OUTRUNNING THE STORM

90 Urgent Actions

Complete Pan-Canadian Recommendation Register

LSCM Inc. | Dougald Lamont | May 26, 2026

These 90 actions are drawn directly from Section 4.3 of the source document. They are organised by timing (NOW / 30 days / 60-90 days) and include the federal authority, lead agency, and priority provinces for each. All 90 represent the document's minimum required response.

FIVE EASY WINS — Greatest Impact for Least Cost

- THERMOSTAT: Commercial & government building thermostat setback (2°C) delivers 5–8% heating cost reduction within days at zero capital.
- FULL TRUCKS: Freight route optimisation and backhaul elimination — empty backhaul runs are 25–35% of Canadian long-haul truck kilometres. Load-matching platforms cost almost nothing to deploy.
- PRECISION FERTILISER: Variable-rate nitrogen prescriptions cut application 20–30% with no yield penalty. Payback at $150/bbl under one year.
- SPEED LIMITS: Dropping highway speed from 110 to 90 km/h saves approximately 10% fuel across the long-haul fleet at zero capital cost.
- NO-TILL: Transitioning to no-till or minimum-till cuts diesel consumption in tillage operations by 30–50% immediately.

MAXIMUM RISK REDUCTION — Greatest Impact on Risk

- Cold-climate heat pump rollout at scale — replaces natural gas heating at 3–4× efficiency. Payback compresses from 10 to 4 years at $150/bbl.
- Electric grain dryers at key elevators — propane drying is the most likely first point of system failure and farm bankruptcy cascade.
- Remote community solar + battery microgrids — northern communities face 3–5× the shock severity; solar/battery permanently reduces this.
- Green ammonia plant (Brandon or Portage la Prairie) — ends Canada's dependence on natural-gas-based nitrogen imports permanently.
- MB Hydro grid expansion and electrification infrastructure — the structural prerequisite for all other electrification interventions.

90 URGENT ACTIONS — Complete Register

Timing codes: NOW = immediate. 30d = within 30 days. 60-90 = within 60–90 days. Jurisdiction codes: Federal, Provincial, Municipal, Fed+Prov, Fed+Prov+FN, Industry/Prov, Alberta Only, Prov+Muni, Fed Crown.

NOW — Immediate Actions

#	Action	Level	Federal Lead / Authority	Priority Provinces
1	Declare critical supply emergency	Federal	Public Safety Canada; Emergencies Act	All 13 jurisdictions
2	Suspend/reduce provincial fuel taxes	Provincial	Finance Canada (federal excise tax 10¢/L gas, 4¢/L diesel) — OIC or Budget Bill	ON, QC, BC, AB
3	Emergency price transparency — trucking	Provincial	Transport Canada; Competition Bureau	AB, SK, MB, ON
4	Accelerate utility efficiency rebate processing	Provincial	NRCan (Canada Greener Homes Grant)	NS, NB, NL, PEI
5	Expand Nutrition North subsidy	Federal	ISC / CIRNAC — Treasury Board approval	NU, NWT, YT, Northern ON, Northern QC
6	Maximise electricity exports on US interconnects	Provincial	NRCan (NEB/CER Act); FERC reciprocal	QC (largest), BC, MB, ON
7	Commission northern fuel reserve assessment	Fed+Prov+FN	ISC; CIRNAC; Public Safety Canada	NU, NWT, Northern ON, YT
8	Province-wide commercial building energy directive	Provincial	NRCan (National Building Code input)	ON, QC, BC, AB
9	Government building temperature guidelines (19°C/26°C)	Provincial	Treasury Board of Canada Secretariat	ON, QC, BC, AB
10	Activate industrial demand response / load-shifting	Provincial	NRCan; NERC (grid reliability standards)	AB (oil sands), ON (IESO), QC (aluminum)
11	Municipal thermostat setback — non-public-facing buildings	Municipal	No federal role — municipal admin	All major municipalities; ON, AB, SK, MB most impactful
12	Enforce 90 km/h speed limit for trucks on provincial highways	Provincial	Transport Canada; Motor Vehicle Safety Act	AB, SK, MB, ON (400-series)
13	Deploy freight route optimisation — backhaul elimination	Prov+Muni	Transport Canada; CTA	ON (Golden Horseshoe), BC (Metro Van), AB, MB (CentrePort)
14	Enforce municipal fleet anti-idling policy	Municipal	ECCC (idle-free — advisory only)	Toronto, Montréal, Vancouver, Calgary, Ottawa
15	Reinforce work-from-home across government; incentivise employers	Prov+Muni	Treasury Board; federal Telework Policy	ON, QC, BC, AB
16	Transit route consolidation under crisis protocols	Municipal	Transport Canada; Infrastructure Canada	TTC, STM, TransLink
17	Expand AESO and IESO industrial demand response	Federal	NRCan; CER (interprovincial coordination)	AB (oil sands), ON (IESO)
18	SAGD steam-to-oil ratio optimisation	Alberta Only	NRCan R&D support; ECCC emissions reporting	Alberta only
19	FCC emergency operating credit to farmers	Fed Crown	Farm Credit Canada; AAFC Minister — $8–12B backstop	AB, SK, MB, ON, QC

