# PSPC Acquisitions Program Overview of Green & Clean Tech

Approvisionnement écologique et technologie propre du Programme des approvisionnements de SPAC

Presentation to CIPMM Mentorship group April 2025





# Agenda ~ Ordre du jour

- Introductions & Overview
- Who we are and what we do
- What is Green Procurement?
- Why is green procurement important?
- What is the Green Procurement policy framework?
- How do we know if it's green?
- What tools and guidance are available?
- Call to action: What can you do?

- Les introductions et l'aperçu
- Qui nous sommes, ce que nous font
- Qu'est-ce que c'est l'approvisionnement écologique?
- Pourquoi est-ce que l'approvisionnement écologique est important?
- Qu'est-ce que c'est le cadre politique d'approvisionnement écologique?
- Comment savons-nous que c'est écologique?
- Quelles outils et conseils sont disponibles
- Qu'est-ce que vous pouvez faire?
- Questions & Discussion

# Introductions and Overview Les introductions et l'aperçu



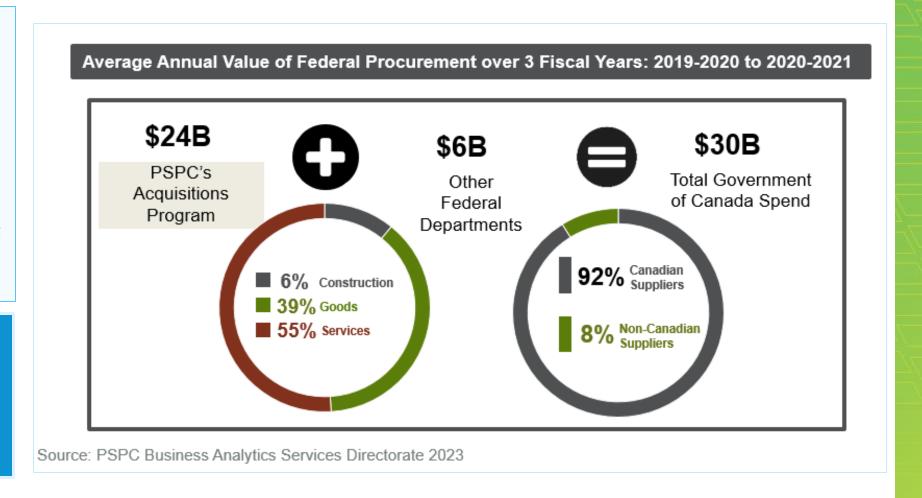
# Public Services and Procurement Canada: Overview

**PSPC** is the central federal purchasing agent and real property manager for the Government of Canada

**Vision:** to excel in government operations

Mission: to deliver high-quality, central programs and services that ensure sound stewardship on behalf of Canadians and meet the program needs of federal institutions

The GoC owns approx. 32,000 buildings, 20,000 engineering assets and 40,000 fleet and is the largest asset owner in Canada.



# **PSPC Green and Clean Technology Procurement Technical Team**



**Key actors in a procurement** 

- ➤ Located within Procurement Branch Strategic Policy Sector, we are **green and clean tech procurement advisors** who help PSPC contracting authorities apply the Policy on Green Procurement and achieve the goals of the Greening Government Strategy:
  - Identify environmental impacts/opportunities, relevant international standards, certifications and eco-labels
  - Assess market readiness
  - Include technical specifications, evaluation criteria and instructions to and options for buyers
  - Develop standard procurement language and legally reviewed clauses
  - Capture performance metrics in existing tools and build new tools (e.g. carbon footprint calculators, GPPT)

## Definition of "Green" or environmentally preferable

"Environmentally preferable goods and services are those that have a lesser or reduced impact on the environment over the life cycle of the good or service, when compared with competing goods or services serving the same purpose. Environmental considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; reduced toxic and hazardous substances; and biodiversity."

