



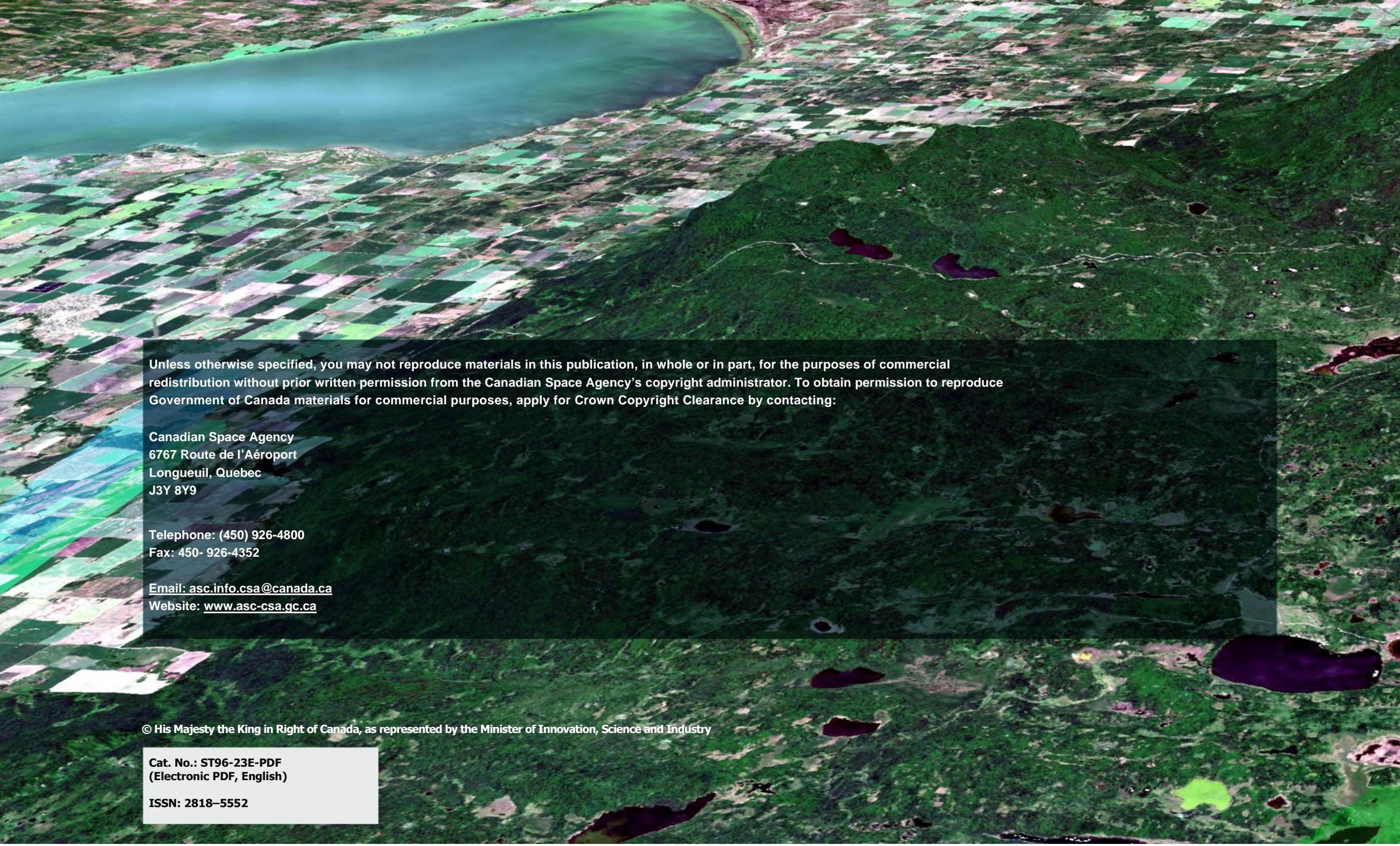
2024 to 2025 Departmental Sustainable Development Strategy Report



Canadian Space
Agency

Agence spatiale
canadienne

Canada

An aerial photograph showing a large, calm lake in the upper left corner, surrounded by a patchwork of agricultural fields in various shades of green and brown. To the right, a large, forested mountain range rises, with several small, dark lakes nestled in its valleys. The overall scene is a mix of natural and agricultural landscapes.

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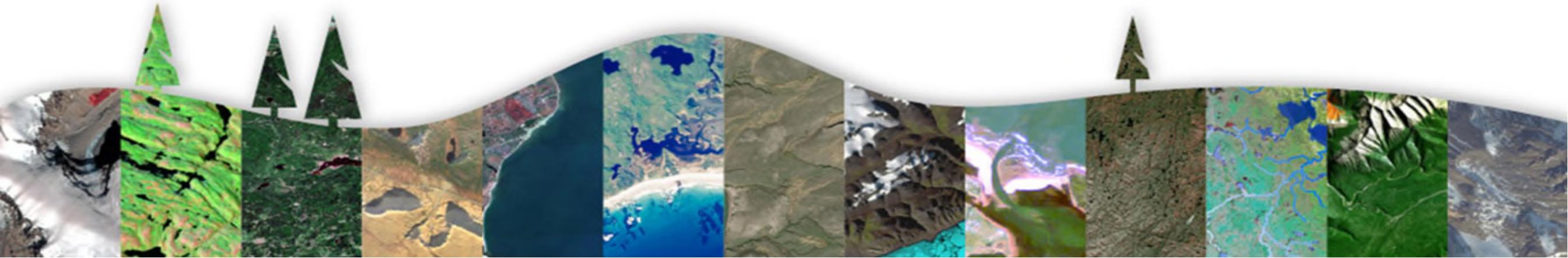
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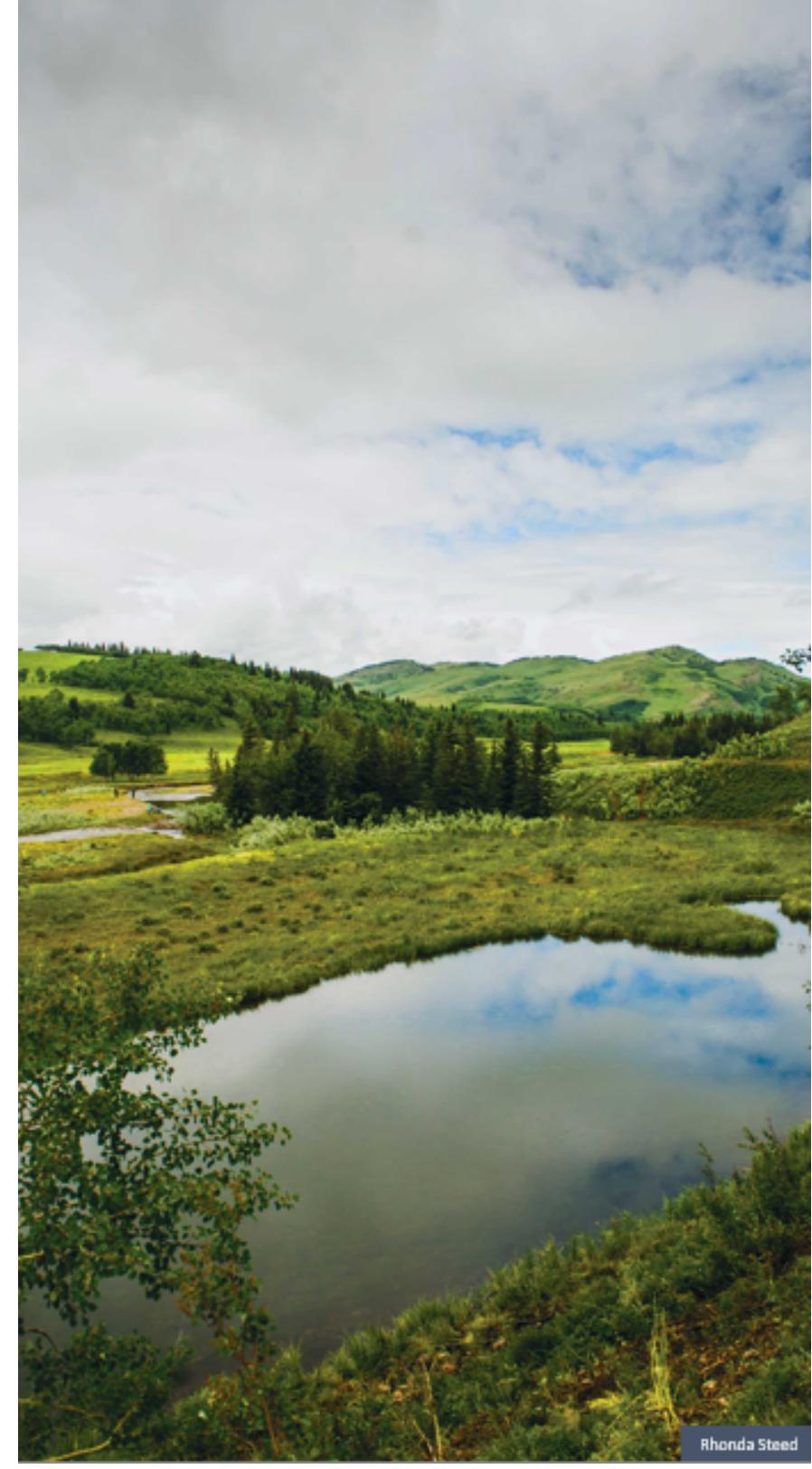
Introduction to the 2024 to 2025 Departmental Sustainable Development Strategy Report

The [2022 to 2026 Federal Sustainable Development Strategy \(FSDS\)](#) presents the Government of Canada's sustainable development goals and targets, as required by the [Federal Sustainable Development Act](#). This is the first FSDS to be framed using the 17 Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda. The SDGs provide a balanced view of the environmental, social and economic dimensions of sustainable development.

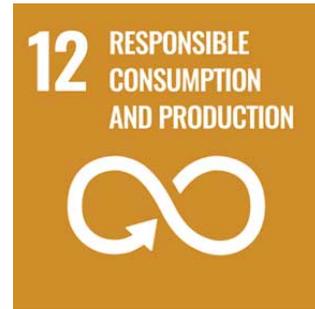
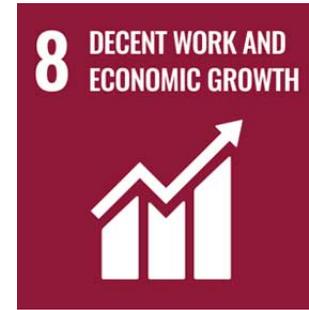
In keeping with the purpose of the Act to make decision-making related to sustainable development more transparent and accountable to Parliament, this second report describes progress related to the 2023 to 2027 Departmental Sustainable Development Strategy (DSDS) at the Canadian Space Agency (CSA). The activities described in the CSA's DSDS are designed to support the goals laid out in the FSDS.

The [Federal Sustainable Development Act](#) also sets out [7 principles](#) that must be considered in the development of the FSDS as well as the DSDSs. They include the need to integrate environmental, economic and social factors in decision making, intergenerational equity, openness, Indigenous involvement, collaboration and a results-oriented approach. These basic principles have been considered and incorporated in the CSA's DSDS and 2024 to 2025 DSDS Report.

Departmental sustainable development reports are a key part of coordinating action on sustainable development priorities across the Government of Canada. The CSA's departmental strategy reports on actions that contribute to Canada's progress towards implementing the 2030 Agenda and advancing the SDGs, supported by the Global Indicator Framework (GIF) and Canadian Indicator Framework (CIF) targets and indicators. The report also now captures progress on SDG initiatives that fall outside the scope of the FSDS.



Commitments for the Canadian Space Agency





GOAL 2: SUPPORT A HEALTHIER AND MORE SUSTAINABLE FOOD SYSTEM

FSDS Context:

Access to healthy food and a sustainable food supply is unfortunately not a reality for all Canadians. Food security is particularly difficult when the local supply of fresh food is limited or challenged by climate change, and when supplies need to travel long distances to remote regions at higher costs. Astronauts will face a similar challenge to their food supply on deep-space missions; limitations on space and the weight they can transport will require a sustainable way for them to cultivate food in space or in an alien environment such as the Moon.

