

**WAR, MILITARISM
&
THE
CLIMATE
CRISIS**

**WEDNESDAY
JULY 22
5PM (PST)**

WEBINAR **WWW.CLIMATECONVERGENCE.CA**

Tamara Lorincz

PhD candidate

Member of Canadian Voice of Women for Peace

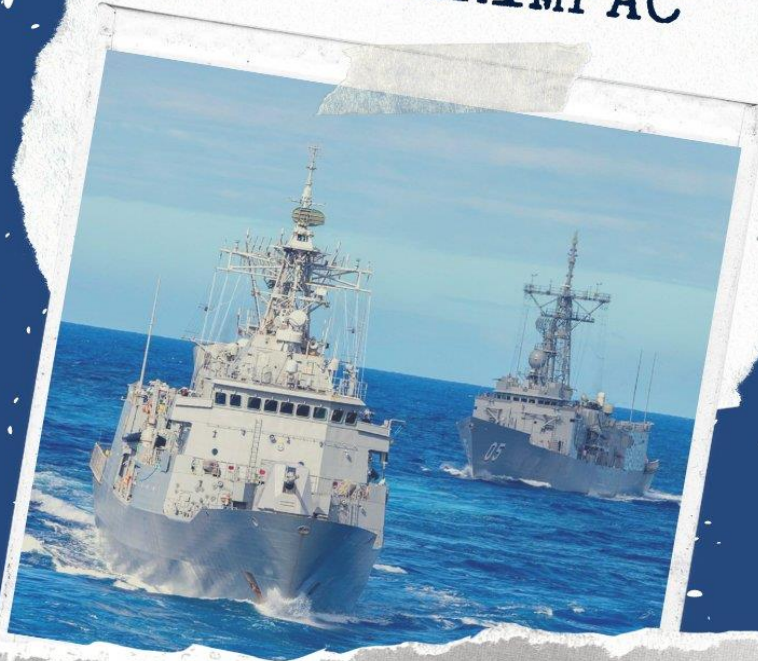
(www.vowpeace.org)

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CANADIAN VOICE OF WOMEN FOR PEACE

#CancelRIMPAC



For decades, RIMPAC has had a detrimental effect on the land and people of Hawaii. Today, with the global pandemic, Canada's participation in RIMPAC only escalates the threats posed to their safety and well-being.

@vowpeace

<https://vowpeace.org/cancel-rimpac-2020/>

Canadian Voice of Women for Peace Petition



START ORGANIZING

LOGIN OR SIGNUP

Canada: No More War Games on Dying Oceans During a Pandemic - End Participation in RIMPAC Now!



Photo: U.S. Navy photo by Mass Communication Specialist 1st Class Shannon Renfroe/RELEASED (July 25, 2014)

The Rim of the Pacific Exercise (RIMPAC) is a military exercise led by the United States Navy every two years in and around the Hawaiian Islands and Southern California, with up to 25 countries and over 25,000 military personnel participating in recent years. It is the largest maritime military exercise in the world and has been held since 1971.

84 Letters Sent

Only 16 more until our goal of 100

ENTER YOUR RETURN ADDRESS

First Name *

Last Name *

Email *

Street Address *

City *

Zip/Postal Code *

Launch of Plan for New Warships for Canada in 2010

This is a breakdown of the \$35 billion for the **National Shipbuilding Procurement Strategy**.

Combat (Navy Large Ship)	Non-Combat (Navy Large Ship)	Non-Combat (Small Ship)
<p>Royal Canadian Navy's Arctic Offshore Patrol ships and Canadian Surface Combatants ships (warships)</p> <p>Irving Shipbuilding Inc. in Halifax has been selected to build the combat vessel work package (new destroyers and frigates).</p>	<p>Royal Canadian Navy's non-combat vessels – Joint Supply Ships (3 ships)</p> <p>Seaspan Shipyards Co. Ltd. In Vancouver has been selected to build the non-combat vessel work package (Coast Guard's heavy icebreaker and offshore science vessels – 4 ships).</p>	<p>Small ship construction, an estimated value of \$2 billion, for competitive procurement amongst Canadian shipyards other than the yards selected to build large vessels. Regular maintenance and repair, valued up to \$500 million annually, will be open to all shipyards through normal procurement processes.</p>
21 vessels	7 vessels	116 vessels
\$25 billion over 20-30 years	\$8 billion over 20-30 years	\$2 billion



Nova Scotia

Lockheed Martin to partner with Irving Shipbuilding on \$185M ship design contract



15 Canadian warships to be built at Halifax shipyard beginning in 2023

Susan Bradley · CBC News · Posted: Feb 08, 2019 9:23 AM AT | Last Updated: February 8, 2019



Jim Irving, co-CEO of JD Irving Ltd., said Irving Shipbuilding is eager to begin construction of the new warships. This design work is expected to take 3-4 years to complete with construction set to begin in the early 2020s. (CBC)

56 comments

The announcement was short and sweet Friday morning.

