled to be installed by September 2026.



DDC CONTROLS UPGRADES AT GRAY, NORTH DELTA, DELTA SECONDARY, SOUTH DELTA

Replace old antiquated 30-year-old DDC control systems with new up-to-date Delta EBMGR series DDC systems with expansion ports. Old antiquated DDC systems may fail at anytime with no current replacement parts. Implementing the upgrade ensures optimal Building and HVAC system operations.



FLAT PANEL LED UPGRADES HALLWAYS AND CLASSROOMS AT RICHARDSON

Upgrade inefficient lighting at hallways and classrooms with energy efficient LED lighting thereby providing brighter lighting while using less energy. This also reduces labour and material maintenance costs due to the longer lifespan of LED lights.

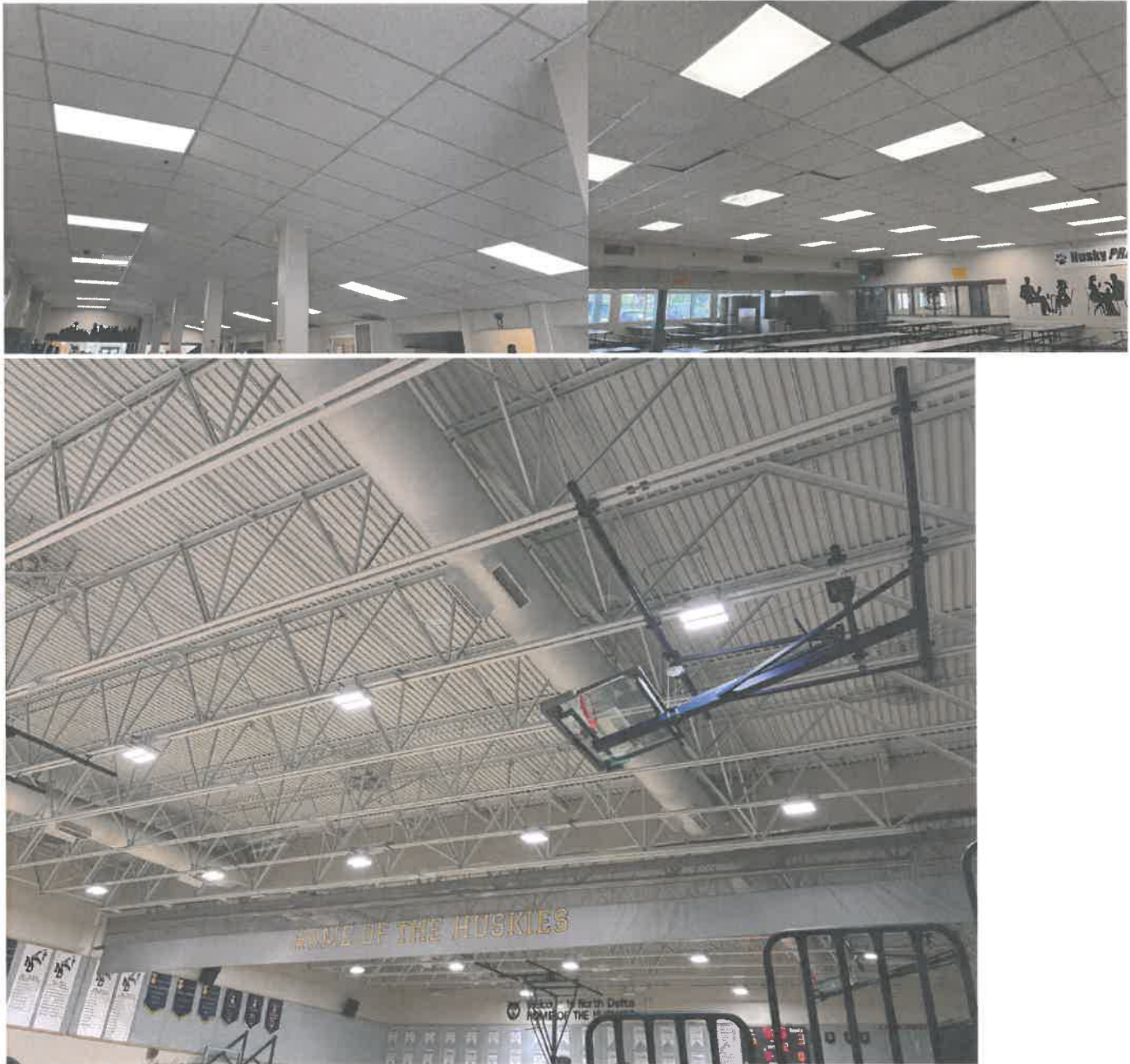
(Hallways, classrooms)



FLAT PANEL LED UPGRADES CAFETERIA, GYM, HALLWAYS AT NORTH DELTA SECONDARY

Upgrade inefficient lighting at hallways, cafeterias, gym with energy efficient LED lighting thereby providing brighter lighting while using less energy. This also reduces labour and material maintenance costs due to the longer lifespan of LED lights.