In 2024–25, the CSA has studied opportunities to join Inuit-led initiatives to conduct technology testing and demonstration for food production in space, while having positive impacts on food security in Northern and remote communities. Building on engagement with the Inuit community of Igloolik since 2020, the CSA collaborated with the Arctic Fresh Group to complete an Inuit consultation contract that gathered recommendations on how to co-develop and integrate space-based food technologies into Inuit-led projects aimed at reducing food insecurity. CSA representatives visited the community of Igloolik to build trust and meet with Elders, local leaders, and youth, while also welcoming a delegation from Igloolik to CSA headquarters to strengthen ties and further discuss opportunities for food production prototype testing. An educational food production system was also sent to Igloolik to support local capacity-building and spark community interest for potential future activities.

Implementation strategies supporting the goal

This section is for implementation strategies that support the goal “Support a healthier and more sustainable food system” but not a specific FSDS target.

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA’S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Help Canadian communities access healthy food.</p>	<p>Continue working with NASA on the Deep Space Food Challenge to develop sustainable, low-input food production systems here on Earth, particularly in remote environments such as Canada’s North.</p> <p>Program: Space Exploration</p>	<p>Performance indicator: Number of Canadian space technologies adapted for use on Earth in the agri-food sector.</p> <p>Starting point: 0</p> <p>Target: 2 space technologies adapted for use on Earth in the agri-food sector by 2026-27.</p>	<p>The Deep Space Food Challenge will encourage the modernization of food production systems to help make healthy food more accessible in remote and harsh environments. The technologies and systems that are created in this challenge can be implemented in remote Canadian communities, increasing access to nutritious foods. Moreover, since these systems will produce foods on-site, it can increase food options in those areas. By continuing to work with NASA in this Challenge, the CSA is supporting the development of a healthier and more sustainable food system.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 2.1:</i> Canadians have access to sufficient, affordable, and nutritious food. <i>CIF Indicator 2.1.1:</i> Prevalence of food insecurity.</p> <p><i>GIF Target 2.1:</i> By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious, and sufficient food all year-round. <i>GIF Indicator 2.1.2:</i> Prevalence of moderate or severe food insecurity in the population based on the Food Insecurity Experience Scale (FIES).</p>	<p>Indicator result: No Canadian space technology was adapted for use on Earth in the agri-food sector in 2024–25.</p> <p>Notes: The Deep Space Food Challenge concluded at the end of the 2023–24 period. However, the challenge-winning team founded two companies based on their winning solution and raised \$2.3M in first-round investments to expand food production and accelerate research and development activities. Their system has also been considered for use in northern and remote communities. The CSA will continue to monitor those technologies for up to seven years after the funding has ended.</p> <p>There is often a delay between the development of space technologies funded by the Agency and their application for terrestrial purposes.</p>



GOAL 3: SUPPORT MENTAL HEALTH AND ADOPT HEALTHY BEHAVIOURS

FSDS Context:

The unique, isolated and extreme environment of space provides research opportunities to find innovative solutions to healthcare challenges shared by astronauts and people living in remote communities. The Health Beyond initiative aims to advance health-related technologies for potential application in deep space with clear links to terrestrial challenges. In 2024–25, the second round of the [Connected Care Medical Modules \(C2M2\)](#) invested \$3.4 million to design four systems and develop three prototypes by Canadian industry. These modules focus on serving robust systems to perform routine and periodic health assessments in space for potential ISS technology demonstration. Furthermore, C2M2-related technologies were selected and deployed to demonstrate the benefits for ground terrestrial applications, such as addressing the shortage of family physicians in urban settings, improving access to healthcare and better emergency medical support in Indigenous communities.

The CSA also continued to support health studies and the development of health-related technology that can improve health outcomes for Canadians. For example, health studies conducted on astronauts aboard the [International Space Station](#) (ISS) are improving our understanding of medical conditions on Earth, including health issues related to aging or inactivity. The [TBone2](#), [SANSORI](#), [Wayfinding](#), [Space Health](#), [Vascular Aging](#), [Vascular Calcium](#), and [CARDIOBREATH](#) studies have continued to generate knowledge that could help doctors predict people at higher risk of bone fractures, determine the effects of cranial blood pressure on eyesight, provide relief to individuals with balance disorders, and better understand cardiovascular disease. New ground-breaking technologies are also prepared for testing at the ISS. One example is the [MicroPREP](#), a portable “lab-on-a-chip” technology usable in both clinical and remote settings. MicroPREP can isolate several macromolecules such as DNA, proteins or rare cells, which makes it possible to assess the state of the immune system, inflammation, bone loss or the effects of radiation.

Implementation strategies supporting the goal

This section is for implementation strategies that support the goal “Support mental health and adopt healthy behaviours” but not a specific FSDS target.

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA’S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Collect data and information to inform evidence-based decisions.</p>	<p>The Space Exploration program will continue the implementation of its wide range of health studies and health-related technology development through its participation in the International Space Station (ISS) and the Gateway outpost. It will also continue the Health Beyond initiative and finalize the Deep Space Healthcare challenge.</p> <p>Program: Space Exploration</p>	<p>Performance indicator: Number of Canadian space technologies adapted for use on Earth in the health field.</p> <p>Starting point: 0</p> <p>Target: 2 space technologies adapted for use on Earth in the health field by 2026-27</p> <p>Performance indicator: Number of scientific peer-reviewed publications acknowledging Space Exploration Program (SEP) funding in the subfield of space health and life science.</p> <p>Starting point: 2 peer-reviewed publications acknowledging SEP funding in the subfield of space health and life science in 2022.</p> <p>Target: 30 peer-reviewed publications acknowledging SEP funding in the subfield of space health and life science between 2023 and 2027.</p>	<p>Canada’s participation in the ISS and Gateway outpost provides a unique occasion to foster innovation, collect data and information to increase knowledge in the medical domain. Studying the effects of weightlessness in space provides insights into the impacts of reduced physical activity on Earth. It mimics accelerated aging and health problem caused by a sedentary lifestyle. Canadian scientists focus on studying bones, heart, blood vessels and the brain to address balance issues, osteoporosis, cardiovascular disorders, and diabetes. As space missions become longer and more distant, crew autonomy in managing health becomes crucial. This need for autonomy also applies to remote and populations isolated from full medical care services. Improving telemedicine technologies and tools for autonomous medical care in remote communities will contribute to increasing health supports coverage in Canada.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 3.8:</i> Canada prevents causes of premature death. <i>GIF Indicator 3.4.1:</i> Mortality rate attributed to cardiovascular disease,</p>	<p>Indicator result: Three Canadian space technologies were adapted for use on Earth in the health field in 2024–25.</p> <p>Indicator result: There were 19 scientific peer-reviewed publications acknowledging Space Exploration Program (SEP) funding in the subfield of space health and life science in 2024–25.</p> <p>Notes: There is often a delay between the development of space technologies funded by the agency and their application for terrestrial purposes. The CSA will continue to monitor those technologies for up to seven years after the funding has ended.</p>

			<p>cancer, diabetes or chronic respiratory disease.</p> <p><i>GIF Target 3.8:</i> Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all.</p> <p><i>GIF Indicator 3.8.1:</i> Coverage of essential health services.</p>	
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GOAL 4: PROMOTE KNOWLEDGE AND SKILLS FOR SUSTAINABLE DEVELOPMENT

FSDS Context:

Space exploration and the peaceful uses of outer space to benefit life on Earth spur the development of new technologies, industries and peaceful connections with other nations. Many CSA initiatives, such as the contribution of Canadarm3 to the Lunar Gateway and the first flight by a Canadian astronaut around the Moon, encourage youth to pursue education in STEM fields. The CSA supports related education through the creation of **Objective: Moon**'s curriculum-linked online resources, activities and speaker events, which support educators in promoting space and STEM learning among Canadian youth. With other toolkits, printables, digital games, activities, and experiments available online, the CSA has created a plethora of resources that teachers can use to inspire students.

As a founding member of the **International Space Education Board** (ISEB), the CSA is committed to working with other space agencies to increase STEM literacy and support the future space-related workforces. The CSA provides grants to post-secondary institutions and students for a variety of hands-on training and developmental opportunities. One such example is the **CubeSats Initiative in Canada for STEM (CUBICS)**: this initiative is designed to provide students with hands-on experience to complement their studies and make them excellent candidates for Canada's space workforce.

In line with the research and knowledge sharing theme, the CSA has continued to support Canada's response to climate change risks and extreme weather events by providing Earth observation (EO) data to help scientists, policymakers and stakeholders understand our planet's dynamic environment.

Furthermore, in support of its reconciliation efforts, the CSA is committed to open and transparent partnerships with Indigenous communities to co-develop solutions based on traditional knowledge that address community-identified needs. The 2024 edition of the National Forum on EO marked a milestone in the collaboration and participation of Canada's Indigenous EO community with discussions regarding the use of EO data to address Indigenous community concerns and co-develop solutions. The CSA will continue to pursue its existing partnerships to advance innovation in Canada's

North, enhance access to STEM careers, and bolster local economies by bringing the benefits of satellite EO technologies directly to northern communities and therefore promoting knowledge and skills for sustainable development.

Target theme: Training and skills in sustainable development

Target: By December 2025, Canada’s pool of science talent grows by 175,000 science, technology, engineering and mathematics (STEM) graduates (Minister of Innovation, Science and Industry).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA’S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
Other	<p>Implement the CUBICS funding initiative, which provides post-secondary institutions across Canada with an opportunity to engage their students in a real space mission by supporting the design, development, launch, and operations of student CubeSats.</p> <p>Program: Space Capacity Development Program (SCDP)</p>	<p>Performance indicator: Number of students involved in the CUBICS projects.</p> <p>Starting point: New initiative (2022-09-14: Announcement of opportunity publication date).</p> <p>Target: 285 (number of expected yearly students involved from 2023-24 to 2025-26).</p>	<p>It is expected that, through this unique hands-on experience, students will develop invaluable skills to support their transition into the Canadian space workforce. The provision of professional and skills development programs such as CUBICS will introduce students to space-STEM fields, engage students in real space missions, and promote employment in the Canadian space sector.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 4.1:</i> Canadians have access to inclusive and quality education throughout their lives. <i>CIF Indicator 4.2.1:</i> Post-secondary education attainment rate.</p> <p><i>GIF Indicator 4.3.1:</i> Participation rate of youth and adults in formal and non-formal education and training in the previous 12 months, by sex.</p>	<p>Indicator result: There were 476 students involved in the CUBICS projects in 2024–25.</p> <p>Notes: In 2024–25, 476 students were reported by the 9 CUBICS projects; 80.9% of these students were undergraduates.</p>

Target theme: Research and knowledge-sharing

Target: By 2025, Canada’s Average Relative Citation (ARC) in natural sciences, engineering, and life sciences ranks within the top 10 of OECD countries, increasing from a ranking of 18 in 2020 (Minister of Innovation, Science and Industry).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA’S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Work with partners on sustainable development and research initiatives</p>	<p>Ensure the continuous delivery of data from Earth observation (EO) satellites to national and international partners to increase scientific knowledge in Earth surface science, atmospheric science and, solar-terrestrial science to foster the understanding and management of climate change risks and extreme weather events.</p> <p>Program: Space Utilization</p>	<p>Performance indicator: Scientific peer-reviewed publications enabled by Space Utilization Program (SUP) funding in the Earth surface science, atmospheric science and solar-terrestrial science fields.</p> <p>Starting point: 1306 in 2021</p> <p>Target: 1448 publications in 2025 (reporting year 2026-27)</p>	<p>Through the continuous delivery of Earth observation satellite data to Canadians and international partners, the CSA is sharing valuable information that is key to the fight against climate change. The use of this data by research institutions and researchers results in advancing scientific knowledge in the sustainable development domain.</p> <p>Relevant targets or ambitions: <i>GIF Target 4.7:</i> By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles.</p>	<p>Indicator result: There were 1158 scientific peer-reviewed publications enabled by Space Utilization Program (SUP) funding in the Earth surface science, atmospheric science and solar-terrestrial science fields in 2022.</p> <p>Note: This is the most recent data available for this indicator.</p>

Implementation strategies supporting the goal

This section is for implementation strategies that support the goal “Promote knowledge and skills for sustainable development” but not a specific FSDS target.