Public Services and Procurement Minister Carla Qualtrough announced the federal government has awarded a \$185-million shipbuilding design contract for the next 15 Canadian warships to

Defence Watch

Cost of Canadian navy warship project increases to \$70 billion, according to new PBO estimate

David Pugliese • Ottawa Citizen
June 21, 2019 • 3 minute read



A representation of the BAE Systems Type 26 Global Combat Ship. BAE SYSTEMS



“Pentagon emissions were greater than Finland, which emitted 46.8 million metric tons, Sweden which emitted 50.8 million metric tons, and Denmark which emitted 33.5 million metric tons of CO₂eq.” -- **Costs of War report, p. 13**

Comparing Carbon Footprints

CHART: Comparing carbon footprints

	Annual Emissions 2017 (metric tonnes)	Total Population 2017	Emissions/per capita 2017
Sweden	50,800,000	10,120,242	5 metric tonnes/person
Canada	617,301,000	36,624,199	17 metric tonnes/person
United States	5,048,000,000	324,459,463	16 metric tonnes/person
*United States military (Pentagon)	59,000,000	2,100,000	28 metric tonnes/person

Source: Dr. Neta Crawford, Brown University “Pentagon Fuel Use, Climate Change and Costs of War” (2019) and The Emissions Database for Global Atmospheric Research (2018).

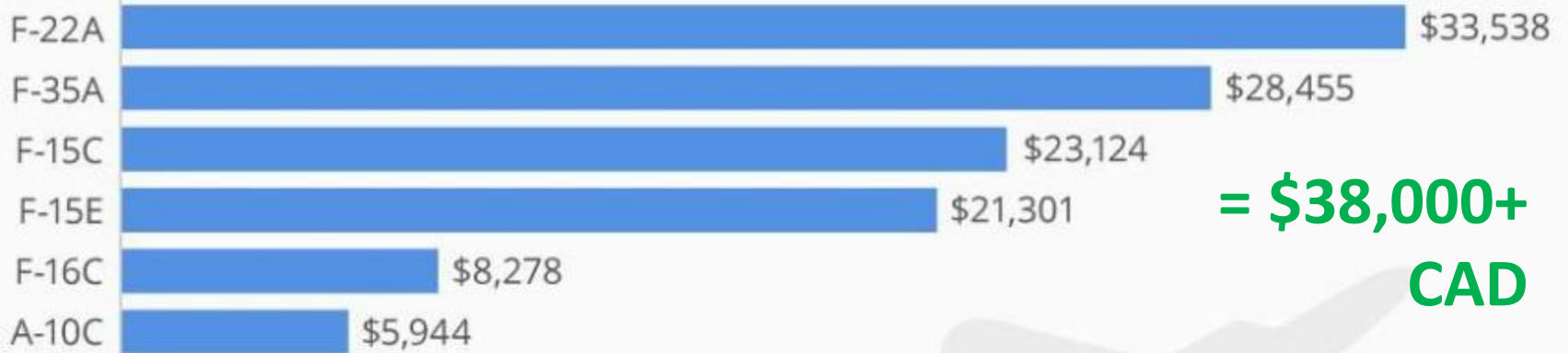
Table 1. Examples of US Military Aircraft Jet Fuel Consumption and CO2 Emissions³⁶

<i>Aircraft</i>	<i>Mission</i>	<i>Internal Fuel Capacity pounds and in gallons³⁷</i>	<i>Range in nautical miles on internal fuel</i>	<i>Fuel consumption, gallons per nautical mile</i>	<i>Metric Tons of CO2e Emissions, without aerial refueling.³⁸</i>
B-2	Bomber	167,000 lbs/ 25,692 gal	6,000	4.28 gallons/mile	251.4 Metric Tons
F-35A (CTOL)	Fighter bomber	18,499 lbs/ 2,846 gal	1,199	2.37 gallons/mile	27.8 Metric Tons
A-10	Close Air Support	11,000 lbs/ 1,692 gal	500	3.38 gallons/mile	17.5 Metric Tons
KC-135R	Refueling Tanker	50,000 lbs/ 7,692 gal	1,500 (loaded with 150,000 lbs of transfer fuel)	4.9 gallons/mile	75.3 Metric Tons
KC- 46A ³⁹	Refueling Tanker and Cargo	<i>Estimated</i> 16,000 gal	6,385 (loaded with 210,000 lbs of transfer fuel)	<i>Estimated</i> 2.9 gallons/mile	156.5 Metric Tons

The Cost Of Operating America's Fighter Planes

Hourly cost of operating selected U.S. Air Force and Navy/Marine Corps aircraft*

Air Force



Navy/Marine Corps



= \$38,000+
CAD



CANADA

QUEBEC

INDIGENOUS

INTERNATIONAL

PODCAST



Spending \$19 billion on fighter jets won't fight COVID-19 or climate change

*Instead of buying a new weapons system, the federal government should
disarm and invest in a Green New Deal*

