



PTAC 101

February 2026



PTAC

PETROLEUM
TECHNOLOGY
ALLIANCE
CANADA



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CONTENT

- Who We Are
- History, Focus Areas & Impact
- ✓ Collaborations
 - TERE
- ✓ Programs Manager
 - AUPRF | CanERIC | Digital Transformation | STV
- ✓ SME Support
 - NRC IRAP | Testimonials | International Collaborations
- ✓ Events
 - PTAC Methane Leadership Summit | Other Events
- PTAC's Future – Looking Ahead
- Members & Ecosystem Partners
- ***Call To Action*** – Join the PTAC Community



PTAC – Who We Are

PTAC Petroleum Technology Alliance Canada is a 29-year-old, neutral, non-profit, industry-led innovation hub for Canada’s oil and gas industry, facilitating and advancing value-added research, technology development and deployment.



Facilitator of Collaboration



Programs Manager



SMEs Support for Commercialization



Events

+1,000 Projects and Initiatives

launched and facilitated to date with **+65 in 2024-25** across PTAC’s coordinated networks

+170 Members

Oil & Gas Producers | Midstream & Transport | Service & Supply Companies | Government Agencies & more.

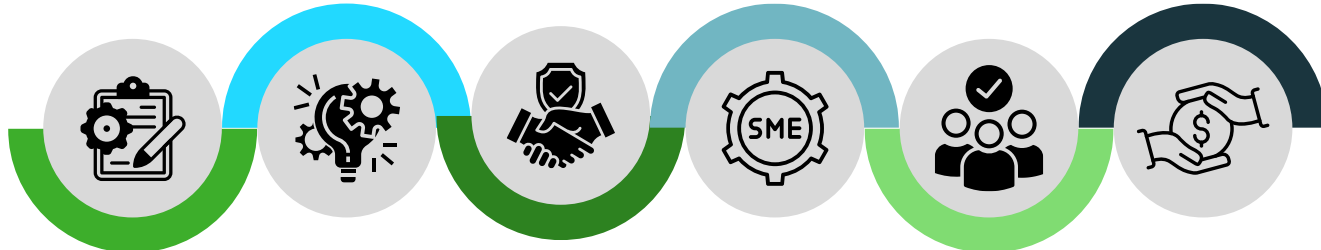
+1,000 Attendees

engaged in **2024-25** across PTAC summits, forums, and sessions convening to influence in shaping the sector



PTAC METHANE LEADERSHIP SUMMIT 2026

DIF DIGITAL INNOVATION FORUM 2026



+6 Scale-Up Projects

in 2024-25 advancing from pilot to market-readiness

32 SME Innovations

supported in 2024-25 by commercialization and scale-up efforts

\$20+ million in cash and in-kind funding in 2024-25

PTAC ENERGY TABLE SPEAKER SERIES

& more.

2024-25 PTAC Annual Report



PTAC History

1994 - 97

Need for Collaboration

Senior oil and gas executives commission the Todd Report and establish the need for a new technology model. A steering committee of 15 members transforms into **PTAC**.

2006

AUPRF

Officially launched as the industry-led program for managing environmental research and technology development – managed by PTAC.

2008

Methane

Began targeted methane-emissions initiatives related to measurement and mitigation efforts. Inaugural Methane Leadership Summit in 2018.

2018

Digital

Digital Innovation Network and Digital Innovation Forum began.

2026 - 27

PTAC's Focus

Economic & Environmental **Competitiveness**
↓ Cost ↑ Production
↓ Regulatory burden
↑ Utilities & economic corridors, LNG, data centers, and decarbonization.



TEREE Committee

Technology for Emissions Reduction and Eco-Efficiency quarterly meetings launched.

2004

SME Innovation

Kick off NRC-IRAP program to assist small medium enterprise (SME) technology companies.

2007

CanEric

A pan-Canadian network of test facilities to validate and accelerate methane-reduction technologies – managed by PTAC.