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA’S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Support capacity in Indigenous communities.</p>	<p>In collaboration with NASA, deliver workshops and training on EO applications through the CSA’s annual participation to the Indigenous Mapping Workshop (IMW).</p> <p>Program: Space Utilization</p>	<p>Performance indicator: Cumulative annual CSA participation at the IMW (1 count per year of CSA participation)</p> <p>Starting point: 3 cumulative years of CSA participation at the IMW as of 2023-24</p> <p>Target: 6 cumulative years of CSA participation at the IMW by 2026–27 (Maintain the CSA’s annual participation to the IMW)</p>	<p>Led by the Indigenous Mapping Collective, the objective of the workshops is to give Indigenous peoples access to the tools and technology they need to map their lands, share their stories, and support their rights and interests.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 4.2:</i> Canadians have access to inclusive and quality education throughout their lives.</p> <p><i>GIF Target 4.4:</i> By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship.</p>	<p>Indicator result: The CSA participated in the IMW in Regina, Saskatchewan in October 2024, maintaining the CSA’s annual participation as targeted.</p> <p>Notes: During the 2024 IMW, the CSA-NASA team continued to strengthen the connection between traditional knowledge and EO technologies. In close collaboration with The Firelight Group and the Indigenous Mapping Collective, we delivered five sessions and hands-on training focused on EO applications.</p> <p>This year’s IMW, held in Regina, Saskatchewan, welcomed participants from Indigenous communities and organizations across Canada, with a strong presence from the Prairie region. Our EO sessions aligned with the 2024 IMW theme of “Health and Wellness,” building on insights from previous workshops. We emphasized:</p> <ul style="list-style-type: none"> • Dialogue as a meaningful outcome • A co-development approach

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
				<ul style="list-style-type: none"> • Two-way learning between Indigenous and scientific knowledge systems • Storytelling and yarning as tools for engagement and knowledge sharing

Initiatives advancing Canada’s implementation of SDG 4 – Quality Education

The following initiatives demonstrate how the Canadian Space Agency’s programming supports the 2030 Agenda and the SDGs, supplementing the information outlined above.

PLANNED INITIATIVES	ASSOCIATED DOMESTICS TARGETS OR AMBITIONS AND/OR GLOBAL TARGETS	RESULTS ACHIEVED
<p><u>The CSA’s Youth Learning initiative</u></p> <p>Through this initiative, the CSA is providing inclusive educational activities and resources for youth with the goal of inspiring them to stay in school and pursue careers in space-STEM fields. The CSA’s Youth Learning activities focus on using the captivating nature of space to motivate Canada’s pool of future science talent.</p> <p>The CSA’s Youth Learning initiative contributes to the long-term advancement of space-STEM education, youth engagement with space, and careers in the Canadian space sector. Through this initiative, the CSA is making Agency-wide efforts to advance Government of Canada priorities such as a diverse and highly skilled workforce; digital skills and literacy; and attracting, training, and retaining the talent.</p>	<p><i>FSDS target:</i> By December 2025, Canada’s pool of science talent grows by 175,000 science, technology, engineering, and mathematics (STEM) graduates (Minister of Innovation, Science, and Industry).</p> <p><i>CIF target 4.2.1:</i> Post-secondary education attainment rate</p> <p><i>GIF target 4.1:</i> By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes.</p>	<p>Result: 71,022 young Canadians were reached in 2024–25.</p> <p>Notes: In 2024–25, CSA youth activities raised awareness of space STEM and involved in total 71,022 young Canadians from kindergarten to Grade 12 (Secondary 5 in Quebec).</p>



GOAL 5: CHAMPION GENDER EQUALITY

FSDS Context:

Championing gender equality is a shared responsibility across the CSA. Since 2017, the CSA's GBA Plus Policy requires that all CSA initiatives (e.g., policies, legislation, projects, contracts, grants and contributions) that are new, or that need re-approval, be subject to a GBA Plus analysis to ensure that they do not disadvantage underrepresented groups. The overarching goal is to promote fairness and inclusion to ensure that the benefits of space can reach everyone in Canada.

To advance gender equality and empower all women and girls in the space sector,¹ CSA initiatives have focused on three key areas:

- Inspiring K-12 girls and other underrepresented groups of youth to pursue careers in science, technology, engineering and mathematics (STEM);
- Providing hands-on job experience and training opportunities in the space sector to students, including women and other underrepresented groups; and
- Encouraging the space sector to recruit and retain women and other underrepresented groups.

The CSA's Speakers Bureau has carried out numerous events for the promotion of women and girls in the space sector, such as video conferences and in-person events hosted by female CSA experts or astronauts, and conferences on women in STEM. The Bureau has also continued to support female CSA engineers and scientists by helping them contribute to youth engagement as judges and mentors in various robotics competitions across Canada (e.g., Zone 01, FIRST Robotics).

Persistence and representation of women in science, technology, engineering and mathematics (STEM) programs is a critical issue, as women remain underrepresented in these fields. As part of its efforts to address gender disparities in STEM, in 2023, the CSA co-hosted the fourth edition of the

¹ The Canadian space sector is defined as organizations (private, public and academic) whose activities include the development and use of space assets and/or space data as defined in the Canadian Space Sector Survey.

Space4Women Expert Meeting in Montréal alongside the United Nations Office of Outer Space Affairs (UNOOSA). The objective of the Expert Meeting was to build capacity to advance gender equality and empower all women and girls in the space sector. At the meeting, participants had the opportunity to review the first Gender Mainstreaming Toolkit dedicated to the space sector. There were 69 participants from 36 member States who attended the event, and their contributions throughout the Expert Meeting were key to the preparation of the first-ever Gender Mainstreaming Toolkit (GMT) for the space sector.

The GMT was released at the 67th session of the Committee on the Peaceful Uses of Outer Space (UNCOPUOS) in June 2024. The GMT provides simple and practical measures, examples and tools to help people who are not gender specialists adapt gender mainstreaming efforts to their unique situations. In turn, this helps bring about meaningful improvements for gender equality in the global space community.

Target theme: Take Action on Gender Equality

Target: By 2026, at least 37% of employees in the environmental and clean technology sector are women (Minister of Innovation, Science and Industry).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Reduce systemic barriers to gender equality</p>	<p>Reduce systemic barriers to gender equality and diversity in the space sector through the application of a Gender-based Analysis Plus (GBA Plus) lens for all its initiatives.</p> <p>Program: Space Capacity Development Program Space Exploration Program Space Utilization Program</p>	<p>Performance indicator: Percentage of women in the Canadian space sector.</p> <p>Starting point: In 2021, 29% of the Canadian space sector workforce were women.</p> <p>Target: Have women represent 30% of the Canadian space sector workforce 2026-27.</p>	<p>By incorporating diverse perspectives and considering factors like race, ethnicity, age, and socioeconomic status in the CSA's policies, programs, and initiatives, GBA Plus aims to reduce barriers to gender equality in the space sector.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 5.2:</i> Gender equality in leadership roles and at all levels of decision-making. <i>CIF Indicator 5.2.1:</i> Proportion of leadership roles held by women. <i>GIF Ambition 5.5:</i> Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic, and public life.</p>	<p>Indicator result: In 2023, women made up 29% of the Canadian space sector.</p> <p>Notes: The data for this indicator is collected through the CSA's voluntary Annual Space Sector Survey. It provides the best estimation we have of the gender composition of the space sector. That said, the data can vary based on the number of organizations that respond for the given year.</p>

Implementation strategies supporting the goal

This section is for implementation strategies that support the goal “**Champion gender equality**” but not a specific FSDS target.

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA’S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
Disaggregate data	<p>Update the CSA’s data collection tools to gather more disaggregated data to monitor gender and diversity results and evaluate the CSA’s impacts to inform decision-making and the design of GBA Plus specific initiatives.²</p> <p>Program: Space Capacity Development Space Exploration Space Utilization Internal Services</p>	<p>Performance indicator: Percentage of CSA programs reporting on gender results.</p> <p>Starting point: In 2021–22, 100% of CSA programs reported on gender results.</p> <p>Target: 100%</p>	<p>By updating its monitoring tools, the CSA will enhance its capacity to report on gender and diversity and will be better positioned to design key initiatives to address identified gender equality gaps within the space sector.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 5.2:</i> Gender equality in leadership roles and at all levels of decision-making. <i>CIF Indicator 5.2.1:</i> Proportion of leadership roles held by women. <i>GIF Target 5.1:</i> End all forms of discrimination against all women and girls everywhere. <i>GIF Indicator 5.5.2:</i> Proportion of women in managerial positions.</p>	<p>Indicator result: In 2024–25, 100% of CSA programs reported on gender results.</p> <p>Notes: Work is ongoing to increase the quality of the data being collected.</p>

² GBA Plus initiatives are activities that are designed to increase equitable access and representation among diverse groups of people (i.e., women, Indigenous peoples, persons with disabilities, visible minorities/racialized populations, 2SLGBTQI+ communities, rural or remote populations, etc.).

Initiatives advancing Canada’s implementation of SDG 5 – Gender Equality

The following initiatives demonstrate how the Canadian Space Agency’s programming supports the 2030 Agenda and the SDGs, supplementing the information outlined above.

PLANNED INITIATIVES	ASSOCIATED DOMESTICS TARGETS OR AMBITIONS AND/OR GLOBAL TARGETS	RESULTS ACHIEVED
<p><u>UN/Canada Space4Women Expert Meeting</u></p> <p>Space4Women, an initiative of the United Nations Office for Outer Space Affairs (UNOOSA), seeks to raise awareness about the importance of gender equality and women’s empowerment in the space sector. Its work is focused on: strengthening and delivering targeted capacity-building activities both at the institutional and individual levels; encouraging women and girls to pursue space and STEM education and careers; and contributing to the achievement of Sustainable Development Goals (SDG) 4 – Quality Education and 5 – Gender Equality.</p> <p>The Canadian Space Agency (CSA) collaborated with the United Nations Office of Outer Space Affairs (UNOOSA) to prepare the first Gender Mainstreaming Toolkit (GMT) for the Space Sector. The Gender Mainstreaming Toolkit (GMT) provides simple and practical measures, examples, and tools to help people who are not gender specialists adapt gender mainstreaming efforts to their unique situations, which in turn will help bring about meaningful improvements for gender equality in the global space community.</p>	<p>Canada’s ongoing support to UNOOSA’s Space4Women project aligns with two relevant domestic and global targets and ambitions.</p> <p>1. SDG 4: Quality Education: <i>CIF Ambition 4.1:</i> Canadians have access to inclusive and quality education throughout their lives. <i>CIF Indicator 4.2.1:</i> Post-secondary education attainment rate.</p> <p><i>GIF Indicator 4.4.1:</i> Proportion of youth and adults with information and communications technology (ICT) skills, by type of skill.</p> <p>2. SDG 5: Achieve gender equality and empower all women and girls: <i>CIF Ambition 5.2:</i> Gender equality in leadership roles and at all levels of decision-making. <i>CIF Indicator 5.2.1:</i> Proportion of leadership roles held by women. <i>GIF Indicator 5.5.1:</i> Proportion of seats held by women in (a) national parliaments and (b) local governments; proportion of women in managerial positions.</p>	<p>Result: UNOOSA and the Kenya Space Agency (KSA) co-hosted the fifth edition of the Space4Women Expert Meeting in Nairobi in 2024. The focus of the 2024 Expert Meeting was to identify how best to apply the GMT to African countries and their specific contexts, and to work toward unlocking STEM education for women and girls in underprivileged communities.</p> <p>Leading up to the Expert Meeting in Nairobi, the CSA collaborated with Global Affairs Canada to train the KSA’s meeting organizers and facilitators. The CSA also sent a representative to Nairobi who trained facilitators on the ground, participated in all Expert Meeting sessions, and delivered two presentations, which were aimed at contextualizing and informing the Meeting’s activities and dialogue.</p> <p>Notes: The GMT was well received; participants of the 2024 Expert Meeting expressed interest in adapting and applying it within their own governments, space-agencies and communities.</p> <p>The recommendations of the fifth Expert Meeting include strengthening efforts at grassroots levels; creating national focal points and regional collaboration groups; investing further in capacity-building, training, mentorship, and infrastructure; unlocking more funding opportunities for courses and training resources; and fostering strategic communication with policymakers and governments.</p>



GOAL 8: ENCOURAGE INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH IN CANADA

FSDS Context:

By focusing on high-value-added and labour-intensive sectors, the CSA aims to stimulate economic growth and create opportunities across various industries, leveraging space-based technologies and research to drive innovation and productivity to solve next-generation challenges.