Opinion by
Tamara Lorincz
MAY 12, 2020



At KW Peace Meeting
March 2020

**\$19 billion for climate,
education & housing
NOT FIGHTER JETS
FUND A GREEN NEW DEAL
NOT NEW WEAPONS
#ClimatePeace www.vowpeace.org**

**NO
FIGHTER JETS
THEY HARM PEOPLE &
THE ATMOSPHERE
#ClimatePeace www.demilitarize.ca**

Canada – Announced December 2016

\$132 billion approximately over 11 years

PAN-CANADIAN FRAMEWORK



on Clean Growth and Climate Change

Canada's Plan to Address Climate
Change and Grow the Economy

\$2 billion
Low Carbon
Economy Fund

\$1 billion in Clean
Tech

\$2.65 billion for
climate financing to
developing countries

\$400 million over 11
years for
transportation
infrastructure in the
three territories
under the National
Trade
Corridors Fund.

\$81 billion over 11
years for Green
Infrastructure

June 2017 - CANADA

Table 1: Defence Funding (\$ millions)*

	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Accrual Basis	17,148	17,174	17,636	18,677	19,464	20,015
Cash Basis	18,908	20,683	21,428	21,714	24,276	25,315

2022-23	2023-24	2024-25	2025-26	2026-27	Total 10yrs	Total 20yrs
20,870	22,092	23,278	23,899	24,551	207,654	497,012
26,048	29,879	31,741	31,931	32,673	265,688	553,003

*Not including future mission costs

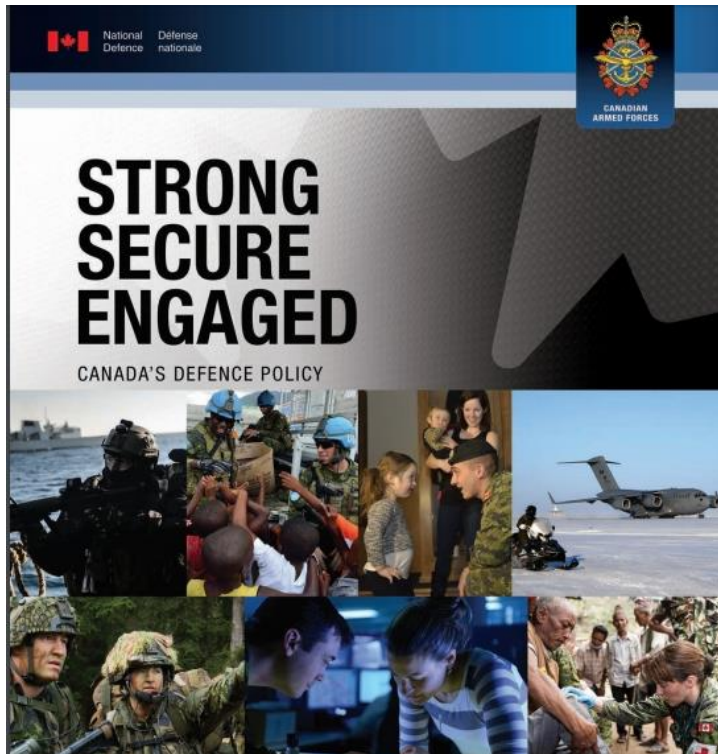


Defence Policy 2017, p. 43

“\$553 billion over next 20 years”

“Maintain high-end warfighting”

Defence Policy 2017, p. 36



THERE WAS NO DISSENT BY ANY POLITICIAN FROM ANY PARTY

What is Canada's defence policy?

- Motivated by NATO and declares “US is our most important defence relationship”
- **70% increase** to annual base budget of DND to \$32.7 billion per year by 2026
- Increase number of **new warships** from 12 to **15** cost of **\$104+ billion**
- Increase number of **new fighter jets** from 65 to **88** cost **\$40+ billion**
- Buy **new armed drones** and **attack helicopters**
- Modernize submarines and light armoured vehicles (tanks)
- Increase inter-operability with allies
- Increase troops will target women, First Nations people and minorities
- Militarize education - increase funding for defence R&D at universities



National
Defence

Defense
nationale



CANADIAN
ARMED FORCES



Defence Energy and Environment Strategy

Harnessing energy efficiency and sustainability:
Defence and the road to the future

Canada

CANADA
November
2017

National Defence policy

As the largest user of energy in the Canadian government, National Defence has a key role to play in supporting the government's commitment. The DEES establishes a sound and responsible energy policy for Defence and provides the strategic direction required to support the Defence team in managing energy and environmental considerations on a regular and emerging basis. The DEES also includes activities that support the advancement of the Government of Canada's energy and environmental agenda such as Defence's contribution to the Federal Sustainable Development Strategy.

Defence is the single largest emitter of greenhouse gases in the federal government. In support of the Federal Sustainable Development Strategy, Defence will play a leadership role in reducing its greenhouse gas emissions from both its infrastructure and operational portfolios, where feasible. Under the Federal Sustainable Development Strategy target, DND is committed to a 40% reduction below 2005 levels of greenhouse gas emissions from its buildings and commercial vehicle fleet (except military equipment), by 2030.

