

Integration of the UN Sustainable Development Goals into the Built Environment

Nova Scotia Community College

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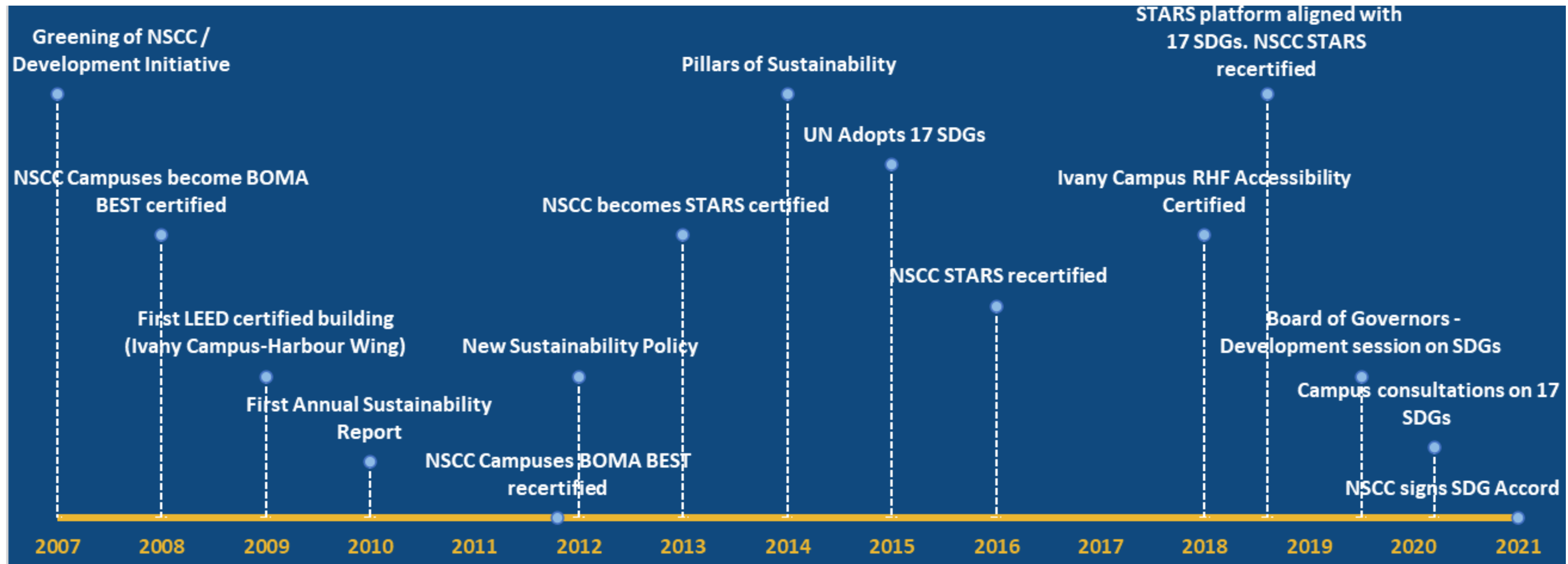


Sustainability at NSCC

- Sustainability team based in facilities
- College recently declared climate change and the integration of the UN SDGs a strategic priority
- 13 Campuses across Nova Scotia



NSCC's Sustainability Timelines



The SDG Accord

The SDG Accord is a commitment between learning institutions to do more to deliver the goals, to complete an annual report on SDG progress, and share SDG knowledge amongst signatories

We've signed - have you?

The SDG Accord

Recognising as educators, we have a responsibility to play a central and transformational role in attaining the SDGs



Sustainable Buildings

NSCC is aiming to reach LEED certification for our new buildings. Existing buildings are operated under BOMA BEST, a sustainable building operations certificate.