The CSA’s **smartEarth initiative** is anchored in the document “**Towards Canada’s 2030 Agenda National Strategy,**” which describes Canada’s priorities and commitments towards achieving the SDGs. The smartEarth initiative intends to address Canada’s most pressing challenges, such as resilient infrastructures, agriculture, ecosystems, and pollution monitoring. By stimulating the uptake of space-borne data, the initiative aims to develop capacities within the industry and academia to accelerate innovation in the delivery of space-based applications to answer global environmental challenges. The creative solutions stemming from the space-based applications will generate sustainable growth by enhancing the competitiveness of the Canadian space sector while also developing a highly qualified workforce.

The Canadian Space Agency’s **Space Technology Development Program (STDP)** continues to support innovation and growth in the Canadian space industry with a focus on small and medium enterprises (SMEs). It also aims to reduce technological unknowns in future space missions. By providing initial funds to support the development of innovative technologies with strong potential and enhance the competitiveness and capabilities of the Canadian space industry, the STDP encourages inclusive and sustainable growth in Canada.

Initiatives advancing Canada’s implementation of SDG 8 – Decent Work and Economic Growth

The following initiatives demonstrate how the Canadian Space Agency’s programming supports the 2030 Agenda and the SDGs, supplementing the information outlined above.

PLANNED INITIATIVES	ASSOCIATED DOMESTICS TARGETS OR AMBITIONS AND/OR GLOBAL TARGETS	RESULTS ACHIEVED
<p><u>smartEarth initiative</u></p> <p>The funding offered by this initiative will enable more organizations and highly qualified personnel to engage in projects that encourage the development of space-based solutions to environmental challenges. The targeted nature of this program will create higher levels of economic productivity and support Canadian workers in sustainable development areas.</p>	<p><i>CIF Ambition 8.1:</i> Canadians have access to quality jobs.</p> <p><i>CIF Indicator 8.2.1:</i> Proportion of 15+ employees earning less than 66% of the median hourly wage of permanent full-time 15+ employees.</p> <p><i>GIF Target 8.2:</i> Achieve higher levels of economic productivity through diversification, technological upgrading, and innovation, including through a focus on high value added and labour-intensive sectors.</p> <p><i>GIF Indicator 8.2.1:</i> Annual growth rate of real GDP per employed person.</p>	<p>Result: As part of the smartEarth accelerator initiative, the CSA awarded 22 contracts to Canadian industries to accelerate the intelligent use of satellite data in developing Innovative Concept Solutions for key environmental and socioeconomic challenges currently facing Canada. These projects span areas such as natural resources management, security and defence, climate action, and clean water. The conclusion of the first phase of this initiative in 2024–25 enabled the CSA to identify five high-potential projects to advance to the demonstration phase.</p>
<p><u>Space Technology Development Program:</u></p> <p>The objectives pursued by this initiative are to support innovation for the growth of the Canadian space sector and to reduce the technological unknowns of future space missions while also developing the expertise required for the future. The initiative provides support through contracts and contribution agreements with Canadian organizations that are selected based on their capacity to advance the development of specific space technologies.</p>	<p><i>CIF Ambition 8.1:</i> Canadians have access to quality jobs.</p> <p><i>CIF Indicator 8.2.1:</i> Proportion of 15+ employees earning less than 66% of the median hourly wage of permanent full-time 15+ employees.</p> <p><i>GIF Target 8.2:</i> Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors.</p> <p><i>GIF Indicator 8.2.1:</i> Annual growth rate of real GDP per employed person.</p>	<p>Result: At least 586 highly qualified persons (HQP) were working on STDP-funded projects in 2024–25. STDP investments in 2024-25 have advanced capabilities and talent development in a wide range of space fields, including propulsion technologies, satellite communications, Earth observation, and quantum technologies.</p> <p>Notes: HQP are defined as employees in positions that require at least a bachelor’s degree.</p>



GOAL 10: ADVANCE RECONCILIATION WITH INDIGENOUS PEOPLES AND TAKE ACTION ON INEQUALITY

FSDS Context:

Recognizing and celebrating First Nations, Inuit and Métis Peoples and all their contributions to STEM and to the studies of stars, the CSA seeks to build sustainable, mutually beneficial relationships with Indigenous Peoples, based on the principle of co-development and to increase Indigenous Peoples’ participation in space-related activities. Building on previous successful collaborations and existing relationships, the CSA will continue to expand its engagement with First Nations, Inuit and Métis Peoples to increase their participation in CSA programs. This includes using the unique appeal of space to inspire Indigenous students to pursue careers in Canada’s space workforce, fostering Indigenous participation through specific initiatives and projects, and increasing the number of Indigenous Peoples hired by the CSA.

The CSA is committed to renewing and strengthening its economic relationships with Indigenous entrepreneurs and communities. Through the Procurement Strategy for Indigenous Business (PSIB), the CSA leverages its procurement activities to capitalize on existing buying power and the empowerment of Indigenous business capacity in relevant commodities, including contracts issued on behalf of the CSA. Ultimately, the PSIB aims to increase the number of Indigenous businesses in the space and research and development (R&D) sectors. In accordance with government directives, the CSA awarded over 5% of its eligible contracts to Indigenous businesses in 2024–25. In collaboration with the space



This patch was created for Canadian Space Agency astronaut Colonel Jeremy Hansen in honour of the historic Artemis II mission to the Moon by Anishinaabe artist Henry Guimond of the Turtle Lodge.

*Its shape and the animals are a reference to the Seven Sacred Laws, a traditional First Nations teaching selflessly shared with Jeremy in preparation for his journey around Grandmother Moon. This is but one example of the many rich teachings found in the diverse cultures of Indigenous Peoples, the first explorers.
(Credit: Canadian Space Agency.)*

sector, Indigenous businesses and Indigenous Services Canada, the CSA will continue to co-develop long-term strategies to increase Indigenous representation in government procurement over time. Additionally, through the Grants and Contributions Program and targeted youth-focused activities, the CSA encourages Indigenous youth to take an active interest in space with the aim of increasing the number of Indigenous employees and entrepreneurs in Canada’s space workforce. Through in-person and early engagement on initiatives carried out with Indigenous communities such as the Food Production Initiative, the CSA ensures co-creation from the earliest stages of ideation and that initiatives are carried out in a way that respects Indigenous values and prioritizes self-determination.

The CSA is committed to attracting and retaining top talent and being a diverse workforce. The CSA has adopted inclusive hiring practices to best align the makeup of the workforce to reflect labour market availability. To guide its future human resources strategies and plans, the CSA started consultations on its 2025–28 People Strategy. To support equity and diversity in its workforce, the CSA started work on revising its Employment Equity, Diversity and Inclusion Action Plan and will update its recruitment strategy accordingly. The CSA’s [Accessibility Plan](#) aims to increase access to employment and promotional opportunities for employees and job seekers with disabilities so they can contribute to their full potential and consider the CSA as an employer of choice.

Target theme: Advancing reconciliation with First Nations, Inuit, and the Métis communities.

Target: Between 2023 and 2026, and every year on an ongoing basis, develop and table annual progress reports on implementing *the United Nations Declaration on the Rights of Indigenous Peoples Act* (Minister of Justice and Attorney General of Canada).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA’S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
Implement the <i>United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) Act</i> .	<p>Increase the participation of Indigenous Peoples in Canada’s Space Program.</p> <p>Program: All CSA programs and Internal Services</p>	<p>Performance indicator: Number of initiatives fostering Indigenous participation.</p> <p>Starting point: 6 in 2022-23.</p>	The implementation of the UNDRIP Act will cement the government’s commitment to advancing reconciliation with Indigenous peoples. The advancement of Indigenous participation in Canadian space programs will further	<p>Indicator result: There were 25 initiatives fostering Indigenous participation in 2024–25.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
		<p>Target: 10 in 2026-27.</p>	<p>engage Indigenous peoples in the space sector and result in the establishment of new, long-standing relationships.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 10.1:</i> Canadians live free of discrimination and inequalities are reduced.</p> <p><i>GIF Target 10.2:</i> By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status.</p>	

Target theme: Taking action on inequality

Target: Each year, the federal public service meets or surpasses the workforce availability for women, Indigenous persons, persons with a disability, and members of a visible minority (President of the Treasury Board).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Advance gender equality in the Government of Canada.</p>	<p>Renew and implement the CSA's recruitment strategy to ensure that the representation rate of women in the workforce and in senior leadership positions meets or surpasses their workforce availability (WFA) rates.</p> <p>Program: Internal Services</p>	<p>Performance indicator #1: Percentage of the CSA's workforce who identified as women.</p> <p>Starting point: 46.7% of the CSA's workforce identified as women as of March 31, 2023.</p> <p>Target: Equal to or greater than 38.4% of the CSA's workforce identified as women by 2027³.</p> <p>Performance indicator #2: Percentage of senior leadership positions at the CSA occupied by women.</p> <p>Starting point: 38.7% of senior leadership positions at the CSA were occupied by women as of March 31, 2023.</p> <p>Target:</p>	<p>By establishing baselines when it comes to representation rates, the CSA will be able to reflect on why certain targets were/were not met and introduce policies and procedures that aim to resolve gaps in representation. Thus, the implementation of the Equity, Diversity, and Inclusion Strategy will provide the CSA with the information needed to do whatever is needed to advance gender equality throughout the department.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 10.1:</i> Canadians live free of discrimination and inequalities are reduced. <i>CIF Indicator 10.2.1:</i> Proportion of the population reporting discrimination or unfair treatment.</p>	<p>Indicator result #1: 48.8% of the CSA's workforce identified as women as of March 31, 2025.</p> <p>Indicator result #2: 48.6% of senior leadership positions at the CSA were occupied by women as of March 31, 2025.</p>

³ Target is based on the most recent workforce availability rate as of March 31, 2023.

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
		<p>Equal to or greater than 31.5% of senior leadership positions at the CSA to be occupied by women by 2027³.</p>	<p><i>CIF Indicator 10.3.1:</i> Median hourly wage ratio.</p> <p><i>GIF Target 10.2:</i> By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status.</p>	
<p>Foster diversity, inclusion and accessibility in the federal public service</p>	<p>Renew and implement the CSA's recruitment strategy to ensure that the CSA's workforce reflects the diversity that characterizes the Canadian population.</p> <p>Program: Internal Services</p>	<p>Performance indicator #1: Percentage of the CSA's workforce who identifies as a visible minority.</p> <p>Starting point: 19.7% of the CSA's workforce identified as a visible minority as of March 31, 2023.</p> <p>Target: Equal to or greater than 21.2% of the CSA's workforce identified as a visible minority by 2027³.</p> <p>Performance indicator #2: Percentage of senior leadership positions at the CSA occupied by visible minority members.</p> <p>Starting point: 9.7% of senior leadership positions at the CSA were occupied by visible minority members as of March 31, 2023.</p> <p>Target: Equal to or greater than 17.4% of senior leadership positions at the CSA to</p>	<p>The recruitment strategy will foster diversity, inclusion, and accessibility in the federal public service by prioritizing outreach and engagement with underrepresented groups, implement bias-free recruitment process, provide accommodations for individuals with disabilities, and establish mentorship and support programs to ensure an inclusive and equitable workplace.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 10.2:</i> Canadians live free of discrimination and inequalities are reduced. <i>CIF Indicator 10.2.1:</i> Proportion of the population reporting discrimination or unfair treatment.</p> <p><i>GIF Target 10.2:</i> By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex,</p>	<p>Indicator result #1: 23.1% of the CSA's workforce identified as a visible minority as of March 31, 2025.</p> <p>Indicator result #2: 16.2% of senior leadership positions at the CSA were occupied by visible minority members as of March 31, 2025.</p> <p>Indicator result #3: 15.0% of the CSA's workforce identified as a person with disabilities as of March 31, 2025.</p> <p>Indicator result #4: 18.9% of senior leadership positions at the CSA were occupied by a person with disabilities as of March 31, 2025.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
		<p>be occupied by visible minority members by 2027.³</p> <p>Performance indicator #3: Percentage of the CSA's workforce who identified as a person with disabilities.</p> <p>Starting point: 7.5% of the CSA's workforce identified as a person with disabilities as of March 31, 2023.</p> <p>Target: Equal to or greater than 8.6% of the CSA's workforce identified as a person with disabilities by 2027³.</p> <p>Performance indicator #4: Percentage of senior leadership positions at the CSA occupied by a person with disabilities.</p> <p>Starting point: 9.7% of senior leadership positions at the CSA were occupied by a person with disabilities as of March 31, 2023.</p> <p>Target: Equal to or greater than 5.4% of senior leadership positions at the CSA occupied by persons with disabilities by 2027³.</p>	<p>disability, race, ethnicity, origin, religion or economic or other status.</p>	

Implementation strategies supporting the goal

This section is for implementation strategies that support the goal “Advance reconciliation with Indigenous Peoples and take action on inequality” but not a specific FSDS target.