TARGET 1: By 2030, reduce GHG emissions in DND buildings and commercial vehicle fleet by 40%

Strong, Secure, Engaged: Canada's Defence Policy recognizes climate change as a key factor contributing to the growing complexity of the global security environment. In addition to supporting the government's commitment to reduce greenhouse gas emissions, Defence will strengthen its capacity for adaptation to climate change by integrating adaptation measures to climate change impacts into its policies and practices. Effective adaptation measures will mitigate the risks associated with climate change impacts on operations.

Defence is undertaking many significant and positive actions to reduce greenhouse gas production tied to infrastructure and its commercial vehicle fleet. Reduction opportunities also exist within the operational portfolio. However, given the unpredictable changes in operational tempo, the federal reduction target will not include emissions from military activities and operations. Nevertheless, Defence will support innovative approaches to reduce energy consumption and greenhouse gas emissions from military activities and operations.

TARGET 2: Invest \$225 million by 2020 in a wide range of infrastructure projects across Canada to reduce DND's carbon footprint

“Given the unpredictable changes in operational tempo, the federal reduction target will not include emissions from military activities and operations.”

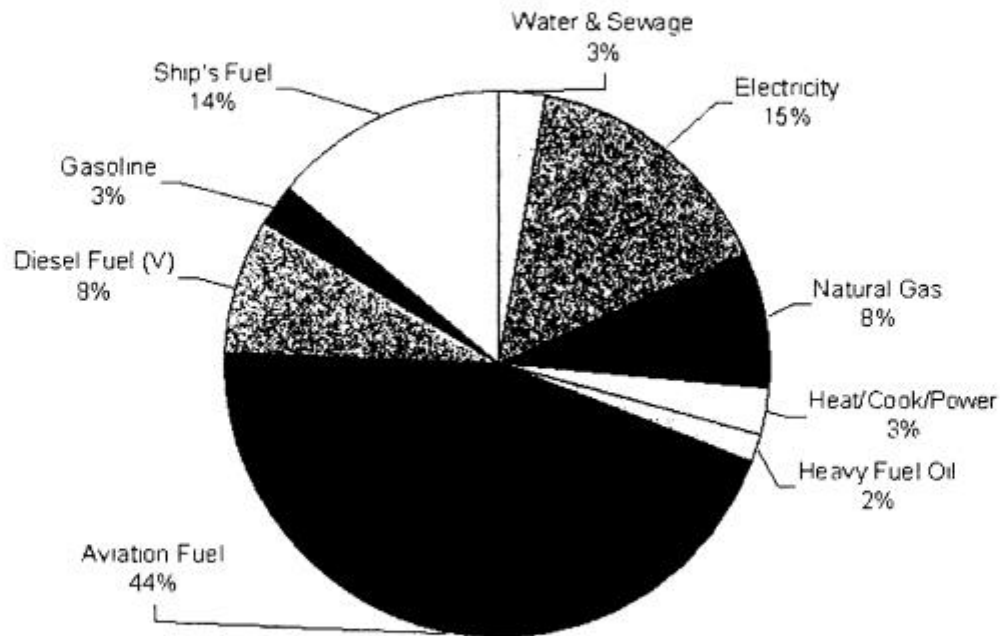
Climate Impacts of the Military

- Canada's Dept. of Defence (DND) largest consumer of petroleum and largest landholder among all federal agencies (5 million acres of property, over 20,000 buildings and 21 bases)
- 75% of fuel use for mobile operations / 25% for stationary (installations)
- Air force uses the most fuel – JP8 for fighter jets
- Military vehicles inefficient, long life-cycles and locked-in energy platforms
- Accounting for military emissions not transparent – clauses for exemptions and confidentiality
- Military emissions are exempted from reduction targets
- *US Dept. of Defense (DOD) largest institutional consumer of oil (\$8-17B/year) & largest landholder w/ 800 bases in 70 countries



Breakdown of Energy Costs

DND/CF Energy Cost (\$533M in FY10/11)