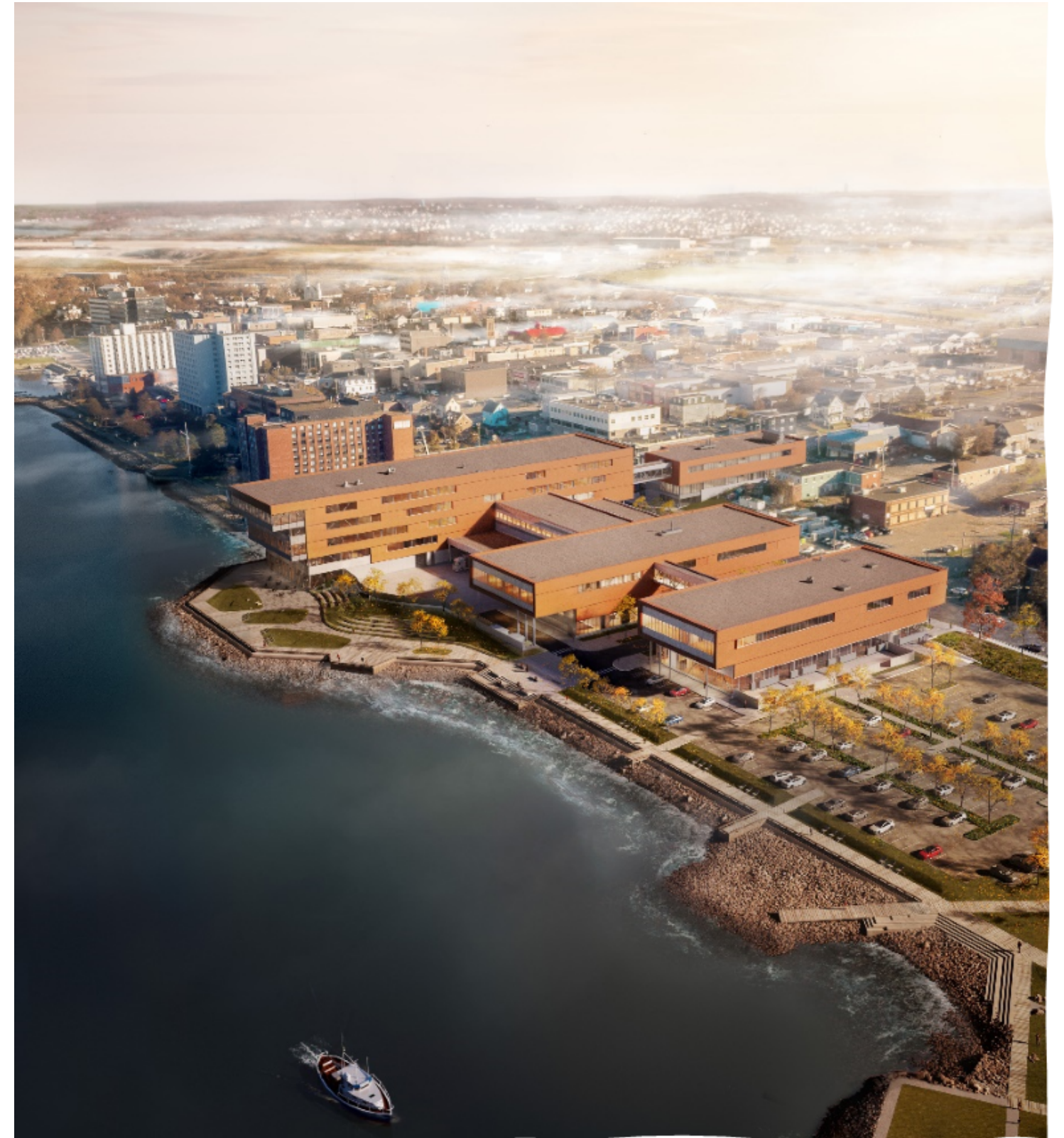
The Centre of the Built Environment
Ivany Campus
LEED Gold

New Sydney Waterfront Campus
Aiming for LEED Gold
Opening 2024



Sydney Waterfront Campus

- LEED Gold Certified
- Geothermally heated and cooled
- Net-zero ready
- Improve energy intensity
- Cultural commons & smudging room
- Traditional Mi'kmaq artisanship
- Natural lighting and building materials
- Rick Hansen Foundation Accessibility Certified



7 AFFORDABLE AND
CLEAN ENERGY



Renewable Energy Projects



Annapolis Valley- COGS

75kW capacity



Strait Area Campus

75kW capacity



Climate Change Action Plan

Key target:
Transition to
climate resilient
operations

Adaptation

Reduce the negative impacts of climate change for all Nova Scotians, while taking advantage of new opportunities.

Mitigation

Reduce or prevent the emission of greenhouse gases in a timely manner to limit the effects of climate change.

Key target:
Net-zero
emissions by
2050

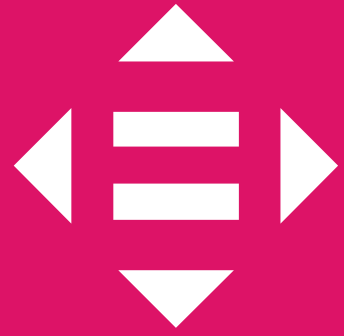
Sustainability
Team

Education

Increase the capacity for individuals to create change and economic success through the development of knowledge, attitudes, and skills.

