Integrated Business Statistics Program (IBSP)

# 2024 Annual Survey of Research and Development in Canadian Industry Industrial Non-profit Organizations

#### CONFIDENTIAL once completed.

Selon nos dossiers votre langue de préférence est l'anglais, si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-877-949-9492 ou ATS 1-800-363-7629

This information is collected under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S-19.

COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THIS ACT.

### Introduction

#### Survey purpose

This survey collects information on scientific activities of Canadian businesses and industrial non-profit organizations. The research and development expenditures and personnel information is used by federal, provincial and territorial governments and agencies, academics, trade associations and international organizations for statistical analyses and policy purposes. These data also contribute to national totals of research and development activities. The payments and receipts information is used by these agencies to monitor knowledge flows across international borders and between Canadian organizations.

Your information may also be used by Statistics Canada for other statistical and research purposes.

#### Security of emails and faxes

Statistics Canada advises you that there could be a risk of disclosure during facsimile or email. However upon receipt, Statistics Canada will provide the guaranteed level of protection afforded all information collected under the authority of the *Statistics Act*.

**Note:** Our online questionnaires are secure, there is no risk of data interception when responding to Statistics Canada online surveys.

#### Confidentiality

The Statistics Act protects the confidentiality of information collected by Statistics Canada.

#### **Data-sharing agreements**

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Information on confidentiality, data-sharing agreements and record linkages can be found on the last page of this questionnaire.

# Please return the questionnaire within 30 days.

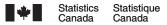
Please mail the completed questionnaire in the enclosed envelope or fax it to Statistics Canada at 1-888-883-7999.

If you are unable to complete within 30 days **or** if you need help, call us at **1-877-949-9492** or **TTY 1-800-363-7629**.

Statistics Canada
Operations and Integration Division
150 Tunney's Pasture Driveway
Ottawa, Ontario K1A 0T6

Visit our website, www.statcan.gc.ca

5-3600-4201.1: 2025-04-11





# **Reporting instructions**

- Please print in ink.
- Report dollar amounts in thousands of Canadian dollars.
- Exclude sales tax.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Do not report dollars in decimals. Round all values to the nearest whole number.
- If this organization performs in-house R&D and outsources R&D, complete all questions.
- If this organization performs in-house R&D and does not outsource R&D, complete questions 1-6, 9-22.
- If this organization outsources R&D and does not perform in-house R&D, complete questions 1-4, 6-8, 13, 17-22.
- If this organization does not perform in-house R&D and does not outsource R&D, complete questions 1-4, 6, 13, 17, 18 & 20-22.
- Consult the reporting guide at www.statcan.gc.ca/guides-e for further information.

В	usiness or organization and contact informat	ion
1.	Verify or provide the business or organization's legal and ope Note: Legal name modifications should only be done to correct a spelling error or	
	Legal name	Operating name (if applicable)

Logal nama	Operating name (if applicable)
Legal name	Operating name (if applicable)
information if needed.	ted <b>contact person</b> for the business or organization, and correct questionnaire. The designated contact person may not always be the one who
	Location
First name	Last name
Title	Preferred language of communication
	English French
Mailing address (number and street)	
City	Province, territory or state
Postal code or ZIP code Example: A9A 9A9 or 12345-1234	
Country	
Email address	
Example: user@example.gov.ca	
	ion number licable)
Fax number (including area code) Example: 123-123-1234	

3. <b>Verify or provide the current operational status</b> of the business or organization identified by the legal and operating name above.  800323
¹ Operational → Go to question 4
Not currently operational  e.g., temporarily or permanently closed, change of ownership
Why is this business or organization not currently operational?  800309  2 Seasonal operations → Go to question 3a
Ceased operations → Go to question 3b
<sup>4</sup> Sold operations → Go to question 3c
<sup>5</sup> Amalgamated with other businesses or organizations → Go to question 3d
<sup>6</sup> Temporarily inactive but expected to reopen → Go to question 3e
No longer operating because of other reasons → Go to question 3f
3a. Seasonal operations
When did this business or organization close for the season?
Date YYYY MM DD
When does this business or organization expect to resume operations?
Date YYYY MM DD  → Go to question 4
3b. Ceased operations
When did this business or organization cease operations?
Date  YYYY  MM DD  Date
Why did this business or organization cease operations?
<sup>1</sup> Bankruptcy
<sup>2</sup> Liquidation
<sup>3</sup> Dissolution → Go to question 4
Other Specify the other reasons why operations ceased  B00312
<b>+</b>

30	Sold operations
55.	
	When was this business or organization sold?
	YYYY MM DD 800212
	Date
	What is the legal name of the buyer?
	→ Go to question 4
	Go to question 4
3d.	Amalgamated with other businesses or organizations
	When did this business or organization amalgamate?
	YYYY MM DD
	Date
	What is the legal name of the resulting or continuing business or organization?
	800407
	What are the legal names of the other amalgamated businesses or organizations?
	800408
	→ Go to question 4
3e.	Temporarily inactive but expected to reopen
	When did this business or organization become temporarily inactive?
	YYYY MM DD
	Date
	When does this business or organization expect to resume operations?
	MM DD B00215
	Date
	Why is this business or organization temporarily inactive?
	B00313
	→ Go to question 4
3f.	No longer operating because of other reasons
	When did this business or organization cease operations?
	YYYY MM DD
	Date
	Why did this business or organization cease operations?
	500.14

Or	ganization characteristics
Re	porting period
	YYYY MM DD 800206
1.	What is the end date of this organization's fiscal year?
	Note: For this survey, this organization's fiscal year end date should fall on or before March 31, 2025.
	Here are some examples of fiscal periods that fall within the targeted dates:
	May 1, 2023 to <b>April 30, 2024</b> July 1, 2023 to <b>June 30, 2024</b>
	October 1, 2023 to <b>September 30, 2024</b>
	January 1, 2024 to <b>December 31, 2024</b> February 1, 2024 to <b>January 31, 2025</b>
	April 1, 2024 to <b>March 31, 2025</b>
	*THIS FISCAL YEAR WILL BE REFERRED TO AS <b>2024</b> THROUGHOUT THE QUESTIONNAIRE*
Or	ganization status
	800419
2.	What is this organization's <b>GST</b> number (9-digit business number)?
	CAN\$ '000
0	In 2004, what were this appropriation to take a way literary within Consular
3.	In 2024, what were this organization's total expenditures within Canada?  Please report all amounts in thousands of Canadian dollars.
3.	
3.	Please report all amounts in <b>thousands</b> of Canadian dollars.
3.	Please report all amounts in <b>thousands</b> of Canadian dollars.
3.	Please report all amounts in <b>thousands</b> of Canadian dollars.  If precise figures are not available, please provide your best estimate.  \$ ,000
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3.	Please report all amounts in thousands of Canadian dollars.  If precise figures are not available, please provide your best estimate.  Before you begin  For this survey  'In-house R&D' refers to  Expenditures within Canada for R&D performed within this organization by:
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3.	Please report all amounts in thousands of Canadian dollars.  If precise figures are not available, please provide your best estimate.  Before you begin  For this survey  'In-house R&D' refers to  Expenditures within Canada for R&D performed within this organization by:  • employees (permanent, temporary or casual)  • self-employed individuals or contractors who are working on-site on this organization's R&D projects.  'Outsourced R&D' refers to  Payments made within or outside Canada to other organizations, businesses or individuals to fund R&D performance:  • grants
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In-	hou	se research and development (R	<b>1</b> &F	O) expenditures				
4.	with	2024, 2025 and 2026, did this organization nin Canada?  lude payments for outsourced (contracted out of the contracted out of the co					fo	rmed in-house
5.	with Plea	2024, 2025 and 2026, what are this organization Canada?  Use report all amounts in thousands of Canadian			exp	enditures for <b>R&amp;D perf</b>	orr	ned in-house
	Rep	ort '0' for no R&D expenditures.		Made in 2024		Planned in 2025		Planned in 2026
		rrent in-house R&D penditures within Canada		CAN\$ '000		CAN\$ '000		CAN\$ '000
	a.	Wages, salaries of permanent, temporary and casual <b>R&amp;D</b> employees <b>Include</b> fringe benefits	\$	E45077_sr1				
	b.	Services to support <b>R&amp;D</b> Include services of self-employed individuals or contractors who are working on-site on this organization's <b>R&amp;D</b> projects. Exclude contracted out or granted expenditures to other organizations to perform <b>R&amp;D</b> (report in question 7)	\$	E45077_sr2 ,000				
	c.	R&D materials	\$	,000				
	d.	All other current <b>R&amp;D</b> costs <b>Include</b> overhead costs	\$	,000				
		Total current in-house R&D expenditures within Canada	\$	,000	\$	,000	\$	£45082 ,000
	Ca <sub>l</sub>	pital in-house R&D penditures within Canada						
	e.	Software Exclude capital depreciation	\$	,000				
	f.	Land  Exclude capital depreciation	\$	,000				
	g.	Buildings and structures  Exclude capital depreciation	\$	,000				
	h.	Equipment, machinery and all other capital <b>Exclude</b> capital depreciation	\$	,000				
	20	024 - Total capital in-house R&D expenditures within Canada	\$		\$	,000	\$	<b>E45083</b>
	20	024 - Total in-house R&D expenditures within Canada	\$	,000				