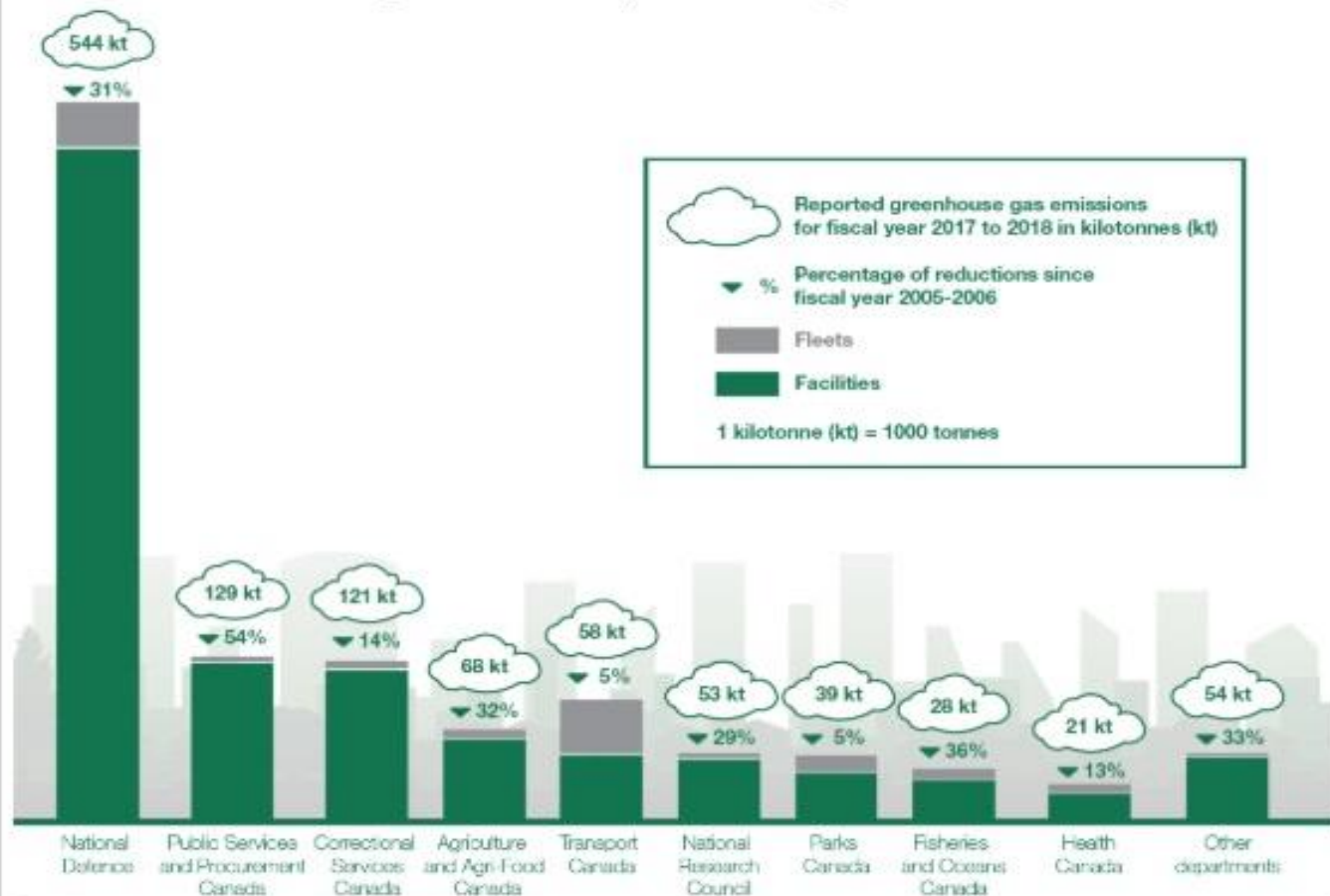


- Roughly 70% of the total expenditures (close to \$370M) is fleet
- 30% (close to \$150M) is domestic infrastructure

Progress Facilities Fleets By organization By region Other sources Methodology

Trends in greenhouse gas emissions by federal organization

Figure 4: Greenhouse gas emissions by federal organization in fiscal year 2017 to 2018 and the percentage change in emissions compared with fiscal year 2005 to 2006



► Figure 4 - Text version

“Certain sources of greenhouse gas emissions are excluded from the federal reduction target because of their important role in ensuring the national safety and security of all Canadians. This includes the operation of military vehicles and equipment by the Department of National Defence.... The Department of National Defence is one of the largest landowners and the largest energy consumer in the Government of Canada.”

**Hon. Catherine McKenna,
Minister of Environment & Climate Change
May 2019**

National Safety and Security Exemption

SIPRI Trends in World Military Expenditure, 2019

Table 1. The 40 countries with the highest military expenditure in 2019

Spending figures and GDP are in US\$, at current prices and exchange rates. Changes are in real terms, based on constant (2018) US\$. Percentages below 10 are rounded to 1 decimal place; those over 10 are rounded to whole numbers. Figures and percentage shares may not add up to stated totals or subtotals due to the conventions of rounding.