(Hallways, Cafeteria, Gym)



PORT GUICHON HIGH VOLTAGE TRANSFORMER UPGRADE

Replace old High Voltage service with new 600/347V Transformers and Electrical distribution panels.



FLEET VEHICLES

In 2023, we completed the design for our infrastructure upgrade. This design outlines the equipment and changes required to add EV chargers to our maintenance facility so we can transition our vehicle fleet from internal combustion engines to battery electric vehicles. Our next steps are to implement the infrastructure upgrades and then start purchasing some of the electric vehicles.

SUSTAINABILITY ENGAGEMENT

GREEN TEAMS

Individual school Green Teams have led a number of energy saving initiatives during 2025.

Some of the energy conservation activities the Green Teams have initiated are listed below:

- Conduct an Energy Investigation
- Organize a Holiday Shutdown
- Give a School Presentation on Earth week.
- Design a Turn Off the Lights Sticker & Plan a Lights Off Lunch

PLANS FOR FUTURE

REPLACEMENT OF ROOF TOP AIR HANDLING UNITS

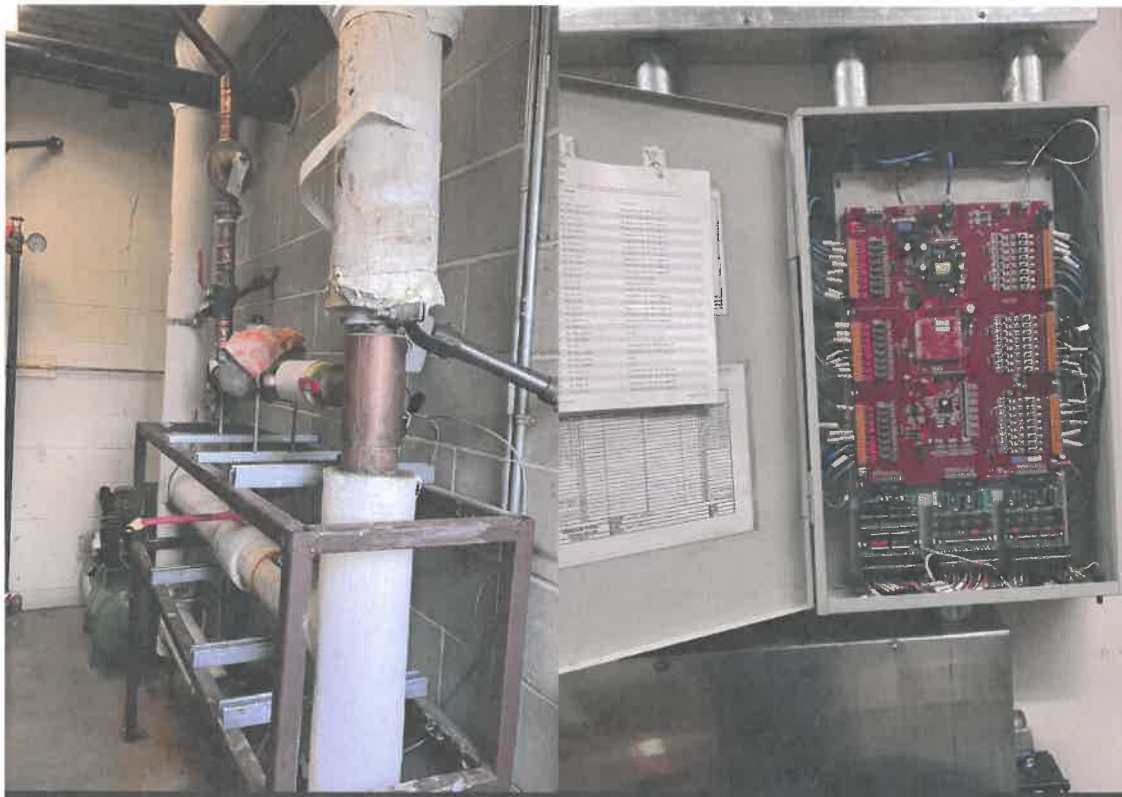
Antiquated gas fired rooftop heating units serving school gyms and classrooms will be replaced with newer technology to reduce carbon emissions, in the coming years, as funding becomes available.