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Increased Indigenous employment in the federal public service</p>	<p>Renew and implement the CSA's recruitment strategy to ensure Indigenous representation within the CSA's workforce.</p> <p>Program: Internal Services</p>	<p>Performance indicator #1: Percentage of the CSA's workforce who identifies as Indigenous.</p> <p>Starting point: 1.9% of the CSA's workforce identified as Indigenous as of March 31, 2023.</p> <p>Target: Equal to or greater than 0.9% of CSA's workforce to identify as Indigenous by 2027³.</p> <p>Performance indicator #2: Percentage of senior leadership positions at the CSA occupied by Indigenous people.</p> <p>Starting point: 3.2% of senior leadership positions at the CSA were occupied by Indigenous people as of March 31, 2023</p> <p>Target: Equal to or greater than 2.8% of senior leadership positions at the CSA to</p>	<p>The CSA seeks to continue its commitments to promoting Indigenous representation in its workforce to align itself with labour market availability levels. Promoting Indigenous employment in the CSA will both advance reconciliation efforts and engage Indigenous peoples in the space sector.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 10.1:</i> Canadians live free of discrimination and inequalities are reduced.</p> <p><i>GIF Target 10.3:</i> Ensure equal opportunity and reduce inequalities of outcomes, including by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action in this regard.</p> <p><i>GIF Indicator 10.3.1:</i> Proportion of population reporting having personally felt discriminated against or harassed within the previous 12 months on the basis of a ground of discrimination</p>	<p>Indicator result #1: 1.8% of the CSA's workforce identified as Indigenous as of March 31, 2025.</p> <p>Indicator result #2: 2.7% of senior leadership positions at the CSA were occupied by Indigenous Peoples as of March 31, 2025.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Support economic development and entrepreneurship in Indigenous communities</p>	<p>In collaboration with industries, Indigenous businesses and Indigenous Services Canada, the CSA will develop long-term strategies to increase Indigenous business capacity in the space sector over time. Presently, the CSA is including requirements to subcontract parts of our major crown space project to Indigenous businesses or include mandatory Indigenous participation plan in our requests for proposals.</p> <p>Program: Internal Services</p>	<p>be occupied by Indigenous people by 2027.³</p> <p>Performance indicator: Percentage of CSA contracts awarded to Indigenous businesses.</p> <p>Starting point: 4% of the CSA's eligible contracts were awarded to Indigenous businesses in 2022-23.</p> <p>Target: Starting in 2023-24, award 5% of the CSA's eligible contracts to Indigenous businesses annually.</p>	<p>prohibited under international human rights law.</p> <p>The CSA seeks to collaborate and build relationships with Indigenous communities and organizations. The CSA wishes to promote meaningful engagement and participation in space-related activities to ensure that its projects are respectfully co-developed with Indigenous partners. By doing so, the CSA will support economic development and entrepreneurship in Indigenous communities.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 10.1:</i> Canadians live free of discrimination and inequalities are reduced. <i>GIF Target 10.2:</i> By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status.</p>	<p>Indicator result: 9.15% of CSA eligible contracts were awarded to Indigenous businesses in 2024-25.</p> <p>Notes: The CSA will continue its efforts to award 5% of the total value of its contracts to Indigenous businesses, a goal first achieved in 2024-25. To achieve this, the CSA will continue the implementation of its Procurement Strategy for Indigenous Businesses.</p>



GOAL 12: REDUCE WASTE AND TRANSITION TO ZERO-EMISSION VEHICLES

FSDS Context:

The government of Canada deploys a variety of strategies and policies to ensure sustainable consumption and production practices within its activities; this is a direct effort to follow the government's ambition to consume in a sustainable manner. To tackle this challenge, the [Greening Government Strategy](#) (GGS) and the [Policy on Green Procurement](#) were created to reduce the environmental impacts of government operations, promote environmental stewardship and adapt to climate change.

Through the implementation of the GGS, the CSA has committed to supporting responsible consumption and production by actively working on three key priorities: reducing waste, transitioning to a zero-emission vehicle fleet (ZEVs), and greening its procurement activities. The CSA aims to achieve climate-resiliency and net-zero emissions operations by 2050. To achieve this objective, the CSA will focus on reducing its greenhouse gas (GHG) emissions from various sources by prioritizing the decarbonization of its facilities and its fleet.

Target: By 2030, the Government of Canada will divert from landfill at least 75% by weight of non-hazardous operational waste (All Ministers).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Maximize diversion of waste from landfills.</p>	<p>Strengthen the CSA management waste program to increase the diversion rate of non-hazardous operational waste.</p> <p>Program: Internal Services</p>	<p>Performance indicator:</p> <p>Percentage by weight of non-hazardous operational waste diverted from landfills,</p> <p>Starting point: In 2019, the non-hazardous operational waste diversion rate was 48%.</p> <p>Target: Divert at least 75% of non-hazardous operational waste by weight from landfills annually by 2030.</p>	<p>By diverting and reducing waste, the CSA contributes to the FSDS goal and target of diverting at least 75% by weight of non-hazardous waste. A better waste management program will ensure that recycling and composting are maximized, which reduces the emissions generated by the transportation and disposal of waste. Material recovery via recycling reduces emissions for the extraction and production of raw materials.</p> <p>Relevant targets or ambitions:</p> <p><i>CIF Ambition 12.3:</i> Canadians consume in a sustainable manner. <i>CIF Indicator 12.3.1:</i> Total waste diversion per capita.</p> <p><i>GIF Ambition 12.5:</i> By 2030, substantially reduce waste generation through prevention, reduction, recycling, and reuse. <i>GIF Indicator 12.5.1:</i> National recycling rate, tons of material recycled.</p>	<p>Indicator result:</p> <p>In 2023–24, the non-hazardous operational waste diversion rate was 83.78%.</p> <p>Notes:</p> <p>Waste audits were conducted in 2023–24, which allowed the CSA to measure progress from the 2019 starting point. Audit results are valid for five years.</p> <p>By strengthening the CSA's waste management program and implementing organic waste collection procedures, the CSA has improved its non-hazardous waste diversion rate.</p>
<p>Maximize diversion of waste from landfills.</p>	<p>Complete new waste audits for the CSA's primary facilities to update waste diversion statistics, measure progress and submit annual reporting.</p>	<p>Performance indicator:</p> <p>Percentage by weight of non-hazardous operational waste diverted from landfills.</p> <p>Starting point:</p> <p>In 2019, the non-hazardous operational waste diversion rate was 48%.</p>	<p>Auditing, tracking, and disclosing waste quantity and type, allows for a better understanding of the CSA's waste production which is needed to raise awareness, identify diversion and reduction opportunities, and prioritize actions. With these actions, the CSA contributes to supporting the FSDS goal</p>	<p>Indicator result:</p> <p>In 2023–24, the non-hazardous operational waste diversion rate was 83.78%.</p> <p>Notes:</p> <p>Waste audits were conducted in 2023–24, which allowed the CSA to measure</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
		<p>Target: Divert at least 75% by weight of non-hazardous operational waste from landfills annually by 2030.</p>	<p>and target of diverting at least 75% of non-hazardous waste by weight.</p> <p>Relevant targets or ambitions: <i>GIF Target 12.5:</i> By 2030, substantially reduce waste generation through prevention, reduction, recycling, and reuse. <i>GIF Indicator 12.5.1:</i> National recycling rate, tons of material recycled.</p>	<p>progress from the 2019 starting point. Audit results are valid for five years.</p> <p>A new waste audits will be planned within 2026–2028, which will allow CSA to confirm progress toward the 2030 target.</p>
<p>Maximize diversion of waste from landfills.</p>	<p>Increase, track and disclose the plastic waste diversion rate.</p> <p>Program: Internal Services</p>	<p>Performance indicator: Percentage (%) of plastic waste by weight diverted from landfills.</p> <p>Starting point: In 2019, the plastic waste diversion rate was 30%.</p> <p>Target: Divert at least 75% by weight of plastic waste from landfills annually by 2030.</p>	<p>The CSA is taking action to reduce plastic waste (e.g., increasing awareness for better plastic waste sorting, eliminating single-use plastics in operations, events, and meetings, reducing procurement of plastic goods, etc.) and contributes to the goals and targets on plastic of the FSDS, Canada's 2030 agenda and SDGs.</p> <p>Plastic recycling is a real challenge that needs to be addressed at its source. By eliminating plastic in operations, events, and meetings, and raising awareness, we can contribute to reducing the pollution created by plastic waste and better protect the environment from microplastics, including marine pollution in oceans.</p> <p>Relevant targets or ambitions: <i>GIF Target 12.5:</i> By 2030, substantially reduce waste generation through</p>	<p>Indicator result: In 2023–24, the plastic waste diversion rate was 54.18%.</p> <p>Notes: Waste audits were conducted in 2023–24, which allowed the CSA to measure progress from the 2019 starting point. Audit results are valid for five years.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
			prevention, reduction, recycling, and reuse. <i>GIF Indicator 12.5.1: National recycling rate, tons of material recycled.</i>	

Target: By 2030, the Government of Canada will divert from landfill at least 90% by weight of all construction and demolition waste (All Ministers).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Maximize diversion of waste from landfills</p>	<p>Ensure all required⁴ construction projects track and disclose the amount of construction and demolition waste generated, as well as the amount diverted from landfills. This can include preliminary waste audits, waste reduction work plans, waste management strategies, tracking and reporting the quantity of waste, etc.</p> <p>Program: Internal Services</p>	<p>Performance indicator: Percentage by weight of all construction, renovation and demolition (CRD) waste diverted from landfills.</p> <p>Starting point: In 2022–2023, no completed projects were subjected to the requirement.</p> <p>Target: Divert at least 90% by weight of all CRD waste from landfills annually by 2030.</p>	<p>By tracking and diverting its CRD waste, the CSA not only contributes to the FSDS's goal and target, but also contributes to reducing scope 3 greenhouse gas (GHG) emissions created by waste generation, transportation, and disposal. Reducing CRD waste at the source can also contribute to reducing the emissions related to the extraction, production, and use of construction material. Lastly, this initiative contributes to enhancing collaboration with suppliers, thus contributing to an overall transition in the industry.</p> <p>This will be achieved by ensuring CRD waste management is included in all contracting components of a construction project, and by following the government's and industry's best practices.</p> <p>Relevant targets or ambitions: <i>GIF Target 12.4:</i> By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and</p>	<p>Indicator result: In 2024–25, no completed projects were subjected to the requirement.</p> <p>Notes: There is an ongoing project subject to embodied carbon criteria; however, its completion is now expected during the 2025–26 year, at which point results will be available for reporting.</p>

⁴ Actual requirements are for projects above \$5-million. Most of the CSA's construction projects are less than \$5 million. To better reflect this reality, the CSA will look into lowering the \$5-million threshold to increase CRD diversion opportunities, when possible, to divert a greater quantity of waste.

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
			significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment. <i>GIF indicator 12.4.1:</i> Hazardous waste generated per capita Proportion of hazardous waste treated, by type of treatment.	