- Policy on Green Procurement

- Regulatory compliance is assumed.
- Canada's Competition Bureau requires that environmental claims must not be false or misleading and must be based on <u>adequate and proper testing</u>



## **Clean Technology**

The Government of Canada defines clean technology as:

- Any good or service designed with the primary purpose of contributing to remediating or preventing any type of environmental damage.
- Any good or service that is less polluting or more resource efficient than equivalent normal products that furnish a similar utility.

Examples include: renewable and non-emitting energy; smart grid and energy storage; advanced and lightweight materials; energy efficiency controls and design; air, water, wastewater and environmental remediation; transportation; waste and recycling; and biofuels and biomaterials.

Source: Clean Technology Data Strategy: <a href="https://ised-isde.canada.ca/site/clean-growth-hub/en/clean-technology-data-strategy">https://ised-isde.canada.ca/site/clean-growth-hub/en/clean-technology-data-strategy</a>



# Circular Economy ~ Économie circulaire

#### Linear

Raw material is transformed into a product and this product is thrown away at the end of its life-cycle.

#### Linéaire

La matière première est transformée en produit et où ce produit, à la fin de son cycle de vie, est jeté

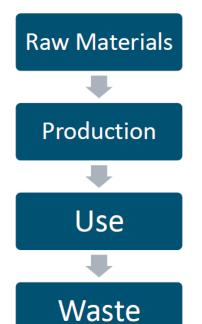
#### Circular

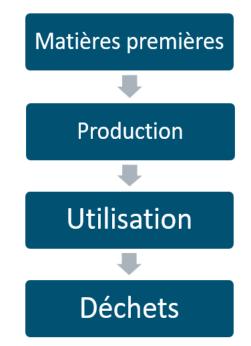
Extracts as much value as possible from resources by recycling, repairing, reusing, repurposing, or refurbishing products and materials

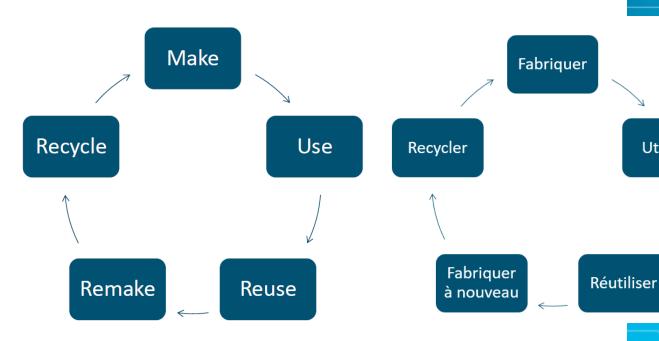
#### Circulaire

On extrait le plus de valeur possible des ressources en recyclant, en réparant, en réutilisant ou en remettant à neuf des produits et des matériaux.

Utiliser







Text and images: TBS 2022

Why is green procurement important?/ Pourquoi est-ce

que l'approvisionnement vert est important?

Science

### Arctic sea ice jammed with plastics from Pacific garbage patch









Up to 12,000 particles per litre, most small enough for tiny marine organisms to eat, researchers find



Emily Chung · CBC News · Posted: Apr 24, 2018 12:36 PM ADT | Last Updated: April 24, 2018



Greenhouse

gas (GHG)

emissions

Gaz d'effet de serre (GES)

Great Pacific Garbage Patch (forbes.com)

Radio-canada | Menu 🗸

NFO

la une En continu ICI RDI Vidéos

ACCUEIL | INFO | ENVIRONNEMENT | POLLUTION

Blanc comme neige? Des microplastiques portés dans les airs jusqu'en Arctique

**Plastic** Waste Les déchets en plastique







Hurricane Fiona Atlantic Canada (Toronto Star) September 24, 2022

# International Environmental Commitments ~ Les engagements internationaux de l'environnement

Canada is a signatory to the United Nations Framework Convention on Climate Change treaty (197 countries as of 2020)

Signatories committed to limit global warming to less than two degrees Celsius, and try to limit the increase to 1.5 degrees Celsius (Paris Agreement)

Governments mobilizing around decarbonization, with >100 nations committing to zero carbon by 2050

Post-COVID economic recovery packages accelerating this transition (EU Green New Deal €100bn over 7 years; U.S. \$2T infrastructure and climate package)

The <u>Greening Government Initiative (GGI)</u> is an international community of practice for officials engaged in increasing the environmental sustainability of national government operations.