Ou	tso	urced (contracted out or granted) R&D expenditures			
3.	outs	024, did this organization have outsourced (contracted out or granted side Canada?	d) R&D expenditures wit	thin Canada or	
	inci	<ul> <li>• funding or grants provided to other organizations to perform R&amp;D</li> <li>• contracted out expenditures for R&amp;D.</li> </ul>			
		lude services of self-employed individuals or contractors who are working on-sch should be reported earlier as part of in-house R&D expenditures in question		&D projects,	
	B05152	Yes Yes			
		<sup>2</sup> No → Go to question 8			
7.		1024, what were this organization's outsourced (contracted out or grastice Canada?	nted) R&D expenditures	s within Canada or	
	Plea	ise report all amounts in <b>thousands</b> of Canadian dollars.			
			Within Canada	Outside Canad	la
			CAN\$ '000	CAN\$ '000	
			E46096_sr1	E43039_sr1	
	a.	Companies	,000		,000
			E46096_sr2	E43039_sr2	
	b.	Private non-profit organizations	,000 E46096_sr3	\$ E43039_sr3	,000
	c.	Industrial research institutes or associations	,000	\$	,000
	d.	Hospitals	E46096_sr4	E43039_sr4	,000
	u.	Tiospitais	E46096_sr5	E43039_sr5	,000
	e.	Universities	,000	\$	,000
			E46096_sr6		
	f.	Federal government departments and agencies	,		
	g.	Provincial or territorial government departments,	E46096_sr7		
		ministries and agencies	,000 E46096_sr8		
	h.	Provincial or territorial research organizations	,000		
	i.	Other organizations	E46096_sr9	E43039_sr6	
		e.g., individuals, non-university educational institutions, foreign governments.	,000	\$	,000
			E46210	E43030	
	202	24 - Total outsourced (contracted out or granted) R&D expenditures		\$	,000
3.		025 and 2026, what are this organization's planned outsourced (conada or outside Canada?	tracted out or granted) R	<b>&amp;D expenditures</b> wit	hin
	-	ort '0' for no R&D expenditures.			
	Plea	se report all amounts in <b>thousands</b> of Canadian dollars.	Within Canada	Outside Canad	la
			CAN\$ '000	CAN\$ '000	
	202	25 - Total outsourced (contracted out or granted) R&D expenditures	E46097	E43041	,000
			E46098	E43042	,000
	202	26 - Total outsourced (contracted out or granted)			
		R&D expenditures	,000	\$	,000

# Geographic distribution of in-house R&D expenditures within Canada in 2024

Exc	<ul> <li>payments for outsourced (contracted out or granted) R&amp;D, which should be reported in question 7</li> <li>capital depreciation.</li> </ul>		Current in-house R&D expenditures		Capital in-ho R&D expendit	
Plea	se report all amounts in <b>thousands</b> of Canadian dollars.					
			CAN\$ '000		CAN\$ '000	0
			E45077_g1		E45078_g1	
a.	Newfoundland and Labrador	\$	,00	00 \$		,
			E45077_g2		E45078_g2	
э.	Prince Edward Island	\$	,00	00 \$		
			E45077_g3		E45078_g3	
Э.	Nova Scotia	\$	,00	00 \$		
٥.	Nova Godia	Ψ,	E45077_g4	0 4	E45078_g4	
-1	New Promovini	\$		00 \$		
d.	New Brunswick	Φ	,00	JU ¢		
			E45077_g5		E45078_g5	
Э.	Quebec	\$	,00	00 \$		
			E45077_g6		E45078_g6	
	Ontario	\$	,00	00 \$		
			E45077_g7		E45078_g7	
g.	Manitoba	\$	,00	00 \$		
			E45077_g8		E45078_g8	
า.	Saskatchewan	\$	,00	00 \$		
			E45077_g9		E45078_g9	
	Alberta	\$	,00,	00 \$		
•	Alborta	T	E45077_g10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	E45078_g10	
	Puitigle Columbia	\$	,00	00 \$		
•	British Columbia	Ψ		)Ο ψ		
		Φ.	E45077_g11		E45078_g11	
<.	Yukon	\$	,00	00 \$		
			E45077_g12		E45078_g12	
	Northwest Territories	\$	,00	00 \$		
			E45077_g13		E45078_g13	
n.	Nunavut	\$	,00	00 \$		
			E45100		E45110	
		Φ		νο Φ		
	2024 - Total current and capital in-house R&D expenditures	\$	,00	00 \$		
			<b>A</b>			
			Should equal total current		Should equal total capital	
			in-house R&D		in-house R&I	

Sourc	es of funds for in-house R&D expenditures in 2024			
Incl	<ul> <li>what were the sources of funds for this organization's total organization and foreign sources.</li> <li>payments for outsourced (contracted out or granted) R&amp;D, which so capital depreciation.</li> </ul>	-		ed in-house?
	ise report all amounts in <b>thousands</b> of Canadian dollars.		From within Canada	From outside Canada
a.	Funds from this organization		<b>CAN\$ '000</b>	CAN\$ '000 E63037
	Include interest payments, other income and funding or tax credits from tax incentives (e.g., SR&ED program)	\$	,000	\$ ,000
b.	Funds from member companies or affiliates  Include annual fees and sustaining grants	\$	E65337 ,000	\$ <b>E63044</b>
			E64048	
C.	Federal government grants or funding	\$	,000	
d. 	Federal government contracts Include R&D grants or funding or R&D portion only of other grants or funding Do not include funds or tax credits from SR&ED tax incentives	. \$	E65049	
R8	D contract work for companies		From within Canada	From outside Canada
Busines e.	GST number (9-digit business number (BN) or charitable registration number)  B71014_nc1		CAN\$ '000	CAN\$ '000
		\$	,000	\$ ,000
	Legal name B71014_nc2			
Busines	ss 2			 
f.	<b>GST</b> number (9-digit business number (BN) or charitable registration number)  B71014_nc3		E65048_nc2	E63038_nc2
	Legal name B71014_nc4	\$	,000	\$ ,000
<b>Busines</b> g.	cs 3  GST number (9-digit business number (BN) or charitable registration number)			
	B71014_nc5	\$	E65048_nc3	\$ E63038_nc3
	Legal name B71014_nc6			
Busines				
h.	<b>GST</b> number (9-digit business number (BN) or charitable registration number)  B71014_nc7		E65048_nc4	E63038_nc4
		\$	,000	\$ ,000
	Legal name B71014_nc8			
			E65048_nc5	E63038_nc5
i.	Other contracts not listed above	\$	,000	\$ ,000

# Geographic distribution of provincial or territorial government grants or funding and provincial or territorial government contracts

Include R&D grants/contracts or R&D portion only of other grants/contracts.	Provincial or territorial government grants or funding  Provincial or territorial government contracts	
	CAN\$ '000 CAN\$ '000	
	E64049_g1	
j. Newfoundland and Labrador	\$ ,000 \$ ,0	000
	E64049_g2	
k. Prince Edward Island	\$ ,000 \$ ,0	000
	E64049_g3	
I. Nova Scotia	\$ ,000 \$ ,0	000
	E64049_g4	
m. New Brunswick	\$,,000 \$ ,0	000
	E64049_g5	
n. Quebec	). \$ ,000 \$ ,0	000
	E64049_g6 E65051_g6	
o. Ontario	\$ ,000 \$ ,0	000
	E64049_g7	
p. Manitoba	\$ ,000 \$ ,0	000
	E64049_g8	
q. Saskatchewan	\$ ,000 \$ ,0	000
	E64049_g9	
r. Alberta	\$ ,000 \$ ,0	000
	E64049_g10	
s. British Columbia	\$ ,000 \$ ,000	000
	E64049_g11	
t. Yukon	\$ ,000 \$ ,0	000
	E64049_g12	
u. Northwest Territories	\$ ,000 \$ ,0	000
	E64049_g13	
v. Nunavut	\$ ,000 \$ ,0	000