Target: The Government of Canada’s procurement of goods and services will be net-zero emissions by 2050, to aid the transition to a net-zero, circular economy (All Ministers).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
Disclose embodied carbon in construction	The CSA will track and disclose the embodied carbon in the structural materials of major construction projects, starting with concrete. As stated in the GGS, the CSA is also required to reduce the embodied carbon of structural materials. Therefore, to achieve this target, the CSA will incorporate embodied carbon disclosure requirements in all major construction project phases, as well as in the procurement processes to make sure	<p>Performance indicator #1: Percentage of major construction projects that disclosed the embodied carbon of structural materials used.</p> <p>Starting point: No data—New initiative since December 2022.</p> <p>Target: 100% of major construction projects disclose the embodied carbon of structural materials used yearly.</p>	By tracking, disclosing, and reducing the embodied carbon in the structural materials of construction projects, the CSA is helping the Government of Canada’s procurement transition towards a net-zero economy to achieve net-zero greenhouse gas (GHG) emissions by 2050. Reducing embodied carbon at the source can also contribute to the reduction of emissions related to the extraction, production and use of construction material and raw resources. Finally, this	<p>Indicator result #1: In 2024–25, no completed projects were subjected to the requirement.</p> <p>Indicator result #2 In 2024–25, no completed projects were subjected to the requirement.</p> <p>Notes: There is an ongoing project subject to embodied carbon criteria; however, its completion is now expected during the</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
	<p>that embodied carbon is being reported and reduced.</p> <p>Program: Internal Services</p>	<p>Performance indicator #2: Percentage of major construction projects that reduced embodied carbon by at least 10%.</p> <p>Starting point: No data—New initiative since December 2022.</p> <p>Target: Starting with concrete, 100% of major construction projects will reduce embodied carbon by at least 10%.</p>	<p>initiative also contributes to enhancing collaboration with the suppliers, thus contributing to an overall transition in the industry.</p> <p>Relevant targets or ambitions: <i>GIF Target 12.2:</i> By 2030, achieve the sustainable management and efficient use of natural resources. <i>GIF Indicator 12.2.1:</i> Material footprint, material footprint per capita, and material footprint per GDP.</p>	<p>2025–26 year, at which point results will be available for reporting.</p>
<p>Incentivize supplier disclosure.</p>	<p>The CSA will ensure that processes for procurement over \$25 million including taxes apply the Policy on Green Procurement standard which induces suppliers to measure and disclose their greenhouse gas emissions and adopt a science-based target to reduce greenhouse gas emissions in line with the Paris Agreement as part of participating in the Net-Zero Challenge or an equivalent initiative or standard.</p> <p>Program: Internal Services</p>	<p>Performance indicator: Percentage of CSA contracts over \$25 million that applied the Policy on Green Procurement standard.</p> <p>Starting point: No data yet—New initiative since April 2023.</p> <p>Target: Starting in 2023-24, 100% of CSA's contracts over \$25 million recipients had applied the standard.</p>	<p>The CSA is responsible for ensuring that the obligations of this standard are included in its departmental procurement policies and processes. With this departmental action, the CSA is encouraging suppliers to reduce the environmental impacts from their supply chain and the goods and services they deliver. It is also ensuring responsible consumption for high expenditure procurement and directly contributes to the FSDS's and GGS's target of helping the Government of Canada's procurement of goods and services to yield net-zero emissions by 2050.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 12.2:</i> Canadians consume in a sustainable manner.</p>	<p>Indicator result: In 2024-25, the sole contract issued by PSPC on behalf of the CSA over \$25 million applied the Policy on Green Procurement standard. This contract included a clause on greenhouse gas emission reduction targets and disclosure.</p> <p>Notes: This contract was issued by PSPC as the CSA does not have contracting authority delegation to issue contracts over \$25M.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
			<p><i>CIF Indicator 12.2.1:</i> Proportion of businesses that adopted selected environmental protection activities and management practices.</p> <p><i>GIF Target 12.6:</i> Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle.</p> <p><i>GIF Indicator 12.6.1:</i> Number of companies publishing sustainability reports.</p>	
<p>Transform the federal light-duty fleet</p>	<p>The CSA will take action to decarbonize its fleet by:</p> <ul style="list-style-type: none"> • Purchasing hybrid or zero-emission vehicles (ZEVs) when replacing a vehicle; and • Ensuring that the conventional light-duty fleet will comprise only ZEVs by 2030. <p>Program: Internal Services</p>	<p>Performance indicator #1: Percentage of annual administrative fleet purchases that are ZEVs or hybrids.</p> <p>Starting point: In 2021–22, 100% of annual administrative fleet purchases were ZEVs or hybrids (No purchase in 2022–23).</p> <p>Target: 100% of new light-duty unmodified administrative fleet vehicle purchases yearly are ZEVs or hybrids.</p> <p>Performance indicator #2: Percentage of ZEVs in administrative fleet.</p> <p>Starting point:</p>	<p>As conventional gasoline-powered vehicles are increasingly replaced with ZEVs and the size of the fleet is optimized, a greater proportion of the CSA's fleet will be ZEVs. This will contribute to the goal of having 100% of the government's administrative vehicle fleet be ZEVs by 2030 and reduce the total scope 1 GHG emissions of federal operations. It directly contributes to the FSDS's goal and targets for ensuring that the Government of Canada's procurement of goods and services will yield net-zero emissions by 2050.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 12.1:</i> Canadians consume in a sustainable manner.</p>	<p>Indicator result #1: In 2024–25, 100% of annual administrative fleet purchases were ZEVs or hybrids.</p> <p>Indicator result #2: In 2024–25, 67% of the administrative fleet was made up of ZEVs.</p> <p>Notes: In 2024–25, the CSA purchased two electric vehicles.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
		<p>In 2022–2023, 40% of the CSA's fleet was ZEVs.</p> <p>Target: 100% of the fleet to be ZEVs by 2030.</p>	<p><i>CIF Target 12.1:</i> Zero-emission vehicles represent 10% of new light-duty vehicle sales by 2025, 30% by 2030 and 100% by 2040.</p> <p><i>CIF Indicator 12.1.1:</i> Proportion of new light-duty vehicle registrations that are zero-emission vehicles.</p> <p><i>GIF Target 12.7:</i> Promote public procurement practices that are sustainable, in accordance with national policies and priorities.</p> <p><i>GIF Indicator 12.7.1:</i> Number of countries implementing sustainable public procurement policies and action plans.</p>	

Initiatives advancing Canada’s implementation of SDG 12 – Responsible Consumption and Production

The following initiatives demonstrate how the Canadian Space Agency’s programming supports the 2030 Agenda and the SDGs, supplementing the information outlined above.

PLANNED INITIATIVES	ASSOCIATED DOMESTICS TARGETS OR AMBITIONS AND/OR GLOBAL TARGETS	RESULTS ACHIEVED
<p><u>Strengthen green procurement criteria</u></p> <p>The CSA is planning to complete a life cycle assessment (LCA) on a typical large-scale space project to better understand the environmental impacts and carbon reduction opportunities for R&D service contracts and to identify solutions for decarbonizing these contracts.</p> <p>Program: Internal Services</p>	<p>With LCA results available, the CSA will be able to: 1) develop specific criteria that address greenhouse gas emissions reductions for goods and services with a high environmental impact; 2) ensure the criteria for addressing these categories are included in procurement mechanisms and instruments. These actions will help to support the FSDS goal to make Government of Canada’s procurement of goods and services net zero by 2050.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 12.2:</i> Canadians consume in a sustainable manner. <i>CIF Indicator 12.2.1:</i> Proportion of businesses that adopted selected environmental protection activities and management practices.</p> <p><i>GIF Target 12.7:</i> Promote public procurement practices that are sustainable, in accordance with national policies and priorities.</p>	<p>Result: This project is ongoing. The CSA is planning to call for tender and begin its LCA in 2025–26. Resource constraints limited advancement on the project.</p>
<p><u>Strengthen green procurement criteria</u></p> <p>The CSA will continue its effort to include criteria in its contracts that incentivize carbon reduction, sustainable plastics and/or broader environmental benefits in procurement processes and, prioritize goods and services with high environmental impacts. In this regard, the CSA will improve data collection and tracking to enable adequate accountability and reporting of the inclusion of environmental criteria and standards in procurement processes.</p> <p>Program: Internal Services</p>	<p>Incorporating green criteria into purchasing decisions is expected to improve the carbon footprint of the Government’s procurement activities and encourage suppliers to reduce the environmental impact of the goods and services they deliver. It will also contribute to ensuring responsible consumption for internal operations and considering environmental impacts when purchasing goods and services.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 12.2:</i> Canadians consume in a sustainable manner. <i>CIF Indicator 12.2.1:</i> Proportion of businesses that adopted selected environmental protection activities and management practices.</p> <p><i>GIF Target 12.7:</i> Promote public procurement practices that are sustainable, in accordance with national policies and priorities.</p>	<p>Result: The CSA began implementing a pilot project from PSPC at the end of 2024–25 to begin using the Contract Modernization Initiative (CMI) tool for assembly of procurement documents. This tool includes the most up-to-date procurement clauses and conditions that will be used in current and future CSA contracts. A green language repertoire is available to enable procurement officers and business owners to develop and incorporate environmental considerations and criteria to current and future CSA contracts.</p> <p>The CSA also has a Contract Review Committee (CRC). This committee was established to review higher-value/risk contracts, and committee members ensure the inclusion of proper environmental clauses and conditions.</p>

PLANNED INITIATIVES	ASSOCIATED DOMESTICS TARGETS OR AMBITIONS AND/OR GLOBAL TARGETS	RESULTS ACHIEVED
		<p>Additional efforts to incorporate green criteria into purchasing decisions to improve the carbon footprint of the government’s procurement activities and encourage suppliers to reduce the environmental impact are ongoing and will continue.</p>
<p><u>Strengthen green procurement criteria</u></p> <p>In line with the GGS requirements, the CSA will take action regarding in high-impact categories, including:</p> <ul style="list-style-type: none"> Analyzing the departmental procurement profile to identify departmental high-impact categories and major spending areas (completed) Developing an action plan to reduce the CSA’s procurement environmental impacts. <p>Program: Internal Services</p>	<p>An analysis of the departmental procurement profile will enable the CSA to develop an informed action plan that will reduce the CSA’s procurement environmental impacts, strengthening green procurement criteria. Together, these actions will build on the 2022-carbon footprint study of the CSA’s procurement activities from 2017–2018 to 2022–2023.</p> <p>CIF Ambition 12.2: Canadians consume in a sustainable manner. CIF Indicator 12.2.1: Proportion of businesses that adopted selected environmental protection activities and management practices.</p> <p>GIF Target 12.7: Promote public procurement practices that are sustainable, in accordance with national policies and priorities.</p> <p>GIF Indicator 12.7.1: Number of countries implementing sustainable public procurement policies and action plans.</p>	<p>Result: In 2023–24, the CSA completed a carbon footprint study that identified the CSA’s high-impact categories and major spending areas. This was the first step to developing an action plan by 2026–27.</p> <p>Notes: The 2023 carbon footprint study found that space-related R&D contracts are the most important in terms of value, expenditure and carbon intensity for the CSA. As mentioned above, this is why the CSA will carry out a life cycle assessment (LCA) on a space project to gather relevant granular data on the environmental impacts of these missions, thus identifying opportunities for reducing embodied carbon and developing solutions for decarbonizing space-related R&D contracts.</p>
<p><u>Strengthen green procurement</u></p> <p>The CSA will continue to ensure that all procurement and materiel management specialists are trained in green procurement (such as the</p>	<p>Trained staff are better equipped to incorporate environmental considerations into purchasing decisions, which can motivate suppliers to reduce the environmental impact of the goods and services they deliver and their supply chains.</p>	<p>Result: In 2024–25, 94% of procurement and materiel management specialists were trained in green procurement. Going forward, the CSA will ensure that all current and new procurement and materiel management specialists are trained in green procurement.</p>

PLANNED INITIATIVES	ASSOCIATED DOMESTICS TARGETS OR AMBITIONS AND/OR GLOBAL TARGETS	RESULTS ACHIEVED
<p>Canada School of Public Service course on green procurement or equivalent) within one year of being hired.</p> <p>Program: Internal Services</p>	<p>Relevant targets or ambitions: <i>CIF Ambition 12.2:</i> Canadians consume in a sustainable manner <i>CIF Indicator 12.2.1:</i> Proportion of businesses that adopted selected environmental protection activities and management practices.</p> <p><i>GIF Target12.7:</i> Promote public procurement practices that are sustainable, in accordance with national policies and priorities.</p>	



GOAL 13: TAKE ACTION ON CLIMATE CHANGE AND ITS IMPACTS

FSDS Context:

When it comes to climate change and its impacts, the CSA has taken action to meet the Government of Canada’s environmental commitments, not only with the Greening Government Strategy but also with a variety of Earth observation projects and initiatives.

