Canada's fragmented energy transition and the role of provinces

Join us **11am PT/2pm ET on July 9** as some of Canada's leading climate think tanks offer informed insight on provincial climate action

PEMBINA Institute



RACHEL DORAN
Vice President of Policy and Strategy,
Clean Energy Canada



SARAH MCBAIN Senior Analyst, Pembina Institute



DR. SARA HASTINGS-SIMON
Associate Professor,
Dept of Earth, Energy, and Environment,
and School of Public Policy



KERI MCNAMARA

Manager, Reports and Outreach,
Clean Energy Canada

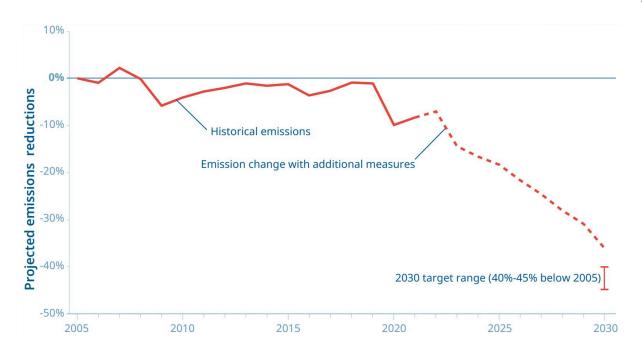
All Together Now

A provincial scorecard on shared responsibility to reduce greenhouse gas emissions in Canada

Sarah McBain, Thomas Gunton, Chelsea Mathieson, Martha Kilian, Matt Dreis, Simon Dyer

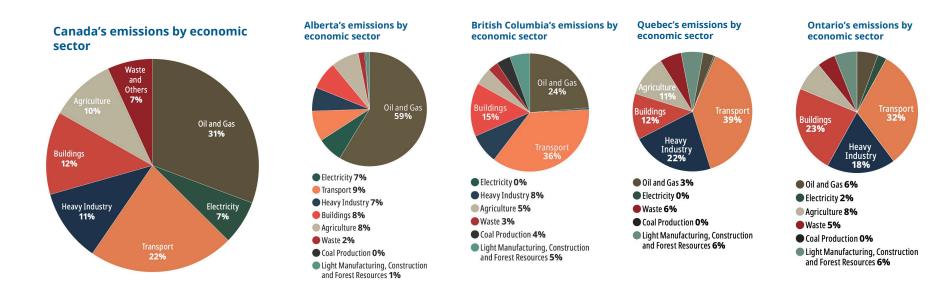


Canada's emissions: a snapshot





Canada's emissions: a snapshot





Assessing climate leadership

- Evaluate the performance of Canada's provincial and federal governments.
- Across 23 policy indicators representing best practice for effective climate policy.

General

- •Emission reduction targets
- •Climate action plan
- •Climate accountability
- •Clean economy transition

Sector-specific

- •Buildings
- Transportation
- •Electricity
- •Oil and gas





	CAN federal	вс	АВ	SK	МВ	ON	QC	NB	NS	PE	NL
Emissions reduction targets											
Has a 2030 target aligned with a 40–45% reduction (below 2005 levels)											
Has or is in the process of legislating a net-zero by 2050 target											
Has interim emissions reduction targets											
Climate action plan											
Has a climate plan											
Has a plan to meet net-zero by 2050											
Climate accountability and governance											
Has a legislative requirement to prepare a climate plan, set reduction targets, and monitor and report											
Has an independent accountability process to advise and evaluate the climate plan											
Has a public monitoring and reporting program for the climate plan											
Climate adaptation											
Has a climate adaptation strategy											
Reconciliation											
Has legislated UNDRIP											
Equity											
Has a plan to assess and mitigate climate equity impacts											

