

2020 PSO CLIMATE CHANGE ACCOUNTABILITY REPORT

Capilano University

DECLARATION

This Climate Change Accountability Report for the period January 1, 2020 to December 31, 2020 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2020 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2021 and beyond.

By June 30, 2021, Capilano University's final 2020 Climate Change Accountability Report will be posted to our website at www.capilanou.ca.

EMISSIONS AND OFFSET SUMMARY TABLE

Capilano University 2020 GHG Emissions and Offsets	
GHG Emissions created in Calendar Year 2020	
Total Emissions (tCO ₂ e)	1250
Total BioCO ₂	1.60
Total Offsets (tCO ₂ e)	1249
Adjustments to Offset Required GHG Emissions Reported in Prior Years	
Total Offsets Adjustment (tCO ₂ e)	-18
Grand Total Offsets for the 2020 Reporting Year	
Grand Total Offsets (tCO ₂ e) to be Retired for 2020 Reporting Year	1231
Offset Investment (\$25 per tCO ₂ e)	\$30,775

RETIREMENT OF OFFSETS

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, Capilano University (**the Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2020 calendar year, together with any adjustments reported for past calendar years (if applicable). The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy (**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:



May 27, 2021

Signature

Date

Debbie Carter

Vice-President, Finance and Administration

Name (please print)

Title

OVERVIEW

OUR VISION

In March 2020, Capilano University issued its new strategic plan, [“Envisioning 2030”](#), which lays out a vision focused on three key components: imagination, community, and distinct university experience. Sustainability and reducing our greenhouse gas footprint are a crucial part of this vision, as reflected in our key values:

- Innovation as a result of curiosity and imagination
- Commitment to Truth and Reconciliation, indigenization, and decolonizing approaches,
- Collaboration, authenticity, and belonging
- Health and well-being as a cornerstone of our culture,
- Transparency and honesty in everything we do, and
- Sustainable actions to enable a better place for our future descendants.

Capilano University is accountable to our community, with our commitment to and demonstration of environmental stewardship as an example for others within our community. Our mission statement emphasizes our commitment to the ‘establishment of policies and procedures that reflect the best standards of environmental stewardship’. This is reflected in our daily business practices, and in Envisioning 2030.

Envisioning 2030's Community Goal 2 is to *“imagine and develop sustainable actions to minimize our ecological footprint.”* Over the next few years, we will take steps to plan the **alignment of our operations with a low-carbon future**, using the CleanBC accountability framework and the requirements of the Climate Change Accountability Act. Building on this effort, we will develop a unique holistic sustainability framework, and embed that framework in decision-making so that all aspects of the university governance are examined with a sustain sustainability lens. We will also **embed sustainability and emissions reductions in our infrastructure plans**, in alignment with District University Experience Goal 5 to *“develop and implement infrastructure plans to support Envisioning 2030 in accordance with the Campus Master Plan framework and guidelines.”*



Capilano University also expects to add **environmental majors** for both the Bachelor of Science and Bachelor of Arts programs, reflecting a greater role for in the curriculum and co-curricular learning.

A UNIQUE YEAR

The global pandemic posed a unique challenge to everyone, and Capilano University was no exception. Students were sent home in March 2020, and most of our operations remained virtual for the remainder of the year. During this time, we upgraded our HVAC systems with increased ventilation rates and flushes in line with ASHRAE recommendations. While this increased the energy use of those systems, that increased demand was balanced by a reduction in run time and optimization of systems. These changes are reflected in our reduced energy use and emissions for 2020: 750,000 kWh were saved, and 2020 emissions are 14% less than 2019. While challenging, the pandemic provided the university with a resetting point, as we look towards the future and reassess our operations based on our strategic vision.

ACTIONS

Due to reduced operations in response to the pandemic, many planned actions had to be paused. However, a limited number of critical actions were completed in 2020.

Electrification of the Center for Sport and Wellness: Phase 1 of the retrofit of the center was completed in 2020, replacing natural gas heating on the west side of the building and installing a highly-efficient variable refrigerant flow system. Phase 2 involves a new heat-recovery chiller and is planned for the future.

Strategic Energy Management Plan: Capilano University also completed an update of its Strategic Energy Management Plan in partnership with BC Hydro, finalized in February 2021. The plan lays out our approach to energy management and reducing GHG emissions, as well as how the University will embed sustainability and energy considerations in decision-making.

Wildfire Smoke and Interface Fire Adaptation Plan: A consultant team developed and completed a plan for adapting to the increased risk of wildfires and management of the wildland-urban interface. This is a long-term plan designed to prepare Capilano University for drier, hotter summers and more frequent wildfire smoke "seasons. The plan is currently undergoing review.

CONTINUING TO REDUCE EMISSIONS

Campus Energy and Emissions Plan: In 2020, University developed a draft 10-year Campus Energy and Emissions Plan (CEEP), that focused on policy renewal, future infrastructure growth, energy supply and electrification opportunities. The plan aims to achieve and maintain a 50% reduction from our 2007 baseline emissions through 2030, despite planned growth of enrollment and infrastructure. The plan is currently undergoing internal review and revision, but Cap U will continue to meet and exceed provincial goals and requirements related to reducing emissions.