#	Action	Level	Federal Lead / Authority	Priority Provinces
20	Provincial ag finance emergency input loans	Provincial	AAFC cost-share under AgriSuite — SK $1.0B, AB $1.2B, ON $850M	SK, AB, ON (largest exposure)
21	AgriInvest account drawdowns without federal clawback	Federal	AAFC — Agricultural Marketing Programs Act	All Prairies and ON equally
22	Crop insurance premium deferral — 6 months	Fed+Prov	AAFC cost-share (60%/40%); national pool ~$865M	SK, AB, ON
23	Young Farmer Emergency Grant ($25,000, under 40)	Provincial	AAFC (possible federal cost-share via SCAP)	ON, AB, SK, QC
24	Canola forward contract hedging (Richardson/Viterra)	Industry/Prov	AAFC (facilitator); ICE Futures Canada	SK, AB, MB
25	Emergency bulk fertilizer purchase — anhydrous ammonia (~$1.3B)	Fed+Prov	AAFC; NRCan; Cabinet Treasury Board warrant	SK, AB, MB
26	Co-operative input purchasing groups — bulk fertilizer and fuel	Industry/Prov	AAFC (facilitator); federal Co-op Development Initiative	SK, AB, MB, ON, QC
27	Precision application incentive ($200/farm rebate, ~$19M at 50% uptake)	Provincial	AAFC — SCAP bilateral (federal cost-share)	ON (48K farms), AB (40K), SK (34K)
28	Nutrient management audits — over-application correction	Provincial	AAFC cost-share (SCAP); ECCC (water quality)	MB, ON, QC
29	Domestic potash priority allocation (Nutrien/Mosaic)	Federal	AAFC; NRCan; Cabinet; Competition Bureau	SK (producer); AB, MB (buyers)
30	Shift to minimum/no-till where not already practised	Industry/Prov	AAFC (SCAP bilateral); AgriScience Programme	SK, AB, PEI
31	Planting decisions — prioritise canola and legumes	Industry/Prov	AAFC extension; crop insurance incentive alignment	SK, AB, MB, ON, QC
32	Legume rotation bonus ($40/acre documented rotation)	Provincial	AAFC — SCAP bilateral (60/40 cost-share)	ON (soybean), SK (peas/lentils), AB, QC
33	Manure nutrient registry — connect livestock and crop producers	Provincial	AAFC (SCAP digital ag); ECCC (water quality)	QC (57.6% of national hogs), MB, ON, AB
34	Emergency diesel stockpile — ALL remote First Nations, 6-month min (~$238M)	Fed+Prov+FN	ISC capital funding; Treasury Board special warrant	NU, NWT, Northern ON (NAN 49 communities)
35	Pre-position 90-day food reserves at regional depots (~$169M)	Fed+Prov+FN	ISC; AAFC; CIRNAC	NU, NWT, Northern ON, NL Labrador
36	Pre-position bulk resupply on winter road corridors	Prov+FN	ISC (First Nations road funding); federal emergency procurement	ON (NAN), MB (18 winter roads), NWT
38	Canada: emergency fuel pre-positioning — NWT/Nunavut/Yukon	Federal	ISC; CIRNAC; Public Safety Canada; Emergencies Act	NU (highest), NWT, YT
39	Increase winter road infrastructure budget 40%	Prov+Fed	ISC (50/50 cost-share); Transport Canada	ON (NAN), MB
40	Emergency backup cold storage — regional distribution (~$38M)	Provincial	Health Canada; PHAC; federal Green Infrastructure	ON, QC, Territories
41	Increase vaccine stockpile at northern nursing stations to 90 days	Prov+Fed	PHAC; Health Canada; ISC (on-reserve nursing stations)	NU, NWT, Northern ON, Northern QC