The <u>Ocean Plastic Charter</u> commits Canada to significantly reducing single use plastics and using public procurement to reduce waste, support secondary plastics markets and alternatives to plastics.









Le Canada est signataire de la Convention-cadre des Nations unies sur les changements climatiques (197 pays depuis 2020)

Les signataires se sont engagés à limiter le réchauffement de la planète à moins de deux degrés Celsius et à essayer de limiter l'augmentation à 1,5 degré Celsius (Accord de Paris)

Les gouvernements se mobilisent autour de la « décarbonisation », avec plus de 100 nations qui s'engagent à ne pas émettre de carbone d'ici 2050

Les travaux de relance économique post-COVID accélèrent cette transition (Un pacte vert pour l'Europe : 100 G€ sur 7 ans; travaux sur l'infrastructure et le climat des États-Unis : 2 TUSD).

La <u>Greening Government Initiative (GGI)</u> est une communauté de pratique internationale pour les responsables engagés dans l'augmentation de la durabilité environnementale des opérations gouvernementales nationales.

Le <u>Charte sur les plastiques dans les océans</u> engage le Canada de réduire de façon importante le recours inutile aux plastiques à usage unique et utiliser les marchés publics écologiques pour réduire les déchets et soutenir les marchés secondaires des plastiques et les alternatives au plastique.

## **PSPC Green Procurement Commitments**

#### **Budget Commitments**

- Budget 2021 (April 2021): Government's plan "for a green recovery that fights climate change, helps more than 200,000 Canadians make their homes greener, builds a net-zero economy by investing in world-leading technologies that make industry cleaner, helps Canada reach its goal of conserving 25 per cent of our lands and oceans by 2025, and creates good middle-class jobs in the green economy along the way."
- Budget 2022 (April 2022): Public Services and Procurement Canada (PSPC) will develop new tools, guidelines, and targets to support the adoption of green procurement across the federal government.

#### **PSPC Mandate Letter Commitments**

- Seek opportunities to support whole-of-government effort to reduce emissions, create clean jobs and address the climate-related challenges communities are already facing
- Ensure federal procurement practices support Canada's transition to a green economy, including through ongoing greening of government operations and procurement of Canadian clean technology
- Strengthen federal procurement practices to prioritize reusable and recyclable products in support of our goal of zero plastic waste
- With other government departments, introduce a new Buy Clean Strategy to support and prioritize the use of made-in-Canada low-carbon products in Canadian infrastructure projects

# **Green Procurement Policy Framework**



#### **Legislative Requirements:**



- <u>Federal Sustainable Development Act and Strategy (FSDS) (any government)</u>
  - Identifies government-wide environmental (including green procurement) targets and obligations related to reporting
- <u>Canadian Net-Zero Emissions Accountability Act</u> (any government)
  - Establishes legal requirement for Canada to achieve net-zero greenhouse gas emissions by 2050



### **Treasury Board Policy Suite:**



- Directive on the Management of Procurement
  - Mandates collaboration between procurement professionals and technical authorities to use procurement criteria to ensure
    operational outcomes and environmental & socioeconomic objectives are achieved.
  - <u>Includes the Code of Conduct for Procurement;</u> requires suppliers and sub-contractors to conduct activities in a socially and environmentally responsible manner, references the *Policy on Green Procurement*
- Policy on Green Procurement (any government)
  - Requires PSPC to include environmentally preferable options in the procurement services offered to client departments
  - <u>Standard on Embodied Carbon in Construction</u> effective December 31, 2022
  - Standard on the Disclosure of Greenhouse Gas Emissions and the Setting of Reduction Targets effective April 1, 2023 (