Assessing climate leadership

LEGEND

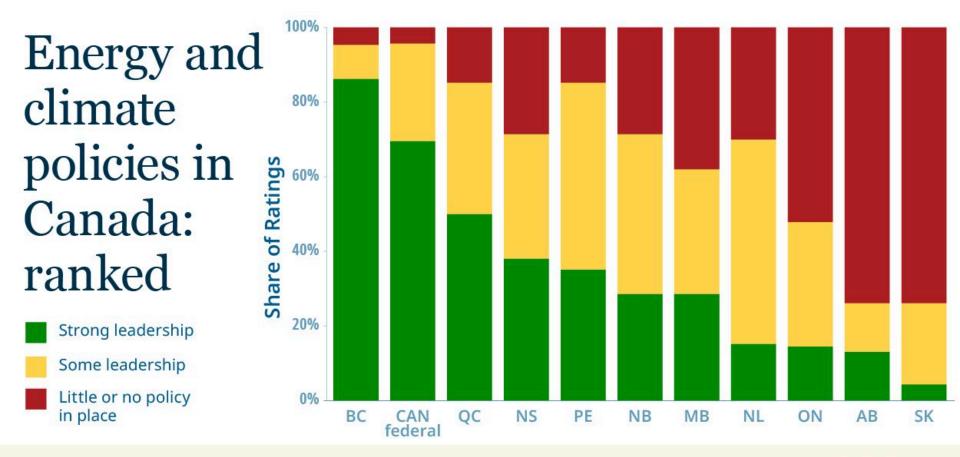
- Strong leadership
- Some leadership
- Little or no policy in place
- Not applicable

	CAN federal	ВС	АВ	SK	МВ	ON	QC	NB	NS	PE	NL
Clean economy transition											
Has a comprehensive plan and policy to support the transition to a clean economy											
Carbon price											
Supports carbon pricing in principal and has an end-use carbon price that meets federal benchmark											
Has a carbon price on industrial emitters that meets federal benchmark											
Buildings											
Has adopted standards for all new buildings to be zero- carbon ready by 2030											
Has a plan to retrofit existing buildings to be zero-carbon ready, with supporting measures											
Transportation											
Has a sales regulation for zero-emission light-duty vehicles, and supporting incentives											
Has a sales regulation for zero-emission medium/heavy- duty vehicles, and supporting measures											
Has comprehensive public transit and active transportation policy							•				•
Electricity											
Has decarbonized or has a plan for net-zero electricity generation by 2035											•
Has a plan to phase out coal by 2030											
Oil and gas											
Has legislated methane emissions reduction targets											
Has legislated oil and gas emissions reduction targets											

Assessing climate leadership

LEGEND

- Strong leadership
- Some leadership
- Little or no policy in place
- Not applicable





PEMBINA Institute

Sarah McBain

sarahmc@pembina.org

Link to full report: pembina.org/all-together-now

pembina.org

Subscribe to receive our perspectives to your inbox.

twitter.com/pembina facebook.com/pembina.institute



Making the Grade

Provincial scorecard reveals a Canada of provincial leaders and laggards in building sustainable economies



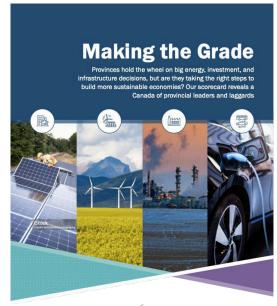






Why we did this report

- All eyes on federal climate policy and provincial rights- but little focus on provincial action
- Provinces make up 80% of public spending, most devolved in OECD, roll on climate and economic policy is critical.
- So we assessed which provinces are stepping up to the plate and which are lagging behind



CLEAN ENERGY CANADA

Graded provinces on building a sustainable economy

Sustainable economy: attracting and supporting clean businesses and supply chains, helping households transition off fossil fuels



Clean Buildings



Clean Energy



Clean Industry



Clean Transport

- Heat pump rebates
- Energy efficiency/ retrofit programs
- Building codes
- Home energy labelling
- Low-carbon construction

- Prepare for clean demand
- Pathways Assessment
- Energy strategy
- Grid flexibility