30 Days — Actions Required Within One Month

#	Action	Level	Federal Lead / Authority	Priority Provinces
37	Evaluate and commission ice road extension technology	Prov+FN	NRC (technology validation); NRCan	MB (most constrained season), ON (NAN)
42	Strategic propane reserve release — elevator coordination (~$250M)	Prov+Fed	NRCan strategic petroleum reserve; Canadian Propane Association	SK (most critical), AB, MB
43	Emergency community garden expansion — 300+ sites ($5M)	Prov+Muni	AAFC; Infrastructure Canada; CMHC	Toronto, Montréal, Vancouver, Winnipeg
44	Seed library network at all library branches	Municipal	No federal role — municipal library service	Toronto, Montréal, Vancouver, Calgary, Ottawa
45	Indigenous community garden support ($3M)	Fed+Prov+FN	ISC; AAFC; CIRNAC	Winnipeg, Saskatoon, Edmonton, Prince Albert, Thunder Bay
46	School garden emergency grants ($5,000/school K-12, ~$70M national)	Prov+Muni	AAFC Cafeteria to Classroom; Health Canada healthy eating	ON (4,800 schools), QC, BC
47	Canola biodiesel diversion agreements with Prairie crushers	Federal	AAFC; NRCan Renewable Fuels Regulations	SK, AB, MB (99.2% of national canola production)
48	STARS air ambulance fuel cost subsidy	Provincial	Provincial health responsibility only (Canada Health Act)	ON (Ornge), AB/SK/MB (STARS — coordinated contract)
49	Increase strategic medical supply inventory to 90 days (~$936M)	Provincial	Health Canada standards; PHAC PPE reserve	ON, QC (largest), Territories
50	Emergency energy audit — all health authority facilities	Provincial	NRCan Industrial Energy Management; PSPC	AB (AHS), QC (CISSS/CIUSSS), ON
51	Expand telemedicine infrastructure for rural areas	Prov+Fed	Health Canada; ISED (rural broadband); CRTC	Northern ON, QC, MB, SK, Territories
52	Establish 180-day essential medicines stockpile (~$2.3B)	Prov+Fed	PHAC (NESS coordination); Health Canada	ON (38% national drug expenditure), QC (22%)
53	Map API origin of top 50 dispensed medications	Prov+Fed	Health Canada (Drug Shortages Canada database); PHAC	ON, QC (60% of national supply)
54	Advance purchase agreements — Apotex and Teva Canada	Prov+Fed	Health Canada; PHAC; Competition Bureau	ON, QC (Apotex and Teva HQ)
55	Activate federal emergency drug supply protocol	Federal	Health Canada; PHAC; Emergencies Act / Food and Drugs Act	National — ON/QC as manufacturing hubs
56	Audit cold chain resilience — biologics and vaccines	Prov+Fed	PHAC (vaccine cold chain standards); Health Canada; ISC	NU, NWT, Northern ON, QC Nunavik
57	Emergency shortline rail preservation fund ($30–50M, ~$68M national)	Prov+Fed	Transport Canada (National Trade Corridors Fund)	SK (most shortline-dependent), MB, AB
58	24-month moratorium on shortline rail abandonment applications	Federal	Transport Canada; CTA (Canada Transportation Act)	SK, AB, MB, NL
59	Freeze grain car allocation — shortline-served elevators	Federal	Canadian Grain Commission (Canada Grain Act)	SK, AB, MB
60	Activate intermodal modal shift — top-20 shippers per province	Prov+Muni	Transport Canada; CTA; Canada Ports Corporation	BC (Port of Vancouver), ON (Golden Horseshoe), MB (CentrePort)

#	Action	Level	Federal Lead / Authority	Priority Provinces
61	Increase recycled asphalt pavement (RAP) to 55% in 2026 road contracts	Municipal	No federal role (municipal specification); NRCan (technical guidance)	Toronto, Montréal, Calgary, Edmonton
62	Pre-approve fuel poverty assistance — streamline energy supplement	Prov+Muni	Health Canada; CMHC; federal Poverty Reduction Strategy	NS, NB, ON (267K homes), QC (465K homes)
63	Identify most vulnerable households for proactive heat pump outreach	Prov+Muni	NRCan (CEUD data); CMHC; Statistics Canada	QC (465K), ON (267K), NS, NB
64	Establish community warming centre contingency plans	Municipal	Public Safety Canada (EMAP); Red Cross Canada	Winnipeg, Regina, Saskatoon, Edmonton (coldest + highest energy poverty)
65	Negotiate emergency air freight rate caps with regional airlines (~$122M guarantee)	Fed+Prov+FN	Transport Canada; ISC; provincial co-funding	Northern ON (49 NAN communities), NU
66	Propane/heating oil emergency subsidy — First Nations households (~$142M)	Fed+Prov+FN	ISC; CIRNAC; NRCan OHPA delivery mechanism	NU, Northern ON, QC Nunavik