#### **Cabinet Directives & Publications:**



- Greening Government Strategy (cabinet document)
  - Integrating criteria that address life-cycle analysis, GHG reduction, plastic waste, and climate resilience
  - the Government of Canada's net-zero emissions by 2050 commitment includes Scope 3 (supply chain)
- Pan-Canadian Framework on Clean Growth and Climate Change
  - Agreement between federal government, provinces and territories and in consultation with Indigenous peoples, to reduce emissions, grow the economy, build climate resilience and drive innovation through carbon pricing and technology development.

## Policy on Green Procurement, 2006

PSPC will: "include environmentally preferable options (i.e. that have a lesser or reduced impact on the environment over the life cycle of the good or service, when compared with competing goods or services serving the same purpose) in the procurement services offered to client departments where feasible."



## What are High-Impact Categories (HICATs)?

- Policy on Green Procurement applies to all procurement and is multi-impact
- HICATs are categories of goods, services and construction that have a relatively higher environmental impact
- Two main lenses: greenhouse gas (GHG) and waste (plastics)



## **Plastics (Reeve report)**

Packaging

Construction & Real Property

Electronics & Electrical, Office Machines, Appliances

**Furniture** 

Office Supplies

Fleet

Defense

**Medical Supplies** 

Lab Supplies



## **GHG (CIRAIG study)**

Vehicles and Defense

Energy (electricity and fuels)

**Relocation Services** 

Real Property Services

**Professional Services** 

Construction

**Drugs & Biologicals** 

**Contaminated Sites** 

IT Hardware & Software

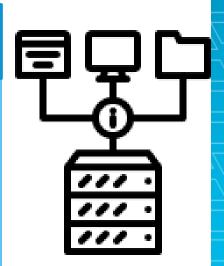
## Low Carbon Procurement with Life Cycle Assessment

Life-Cycle Assessment (LCA) is a systematic framework to quantify potential
environmental impacts over the life cycle of a good or service. It captures a
comprehensive chain of events and activities that are necessary to support the
product or process

\*\*\* New\*\*\* Greening Government Strategy (GGS) requires high-value procurements to provide greenhouse gas (GHG) LCAs for high-value procurements

# GOAL REDUCE LIFE-CYCLE IMPACTS FROM PROCUREMENT: GGS LCA commitment

- **Objective**: The LCA commitment aims to reduce the environmental footprint of government procurement activities.
- **Departmental responsibility:** Departments are responsible for applying the commitment to all new procurements valued over \$25 million initiated on or after April 1, 2025, and are encouraged to adopt it for lower thresholds where feasible
- **Key deliverable**: GHG LCAs for high-value procurements
- Implementation guidance from TBS was posted in January 2025



## Standard on the Disclosure of Greenhouse Gas Emissions



#### Reduce GHG Emissions

Include an incentive or requirement for suppliers to disclose their greenhouse gas emissions and set reduction targets through Canada's **Net-Zero Challenge** or another equivalent initiative

### **Application**

- For procurements >\$25M
   initiated on or after April 1, 2023
- Not applicable to amendments; contractual arrangements; procurements using emergency contracting authorities; or procurements established through Foreign Military Sales (FMS)

#### PN-157

- PN-157 Standard on the Disclosure of Greenhouse Gas Emissions and the Setting of Reduction Targets
- Includes 4 implementation pathways
   & 7 approved SACC manual clauses
   + FAQ
- Alto course launched December 2023
- Carbon footprint calculator will be available for suppliers to conduct a GHG inventory

Applicable to ALL Departments in S.2 of the *Financial Administration Act.* TBS implementation guide includes:

- information on application, roles and responsibilities
- examples of evaluation criteria and contract clauses
- a decision tree and a reporting template

Link to the GCPedia page on green procurement



# PSPC Standard Language on Environmentally Preferable Packaging



## Reduce Plastic Waste

PSPC is incorporating the notions of circular economy and is also prioritizing the procurement of sustainable plastics and promoting standard language to require sustainable plastic alternatives.