Organization name  ### Finds_ned  ### Corganization name  ### Finds_ned  ### Find	### Comparization 1  W. GST number (9-digit business number (BN) or charitable registration number)  ###################################	no	D contract work for private non-profit organizations	From within C	anada		From outside Car	nada
W. GST number (9-digit business number (BN) or charitable registration number)  ###################################	W. GST number (9-digit business number (BN) or charitable registration number)  FERRITOR (BN)  Organization 2  X. GST number (9-digit business number (BN) or charitable registration number)  FERRITOR (BN)  Organization  FERRITOR (BN)  F			CAN\$ '00	0		CAN\$ '000	
regalization number)  Biblioly, set  Corganization name  Briefs , sez  Triganization 2  X. GST number (9-digit business number (BN) or charitable registration number)  Biblioly, sed  Corganization name  Briefs , sez  Corganization name  Briefs , sez  Corganization number)  Biblioly, sed  Corganization number  Biblioly, sed  Biblioly, sed  Biblioly, sed  Biblioly, sed  Biblioly, sed  Corganization number  Corganization number)  Biblioly, sed  Biblioly,	regalization number)  Basses_set  Organization name  **Gestion 2  X. GST number (9-digit business number (BN) or charitable registration number)  Basses_set  Organization name  **Gestion 3  Y. GST number (9-digit business number (BN) or charitable registration number)  **Regalization 3  Y. GST number (9-digit business number (BN) or charitable registration number)  **Regalization 3  **Gestion 4  **Gestion	_						
Priority and Section name  Priority and Section name  Priority and Section number (9-digit business number (BN) or charitable registration number)  Priority and Section number (9-digit business number (BN) or charitable registration name  Priority and Section number (9-digit business number (BN) or charitable registration number)  Priority and Section number (9-digit business number (BN) or charitable registration number)  Priority and Section number (9-digit business number (BN) or charitable registration number)  Priority and Section number (9-digit business number (BN) or charitable registration number)  Priority and Section number (9-digit business number (BN) or charitable registration number)  Priority and Section Number (9-digit business number (BN) or charitable registration number)  Priority and Section Number (9-digit business number (BN) or charitable registration number)  Priority and Section Number (9-digit business number (BN) or charitable registration number)  Priority and Section Number (9-digit business number (BN) or charitable registration number)  Priority and Section Number (9-digit business number (BN) or charitable registration number)  Priority and Section Number (9-digit business number (BN) or charitable registration number)  Priority and Section Number (9-digit business number (BN) or charitable registration number (9-digit business number (9-digit busin	Prostation arms  Programization name  Programization 2  X. GST number (9-digit business number (BN) or charitable registration number)  Programization arms  Programization arms  Programization number  Programization number  Programization number  Programization number)  Programization number  Prog	W.						
Organization name B71913,M2  Taganization 2  X. GST number (9-digit business number (BN) or charitable registration number) B71913,M3  Organization name B71913,M4  PGST number (9-digit business number (BN) or charitable registration number) B71913,M4  Organization number) B71913,M4  Organization name B71913,M5  Organization name B719	Organization name  ### Total In-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  Organization name  #### Total in-house R&D expenditures (Canadian and foreign sources)			E65052_nc1			E63039_nc1	
Organization name B71913,M2  Taganization 2  X. GST number (9-digit business number (BN) or charitable registration number) B71913,M3  Organization name B71913,M4  PGST number (9-digit business number (BN) or charitable registration number) B71913,M4  Organization number) B71913,M4  Organization name B71913,M5  Organization name B719	Organization name  ### Total In-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  Organization name  #### Total in-house R&D expenditures (Canadian and foreign sources)			Ф	000	Φ		00
rganization 2  x. GST number (9-digit business number (BN) or charitable registration number)  B7/013,md  Organization name B7/013,md  9. GST number (9-digit business number (BN) or charitable registration number)  B7/013,md  Organization number)  B7/013,md  Organization name B7/013,md  Oom  D7/013,md  D8/013,md	rganization 2  X. GST number (9-digit business number (BN) or charitable registration number)  B7013,764  Organization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B7013,764  Organization ame  B7013,765  Organization name  B7013,765  Organization name  B7013,765  E8309,763  E8309		Organization name	Ψ	,000	ψ		,00
x. GST number (9-digit business number (BN) or charitable registration number)  B71013_m3  Organization name B71013_m4  FGST number (9-digit business number (BN) or charitable registration number)  B71013_m6  GST number (9-digit business number (BN) or charitable registration number)  B71013_m6  Organization name  F1013_m6  Organization name  Z. Other sources e.g., universities, foreign governments, individuals  Sources e.g., universities, foreign governments, individuals  Description of the sources of funds by origin (sum of questions a. to z.)  E6001  E60030  E60030  E60030  DE60030  E60030  DE60030  DE600	x. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m3)  Organization name  B7(013_m4)  Organization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m4)  Organization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m5)  Organization name  B7(013_m5)  COT (BN) or charitable registration number)  B7(013_m5)  Organization name  B7(013_m5)  COT (BN) or charitable registration number)  COT (BN) o							
x. GST number (9-digit business number (BN) or charitable registration number)  B71013_m3  Organization name B71013_m4  FGST number (9-digit business number (BN) or charitable registration number)  B71013_m6  GST number (9-digit business number (BN) or charitable registration number)  B71013_m6  Organization name  F1013_m6  Organization name  Z. Other sources e.g., universities, foreign governments, individuals  Sources e.g., universities, foreign governments, individuals  Description of the sources of funds by origin (sum of questions a. to z.)  E6001  E60030  E60030  E60030  DE60030  E60030  DE60030  DE600	x. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m3)  Organization name  B7(013_m4)  Organization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m4)  Organization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m5)  Organization name  B7(013_m5)  COT (BN) or charitable registration number)  B7(013_m5)  Organization name  B7(013_m5)  COT (BN) or charitable registration number)  COT (BN) o							
x. GST number (9-digit business number (BN) or charitable registration number)  B71013_m3  Organization name B71013_m4  FGST number (9-digit business number (BN) or charitable registration number)  B71013_m6  GST number (9-digit business number (BN) or charitable registration number)  B71013_m6  Organization name  F1013_m6  Organization name  Z. Other sources e.g., universities, foreign governments, individuals  Sources e.g., universities, foreign governments, individuals  Description of the sources of funds by origin (sum of questions a. to z.)  E6001  E60030  E60030  E60030  DE60030  E60030  DE60030  DE600	x. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m3)  Organization name  B7(013_m4)  Organization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m4)  Organization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B7(013_m5)  Organization name  B7(013_m5)  COT (BN) or charitable registration number)  B7(013_m5)  Organization name  B7(013_m5)  COT (BN) or charitable registration number)  COT (BN) o		ration 0					
registration number)  ### First 13_nc3    Conganization name	registration number)  87/013_nc3  Corganization name  87/013_nc4  Figanization 3  y. GST number (9-digit business number (BN) or charitable registration number)  87/013_nc5  Corganization name  87/013_nc5  Corganization name  87/013_nc5  E65082_nc3  E60089_nc2  E65082_nc3  E65082_nc3  E60089_nc3  E60089_n	_						
Progranization name  Progranization 3  Solution of the sources of solution of the solution of	Organization name  **Ganization 3**  y. GST number (9-digit business number (BN) or charitable registration number)  **Britist_mes*  Organization name  **Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  **E60039_nc2  E60039_nc2  E60039_nc3	۸.						
Organization name B71013_nc4  FGST number (9-digit business number (BN) or charitable registration number) F71013_nc5  Organization name F71013_nc6   Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60330  E60330  E60330  E60330  E60330  E60330	Organization name B70013_ne4  Temperature (9-digit business number (BN) or charitable registration number) B70013_ne5  Organization name B70013_ne5  Corganization name B70013_ne5  Temperature (9-digit business number (BN) or charitable registration number) B50030_ne3  E50030_ne3  E			E65052_nc2			E63039_nc2	
Organization name B71013_not  FGST number (9-digit business number (BN) or charitable registration number) B71013_not  Organization name B71013_not  Corganization name B71013_not  E63039_not  E63039	Organization name B71013,nos  y. GST number (9-digit business number (BN) or charitable registration number) B71013,nos  Organization name B71013,nos  Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E65030  E65030  E65030  E65030  E65030  E65030			\$	.000	\$		,00
rganization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B71013_m65  Corganization name  B71013_m68   Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60310  E60310  E60310  E60330  E60330  CE00330	Proganization 3  y. GST number (9-digit business number (BN) or charitable registration number)  B71013_m5  Organization name  Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E690310  E690310  E690320  E690330  E690330		Organization name					
y. GST number (9-digit business number (BN) or charitable registration number)  871013_ne5  Corganization name  871013_ne6  E63039_ne3  E63039_ne3  E63039_ne3  E63039_ne3  E63039_ne3  Corganization name  E64051  E64051  E64051  E63041  Cother sources e.g., universities, foreign governments, individuals  \$ 000 \$ 0.00  E600320  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E600330  E600330	y. GST number (9-digit business number (BN) or charitable registration number)  B71013_nc5  Organization name  871013_nc6  Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60030  E60030  E60030  E60030  E60030  E60030		B71013_nc4					
y. GST number (9-digit business number (BN) or charitable registration number)  871013_ne5  Corganization name  871013_ne6  E63039_ne3  E63039_ne3  E63039_ne3  E63039_ne3  E63039_ne3  Corganization name  E64051  E64051  E64051  E63041  Cother sources e.g., universities, foreign governments, individuals  \$ 000 \$ 0.00  E600320  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E600330  E600330	y. GST number (9-digit business number (BN) or charitable registration number)  B71013_nc5  Organization name  871013_nc6  Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60030  E60030  E60030  E60030  E60030  E60030							
y. GST number (9-digit business number (BN) or charitable registration number)  871013_ne5  Corganization name  871013_ne6  E63039_ne3  E63039_ne3  E63039_ne3  E63039_ne3  E63039_ne3  Corganization name  E64051  E64051  E64051  E63041  Cother sources e.g., universities, foreign governments, individuals  \$ 000 \$ 0.00  E600320  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E600330  E600330	y. GST number (9-digit business number (BN) or charitable registration number)  B71013_nc5  Organization name  871013_nc6  Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60030  E60030  E60030  E60030  E60030  E60030	raani:	zation 3	$\times$				
registration number)  871013_nc5  Corganization name 871013_nc6  E63039_nc3  E63039_nc3  E63039_nc3  Corganization name 871013_nc6  E64051  E63041  E63041  E63041  E63030  Corganization name 871013_nc6  E64051  E63041  E63030  Corganization name 871013_nc6  E63030  E63030  E63030  E63030  E600320  E600320  E600330  E600330  E600330	registration number) 871013,nc5  Corganization name 871013,nc6  Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E63039_nc3	_						
Crganization name  2. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60310  E60320  E00320  E00330  E00330	Organization name  E64051  E63041  Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60310  E60320  E60330  E60330	γ.	registration number)					
Organization name B71013_nc6   Z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60310  E60320  DECENSION  E60320  E60330  E60330	Organization name  B71013_nc6   Z. Other sources e.g., universities, foreign governments, individuals  \$ 000		B71013_nc5	E65052_nc3			E63039_nc3	
z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60310  E60320  2024 - Total in-house R&D expenditures (Canadian and foreign sources)	z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60310  E60320  E60330  E60330			\$	,000	\$		,00
z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60320  E60320  E60320  E60330  E60330	z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60310  E60320  E60320  E60330  E60330							
z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60320  2024 - Total in-house R&D expenditures (Canadian and foreign sources)	z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60330  2024 - Total in-house R&D expenditures (Canadian and foreign sources)		B71013_nc6					
z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60320  LE60330  LE60330  LE60330	z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60330  2024 - Total in-house R&D expenditures (Canadian and foreign sources)							
z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60320  LE60330  LE60330  LE60330	z. Other sources e.g., universities, foreign governments, individuals  2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60330  2024 - Total in-house R&D expenditures (Canadian and foreign sources)		D CV	E64051			F63041	
2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60320  S  J  LE60330  E60330  E60330	2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  E60310  E60320  S  2024 - Total in-house R&D expenditures (Canadian and foreign sources)	z.						
2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  2024 - Total in-house R&D expenditures (Canadian and foreign sources)	2024 - Total in-house R&D expenditures by sources of funds by origin (sum of questions a. to z.)  2024 - Total in-house R&D expenditures (Canadian and foreign sources)		e.g., universities, foreign governments, individuals	\$	,000	\$		,00
by origin (sum of questions a. to z.)  \$ ,000 \$ ,000  2024 - Total in-house R&D expenditures (Canadian and foreign sources)	by origin (sum of questions a. to z.)  \$ ,000 \$ ,000  2024 - Total in-house R&D expenditures (Canadian and foreign sources)			E60310			E60320	
2024 - Total in-house R&D expenditures (Canadian and foreign sources)	2024 - Total in-house R&D expenditures (Canadian and foreign sources)	20	24 - Total in-house R&D expenditures by sources of funds					
2024 - Total in-house R&D expenditures (Canadian and foreign sources)	2024 - Total in-house R&D expenditures (Canadian and foreign sources)		by origin (sum of questions a. to z.)	\$	,000	\$		,00
2024 - Total in-house R&D expenditures (Canadian and foreign sources)	2024 - Total in-house R&D expenditures (Canadian and foreign sources)							
(should equal total in-house R&D expenditures from question 5)	(should equal total in-house R&D expenditures from question 5)	00	OA Tabaliah Bobana iitana (Oanalian and fanisma				E60330	
		20	24 - Total in-house R&D expenditures (Canadian and foreign so (should equal total in-house R&D expenditures from question 5)	ources)		\$		,00
			(onoute equal total in notes flat expenditures from question sy					