LIGHTING UPGRADES AND BUILDING SYSTEMS OPTIMIZATION

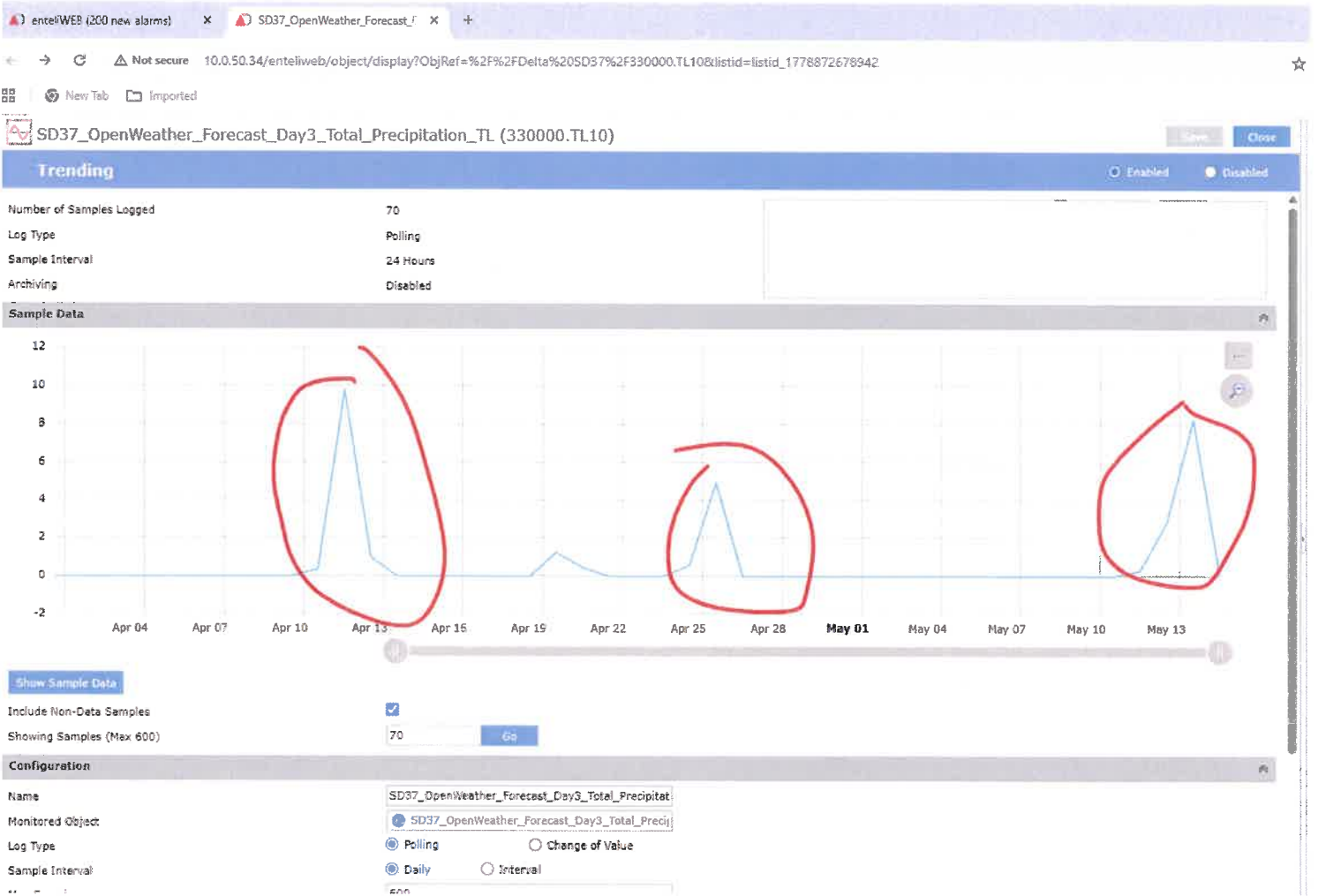
The Delta School District will continue to perform lighting upgrades to LED technology wherever feasible and continue with building systems optimization wherever opportunities are available.

IRRIGATION UPGRADES

Update the irrigation systems to incorporate weather data to reduce water consumption. This upgrade would turn the irrigation system off on rainy days.



Actual Trend Data showing recent rainfall 1,2-and 3-day prediction forecast using open weather AI data.



Actual Trend Data showing recent active irrigation valve control override using predicted rainfall data programmed on a local DDC panel interfaced to open weather data.