1

### **Procurement Language on Environmentally Preferable Packaging**

 Supports Greening Government Strategy commitments and PSPC's mandate letter commitment to strengthen federal procurement practices to prioritize reusable and recyclable products in support of our goal of zero plastic waste



2

### Policy Notification 158 on Environmentally Preferable Packaging

■ PN-158 came into effect on September 7, 2023:

"Public Works and Government Services Canada (PWGSC) Acquisitions Program (AP) contracting officers will include mandatory or optional Standard language for environmentally preferable packaging (the standard language) to reduce plastic waste generated during the procurement process by requiring suppliers to package their goods in packaging that is reusable, returnable, or recyclable, as per the commitments in the <u>Greening</u> <u>Government Strategy: A Government of Canada Directive</u>."



4 new legally approved clauses to be used depending on market readiness

# How do we know if it's "green"? REQUIRE EVIDENCE- Certifications

Type I (ISO 14024)

Environmental labelling (eco-label)



Self-declared Environmental claims



**Environmental Product Declaration** 



**Performance Standards** 

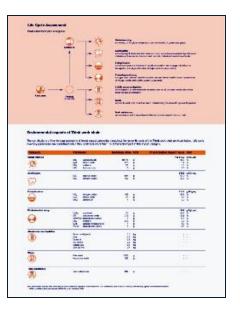


















## How Do We Include "Green" in Procurement?

➤ Once we know the minimum standards/certifications, how do we include them in the procurement process?

#### In the Solicitation:

- Evaluation criteria
  - Mandatory
  - Point-rated
- Certification
- Conditionally Limited Solicitation

#### In the Contract:

- "Stand-alone" contract clause
- Certification
- Statement of Work/Statement of Requirement
- GHG Calculator Data Collection Pilot (LCPP)

### • Remember:

- ✓ Business Owner responsible for including environmental considerations in the SoW/specification
- ✓ Procurement officer responsible to provide recommendations and include in the procurement strategy/instrument.

Directive on the Management of Procurement- Canada.ca

# Procurement planning

- · Re-thinking needs
- Market research into environmental impacts and relevant standards and ecolabels, supplier readiness

### Requirement Definition

- Environmental specifications, technical standards and ecolabel criteria
- Performance and functional requirements and life cycle costing approach
- Consider any new production and process methods

#### Evaluation

- Apply Life-cycle costing calculation to bid evaluation
- Environmental Evaluation criteria
- · Incentive-based weighted scoring

### Contract Management

- Working with Suppliers to improve sustainability performance
- Using environmental contract performance clause
- Leverage contract amendment(s) to add or update environmental considerations

## **Standing Offers and Supply Arrangements**

- ✓ Agreements with suppliers offer goods and services on an "if and when requested" basis
- ✓ Main procurement instrument used by PSPC and many other government departments (OGDs) and provinces, territories, municipalities, academic and health organizations (MASH sector)
- ✓ Large spend
- ✓ PSPC establishes new SOSAs strategically and opportunistically
- ✓ Used as a key performance indicator (KPI) to measure greening progress for Sustainability reporting to Treasury Board (e.g. DSDS, DRR)
  - # of SOSAs with green criteria: over 50% of our almost 7,500 SOSA agreements have environmental criteria, however, there is a clear need to integrate relevant and impactful environmental considerations into SOSAs

## 10 Mandatory Commodities



N84: Clothing, Individual Equipment and Insignia



N58: Communication, Detection, and Coherent Radiation Equipment



N91 Fuels/Lubricants



N71 Office Furniture & Seating



N70: General Purpose Automatic Data Processing Equipment (e.g hardware & software )