# Fields of R&D for in-house R&D expenditures within Canada in 2024

11. **In 2024**, how were this organization's **total expenditures** for **R&D performed in-house** within Canada distributed by field(s) of research and development?

Exclude: • payments for outsourced (contracted out or granted) R&D which should be reported in question 7

• capital depreciation.

Please report all amounts in thousands of Canadian dollars.

Report '0' for no R&D expenditures.

	tural and formal sciences lude computer sciences, information technology and bioinformatics (to be reported at lines s. and t.)	CAN\$ '000 E45092_y1	
a.	Mathematics	E45092_y2	,000
b.	Physical sciences	E45092_y3	,000
C.	Chemical sciences	E45092_y4	,000
d.	Earth and related environmental sciences	E45092_y5	,000
e.	Biological sciences	E45092_y6	,000
f.	Other natural sciences		,000
	Total natural and formal sciences	E45085	,000
	gineering and technology lude software engineering and technology (to be reported at line r.)	<b>CAN\$ '000</b> E45093 y1	
g.	Civil engineering.		,000
h.	Electrical engineering, electronic engineering and communications technology		,000
i.	Mechanical engineering		,000
j.	Chemical engineering	E45093_y5	,000
k.	Materials engineering	E45093_y6	,000
l.	Medical engineering		,000
m.	Environmental engineering	E45093_y8	,000
n.	Environmental biotechnology		,000
0.	Industrial biotechnology		,000
p.	Nanotechnology	E45093 y11	,000
q.	Other engineering and technologies		,000
	Total engineering and technology	E45086	,000

Sof	tware-related sciences and technology	<b>CAN\$ '000</b> E45094_y1	
	Software engineering and technology	\$ E45094 y2	,0
3.	Computer sciences	\$	,0
	Information technology and bioinformatics	E45094_y3	,0
		E45087	٦
		\$	,0
vie	dical and health sciences	E45084_y1	
J.	Basic medicine	\$ E45084_y2	,0
/.	Clinical medicine	\$ E45084_y3	,0
٧.	Health sciences	\$ E45084_y4	,О
ζ.	Medical biotechnology	\$	,О
/.	Other medical sciences	E45084_y5	,0
•	Carlot inscaled solicities	E45120	
	Total medical and health sciences	\$	,С
<b>Ag</b> r	ricultural sciences	E45095_y1	
<u>.</u> .	Agriculture, forestry and fisheries sciences	\$ E45095_y2	,0
aa.	Animal and dairy sciences	\$ E45095_y3	,С
ab.	Veterinary sciences	\$	,0
		E45095_y4	.0
	Agricultural protestimotogy	E45095_y5	
ad.	Other agricultural sciences	£45088	,0
	Total agricultural sciences	\$	,0
Soc	cial sciences and humanities	E45096_y1	
ae.	Psychology	\$ E45096_y2	,0
af.	Educational sciences	\$	,0
20		E45096_y3	,0
		E45096_y4	
ah.	Other social sciences	£45096_y5	,С
ai.	Humanities	\$	,0
000	M. Tabel and delication and home the	E45089	
202	24 - Total social sciences and humanities		,(
200	24 - Total in-house R&D expenditures within Canada by field of research and development	E45130	

# Nature of R&D for in-house expenditures within Canada in 2024

12. **In 2024**, how were this organization's **total expenditures** for **R&D performed in-house** within Canada distributed by nature of **R&D**?

**Basic research** is experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundation of phenomena and observable facts, without any particular application or use in view.

**Applied research** is original investigation undertaken in order to acquire new knowledge. It is, however, directed primarily towards a specific, practical aim or objective.

**Experimental development** is systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed to producing new products or processes or to improving existing products or processes.

(OECD. Frascati Manual: Proposed Standard for Surveys on Research and Experimental Development, 2015)

Percentage of total in-house R&D expenditures

E45091\_y1

Applied research

C. Experimental development

\*\*Total percentage\*

\*\*Total per

# Results of R&D expenditures from 2022 to 2024

13. During the three (3) years 2022, 2023 and 2024, did this organization's total expenditures for R&D performed in-house and outsourced (contracted out or granted) within Canada or outside Canada lead to new or significant improvements to the following?

		Yes	No
a.	Goods Include goods developed through new knowledge from research discoveries	B10033 1	2
b.	Services Include on-going knowledge transfer to physicians, first responders, patients and the general public	B10034 1	2
c.	Methods of manufacturing or producing goods and services	B10035 1	2
d.	Logistics, delivery or distribution methods for this organization's inputs, goods or services	B10036 1	2
e.	Supporting activities for this organization's processes, such as maintenance systems or operations for purchasing, accounting or computing	B10037 1	2

# In-house R&D personnel in 2024

14. **In 2024**, how many **in-house R&D** personnel within Canada did this organization have in the following **R&D** occupations? Please report in **full-time equivalents (FTE)**.