Rank		Country	Spending (\$ b.), 2019	Change (%)		Spending as a share of GDP (%) ^b		World share (%), 2019
2019	2018 ^a			2018-19	2010-19	2019	2010	
1	1	United States	732	5.3	-15	3.4	4.9	38
2	2	China	[261]	5.1	85	[1.9]	[1.9]	[14]
3	4	India	71.1	6.8	37	2.4	2.7	3.7
4	5	Russia	65.1	4.5	30	3.9	3.6	3.4
5	3	Saudi Arabia	[61.9]	-16	14	[8.0]	8.6	[3.2]
Subtotal top 5			1 191	..	..	..	..	62
6	6	France	50.1	1.6	3.5	1.9	2.0	2.6
7	9	Germany	49.3	10	15	1.3	1.3	2.6
8	7	United Kingdom	48.7	0.0	-15	1.7	2.4	2.5
9	8	Japan	47.6	-0.1	2.0	0.9	1.0	2.5
10	10	South Korea	43.9	7.5	36	2.7	2.5	2.3
Subtotal top 10			1 430	..	..	..	..	75
11	11	Brazil	26.9	-0.5	6.1	1.5	1.5	1.4
12	12	Italy	26.8	0.8	-11	1.4	1.5	1.4
13	13	Australia	25.9	2.1	23	1.9	1.9	1.4
14	14	Canada	22.2	-2.0	27	1.3	1.2	1.2
15	15	Israel	20.5	1.7	30	5.3	5.9	1.1

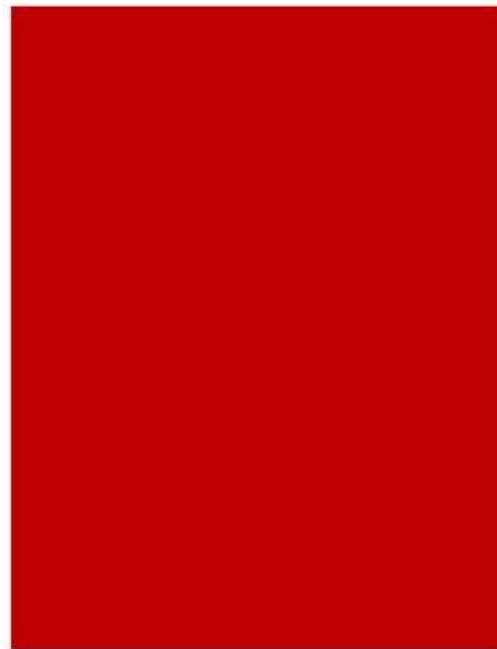
CANADA

Military v. Environment Funding in Canada

From the *Public Accounts of Canada*. Volume II Table 2. 2018-2019

■ National Defence / Military ■ Environment Canada

\$31,713,351,000



\$1,946,003,000

2019

Source: Public Accounts of Canada

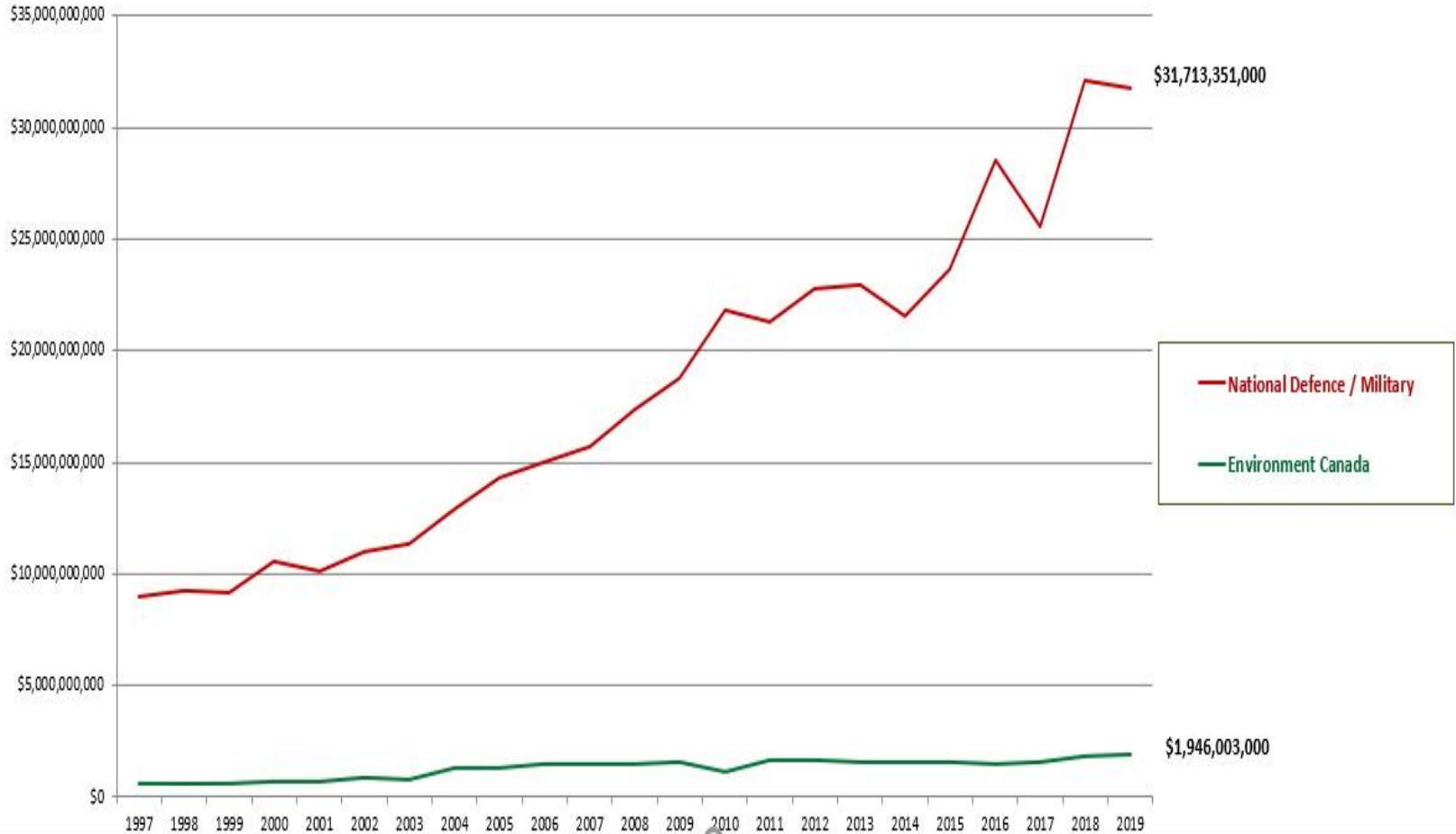
<https://www.tpsgc-pwgsc.gc.ca/recgen/cpc-pac/index-eng.html>