**N23 Vehicles** 



D3: Information Processing and Related Telecommunication Services



N74: Office Machines, Text Processing Systems and Visible Record Equipment



N75 Office Supplies and Devices



R: Professional, Administrative and Management Support Services

## Resources ~ Ressources

#### Policy/Politique

**Training/** 

**Formation** 

Policy on Green **Procurement** 

Politique d'achats écologiques

PN157-Standard on the Disclosure of Greenhouse Gas Emissions and the Setting of Reduction Targets AP157-Norme sur la divulgation

des renseignements liés aux

et l'établissement des cibles de

réduction

PN-158 - Environmentally Preferrable Packaging AP-158 Emballage émissions de gaz à effet de serre écologique

Canada School of Public Service École de la fonction publique

> du Canada COR405 CHC111 CHC101 CHC102 CHC103

PSPC Alto course Course ID:

0000010462 Formation à Alto

Information sessions Séances d'info

#### **Tools/Outils**

Standing Offers & Supply Arrangements App

Application sur les offres à commandes et arrangements en matière d'approvisionnement

d'approvisionnement à faibles émissions de carbone

Low Carbon Procurement

Project

**Projet** 

GPPT (in developmenten cours)

Product Search | Canada (ecomedes.com)

### Resources/ Ressources

**PSPC Supply Manual** (SM)- <u>Chapter 1 –</u> Environmental Considerations

Politique d'achats écologiques

**Green Procurement** Website

Outils d'achat de produits <u>écologiques</u>

GCpedia - Green **Procurement** 

Achats écologiques — **GCpedia** 

#### Green procurement tools

Resources and procedures for government departments and industry to minimize the environmental impacts of procurement and accelerate the global transition to a net-zero, circular economy

#### Website changes are happening

Throughout 2023, Public Services and Procurement Canada (PSPC) will adopt the Canada.ca look for its web content. This may impact you as content will be reorganized, old content will be removed and all page addresses (URLs) will be changed. You may need to update your bookmarks or favourites

#### Green procurement planning Guide to help develop green procus

Applying the Policy on Green apply the policy

About green procurement in

Green and clean technology

Mandatory criteria

Environmental criteria for contracting

Green language for procurement

mpilation of wording used in p

#### Publications and resources

Policies resources and documents related to green procurement.

#### Greening achievements and

contribute to enhancing Canada's economic prosperity and resilience while protecting its

#### Outils d'achat de produits écologiques

Ressources et procédures permettant aux services gouvernementaux et à l'industrie d'atténuer les répercussions environnementales de l'approvisionnement, et accélérer la transition mondiale vers une économie circulaire à zéro gaz à effet de serre.

#### Planification des achats écologiques Guide pour l'élaboration de plans d'acha écologiques.

Application de la Politique d'achats écologiques

Des conseils et des outils pour aider le autorités contractantes, les ministères clients et les fournisseurs à appliquer la politique

#### Critères environnementa passation de marché.

Réalisations et contributions en d'écologisation

Les réalisations de la fonction p mique et la résilience du Canada tout en protégeant ses intérêts nationaux.

#### Politiques, ressources et documents relatifs aux achats écologiques. À propos des achats écologiques au sein

Publications et ressources

du gouvernement

Acheter des biens et des services avant un

#### Achats écologiques et technologies

Ce que nous faisons et commen communiquer avec nous

Espace québécois de concertation sur les pratiques d'approvisionnement responsable https://www.ecpar.org/