Include on-site consultants and contractors in line e.

If this organization is unable to provide a gender breakdown of FTEs, please leave the associated fields empty and report only the totals.

#### Full-time equivalent (FTE)

**R&D** may be carried out by persons who work solely on **R&D** projects or by persons who devote only part of their time to **R&D**, and the balance to other activities such as testing, quality control and production engineering. To arrive at the total effort devoted to **R&D** in terms of personnel, it is necessary to estimate the full-time equivalent of these persons working only part-time in **R&D**.

Full-time equivalent (FTE) = Number of persons who work solely on R&D projects + the time of persons working only part of their time on R&D.

**Example calculation:** If out of four scientists engaged in **R&D** work, one works solely on **R&D** projects and the remaining three devote only one quarter of their working time to **R&D**, then: **FTE** = 1 + 1/4 + 1/4 + 1/4 = 1.75 scientists.

Re	searchers and research managers	Men (FTEs)	Women (FTEs)	Non-binary persons (FTEs)	Total (FTEs)
a.	Scientists, social scientists, engineers and researchers Include software developers and programmers	B20045_o1_y1	B20045_o2_y1	B20045_o3_y1	B20045_y1
b.	Senior research managers	B20045_o1_y2	B20045_02_y2	B20045_o3_y2	B20045_y2
	Total researchers and research managers	B20045_o1_y3	B20045_o2_y3	B20045_o3_y3	B20045_y3
D.S	D technical, administrative and support staff				
C.	Technicians, technologists and research assistants  Include software technicians	B20045_o1_y4	B20045_o2_y4	B20045_o3_y4	B20045_y4
d.	Other <b>R&amp;D</b> technical, administrative and support staff	B20045_o1_y5	B20045_o2_y5	B20045_o3_y5	B20045_y5
	Total R&D technical, administrative and support staff	B20045_o1_y6	B20045_o2_y6	B20045_o3_y6	B20045_y6
Ot	her R&D occupations	B20045_o1_y7	B20045_o2_y7	B20045_o3_y7	B20045_y7
e.	On-site R&D consultants and contractors				
	Total in-house R&D personnel within Canada (sum of questions a. to e.)	B20040_o1	B20040_o2	B20040_o3	B20040
	this organization's <b>total in-house R&amp;D personnel</b> reported above, wl formed software-related activities? · · · · · · · · · · · · · · · · · · ·			Percentag software-re activitie B20046	lated

15

16. In 2024, how were the total in-house R&D personnel distributed by province or territory? Please report in full-time equivalents (FTE). Number of R&D technical, Number of Number of on-site researchers and administrative and **R&D** consultants research managers support staff and contractors B20047\_g1 B20048\_g1 B20049\_g1 Newfoundland and Labrador . . . . . . B20047\_g2 B20048\_g2 B20049\_g2 B20047\_g3 B20048\_g3 B20049\_g3 Nova Scotia ..... B20047\_g4 B20048\_g4 B20049\_g4 New Brunswick ..... B20047\_g5 B20048\_g5 B20049\_g5 B20047\_g6 B20049\_g6 B20048\_g6 B20047 q7 B20049\_g7 B20048\_g7 Manitoba ..... B20047\_g8 B20049\_g8 B20048 g8 Saskatchewan ...... B20047 a9 B20048\_g9 B20049\_g9 Alberta ...... B20047\_g10 B20048\_g10 B20049\_g10 B20047\_g11 B20048\_g11 B20049\_g11 B20047\_g12 B20048\_g12 B20049\_g12 Northwest Territories ..... B20047\_g13 B20048\_g13 B20049\_g13 m. Nunavut ..... B20050 B20060 B20070 Total in-house R&D personnel within Canada Should equal Should equal Should equal total researchers total R&D technical, total on-site and research administrative consultants managers and support staff and contractors from question 14 from question 14 from question 14

	ase report all amounts in <b>thousands</b> of Canadian dollars.			gy and technic			
Rep	ort '1' for payments made between \$1 and \$999.		Payments within Ca			Payments outside Ca	
	ments made to members, affiliated companies organizations		<b>CAN\$</b> '0	000		CAN\$ '0	00
a.	Patents	\$	E46099 pc2	,000	\$	E43043 pc2	,(
<b>)</b> .	Copyrights	\$	_	,000	\$		,(
	Trademarks	\$	E46099_pc3	,000	\$	E43043_pc3	.(
).	Trademarks		E46099_pc4			E43043_pc4	,(
d.	Industrial designs	\$	E46099_pc5	,000	\$	E43043_pc5	,(
).	Integrated circuit topography	\$	E46099_pc6	,000	\$	E43043_pc6	,
	Original software	\$	E46099_pc7	,000	\$	E43043 pc7	,
g.	Packaged or off-the-shelf software	\$		,000	\$		,(
۱.	Databases Useful life exceeding one year.	\$	E46099_pc8	.000	\$	E43043_pc8	
	Other technology and technical assistance		E46099_pc9	,,000	Ψ	E43043_pc9	,'
	Include technical assistance, industrial processes and know-how	\$		,000	\$		,
	Total payments made to members, affiliated companies or organizations (sum of questions a. to i.)	\$	E46220	000	\$	E43040	
Pay	ments made to other organizations, companies	Ψ		,000	Ψ		,
or i	ndividuals		E46101_pc1			E43044_pc1	
	Patents	\$	E46101_pc2	,000	\$	E43044_pc2	1
ζ.	Copyrights	\$	E46101_pc3	,000	\$	E43044_pc3	, ,
	Trademarks	\$	510404 4	,000	\$	5400444	,
_	Industrial designs	\$	E46101_pc4	,000	\$	E43044_pc4	,
n.	industrial designs		E46101_pc5	,000	Ψ	E43044_pc5	,'
١.	Integrated circuit topography	\$	E46101_pc6	,000	\$	E43044_pc6	,1
).	Original software	\$	E46101_pc7	,000	\$	E43044_pc7	,1
).	Packaged or off-the-shelf software	\$		,000	\$		,(
1-	Databases Useful life exceeding one year	\$	E46101_pc8	,000	\$	E43044_pc8	,
	Other technology and technical assistance		E46101_pc9			E43044_pc9	,
	Include technical assistance, industrial processes and know-how	\$		,000	\$		,
			E46230			E43050	,
	Total payments made to other organizations, companies or individuals (sum of questions j. to r.)	\$		,000	\$		,
	Companies of individuals (sull) of udestions i, to (.)	Ψ		,000	Ψ		
	Total payments made to other organizations		E46260			E43060	

	2024, how much did this organization receive from other of ase report all amounts in thousands of Canadian dollars.	rganiz	zations for technology and	d techn	ical assistance?	
	ort '1' for payments received between \$1 and \$999.	F	Payments received from within Canada	Payments received from outside Canada		
	ments received from members, affiliated companies organizations		<b>CAN\$ '000</b> E46102_pc1		<b>CAN\$ '000</b> E63042_pc1	
a.	Patents	\$	,000 E46102_pc2	\$	,C E63042_pc2	000
b.	Copyrights	\$	,000 E46102_pc3	\$	,C E63042_pc3	)()(
c.	Trademarks	\$	,000 E46102_pc4	\$	,C E63042_pc4	)()(
d.	Industrial designs	\$	,000 E46102_pc5	\$	,C E63042_pc5	00
e.	Integrated circuit topography	\$	,000 E46102_pc6	\$	,C E63042_pc6	00
f.	Original software	\$	,000 E46102_pc7	\$	,C E63042_pc7	00
g.	Packaged or off-the-shelf software	\$	,000	\$		)()(
h.	Databases Useful life exceeding one year	\$	,000	\$	E63042_pc8	00
i.	Other technology and technical assistance Include technical assistance, industrial processes and know-how	\$	<b>E46102_pc9</b>	\$	E63042_pc9	00
	Total payments received from members, affiliated companies or organizations (sum of questions a. to i.) yments received from other organizations, mpanies or individuals	\$	,000	\$	E63030	)()
j.	Patents	\$	E46103_pc1	\$		00
k.	Copyrights	\$	E46103_pc2 ,000	\$	E63043_pc2 ,C	00
l.	Trademarks	\$	,000 E46103_pc4	\$		00
m.	Industrial designs	\$	,000 E46103_pc5	\$	,C E63043_pc5	00
n.	Integrated circuit topography	\$	,000 E46103_pc6	\$	,C E63043_pc6	00
0.	Original software	\$	,000 E46103_pc7	\$	,C	00
p.	Packaged or off-the-shelf software	\$	,000 E46103_pc8	\$	,C E63043_pc8	00
q.	Databases Useful life exceeding one year	\$	,000	\$		00
r.	Other technology and technical assistance Include technical assistance, industrial processes		E46103_pc9		E63043_pc9	
	and know-how	\$	,000	\$		00
	Total payments received from other organizations, companies or individuals (sum of questions j. to r.)	\$	E46250	\$	E63040	00
	Total payments received from other organizations		E46270		E63050	
	for technology and technical assistance (sum of questions a. to r.)	\$	,000	\$	,,0	)C