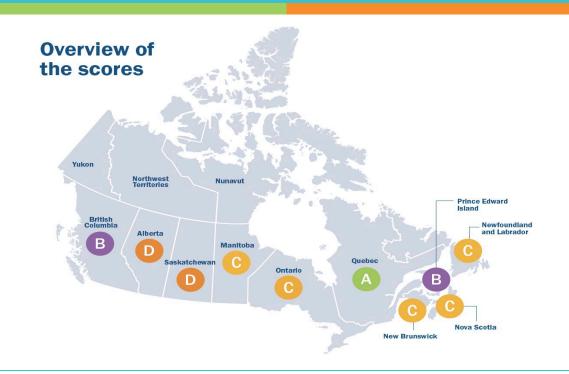
- Clean industrial strategy
- Establish targets
- Workforce strategy
- Support clean skills and training
- Support cleantech / decarbonization

- EV rebates
- Charging infrastructure
- ensure EV supply
- Home charging
- Public transport
- Zero-emission trucks/buses

Overall provincial scores

LEGEND

- A+ Global Leader
- A National Leader
- B Leadership Potential
- Middle of the Pack
- Palling Behind



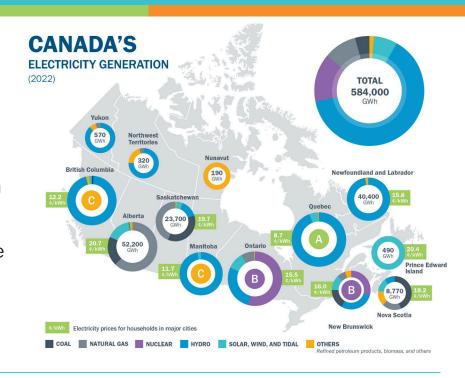
Provincial scores by pillar

	CLEAN BUILDINGS	CLEAN ENERGY	CLEAN INDUSTRY	CLEAN TRANSPORTATION
British Columbia	A	C	В	A
Alberta	D	D	0	D
Saskatchewan	D	D	D	D
Manitoba	C	C	В	C
Ontario	C	В	В	0
Quebec	В	A	A	A
New Brunswick	В	В	C	0
Nova Scotia	C	В	C	0
Prince Edward Island	В	В	В	C
Newfoundland and Labrador	C	©	C	D

Clean Energy: provincial snapshot

- Grades not about historic emissions intensity:

 BC, Manitoba and QC with similar grid intensities fared differently
- Reward efforts **to build a grid that will support the energy transition:** energy strategies,
 pathways to decarbonization, grid modernization
 and prepare for clean demand
- With electricity demand poised to at least double by 2050, there is a need for greater ambition from almost every province
- Leadership hasn't always been partisan



Clean Energy: energy strategies by province

Canadian Provinces and Net-zero Energy Strategies

	B.C.	Alb.	Sask.	Man.	Ont.	Que.	N.S.	N.B.	P.E.I.	N.L.
Comprehensive net-zero energy strategy	No*	No	No	Partial	Partial	Yes	Partial	Yes	Yes**	Yes
Explictly centre achievement of net-zero 2050	No	No	No	No	No	Yes	No	Yes	TBD	Yes
Vision, objectives, action plans	No	No	No	Partial	Partial	Yes	Partial	Yes	TBD	Yes
Ongoing renewal process	No	No	No	No	No	Yes	No	Yes	TBD	Yes
Comprehensive stakeholder engagement	No	No	No	Partial	Yes	Yes	No	Yes	TBD	Yes
Use of concrete targets	No	No	No	No	No	Yes	Yes	Yes	TBD	Yes
Integrates planning across energy systems	No	No	No	Partial	Partial	Yes	No	Yes	TBD	Partia

Overall insights

Provinces are not doing enough to help businesses and households to benefit from the energy transition —whether it's investing in the clean electricity grid, building out a public charging network, or setting their industries up for success in a clean energy future. Average grade is a C.

From coast to coast to coast, **Canadians are living vastly different experiences of the energy transition**. This unequal transition will increasingly see households and industries in certain provinces losing out on economic opportunities while paying more for energy.

Overall insights

- Provincial **clean transportation efforts are farthest behind**. This has big implications for how households experience the affordability benefits of clean energy, as an EV is one of the most significant ways households save money.
- Some of the **harshest critics of federal** action **are doing the least** to help their own citizens and businesses.