The CSA is continuing toward achieving its carbon neutrality goal by 2050 and incorporating sustainable management practices and low-carbon operations in its workplace. Over the 2023–27 period, the CSA will incorporate considerations for energy consumption and GHG emission reductions in its major renovations and all other real property projects that affect energy consumption and GHG emissions. In 2024–25, the CSA reported on its environmental performance through the annual inventory declaration of GHG emissions, vehicle fleet, waste, water and adaptations to climate change. To ensure that all relevant employees are trained on assessing climate change impacts and undertaking climate change risk assessments, the CSA will promote new climate change courses offered by the Canada School of Public Service.

Earth observation from space is defined as acquiring data about the Earth’s physical, chemical and biological systems using satellites. From space, they provide information and services to support global communications, the economy, security and defence, public safety and emergency management, the environment, and health. The CSA is playing a leading role within the Government of Canada to ensure the accessibility and use of Earth observation data.

Through Earth observation, the CSA has continued to play a leading role in natural disaster management with its satellites. As the consequences of climate change become more severe, natural disasters will become more frequent and intense. Satellite data has become essential to assist emergency response teams by identifying potentially dangerous sites, assessing the extent of damage and facilitating rescue operations. Canada’s expertise in Earth observation and processing synthetic aperture radar data assists in disaster management response and relief efforts through the [International Charter Space and Major Disasters](#).

Target theme: Federal Leadership on Greenhouse Gas Emissions Reductions and Climate Resilience

Target: The Government of Canada will transition to net-zero carbon operations for facilities and conventional fleets by 2050 (All Ministers).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Implement the Greening Government Strategy through measures that reduce greenhouse gas emissions, improve climate resilience, and green the government's overall operations.</p>	<p>Monitor and disclose environmental performance related to CSA operations, such as GHG emissions, energy, and water consumption, as well as waste for each facility using the RETScreen software.</p> <p>Program: Internal services</p>	<p>Performance indicator: Percentage change in the CSA's GHG emissions between 2005–06 (base year) and the current reporting fiscal year.</p> <p>Starting point: In 2005–2006, the CSA's total GHG emission was: 2.4 ktCO₂e. In 2022–2023, the CSA's total GHG emission was 1 ktCO₂e, which represents 56% reduction below the 2005–2006 level.⁵</p> <p>Target: Reduce the CSA's total GHG emissions by 40% below the 2005 level by 2025.</p> <p>Reduce the CSA's Total GHG emissions by 90% below the 2005 level by 2050.</p> <p>Reduce the CSA's total GHG emission by an additional 10% every five years, starting in 2025.</p>	<p>By monitoring and disclosing its environmental performance, the CSA is supporting the Government of Canada in measuring and disclosing progress and results to respect its accountability, transparency, and open data principles. The CSA is also contributing to ensure the federal GHG emissions inventory is accurate by providing its operation results and to monitor progress.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 13.1:</i> Canadians reduce their greenhouse gas emissions. <i>CIF Target 13.1:</i> By 2030, reduce Canada's total greenhouse gas emissions by 40 to 45%, relative to 2005 emission levels. By 2050, achieve economy-wide net-zero greenhouse gas emissions. <i>CIF Indicator 13.1.1:</i> Greenhouse gas emissions.</p>	<p>Indicator result: In 2024–25, the CSA reduced its total GHG emissions by 43.5% below 2005 levels.</p> <p>Notes: Despite the reduction in the CSA's emissions this year, the CSA's performance was partially mitigated by an increase in the emission factor for electricity in Ontario.</p>

⁵ Starting point is now 2.36 ktCO₂e. This modification is due to a change in the emissions factor that decreased our baseline total emissions, going from 2.397 to 2.357 ktCO₂e. The changes in the EFs are out of our control and were due to revised coal oxidation factors, updated Global Warming Potential (GWP), and revised activity data presented in the Report on Energy Supply and Demand (RES-D).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
			<p><i>GIF Target 13.2:</i> Integrate climate change measures into national policies, strategies and planning.</p> <p><i>GIF Indicator 13.2.2:</i> Total greenhouse gas emissions per year.</p>	
<p>Implement the Greening Government Strategy through measures that reduce greenhouse gas emissions, improve climate resilience, and green the government's overall operations</p>	<p>The CSA will participate in government initiatives to purchase megawatt hours of renewable electricity for its sites located where the electrical grids still emit carbon.</p> <p>Program: Internal Services</p>	<p>Performance indicator: Percentage of clean electricity used by the CSA.</p> <p>Starting point: In 2022–23, the CSA used 97% of clean electricity.</p> <p>Target: The CSA will use 100% of clean electricity by 2025.</p>	<p>By using clean electricity in building operations, the CSA will contribute to the elimination of GHG emissions from federal buildings in jurisdictions where electricity generation is not coming from clean renewable sources; thus, the CSA is contributing to the transition to net-zero carbon operations for facilities and conventional fleets by 2050. It also contributes to transitioning to a net-zero economy by enhancing the renewable energy industry economy.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 13.1:</i> Canadians reduce their greenhouse gas emissions. <i>CIF Target 13.1:</i> By 2030, reduce Canada's total greenhouse gas emissions by 40 to 45%, relative to 2005 emission levels. By 2050, achieve economy-wide net-zero greenhouse gas emissions. <i>CIF Indicator 13.1.1:</i> Greenhouse gas emissions.</p> <p><i>GIF Target 13.2:</i> Integrate climate change measures into national policies, strategies, and planning.</p>	<p>Indicator result: In 2024–25, the CSA used 95% clean electricity.</p> <p>Notes: The reduction in clean energy % is the result of the increase in the emission factor for electricity supply Ontario.</p> <p>The CSA has signed an agreement with PSPC to be part of a bulk purchase of clean electricity to reach 100%.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Implement the Greening Government Strategy through measures that reduce greenhouse gas emissions, improve climate resilience, and greening the government's overall operations.</p>	<p>All newly installed heating, ventilation, air conditioning and refrigeration (HVAC-R) equipment will use refrigerants with global warming potential (GWP) lower than the limits stated by the GGS, unless such equipment and/or refrigerant is found to not be available domestically or its acquisition is not technically or economically feasible.</p>	<p>Performance indicator: Percentage of newly installed HVAC-R equipment using refrigerants with GWP lower than the limits stated by the GGS.</p> <p>Starting point: In 2022–23, no newly installed HVAC-R equipment.</p> <p>Target: 100% of newly installed HVAC-R equipment using refrigerants with GWP lower than the limits stated by the GGS by 2030.</p>	<p><i>GIF Indicator 13.2.2:</i> Total greenhouse gas emissions per year</p> <p>As the impacts of climate change become more severe, the GGS prompts federal departments and agencies to demonstrate leadership by accelerating the pace of converting or replacing equipment using these gases by 2030. Installing new HVAC-R equipment using refrigerants with lower GWP will contribute to reducing high GWP, ozone depleting refrigerants and hydrofluorocarbons (HFCs), which are targeted under the GGS, as these gases can be long lasting and potent greenhouse gases, with some staying in the atmosphere for centuries. They will also contribute to Canada's objective to phase down HFCs to 15% of calculated baseline levels by 2036 via Environment and Climate Change Canada's (ECCC's) Ozone depleting Substances and Halocarbon Alternatives Regulations (ODSHAR).</p> <p>Relevant targets or ambitions: <i>CIF Ambition 13.1:</i> Canadians reduce their greenhouse gas emissions. <i>CIF Target 13.1:</i> By 2030, reduce Canada's total greenhouse gas emissions by 40 to 45%, relative to 2005 emission levels. By 2050, achieve economy-wide net-zero greenhouse gas emissions.</p>	<p>Indicator result: In 2024–25, no new HVAC-R equipment was commissioned.</p> <p>Notes: The real property internal governance process ensures that new investments in assets comply with GGS requirements.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
			<p><i>CIF Indicator 13.1.1:</i> Greenhouse gas emissions.</p> <p><i>GIF Target 13.2:</i> Integrate climate change measures into national policies, strategies and planning.</p> <p><i>GIF Indicator 13.2.2:</i> Total greenhouse gas emissions per year.</p>	
<p>Modernize through net-zero-carbon buildings</p>	<p>Decarbonize the CSA's real property portfolio by implementing measures identified in the carbon-neutrality studies and by outlining the roadmap to carbon neutrality.</p> <p>Program: Internal Services</p>	<p>Performance indicator: Percentage change in the CSA's GHG emissions from facilities operations between 2005–06 (base year) and the current reporting fiscal year.</p> <p>Starting point: In 2005-06, the CSA's total GHG emissions was: 2.4 ktCO₂e.</p> <p>In 2022-23, the CSA's total GHG emission from its facilities operations was 1 ktCO₂e, which represents a 56% reduction below the 2005–2006 level.⁶</p> <p>Target: Reduce the CSA's total GHG emission by 40% below 2005 levels by 2025.</p> <p>Reduce the CSA's total GHG emission by 90% below 2005 levels by 2050.</p>	<p>Following the completion of carbon-neutral studies for its two main buildings in 2022 and 2023, the CSA plans to outline the carbon-neutrality strategy roadmap for its portfolio and make sure to align building maintenance strategy with carbon-neutrality study conclusions. All these actions will allow the CSA to reduce its GHG emissions related to the operation of its buildings and to invest in low-carbon renovations. Thus, the CSA will contribute to the reduction of total scopes 1–2 GHG emissions related to the operation of federal buildings and ensure that the reduction targets set by the Government of Canada are met.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 13.1:</i> Canadians reduce their greenhouse gas emissions.</p>	<p>Indicator result: In 2024–25, the CSA reduced its total GHG emissions by 43.5% below 2005 levels.</p> <p>Notes: Despite the reduction in the CSA's emissions this year, the CSA's performance was partially mitigated by and increase in the emission factor for electricity in Ontario.</p>

⁶ Starting point is now 2.36 ktCO₂e. This modification is due to a change in the emissions factor that decreased our baseline total emissions, from 2.397 to 2.357 ktCO₂e. The changes in the EFs are out of our control and were due to revised coal oxidation factors, updated Global Warming Potential (GWP), and revised activity data presented in the Report on Energy Supply and Demand (RESD).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
		Reduce the CSA's total GHG emission by an additional 10% every 5 years, starting in 2025.	<p><i>CIF Target 13.1:</i> By 2030, reduce Canada's total greenhouse gas emissions by 40 to 45%, relative to 2005 emission levels. By 2050, achieve economy-wide net-zero greenhouse gas emissions.</p> <p><i>CIF Indicator 13.2:</i> Greenhouse gas emissions.</p> <p><i>GIF Target:</i> Integrate climate change measures into national policies, strategies and planning.</p> <p><i>GIF Indicator 13.2.2:</i> Total greenhouse gas emissions per year.</p>	

Target: The Government of Canada will transition to climate resilient operations by 2050 (All Ministers).

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
Reduce risks posed by climate change to federal assets, services and operations	<p>The CSA will take action to reduce the risks identified in its climate risk and resiliency study by:</p> <ul style="list-style-type: none"> Incorporating and/or strengthening the consideration of climate change in business continuity planning, departmental risk planning or 	<p>Performance indicator: Percentage of critical assets for which action has been taken to reduce climate change impacts.</p> <p>Starting point: In 2022–23, action has been taken to reduce climate change impacts for 50% of critical assets.</p>	Factoring climate variability and change into policy, programs, and operations is one of the important ways in which the government can adapt and be resilient to a changing climate. By assessing the risks of climate change impacts on critical assets, and developing plans to mitigate those risks, the CSA will reduce the risk of	<p>Indicator result: In 2024–25, action was taken to reduce climate change impacts for 50% of critical assets.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
	<p>equivalent processes, and program design and delivery considerations.</p> <ul style="list-style-type: none"> Incorporating the conclusion of CSA climate risks and resiliency study in its operational activities and other real property portfolio strategy planning. Integrating future climate change conditions and adaptations into major real property projects to make sure that building projects and retrofits are climate resilient. <p>Program: Internal Services</p>	<p>Target: By 2026-27, action will be taken to reduce climate change impacts for 100% of critical assets.</p>	<p>disruption of critical service delivery to Canadians.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 13.2:</i> Canadians are well-equipped and resilient to face the effects of climate change.</p> <p><i>GIF Target 13.1:</i> Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries.</p> <p><i>GIF Target 13.2:</i> Integrate climate change measures into national policies, strategies and planning.</p> <p><i>GIF Indicator 13.2.1:</i> Number of countries with nationally determined contributions, long-term strategies, national adaptation plans and adaptation communications, as reported to the secretariat of the United Nations Framework Convention on Climate Change.</p>	

Implementation strategies supporting the goal

This section is for implementation strategies that support the goal “Take action on climate change and its impacts” but not a specific FSDS target.