### **ENERGY-RELATED R&D BY AREA OF TECHNOLOGY**

- 19. In 2024, did this organization's total in-house and outsourced (contracted out or granted) R&D expenditures include energy-related R&D in the following categories?
  - 1. Fossil fuels

- 5. Hydrogen and fuel cells
- 2. Renewable energy resources
- 6. Energy efficiency
- 3. Nuclear fission and fusion
- 7. Other energy-related technologies

- 4. Electric power
  - Yes → Please provide details below
  - No → Go to question 20

	2024 in-ho	use energy-relate	ed R&D e	xpenditure	s
Energy-related <b>R&amp;D</b> by area of technology (consult the reporting guide at www.statcan.gc.ca/guides-e for further information and definitions)	A Funds from this organization	B Funds from fe provincial or tel governmen	rritorial	C All other Canadian sources of funds	
		CAN\$ '00	0		
1. Fossil fuels					
a) Crude oils and natural gas exploration	\$ ,00	0 \$	,000	E64054_e1_y1	,000
b) Crude oils and natural gas production and storage <b>Include</b> enhanced recovery natural gas production.	E64052_e1_y2	E64053_e1_y2 0 \$	,000	E64054_e1_y2	,000
c) Oil sands and heavy crude oil surface and sub-surface production and separation of bitumen, tailings management	£64052 e1_y3	E64053_e1_y3	,000	E64054_e1_y3	,000,
d) Refining, processing and upgrading of fossil fuels	£64052_e1_y4 \$ ,00	E64053_e1_y4	,000	E64054_e1_y4	,000
e) Coal production, separation and processing	\$ ,00	E64053_e1_y5	,000	E64054_e1_y5	,000
f) Transportation of fossil fuels	\$ ,00	E64053_e1_y6 0 \$	,000	E64054_e1_y6	,000
2. Renewable energy resources					
a) Solar photovoltaics (PV)	\$ ,00	E64053_e2_y1 0 \$	,000	E64054_e2_y1	,000
b) Solar thermal-power and high-temperature applications	\$ ,00	E64053_e2_y2 0 \$	,000	E64054_e2_y2	,000
c) Solar heating and cooling	\$ ,00	E64053_e2_y3 0 \$	,000	E64054_e2_y3	,000
d) Wind energy	\$ ,00	E64053_e2_y4 0 \$	,000	E64054_e2_y4	,00
e) Bio-energy – biomass production and transport	\$ ,00	E64053_e2_y5 0 \$	,000	E64054_e2_y5	,000
f) Bio-energy – biomass conversion to transportation fuel	\$ ,00	E64053_e2_y6 0 \$	,000	E64054_e2_y6	,000,
g) Bio-energy – biomass conversion to heat and electricity	\$ ,00	0 \$	,000	E64054_e2_y7	,000
h) Other bio-energy	\$ ,00	E64053_e2_y8 0 \$	,000	E64054_e2_y8	,000
i) Small hydro (less than 10 MW)	\$ ,00	E64053_e2_y9 0 \$	,000	E64054_e2_y9	,000
j) Large hydro (greater than or equal to 10 MW)	\$ ,00	0 \$	,000	E64054_e2_y10	,000
k) Other renewable energy Include ocean and geothermal.	\$ ,00	E64053_e2_y11	,000	E64054_e2_y11	,000

200	A in bound				0004 outo				
202		energy-relat enditures	ea			ourced (cont gy-related R			ea)
D All foreign of fun		Total in-ho (= A+B-		(contra	E sourced acted out or within Canada	F Outso (contracte granted) outs	urced ed out or		ıtsourced R&D (= E+F)
	CAN	\$ '000				CANS	000		
1. Fossil fuels	3								
E63045_e1_y1 \$ E63045_e1_y2	,000	E45097_e1_y1 \$ E45097_e1_y2	,000	E46104_e1_y1 \$ E46104_e1_y2	,000	E43045_e1_y1 \$ E43045_e1_y2	,000	E40430_e1_y1 \$ E40430_e1_y2	,000
\$	,000		,000	\$	,000	\$	,000	\$	,000,
E63045_e1_y3		E45097_e1_y3		E46104_e1_y3	70	E43045_e1_y3		E40430_e1_y3	
\$ E63045_e1_y4	,000	\$ E45097_e1_y4	,000	\$ E46104_e1_y4	,000	\$ E43045_e1_y4	,000	\$ E40430_e1_y4	,000
\$	,000	\$	,000	\$	,000	\$	,000	\$	,000
E63045_e1_y5	,000		,000	£46104_e1_y5	,000	E43045_e1_y5	,000	E40430_e1_y5	,000
E63045_e1_y6	,000	E45097_e1_y6	,000	E46104_e1_y6	,000	E43045_e1_y6 \$	,000	E40430_e1_y6	,000
2. Renewable	energy res								
E63045_e2_y1	,000	E45097_e2_y1	,000	E46104_e2_y1	,000	E43045_e2_y1	,000,	E40430_e2_y1	,000
E63045_e2_y2		E45097_e2_y2	,000	E46104_e2_y2		E43045_e2_y2		E40430_e2_y2	,000
E63045_e2_y3		E45097_e2_y3	,000	E46104_e2_y3		E43045_e2_y3		E40430_e2_y3	,000,
E63045_e2_y4		E45097_e2_y4		E46104_e2_y4		E43045_e2_y4		E40430_e2_y4	
\$ E63045_e2_y5		\$ E45097_e2_y5	,000	\$ E46104_e2_y5		\$ E43045_e2_y5		\$ E40430_e2_y5	,000,
\$ E63045_e2_y6	,000	\$ E45097_e2_y6	,000	\$ E46104_e2_y6	,000	\$ E43045_e2_y6	,000	\$ E40430_e2_y6	,000
\$	,000	\$	,000	\$	,000	\$	,000	\$	,000
E63045_e2_y7	,000	E45097_e2_y7	,000	E46104_e2_y7	,000	E43045_e2_y7		E40430_e2_y7	,000
E63045_e2_y8	,000	E45097_e2_y8	,000	E46104_e2_y8		E43045_e2_y8	,000,	E40430_e2_y8	,000
E63045_e2_y9		E45097_e2_y9	,000	E46104_e2_y9		E43045_e2_y9		E40430_e2_y9	,000
E63045_e2_y10		E45097_e2_y10		E46104_e2_y10		E43045_e2_y10		E40430_e2_y10	
\$ E63045_e2_y11	,000	\$ E45097_e2_y11	,000	\$ E46104_e2_y11		\$ E43045_e2_y11		\$ E40430_e2_y11	,000
\$	,000	\$	,000	\$		\$		\$	,000