Renewable Electricity Supply: In 2020, Capilano University engaged with BC Hydro and consulting engineers to explore the potential of upgrading the main campus electrical service to support new buildings and the increased demand from existing buildings. Electrical demand is expected to increase due to continued electrification of heating sources, which will also reduce emissions from stationary sources. The details for this potential upgrade are still being explored.

EMISSIONS DETAILS

Figure 1: 2019 and 2020 Emissions

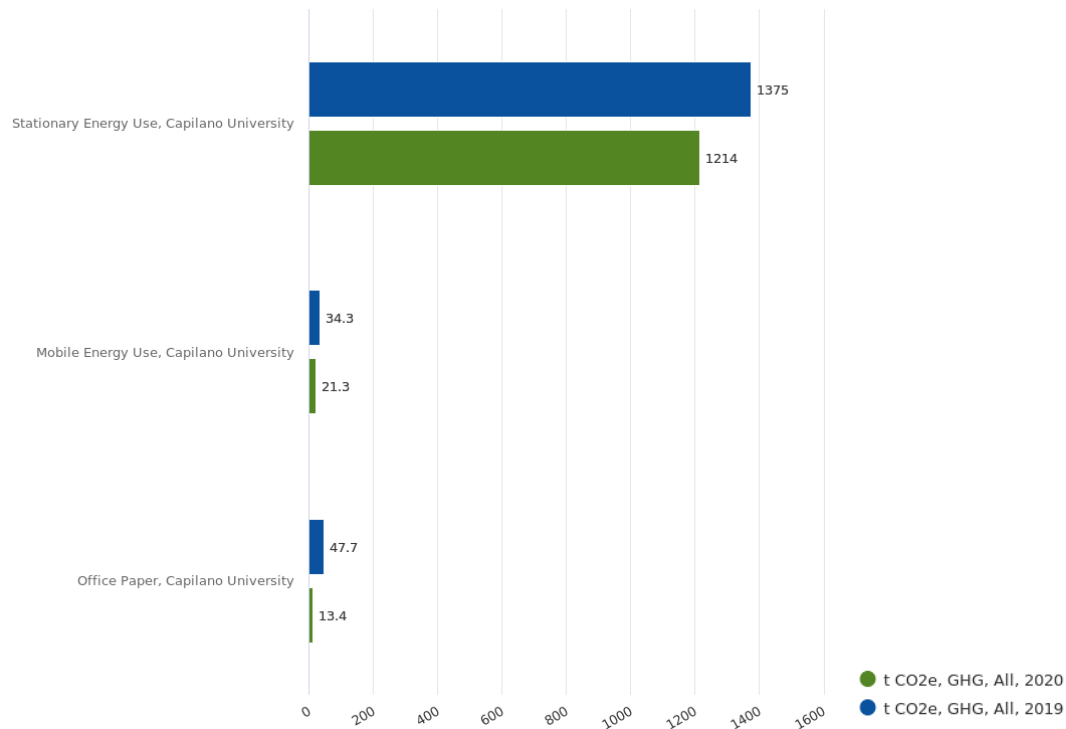
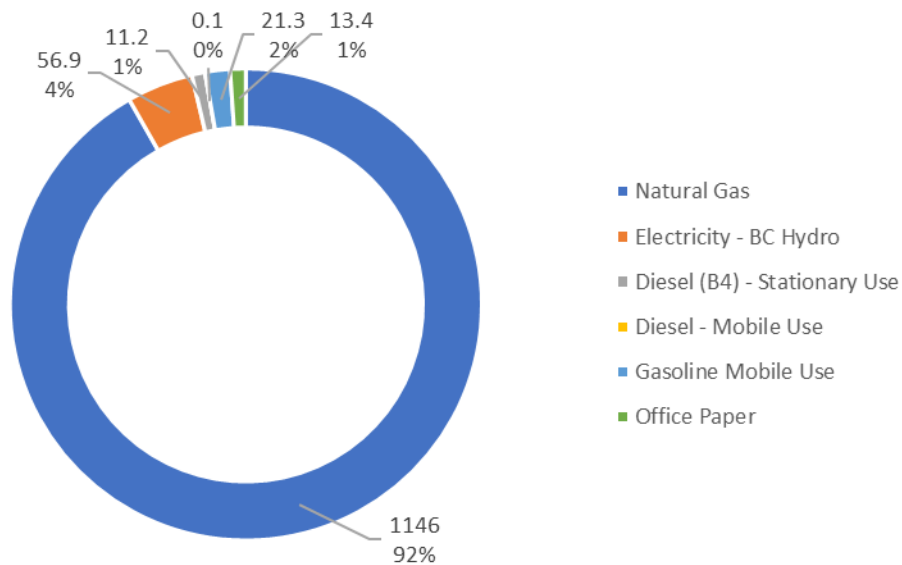


Figure 2: 2020 Emissions by Source, tCO₂e



CAPU MAIN CAMPUS
2055 Purcell Way
North Vancouver, B.C.
Canada V7J 3H5
Tel: 604 986 1911

CAPILANOU.CA

@capilanoU