60–90 Days — Actions Required Within Three Months

#	Action	Level	Federal Lead / Authority	Priority Provinces
67	Adjust harvest timing and aeration — reduce propane drying	Industry/Prov	AAFC Prairie Crop Monitoring; Regional Advisory Committees	SK, AB (grain drying), ON, QC (corn drying)
68	Fast-track solar + battery for remote communities 30–50 kW (~$340M)	Fed+Prov+FN	NRCan SREP; ISC; Infrastructure Canada	NU (highest impact per kW), Northern ON, NWT
69	Biomass heating feasibility studies — boreal First Nations	Fed+Prov+FN	NRCan CERRC programme; NRCan Biomass Energy Technology	Northern QC, Northern MB/SK/ON, BC
70	Utility efficiency programme emergency expansion — heat pump focus (~$910M)	Provincial	NRCan OHPA; Canada Greener Homes; CMHC Loan	QC (465K), Atlantic (25% households on oil), ON
71	Mandatory energy audits — all buildings over 50,000 sq ft	Provincial	NRCan Industrial Energy Management; ENERGY STAR Canada	ON (EWRB exists), QC, BC, AB
72	Industrial energy audit deployment — top 30 per province	Federal	NRCan Industrial Energy Management (IEM) — federal auditors	QC (aluminum), AB (oil sands), ON (auto+steel)
73	Weatherisation emergency fund for rental housing (~$627M)	Prov+Fed	CMHC (Rapid Housing, Affordable Housing Fund); Housing Canada	ON (largest rental stock), QC, BC, Territories
74	Commercial eco-driving training — 2,000 per province target	Industry/Prov	Transport Canada SmartDriver Commercial; NRCan fuel efficiency	ON (35%+ of national truck registrations), QC, BC, AB
75	Truck aerodynamic retrofit grants ($2,500/trailer, ~$307M for ~120K trailers)	Prov+Fed	Transport Canada; NRCan fuel efficiency standards	ON (largest trailer fleet), AB, BC, QC
76	Precision fertilizer adoption programme — Prairie agrologists	Federal	AAFC SCAP bilateral; Fertilizer Canada; IPNI	SK, AB (largest acreage), ON, QC
77	Atlantic Canada emergency heat pump surge — 20,000+ homes (~$80M subsidy)	Federal	NRCan OHPA; Canada Greener Homes; CMHC Loan	NS (300K homes on oil), NL, NB

#	Action	Level	Federal Lead / Authority	Priority Provinces
78	Expedited interconnection for Alberta wind and solar projects	Federal	AESO interconnection queue; AUC facility approvals; NRCan Clean Electricity	AB (20+ GW pipeline), SK (coal replacement), NB
79	Accelerate TMX utilisation and open Asian buyer negotiations	Federal	Trans Mountain Corporation (Crown); Global Affairs; NRCan; EDC	AB (direct revenue), BC (Westridge terminal), all (CAD strengthening)
80	Complete 15,000+ fossil fuel heat pump conversions nationally	Prov+Fed	NRCan OHPA + Greener Homes; CMHC Loan	QC (largest pool), NS, NB, NL, ON
81	LED + building automation upgrades in health and public buildings	Prov+Fed	NRCan Green Building; Canada Public Buildings Retrofit	ON (largest inventory), QC (oldest stock), AB (AHS scale)
82	Heat pump conversions — arenas and aquatic centres	Municipal	NRCan Commercial Heat Pump; Infrastructure Canada GICB	Winnipeg, Calgary, Edmonton, Montréal, Toronto
83	Electric grain dryer rollout at key elevators (~$75M nationally)	Prov+Fed	AAFC AgriRecovery; NRCan industrial electrification	SK ($28M), AB ($22M), MB — commission before September harvest
84	Strategic propane reserve fully installed at elevators pre-harvest (~$68M)	Prov+Fed	NRCan strategic petroleum reserve; AAFC AgriRecovery	SK ($25M, most critical), AB ($18M) — before harvest season
85	Input cost indexing in crop insurance — Agri-Stability triggers	Prov+Fed	AAFC Agri-Stability BRM (60/40 cost-share); Canada Grains Council	SK (largest crop insurance), AB, ON
86	Staff housing established or committed at rural hospitals	Provincial	CMHC (Rapid Housing Initiative; healthcare worker housing); Infrastructure Canada	SK (highest vacancy), Northern ON, AB (AHS rural)
87	Rural hospital staff commuting reduction (30–80 km exposure)	Provincial	Health Canada (rural health workforce); CIHR; Canada Health Transfer	AB, SK, MB, Northern ON
88	Community warming centres confirmed — all major centres	Municipal	Public Safety Canada EMAP; Red Cross; United Way	Winnipeg, Regina, Saskatoon, Edmonton, Thunder Bay, Val-d'Or
89	Contingency plan public before heating season — vulnerable residents	Prov+Muni	Public Safety Canada; Health Canada; 211 Canada	All jurisdictions; most urgent: QC (large elderly population), NS/NB
90	Pickering and Bruce Power nuclear licence extension applications	Federal	CNSC — independent regulator; Nuclear Safety and Control Act. File NOW for 12–18 month review.	Ontario exclusively for operating reactors; NB (Point Lepreau future)

Source: Section 4.3 of Outrunning the Storm. All 90 actions. Detailed cost breakdowns in Appendices of the source document.