		2024 in-hous	se energy-	related R&D e	expenditu	res
Energy-related <b>R&amp;D</b> by area of technology (consult the reporting guide at www.statcan.gc.ca/guides-e for further information and definitions)	A Funds from this organization		B Funds from federal, provincial or territorial government(s)		C All other Canadian sources of funds	
O North Control of the			CA	N\$ '000		
3. Nuclear fission and fusion	I = 1 = 1		E64053 e3 y1		E64054 e3 y1	
a) Nuclear materials exploration, mining and preparation, tailings management	E64052_e3_y1	,000	\$	,000	\$	,000
b) Nuclear reactors	E64052_e3_y2	,000	E64053_e3_y2	.000	E64054_e3_y2	,000,
c) Other fission	E64052_e3_y3	, , , , , , , , , , , , , , , , , , , ,	E64053_e3_y3	, , , , , , , , , , , , , , , , , , , ,	E64054_e3_y3	· · · · · · · · · · · · · · · · · · ·
d) Fusion	\$ E64052_e3_y4	,000	\$ E64053_e3_y4	,000	E64054_e3_y4	,000
<u>'</u>	\$	,000	\$	,000	\$	,000
4. Electric power	1		4	0	T	
a) Electric power generation in utility sector	E64052_e4_y1	,000	E64053_e4_y1	,000	E64054_e4_y1	,000
b) Electric power - combined heat and power in industry, buildings	E64052_e4_y2	.000	E64053_e4_y2	,000	E64054_e4_y2	,000
c) Electricity transmission, distribution and storage	E64052_e4_y3		E64053_e4_y3	,	E64054_e4_y3	,
5. Hydrogen and fuel cells	\$	,000	**	,000	\$	,000
	E64052_e5_y1		E64053_e5_y1		E64054_e5_y1	
a) Hydrogen production for process applications	\$ E64052_e5_y2	,000	\$ E64053_e5_y2	,000	\$ E64054_e5_y2	,000
b) Hydrogen production for transportation applications	\$	,000	\$	,000	\$	,000
c) Hydrogen transport and storage	E64052_e5_y3	,000	E64053_e5_y3	,000	E64054_e5_y3	,000
d) Other hydrogen	E64052_e5_y4	.000	E64053_e5_y4	,000,	E64054_e5_y4	,000
e) Stationary fuel cells	E64052_e5_y5	,	E64053_e5_y5	,	E64054_e5_y5	,
(), (),	\$ E64052_e5_y6	,000	\$ E64053_e5_y6	,000	\$ E64054_e5_y6	,000
f) Mobile fuel cells	\$	,000	\$	,000	\$	,000
6. Energy efficiency	1					
a) Energy efficiency applications for industry	E64052_e6_y1	,000	E64053_e6_y1	,000	E64054_e6_y1	,000
b) Energy efficiency for residential, institutional and commercial sectors	E64052_e6_y2	.000	E64053_e6_y2	,000,	E64054_e6_y2	,000
c) Energy efficiency for transportation	E64052_e6_y3	,000	E64053_e6_y3	,,,,,	E64054_e6_y3	,000
c) Energy emiciency for transportation	\$ E64052_e6_y4	,000	\$ E64053_e6_y4	,000	\$ E64054_e6_y4	,000
d) Other energy efficiency	\$	,000	\$	,000	\$	,000
7. Other energy-related technologies						
a) Carbon capture, transport and storage related to fossil fuel production and processing	E64052_e7_y1	,000	E64053_e7_y1	,000	E64054_e7_y1	,000
b) Carbon capture, transport and storage related to electric power production	E64052_e7_y2	.000	E64053_e7_y2	,000,	E64054_e7_y2	,000
c) Carbon capture, transport and storage related to	E64052_e7_y3	,	E64053_e7_y3	,	E64054_e7_y3	·
industry in end-use sector	\$ E64052_e7_y4	,000	\$ E64053_e7_y4	,000	\$ E64054_e7_y4	,000
d) Energy system analysis	\$	,000	\$	,000	\$	,000
e) All other energy-related technologies	E64052_e7_y5	,000	E64053_e7_y5	,000	E64054_e7_y5	,000

2024	in-house R&D exp	energy-relate enditures	ed	2024 outsourced (contracted out or granted) energy-related R&D expenditures						
D All foreign so of fund		Total in-ho (= A+B+		(contra	E tsourced acted out or within Canada	Outsou (contracte granted) outs	d out or		ourced R&D E+F)	
	CANS	\$ '000				CAN\$	'000			
3. Nuclear fiss	ion and fus	ion								
E63045_e3_y1		E45097_e3_y1		E46104_e3_y1		E43045_e3_y1		E40430_e3_y1		
\$	,000		,000	\$	,000	\$	,000	\$	,000	
E63045_e3_y2	,000	E45097_e3_y2	.000	E46104_e3_y2	.000	E43045_e3_y2	.000	E40430_e3_y2	,000	
E63045_e3_y3	,000	E45097_e3_y3	,000	E46104_e3_y3	,000	Ψ E43045_e3_y3	,000	E40430_e3_y3	,000	
\$	,000		,000	\$	,000	\$	,000	\$	,000	
E63045_e3_y4		E45097_e3_y4		E46104_e3_y4		E43045_e3_y4	_	E40430_e3_y4		
\$	,000	\$	,000	\$	,000	\$	,000	\$	,000	
4. Electric pow	ver									
E63045_e4_y1		E45097_e4_y1		E46104_e4_y1		E43045_e4_y1		E40430_e4_y1		
\$	,000		,000	\$	,000	\$	,000	\$	,000	
E63045_e4_y2	000	E45097_e4_y2	000	E46104_e4_y2		E43045_e4_y2	222	E40430_e4_y2	000	
\$ E63045 e4 y3	,000	\$ E45097 e4 y3	,000	\$ E46104 e4 y3	,000	E43045_e4_y3	,000	\$ E40430_e4_y3	,000	
\$	,000		.000	\$	.000	\$	,000	\$	,000	
			,000	Ψ	,,000	Ψ	,,,,,,	Ψ	,000	
5. Hydrogen au E63045_e5_y1	na ruei cens	E45097_e5_y1	1	E46104_e5_y1		E43045_e5_y1		E40430_e5_y1		
\$	,000		,000	S	.000	\$	,000	\$	,000	
E63045_e5_y2	,,,,,	E45097_e5_y2	,,,,,,	E46104_e5_y2		E43045_e5_y2	,,,,,,	E40430_e5_y2	,,,,,	
\$	,000	\$	,000	\$	,000	\$	,000	\$	,000	
E63045_e5_y3		E45097_e5_y3		E46104_e5_y3		E43045_e5_y3		E40430_e5_y3		
\$	,000		,000	\$	,000	\$	,000	\$	,000	
E63045_e5_y4	000	E45097_e5_y4	000	E46104_65_y4	000	E43045_e5_y4	000	E40430_e5_y4	000	
\$ E63045 e5 y5	,000	E45097_e5_y5	,000	Ф E46104 e5 y5	,000	\$ E43045_e5_y5	,000	Φ E40430_e5_y5	,000	
\$	,000		.000	\$	.000	\$	,000	\$	,000	
E63045_e5_y6		E45097_e5_y6		E46104_e5_y6	,,,,,	E43045_e5_y6		E40430_e5_y6	,	
\$	,000	\$	,000	\$	,000	\$	,000	\$	,000	
6. Energy effic	iency									
E63045_e6_y1		E45097_e6_y1		E46104_e6_y1		E43045_e6_y1		E40430_e6_y1		
\$	,000	\$	,000	\$	,000	\$	,000	\$	,000	
E63045_e6_y2		E45097_e6_y2		E46104_e6_y2		E43045_e6_y2		E40430_e6_y2		
\$	,000		,000	\$	,000	\$	,000	\$	,000	
E63045_e6_y3	,000	E45097_e6_y3	.000	E46104_e6_y3	.000	E43045_e6_y3	,000	E40430_e6_y3	,000	
E63045_e6_y4	,000	E45097_e6_y4	,000	E46104_e6_y4	,000	Ψ E43045_e6_y4	,000	E40430_e6_y4	,000	
\$	,000	\$	,000	\$	,000	\$	,000	\$	,000	
7. Other energ	v-related te	echnologies								
E63045_e7_y1		E45097_e7_y1		E46104_e7_y1		E43045_e7_y1		E40430_e7_y1		
\$	,000		,000	\$	,000	\$	,000	\$	,000	
E63045_e7_y2		E45097_e7_y2		E46104_e7_y2		E43045_e7_y2		E40430_e7_y2		
\$	,000		,000	\$	,000	\$	,000	\$	,000	
E63045_e7_y3	000	E45097_e7_y3	000	E46104_e7_y3	000	E43045_e7_y3	000	E40430_e7_y3	000	
\$ E63045_e7_y4	,000	\$ E45097_e7_y4	,000	\$ E46104_e7_y4	,000	\$ E43045_e7_y4	,000	\$ E40430_e7_y4	,000	
\$	,000		,000	\$	,000	\$	,000	\$	,000	
E63045_e7_y5	,,,,,	E45097_e7_y5	,	E46104_e7_y5	,	E43045_e7_y5	,	E40430_e7_y5	,	
\$	,000	\$	,000	\$	,000	\$	,000	\$	,000	
		_		_	_					

# Environmental and clean technology R&D expenditures in 2024

20. **In 2024**, what percentage of this organization's **total expenditures** for **R&D performed in-house** within Canada was related to **research and development of environmental and clean technologies**?

**Environmental and clean technology product** is defined as any process, product, or service that reduces environmental impacts: through environmental protection activities that prevent, reduce or eliminate pollution or any other degradation of the environment, resource management activities that result in the more efficient use of natural resources, thus safeguarding against their depletion; or the use of goods that have been adapted to be significantly less energy or resource intensive than the industry standard.