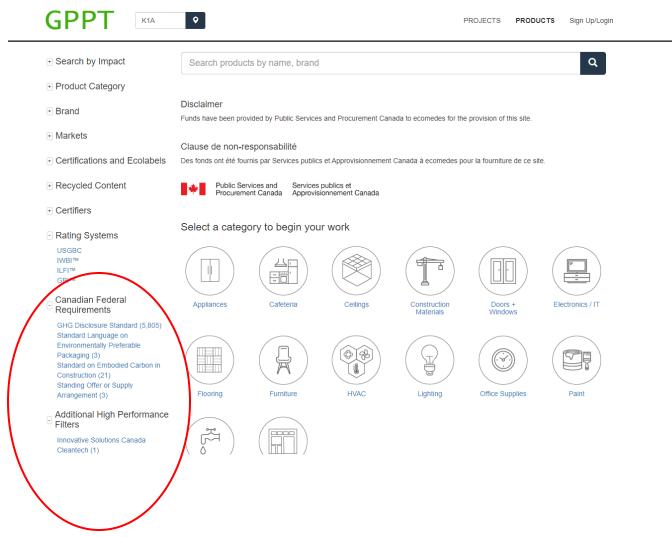


# Green Products Database (GPPT) L'outil de base de données de produits écologiques



# What is the Green Public Procurement Tool (GPPT)?

- Customized and configured ("Canadianized") version of a certified environmentally preferable products database used by the United States Government and other large institutional buyers in the U.S. (e.g. universities, the Sustainable Purchasing Leadership Council etc.) in procurement and real property applications
- Product Search | Canada (ecomedes.com)

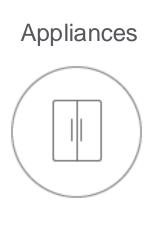


# How we intend to use the GPPT in Canada Pilot Phase

- 1. Internally: as a research tool to share information between clients and buyers about available environmentally preferable products including those from Canadian cleantech SMEs
- 2. Externally: available publicly to anyone, the database is a public source of third-party verified environmental information that is upto-date (database updated monthly) and available for use across supply chains and product categories

As more Canadian products are added and as the certifications are vetted, there is the potential that its use be incented or required in procurement processes and in real property contracting

## **Scope of Product Category Consultation**













HVAC

Electronics

IT – Office





Office

Office Supplies and Packaging

Plumbing

- Stakeholder engagement: Stakeholder Engagement: Public Services and Procurement...
- Survey: <u>Green Public Procurement Tool for the Government of Canada Stakeholder</u> Engagement Survey

## **GPPT Timeline**

Year 1: 2023-24

Year 2:

2024-

2025

2025-2026

Year 3:

Year 4 and beyond

- ➤ Project kick-off with supporting Contractors (ecomedes, Circular Innovation Council, MaRS)
- ➤ Build Core Internal Project Team
- ➤ Develop assessment framework
- ➤ Initiate stakeholder engagements (five category groups)

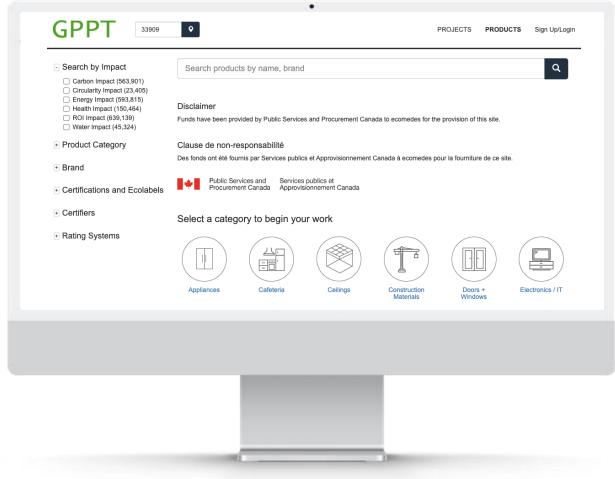
- Customize database for Canada with existing federal procurement requirements:
  - ➤ GHG Disclosure
  - ➤ Packaging
  - ➤ Clean Tech
- ➤ Develop & obtain approval for category-specific filter recommendations for 5 category groups and code into database
- ➤ Conduct stakeholder engagement on 15 category groups

- ➤ Develop & obtain approval for stakeholderinformed categoryspecific filter recommendations for 10 category groupings and code into database
- ➤ Launch official website in both official languages
- ➤ Continue to onboard domestic suppliers, manufacturers and firms

Secure source of funding to continue this initiative!