CANADA

Department of National Defence v. Environment Canada

Funding for Military v. Environment, Government of Canada Expenditures from 1997-2019

From the *Public Accounts of Canada*, Receiver General for Canada, Vol 2, Table 2a, Source: <http://www.tpsgc-pwgsc.gc.c>



National Defence

1997

\$8,831,231,000

2019

\$31,713,351,000

Dept. of Environment & CC

\$561,030,828

\$1,946,003,000

Total Provincial Spending on Departments of Environment 2018

Province	Department of Environment	Actual Spending 2017-2018
British Columbia	Ministry of Environment & Climate Change Strategy	\$177, 243,000
Alberta	Ministry of Environment and Parks	\$855,176,000
Saskatchewan	Ministry of Environment	\$169,565,000
Manitoba	Department of Sustainable Development	\$156,291,029
Ontario	Ministry of Environment and Climate Change / Ministry of the Environment, Conservation and Parks	\$523,010,883
Quebec	Ministère du Développement durable, Environnement et Lutte contre les changements climatiques, Bureau d'audiences publiques sur l'environnement	\$164,000,000
New Brunswick	Ministry of Environment	21, 600,000
Nova Scotia	Ministry of Environment (consolidated)	\$90,989,000
Newfoundland & Labrador	Municipal Affairs and Environment	\$241,716,000
Prince Edward Island	Communities, Land and Environment	\$21,081,000
Northwest Territories	Department of Environment & Economic Development	\$161,094,000
Yukon	Department of Environment	\$36,037,000
Nunavut	Department of Environment	\$33,480,000
		\$2,452,439,912

Federal \$1.9 billion + Provincial \$2.4 billion = \$4.3 B

UN Peacekeeping Ranking 2020

Ranking	country name	Male	Female	Total	report_date
73	Norway	53	15	65	30/04/2020
74	Belgium	32	7	39	30/04/2020
75	Namibia	32	8	39	30/04/2020
76	Lithuania	35	3	38	30/04/2020
→ 77	Canada	27	8	35	30/04/2020
78	Armenia	32	2	34	30/04/2020
79	Australia	26	7	33	30/04/2020
80	Paraguay	28	3	31	30/04/2020
81	Brunei Darussalam	30	0	30	30/04/2020
82	Chile	27	3	30	30/04/2020
83	Bosnia and Herzegovina	20	9	29	30/04/2020

Source: UN Peacekeeping Office: <https://peacekeeping.un.org/en>

Canada's War-Making and War

- Canadian special forces helped to overthrow government in **Haiti** in 2004, we are now working to overthrow government in **Venezuela** (Lima Group)
- Canada's combat mission in **Afghanistan** from 2002-2014 – complicit torture
- Canada led the NATO bombing of **Libya** in 2011 led to refugee crisis
- Canada bombing (& refuelling US-led coalition bombing) of **Syria & Iraq** 2019
- Canada fuelling violent conflict & refugee crisis in Syria & Iraq (Operation IMPACT)
- 2015 report Canadian forces “highly sexualized culture that is hostile to women”
- Canada is arming Saudi Arabia, Egypt, Israel and Bahrain (Arms Exports 2016)
- Canada is refusing to join the UN nuclear weapons ban treaty
- Canada leading NATO battle group in **Latvia** and **Poland** (Op REASSURANCE)
- Canadian navy exercised with U.S. AFRICOM off coasts of East and **West Africa**
- Canadian special forces across Africa and Middle East with no public oversight
- Canada training **Ukrainian** soldiers – very provocative to Russia (Operation UNIFIER) – Regular **NATO** naval exercise near Russia

Climate Injustice

Military emissions and expenditures are immoral/unethical

Paris Agreement ethical principles = equity, justice, transparency, accountability, just transition and sustainable development

Q: How can we have a *just transition* or *sustainable development* when Western countries use a disproportionate amount of fuel for their militaries and warfighting?