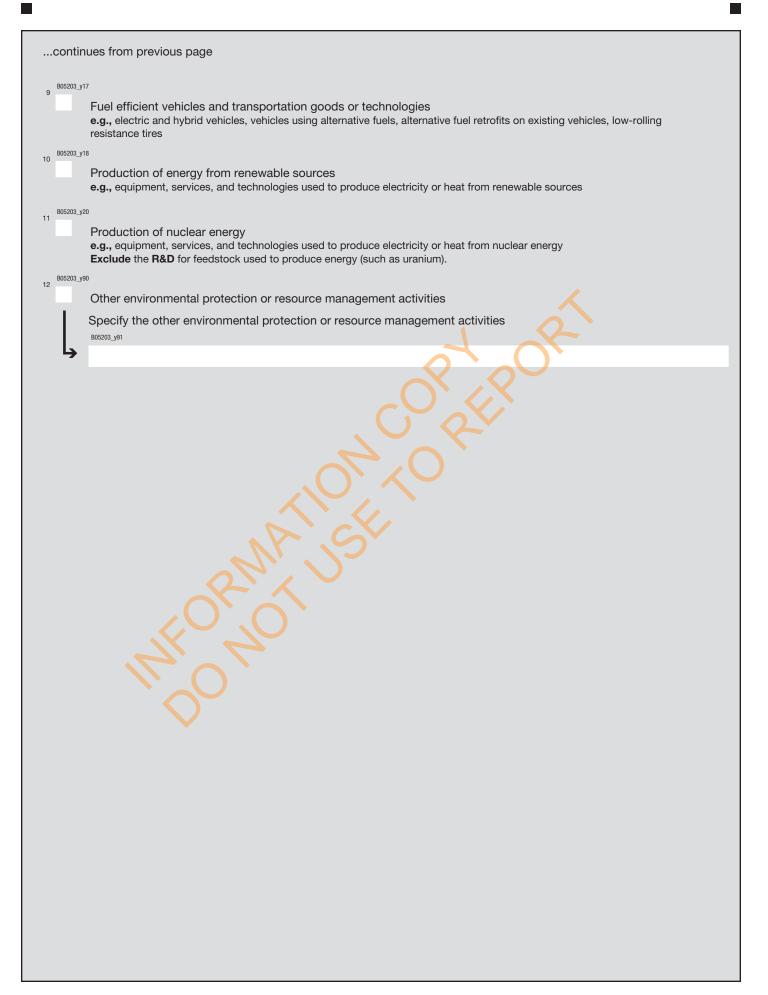
Report '0' for no environmental and clean technology R&D expenditures.

If precise figures are not available, please provide your best estimate.

environm	ntage of nental and nology R&D
E45238	
	%

1.	In 2024, in which of the following categories of environmental and clean technology did this organization perform R&D activities?
	Select all that apply.
1	B05203_y11
	Air pollution management
	e.g., greenhouse gas control technologies or management services, physical or chemical treatment technologies, air pollution modeling and mapping services
	B05203 y9
2	Solid waste management
	e.g., collection of waste, recycling and organics, compaction-related technologies, landfill leachate collection and containment
	technologies
3	
	Wastewater management  e.g., physical or chemical treatments of industrial wastewater, mine tailing handling and treatment, biological treatments of sewage
4	B05203_y12
	Protection and remediation of soil, groundwater and surface water  e.g., in situ and ex situ biological, physical, chemical, thermal treatments, containment
5	
	Protection of biodiversity and habitat
6	
	Noise and vibration abatement  Exclude R&D related to workers' health and safety.
	B05203 y15
7	Protection against radiation
	Exclure R&D related to workers' health and safety.
	B05203_y16
8	Heat and energy savings and management
	e.g., efficient equipment (advance insulation, high efficiency pumps or burners (Energy Star certified), etc.), energy storage
	technologies (flywheels, fuel cells, etc.), lighting upgrades, smart grid services and associated technologies

...continues on next page



# Notification of intent to extract web data 22. Does this organization have a website? B00024 Yes Specify the organization website address 1 e.g., www.example.ca Specify the organization website address 2 e.g., www.example.ca B00030 Specify the organization website address 3 e.g., www.example.ca B00031 No Statistics Canada engages in web-data extraction, also known as web scraping, which is a process by which information is gathered and copied from the Web using automated scripts or robots, for retrieval and analysis. As a result, we may visit the website for this organization to search for and compile additional information. The use of web scraping is part of a broader effort to reduce the response burden on organizations, as well as produce additional statistical indicators to ensure that our data remain accurate and relevant. We will strive to ensure that the data collection does not interfere with the functionality of the website. Any data collected will be used by Statistics Canada for statistical and research purposes only, in accordance with the agency's privacy and confidentiality mandate. For more information regarding Statistics Canada's web scraping initiative, please visit http://www.statcan.gc.ca/eng/our-data/where/web-scraping.

To learn more about Statistics Canada's transparency and accountability, please visit <a href="http://www.statcan.gc.ca/eng/transparency-accountability">http://www.statcan.gc.ca/eng/transparency-accountability</a>.

If you have any questions or concerns, please contact **Statistics Canada Client Services**, toll-free at 1-877-949-9492 (TTY: 1-800-363-7629) or by email at <a href="mailto:infostats@statcan.gc.ca">infostats@statcan.gc.ca</a>. Additional information about this survey can be found at the following link: <a href="http://www.statcan.gc.ca/survey">http://www.statcan.gc.ca/survey</a>.

Changes or events
<ol> <li>Indicate any changes or events that affected the reported values for this business or organization compared with the last reporting period.</li> </ol>
Mark all that apply.
B00316_r1
Outsourcing of R&D projects
Initiation of new <b>R&amp;D</b> projects
B00316_r3
Completion of existing R&D projects
Mojor change in funding of DSD projects (loca of funding)
Major change in funding of <b>R&amp;D</b> projects (loss of funding)
Major change in funding of <b>R&amp;D</b> projects (increase in funding)
B00316_r6
Organizational change that affected <b>R&amp;D</b> activities (expansion, reduction, restructuring)
Economic change that affected <b>R&amp;D</b> activities
B00316_r11
Lack of availability of qualified <b>R&amp;D</b> personnel
Other changes or events — specify:
B00302_ti6
OR B00316_t17
No changes or events

Co	ntact person
24.	Statistics Canada may need to contact the person who completed this questionnaire for further information.
	If the contact person is the same as on cover page, please check
	Otherwise, who is the <b>best person to contact</b> about this questionnaire?
	First name
	Last name
	Title
	4
	Email address (Example: user@example.gov.ca)
	Telephone number (including area code)  Extension number Fax number (including area code)
	Example: 123-123-1234 (if applicable) Example: 123-123-1234
Ea	
ге	edback
	Hours Minutes How long did it take to complete this questionnaire? Include the time spent gathering the necessary information.
25.	Hours Minutes How long did it take to complete this questionnaire?
25.	Hours Minutes How long did it take to complete this questionnaire? Include the time spent gathering the necessary information.
25.	Hours Minutes How long did it take to complete this questionnaire? Include the time spent gathering the necessary information.  We invite your comments about this questionnaire.
25.	Hours Minutes How long did it take to complete this questionnaire? Include the time spent gathering the necessary information.  We invite your comments about this questionnaire.
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### General information

# Confidentiality

#### Your answers are confidential.

By law, Statistics Canada is prohibited from releasing any information it collects that could identify any person, business, or organization, unless consent has been given by the respondent, or as permitted by the *Statistics Act*. Statistics Canada will use the information from this survwey for statistical purposes only.

#### **Data-sharing agreements**

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Statistics Canada will only share data from this survey with those organizations that have demonstrated a requirement to use the data.

# Provincial and territorial statistical agencies

**Section 11** of the *Statistics Act* provides for the sharing of information with provincial and territorial statistical agencies that meet certain conditions. These agencies must have the legislative authority to collect the same information, on a mandatory basis, and the legislation must provide substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the *Statistics Act*. Because these agencies have the legal authority to compel businesses to provide the same information, consent is not requested and businesses may not object to the sharing of the data.

For this survey, there are **Section 11** agreements with the provincial and territorial statistical agencies of Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon. The shared data will be limited to information on in-house research and development expenditures (Question 9) and inhouse research and development personnel (Question 16) pertaining to business establishments located within the jurisdiction of the respective province or territory.

**Section 12** of the *Statistics Act* provides for the sharing of information with federal, provincial or territorial government organizations. Under **Section 12**, you may refuse to share your information with any of these organizations by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire. Please specify the organizations with which you do not want to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, the Northwest Territories and Nunavut. The shared data will be limited to information on in-house research and development expenditures (Question 9) and in-house research and development personnel (Question 16) pertaining to business establishments located within the jurisdiction of the respective province or territory.

# Innovation, Science and Economic Development Canada

For this survey, Statistics Canada will share survey data with Innovation, Science and Economic Development Canada. The shared data will be limited to information on research and development expenditures (Questions 4 to 13) and in-house research and development personnel (Questions 14 to 16).

#### **Natural Resources Canada**

For respondents with expenditures on energy-related research and development in technology (fossil fuels, renewable energy resources, nuclear fission and fusion, electric power, hydrogen and fuel cells, energy efficiency, other energy-related technologies), Statistics Canada will also share survey data with the Office of Energy Research and Development (OERD) of Natural Resources Canada. The shared data will be limited to information on Energy Research and Development Expenditures by Area of Technology (Question 19).

You may refuse to share your information with this organization by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire.

# **Department of Finance Canada**

For this survey, Statistics Canada will share survey data with the Department of Finance Canada. The shared data will be limited to information on environmental protection expenditures (Questions 20 and 21).

# **Record linkages**

To enhance the data from this survey and to reduce the reporting burden, Statistics Canada may combine the acquired data with information from other surveys or from administrative sources.

Thank you for completing this questionnaire.

Please retain a copy for your records.

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