2017

PRESENT

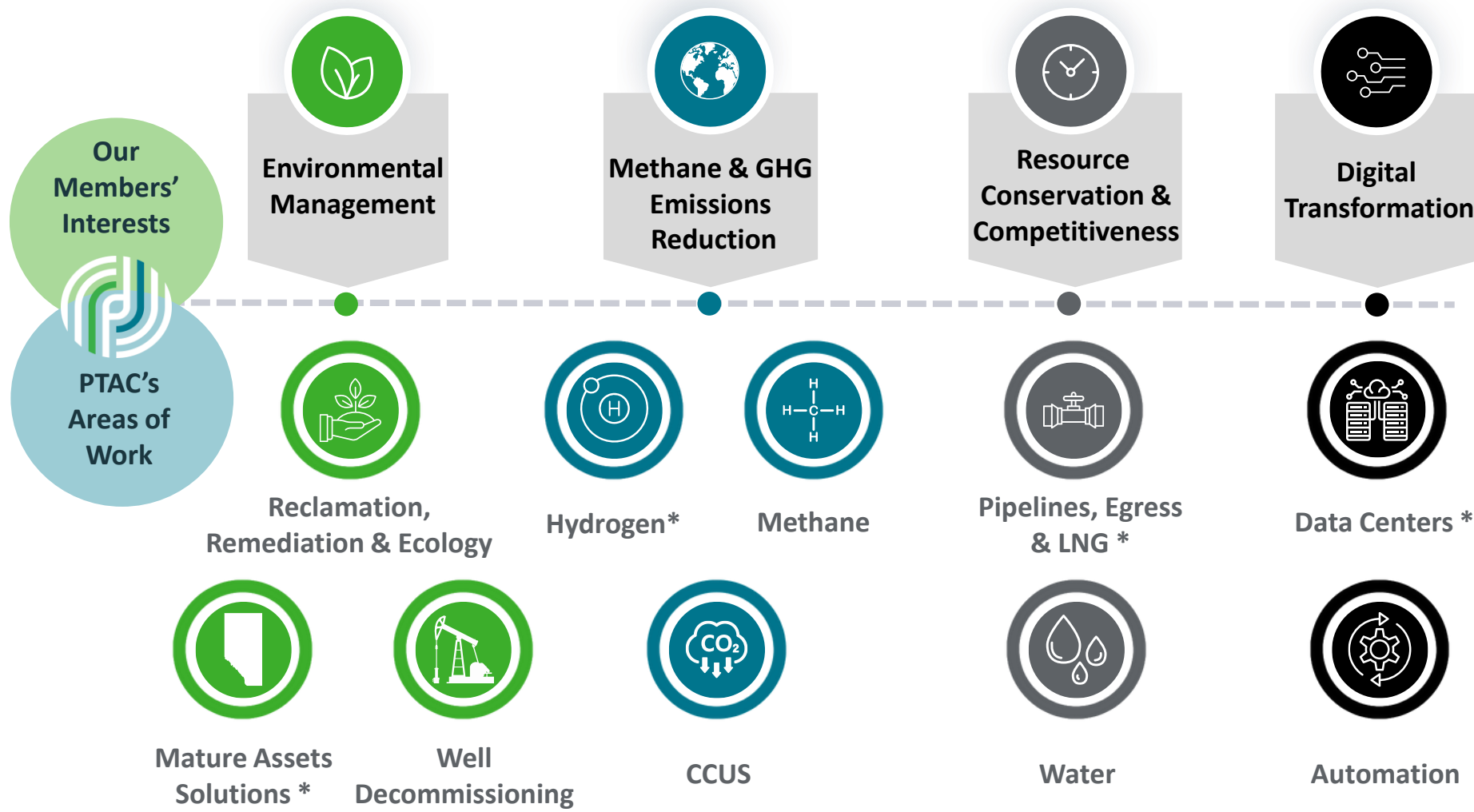
- 200+ members
- 1,000+ projects launched
- 600+ events

2025

Since 1996, PTAC has continually fostered a **collaborative innovation ecosystem** for a stronger, sustainable and more competitive **Canadian energy future**.



PTAC – Our Technology Focus Areas



PTAC Adapts Relentlessly — Aligning Focus Areas with emerging opportunities and needs in the oil & gas industry.

* Added Areas of Work in response to our Members' Interests



\$165+ Million Invested
in SME Projects from 2013 to 2024



Tens of Millions in Annual Cost Savings¹
for the Oil and Natural Gas Industry From an
Investment of \$36 Million Over 15 Years



~14 Policy & Regulatory Decisions
informed by PTAC-led Technical Recommendations
and Science-based Evidence



52% Reduction in Methane Emissions²
reported by the Government of Alberta, to which
PTAC projects have contributed.