Q: How can we have *equity* when our militaries will get a greater share of the carbon budget for fighter jets, warships and tanks?

We must have a parallel process of disarmament and demilitarization alongside climate mitigation and adaptation

Demilitarization

Decarbonization - Divest

Decolonization – Social Justice

**For a green new deal, a red deal,
a just recovery and climate justice!**

ARMS TO RENEWABLES

WORK FOR THE FUTURE

OCTOBER 2014

**Campaign Against
Arms Trade (CAAT)
UK 2014**

Warheads to Windmills

How to Pay for a Green New Deal



**Nuclear Ban US (ICAN)
US 2019**

NO WARMING, NO WAR: HOW MILITARISM FUELS THE CLIMATE CRISIS – AND VICE VERSA

LORAH STEICHEN | LINDSAY KOSHGARIAN

<https://ips-dc.org/climate-militarism-primer/>

Take Action

1. There is NO ROLE FOR THE MILITARY in tackling climate change
2. Make the links between Demilitarization and Decarbonization
3. Talk to your Member of Parliament about military emissions and expenditures
4. If you are a member of a political party, please push them on military emissions and expenditures
5. NO TO NATO, CANADA OUT OF NATO, No to NATO's 2% GDP target! Don't support the military alliance and speak out.



Voice of Women for Peace, *Demilitarize:Decarbonize*, 2018

VOW PRESENTS
MILITARISM'S RACISM AND VIOLENCE
AT HOME AND ABROAD:
NATO AND US AFRICOM

Thursday,
July 23

Thursday, July 23, 2020

6:30 PM to 8:00 PM EDT



Please join Melissa and Tamara for a webinar with featured speakers: **Margaret Kimberley**, who is with United National Antiwar Coalition, Black Alliance for Peace and the Black Agenda Report, and **El Jones**, award winning Canadian poet, activist and journalist, to discuss the **racism** and **violence of militarization** at home and abroad. We will also talk about the growing presence of NATO and US AFRICOM on the African continent and how that **undermines peace** and **development** for the people. We will learn more about Canada's involvement in US AFRICOM and how Canada's operations with NATO are **threatening conflict** with other countries. We will make the links between **police brutality** on our streets and **war** around the world. We will share ways we can **resist** this militarism and **raise our voices** for peace, nonviolence and global solidarity.



Please email ontario@vowpeace.org to register for this event!

For more information, visit the Canadian Voice of Women on Facebook
<https://www.facebook.com/VOWPeace/>



CANADIAN VOICE OF WOMEN FOR PEACE



United Nations Association in Canada
Association canadienne pour les Nations Unies

ontario@vowpeace.org



#NONEWFIGHTERJETS #CLIMATEPEACE

JOIN US FRI. JULY 24:

DAY OF ACTION

AGAINST FIGHTER JETS

STRIKE FOR CLIMATE PEACE

**STOP THE \$19B PROCUREMENT
FUND A GREEN NEW DEAL,
NOT NEW WEAPONS**



WWW.VOWPEACE.ORG/NOFIGHTERJETS/

SUPPORTED BY WORLD BEYOND WAR AND PEACE BRIGADES INTERNATIONAL-CANADA

**Strike for Climate Peace:
No New Fighter Jets**

Friday, July 24

*11am-12PM

Outside *Defence Minister*
MP Harjit Sajjan's
Constituency Office
6406 Victoria Drive,
Vancouver, British
Columbia

Contact: Ellen
Woodsworth
(ewoodsworth@icloud.com)

Women's International
League for Peace &
Freedom (WILPF) Canada

Come to Ottawa in June 2021!



#NOWAR2021: DIVEST, DISARM, DEMILITARIZE – JUNE 1-6, 2021 OTTAWA

Conversion for a peaceful, green, & just future



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[Our Coalition](#)

[Get Involved!](#) ▾

[Speakers](#)

[Media Toolkit](#)

[Rides & Lodging Board](#)

[Contact](#)

[EN](#)

World Beyond War: www.worldbeyondwar.org

Resources

1. **Demilitarization for Deep Decarbonization** 2014 report by Tamara Lorincz on www.ipb.org under “Publications”
2. The Costs of War Project 2019 report “**Pentagon Fuel Use, Climate Change and the Costs of War**”: <https://watson.brown.edu/costsofwar/>
3. **United in Science** 2019 report:
https://public.wmo.int/en/resources/united_in_science
4. **The Green Zone: The Environmental Costs of Militarism** book by Barry Sanders
5. **IPS No War, No Warming Primer**: <https://ips-dc.org/climate-militarism-primer/>
6. **Global Warming, Militarism and Nonviolence: The Art of Active Resistance** book by Marty Branagan
7. Rosalie Bertell’s book ***Planet Earth: The Latest Weapon of War***
8. Check out Canada’s ***Defence Energy and Environmental Strategy***
9. Check out ***Public Accounts of Canada***