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA’S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
Collaborate on emergency management and disaster risk reduction	<p>The CSA will continue to provide satellite data in response to the Charter activations.</p> <p>Program: Space Utilization</p>	<p>Performance indicator: Percentage of International Disaster Charter activations that have been supported with CSA images.</p> <p>Starting point: 84% of International Charter activation has been supported with CSA images in 2022–23.</p> <p>Target: 80% or above of the International Charter activations will be supported with CSA images annually.</p>	<p>The provision of CSA satellite images to disaster relief efforts is essential in responding to natural disasters around the world. This endeavour not only strengthens international relationships; it also contributes to emergency management and disaster risk reduction.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 13.2:</i> Canadians are well-equipped and resilient to face the effects of climate change. <i>CIF Indicator 13.2.1:</i> Frequency of selected natural disasters. <i>GIF Target 13.1:</i> Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries. <i>GIF Indicator 13.1.1:</i> Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population.</p>	<p>Indicator result: In 2024–25, 89% of International Disaster Charter activations were supported with CSA images.</p>
Support climate change adaptation across Canada	<p>Ensure the continuous delivery of Earth observation services to partners.</p> <p>Program: Space Utilization</p>	<p>Performance indicator: Number of Earth observation data services offered by the Space Utilization Program (SUP).</p>	<p>Space-based data is an indispensable tool for learning about our planet and its complex dynamics. This data is the cornerstone on which government departments, industry, and academia rely for monitoring vulnerabilities, assessing natural disasters, and engineering cutting-</p>	<p>Indicator result: In 2024–25, eight EO services were offered by the SUP.</p> <p>Notes: The number of services provided by the SUP remained stable in 2024–25.</p>

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
		<p>Starting point: In 2022-23, 8 EO services were offered by the SUP.</p> <p>Target: By 2026-27, 11 EO services will be offered by the SUP</p>	<p>edge solutions to withstand today's environmental challenges and those to come. By ensuring the continuous delivery of data from its Earth observation (EO) satellites to its national and international partners, the CSA contributes to the understanding of climate change, the assessment of its impacts, and the development of effective adaptation strategies to mitigate its effects.</p> <p>Relevant targets or ambitions: <i>CIF Ambition 13.2:</i> Canadians are well-equipped and resilient to face the effects of climate change. <i>GIF Target 13.2:</i> Integrate climate change measures into national policies, strategies and planning.</p>	



GOAL 17: STRENGTHEN PARTNERSHIPS TO PROMOTE GLOBAL ACTION ON SUSTAINABLE DEVELOPMENT

FSDS Context:

Satellites in space offer valuable information that can change people’s lives for the better and inform government decisions. Space-borne data enables innovators in the academic and business communities to find solutions to tangible challenges faced in day-to-day lives, such as forest fires, water scarcity, floods and heat waves.

Canada’s Earth observation capability allows our space community to collaborate with American, European, Japanese and other partners. In 2023–24, Canada became an official member of the [Space Climate Observatory \(SCO\)](#)—an international initiative that brings together public and private organizations involved in Earth observation to develop tools to monitor, mitigate and adapt to the impact of climate change. Since Canada signed the agreement, the CSA has become an active member of the SCO Working Group on Global Awareness. In 2024–25, the CSA initiated Phase 2 of the SCO Canada implementation plan, focusing on identifying existing initiatives that can be linked to the SCO’s efforts to translate observations into concrete applications and tools to combat or adapt to climate change. The CSA is also collaborating with the Swedish National Space Agency to learn from the implementation of their national SCO entity, and apply lessons learned to the Canada’s plan.

When it comes to taking action to protect Canada’s and the world’s ecosystems, the CSA contributes to this by sharing space-borne data nationally and internationally, and by financially supporting the development of applications. For example, the CSA’s [RADARSAT satellites](#) monitor ecosystems and ice, facilitate marine surveillance, and assist in disaster management, resource management, and mapping around the world. Making this data accessible



2023-01-18 – Artist's rendering of the SWOT satellite with solar arrays fully deployed. (Credit: CNES/Mira Productions)

provides all partners with key information to monitor environmental conditions and inform decision making. Another example is the [SCISAT](#) satellite, which collects atmospheric data to monitor global air quality, ozone recovery and the Earth’s climate in line with Canada’s engagement to the United Nations’ Montreal Protocol and the Paris Agreement. SCISAT data was used to make five scientific discoveries throughout the year, including one using seven gas datasets from SCISAT. These measurements were used to characterize how smoke-charged vortices created from wildfires offset ozone depletion and thus enhance ozone production. The CSA also funded the development of additional space-based capability to monitor hydrofluorocarbon (HFC). With the CSA’s investments, the 22-year-old SCISAT continues to be the world’s first satellite to provide high-quality measurements from space with global coverage that local ground-based instruments cannot replicate. The [SWOT satellite](#), an international collaboration to which the CSA provided a crucial instrument, surveys 90% of the Earth’s water and provides integral support to services related to key national priorities, including marine safety and security, water management, responsible resource development, fisheries, climate change adaptation, and marine transportation. Other CSA satellites and instruments⁷ also monitor different parts of the world’s ecosystems, atmosphere, and oceans.

Additionally, the CSA has actively improved the availability of scientific data and publications as part of the [Open Government initiative](#). The CSA provides access to scientific data in atmospheric science, earth surface science, solar-terrestrial science, astronomy, planetary exploration, space health, and space technologies. Greater access to space-borne data will result in more value-added applications and services for Canadians, developed by all actors of the space sector, while strengthening international partnerships.

Implementation strategies supporting the goal

This section is for implementation strategies that support the goal **“Strengthen partnerships to promote global action on sustainable development”** but not a specific FSDS target.

⁷ For a list of Earth observation satellites, please visit: [Earth observation satellites | Canadian Space Agency](#)

IMPLEMENTATION STRATEGY	DEPARTMENTAL ACTION	PERFORMANCE INDICATOR STARTING POINT TARGET	HOW THE DEPARTMENTAL ACTION CONTRIBUTES TO THE FSDS GOAL AND TARGET AND, WHERE APPLICABLE, TO CANADA'S 2030 AGENDA NATIONAL STRATEGY AND SDGS	RESULTS ACHIEVED
<p>Work with partners to monitor and protect our ecosystems through space-based services and technologies.</p>	<p>The CSA will continue to provide space-based data to other governmental departments (OGDs) and the private sector and support the development of data processing applications to monitor and protect the environment.</p> <p>Program: Space Utilization Space Capacity Development</p>	<p>Performance indicator: Number of services to Canadians offered by OGD and the private sector dependent on space data.</p> <p>Starting point: 49 services offered by OGDs and the private sector are dependent on space data in 2022–23</p> <p>Target: 60 services to be offered by OGDs and the private sector are dependent on space data by 2026-27.</p>	<p>Fostering partnerships with national and international partners is essential to the success of climate change actions. By supporting government departments and the private sector in providing services dependent on space-based data to Canadians, the CSA is contributing to the development of services and applications that have the capacity to protect and monitor our ecosystems.</p> <p>Relevant targets or ambitions: <i>CIF Ambition:</i> Canada fosters collaboration and partnerships to advance the SDGs.</p>	<p>Indicator result: There were 55 services to Canadians offered by OGD and the private sector dependent on space data in 2023–24.</p> <p>Notes: 2023–24 is the most recent year results are available for this indicator. The next results for this indicator will be available for 2026–27.</p>
<p>Advance open data initiatives.</p>	<p>The CSA will continue its efforts to strengthen partnerships by making space-based data available to its partners and the public.</p> <p>Program: Space Utilization Space Exploration Space Capacity Development Internal Services</p>	<p>Performance indicator: Number of datasets made available through CSA support.</p> <p>Starting point: 35 datasets in 2018.</p> <p>Target: 53 datasets will be made available through CSA support by 2026-27.</p>	<p>By continuing to make space data available to partners and the public, the CSA is promoting collaborative sustainable development. Through the Open Government initiative, the CSA has made data more accessible and has encouraged information sharing between partners. The information collected by CSA satellites and projects is useful in establishing sustainable development targets and evaluating the impacts of climate change; CSA data is therefore paramount in advancing the sustainable development goals.</p> <p>Relevant targets or ambitions: <i>CIF Ambition:</i> Canada fosters collaboration and partnerships to advance the SDGs. <i>CIF Indicator:</i> Number of open datasets published by the Government of Canada.</p>	<p>Indicator result: There were 53 datasets made available through CSA support in 2024–25.</p>

Integrating Sustainable Development

The CSA has committed to integrating a series of internal initiatives that seek to further sustainable development into its internal processes. First, the CSA has taken steps to ensure that its decision-making processes take the objectives and targets of the FSDS into account. The CSA plans to intensify its efforts to integrate sustainable development into its internal management practices, policies and real property operations, as well as in its procurement through activities that support the Greening Government Strategy, the FSDS's goals and targets, Canada's 2030 Agenda and the SDGs.

The longevity of our space assets is also at the core of the CSA's priority. For example, SCISAT was launched in 2003 and was supposed to deliver data for two years. More than 20 years later, SCISAT still provides scientists all over the world with crucial information on the chemical composition of the atmosphere. Mission extensions are not only good for return on investment, but they are also contributing to maintain a sustainable space environment.

The CSA has also planned to integrate resilient and net-zero objectives into its operations management. As part of this initiative, the CSA plans to align its goal of carbon neutrality with its real property strategy, transition to greener procurement, integrate climate resiliency and adaptation into project management and encourage low-carbon mobility (carpooling, public transit, cycling). In parallel, the CSA will continue to integrate sustainable development through its participation in all Greening Government committees and communities of practice at the national level.



Moreover, the CSA has drafted a green procurement directive, which will act as a significant step toward formalizing its commitment to the Government's green procurement obligations. This directive will not only solidify the CSA's dedication to environmentally responsible practices but will also ensure the reduction of environmental impacts from its procurement activities. The CSA will continue to make sure that all procurement and material management specialists are properly trained (e.g., the Canada School of Public Service course on green procurement or equivalent) within one year of being hired.

On February 22, 2024, the Honourable Anita Anand, President of the Treasury Board of Canada, announced new Greening Government Fund initiatives. Two of these involve the CSA: decarbonizing research and development service contracts and advanced control strategies for the CSA's Space Centre. The first involves conducting a life cycle assessment on an outer space project to gather relevant data on the environmental impacts of these missions, while the second involves optimizing boiler control systems at the Space Centre in Longueuil, Quebec.

The CSA will continue to ensure that its decision-making process includes consideration of FSDS goals and targets through its Strategic Environmental and Economic Assessment (SEEA) process. A SEEA for a policy, program or regulatory proposal includes an analysis of the climate, nature, environmental and economic effects of the given proposal.

Public statements on the results of the CSA's assessments are issued when an initiative that was the subject of a detailed SEEA is implemented or announced. The purpose of the public statement is to demonstrate that the environmental and economic effects, including contributions to the FSDS goals and targets, of an initiative have been considered during the proposal's development and decision making.

To complete a SEEA, the CSA must complete the mandatory [Climate, Nature and Economy Lens](#) (CNEL), to ensure that any SEEAs are conducted appropriately and consistently. The preliminary screening portion of the CNEL requires the CSA to consider whether a proposal could produce important effects related to greenhouse gases (GHG) and/or impact Canada's GHG emissions reduction plans or targets, have important impacts on nature and biodiversity, and have other important environmental effects. Responses to the preliminary screening portion of the CNEL determine whether the CSA undertakes a detailed SEEA process, which includes quantitative greenhouse gas modelling or economic modelling results.

The CSA did not have any proposals subject to a detailed SEEA that were announced or implemented in 2024–25.