Key target:
Increase the number of
training opportunities in
environmental sectors

10 REDUCED
INEQUALITIES



ACCESSIBILITY

Accessibility is a key consideration for reducing inequality and ensuring that all individuals have access to quality education. At NSCC we have been working to reduce physical barriers on our campuses.

NSCC set a goal to have all our campuses be Rick Hansen Foundation Accessibility Certified by 2030.





Operations- Waste Management

Avg. WDR

67%

diverted from landfill

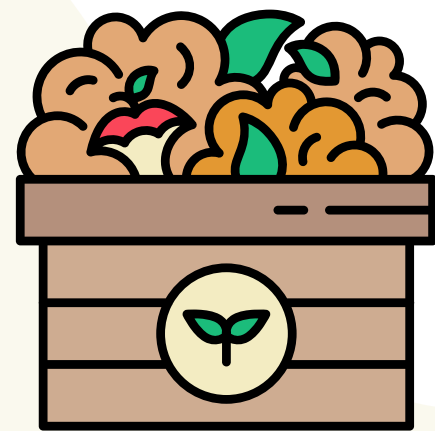


Reduction

16 KG

39%

baseline



31%

landfill waste was compostable

Landfill Contamination



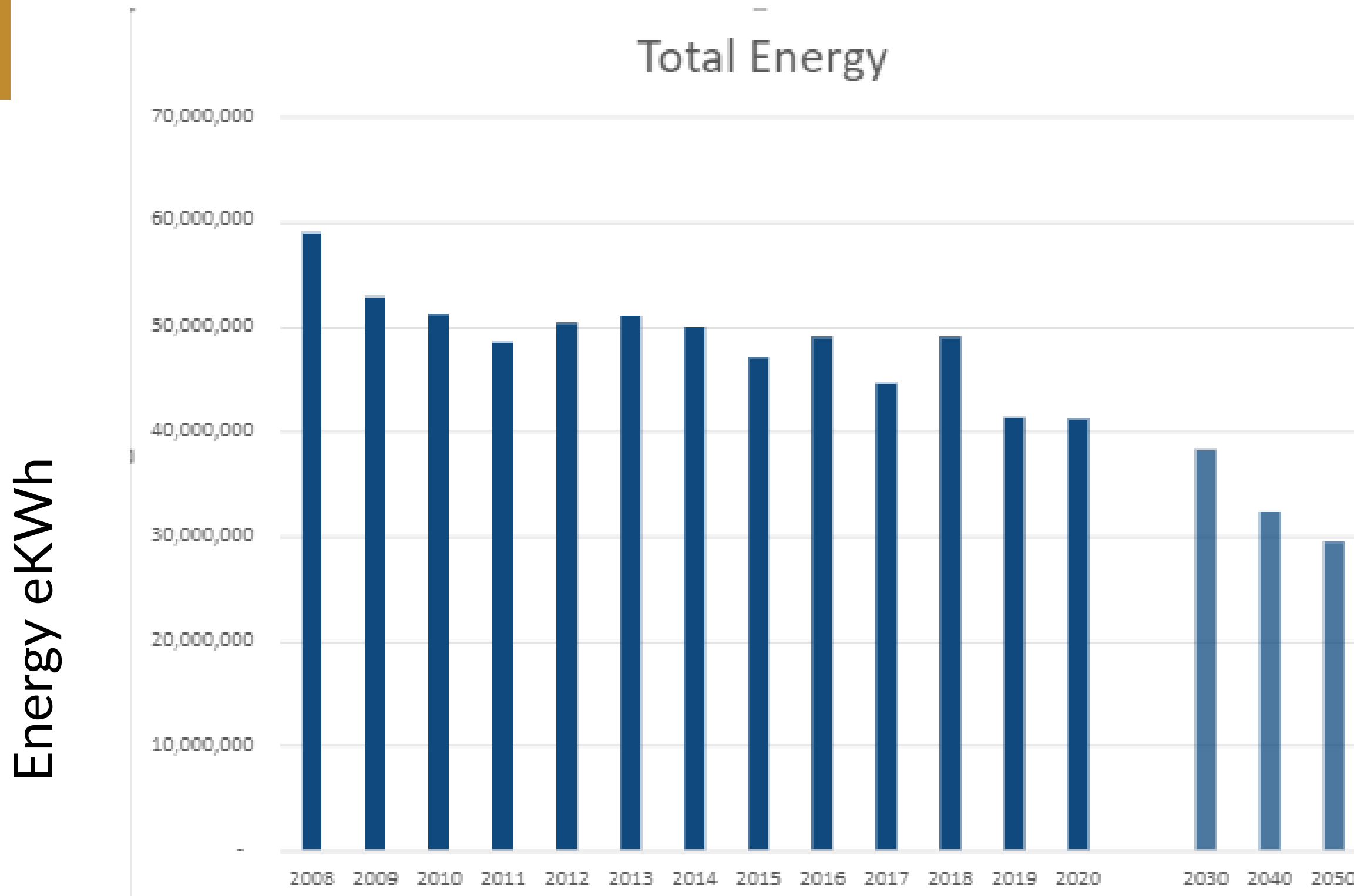
Improvement

- eliminate single-use items
- education
- campus engagement



Operations- Energy conservation

NSCC has been hard at work reducing our energy use.



**Overall
energy use
was down
27% in 2020
compared to
2008**



Outreach and Engagement

Opportunities for staff and student to engage with sustainability features are proving to be a strong catalyst for further integration of sustainability across the college.

- Newsletters
- Annual report
- Sustainability signage on campuses