## **Ecomedes Technology**

## **Platforms configured for Institutional Buyers**



## Canada.ecomedes.com

### **How Does this Help You?**

- The platform was designed to save you time
- Increase Green Procurement within Government
- Streamline Green procurement reporting for Agencies and Departments

# Some of the most common activities that the platform streamlines:

- Searching for products that meet the certifications, ecolabels, specifications, etc
- Analyzing product performance attributes
- Documenting procurement and project decisions
- Sharing Impact Reports with project team members

## **Ecomedes Technology**

### **Data Collection & Curation**

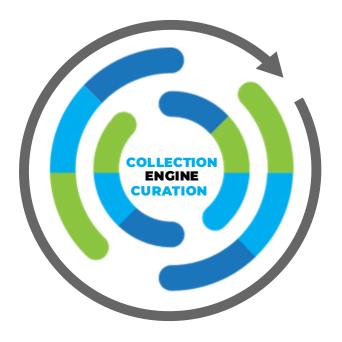


#### **Data Enrichment**

**Building Product Manufacturer Sourced:** 

- Company / Organizational Attributes
- Brand / Product Assets
- Product Performance Attributes
- Adjacent Brand Resources

## **Refreshed Monthly**



Largest Curated Product Database in the market ~10,000 Brands ~1,200,000+ Products

~100+ Ecolabels / Certifications / Standards

~60+ Registry Sources

~3,000 Unique Brand/Factory/Product Attributes

## Demo

## **Questions & Discussion**



## Socio-economic Lenses of Federal Public Procurement

• <u>Comprehensive Land Claims</u>
<u>Agreements</u>: specific obligations related to procurement
<u>Procurement Strategy for</u>
<u>Indigenous Business</u>: "setaside" for Indigenous suppliers
<u>5%</u> objective
Indigenous Participation
Plans (IPP)

Indigenous Procurement Social Procurement

- <u>PSPC Policy on Social</u> <u>Procurement</u>
- Supplier diversity: increasing the number of underrepresented suppliers participating in PSPC bid solicitations:
  - <u>Accessible Canada Act</u> <u>Accessibility in Procurement</u>

 Safeguard federal procurement supply chains from forced labour, child labour and human trafficking, and ensure that it does business with ethical suppliers

Ethical Procurement

Green Procurement

- •Reduce the environmental impacts of government operations, by integrating environmental considerations in the procurement process
- <u>Greening Government Strategy:</u>
  <u>A Government of Canada</u>

  Directive
  - <u>Policy on Green Procurement-</u> <u>Canada.ca</u> (2006, 2018)

- <u>Protecting human rights in federal supply chains</u>
- Requirements for the ethical procurement of apparel



# Will You be a Green Procurement Superhero?

- What have you learned today that you didn't know before?
- How do you think you will apply what you have learned today in your day-to-day work?
- Examples:
  - Do you work on categories where including environmental considerations can be reasonably accomplished?
    - If yes, how?
  - Will you raise environmental considerations proactively in conversations with clients or with your manager?

## **Discussion**

- What are the greatest barriers, gaps or challenges that you find in implementing green or clean tech considerations into your procurements?
- Do you have any success stories to share?
- Do you have any ideas of procurements that would lend themselves well to a green or clean tech procurement pilot? E.g.
   sustainable packaging or durability?
- Quels sont les principaux obstacles, lacunes et défis avec lesquels vous avez à composer lors de la mise en œuvre de considérations liées aux technologies vertes ou propres dans vos marchés?
- Avez-vous des exemples de réussite à nous faire part?
  - Avez-vous des idées de marchés qui se prêteraient bien à un projet pilote d'approvisionnement en technologies vertes ou propres? Par exemple, l'emballage durable ou la durabilité?