- Campaigns





Living labs

NSCC's Centre for the Built Environment (CBE) at the Ivany Campus, is a “living”, learning and research lab for students, staff and industry. The CBE demonstrates various renewable energy technologies that students are able to experience through their programs. This includes two small-scale wind turbines as well as an array of PV panels to generate electricity on campus.



Bi-directional charger was used to support student learning outcomes in the Energy Sustainability Engineering Technology program



Student waste audits

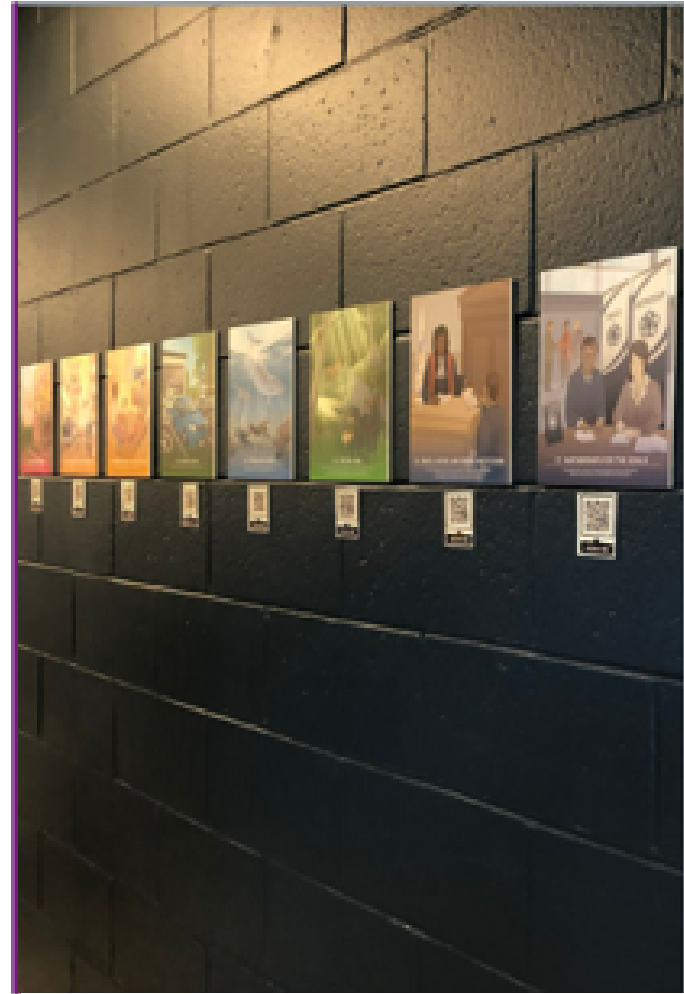


SDG Project Fund

The Facilities department funded \$15,000 of campus projects this year that advanced the SDGs.



Indoor hydroponic gardens are highly efficient and produce food which is used to support cooking educations for student. Produce is distributed to students with recipes.



Funding was used to commission a local artist to create seventeen pieces of art that are representative of the goals.



Carpentry students and facilities staff constructed nesting boxes to support threatened wood duck species.

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