89+ Technologies Deployed
in Methane Detection and Mitigation to Date



\$26+ Million in Value
through Seven Digital Transformation Projects

**PTAC Member Network
Fuels Real Collaboration**

PTAC breaks down silos – driving **collective progress, not isolated efforts. Reduces duplication and co-invests** in solutions that benefit the entire energy sector.

¹ Cost savings based on producer-provided estimates of reduced regulatory compliance costs

² Source: AER. <https://www.aer.ca/protecting-what-matters/holding-industry-accountable/industry-performance/methane-performance>

Quarterly sessions with Producers, Regulators, Tech Developers | **PTAC Member-exclusive Forum** | Coordination of **collaborative field trials** and **independent evaluations** | Connecting Innovators with real-world operational needs.

In 2024–25, TEREЕ advanced critical discussions on:

1. Methane emissions detection, quantification and reduction
2. Solution Gas Flaring
3. Regulatory Barriers
4. Catalytic Oxidation
5. Navigating Alberta’s Evolving Carbon Landscape: Policies, Costs, and Opportunities

Outcomes

Data-driven guidance for technology adoption and field deployment.

Insights that de-risk technology adoption, support regulatory alignment, and ensure solutions are technically and economically viable for the oil and gas sector.



PTAC’s credible **governance** and **structure** in place for consultations, collaborations, and funds administration can be leveraged for other areas of interest.



Research

Alberta Upstream Petroleum Research Fund (AUPRF)



Program Manager

Alberta Upstream Petroleum Research Fund (AUPRF), launched in 2006, is an industry-funded program that advances research and clean tech in:

- **Air** – focus on Methane & GHG emissions reduction
- **Water** – focus on water management planning and transportation
- **Ecology** – focus on species at risk
- **Remediation & Reclamation** – focus on salts & metals and revegetation
- **Well Decommissioning** – focus on vent flows and gas migration

PTAC serves as Alberta’s oil and gas research arm and **third-party project manager**, facilitating collaborative, industry-led innovation. **Supported by CAPP and EPAC**, PTAC manages AUPRF funds to deliver **practical, cost-effective solutions** to environmental and operational challenges.



300+ Producers Fund
Applied Research & Tech Development



Average Collection Rate
of 60% Over the Past Three Years



50 to 60 Projects Ongoing
In a Given Year

“AUPRF is where innovation meets practicality. By pooling resources, producers are advancing technologies and developing best practices that help reduce costs, improve operational efficiency, and inform regulatory and policy development to accelerate technology adoption.”

– James Agate, Canadian Natural | Chair, AUPRF Oversight Committee

Funding Leverage Ratio **4:1**



Technology Development

Canadian Emission Reduction Innovation Consortium (**CanERIC**)



Program Manager

PURPOSE

To de-risk methane emissions detection and reduction technologies through field trials

CanERIC 1.0

Addressing real-life technology issues related to costs, installation, and maintenance

3 years, 31 subprojects, 53 sites from 27 participants

CanERIC 2024

Focusing on tanks and lower cost pneumatics solutions

One-year installment, 5 producers, 7 technologies, deployed at 22 sites

Project Spotlight



Through CanERIC 2.0, **Veren** and **Ovintiv** piloted Kathairos' zero-emission pneumatic system – *replacing methane-venting devices with liquid nitrogen-based alternatives at four remote sites.*

OUTCOMES AND LEARNINGS

- Acceleration of technology adoption by producers
- Helping vendors make improvements to better meet end-users' needs

Committee Participants



Funding Leverage Ratio **2:1**



PURPOSE

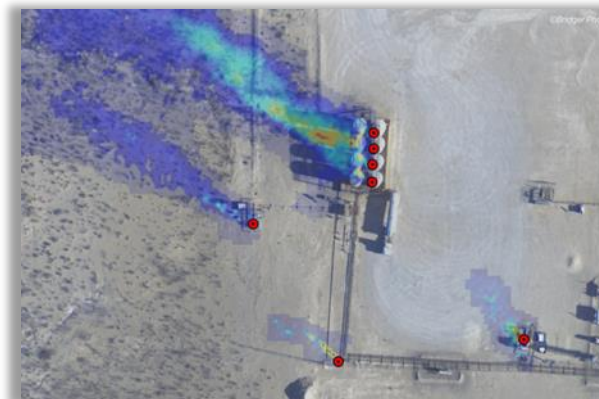
Deliver value to industry through use cases that increase economic and environmental competitiveness.



Top: Augmented Reality
Right: Methane Detection from Aircraft

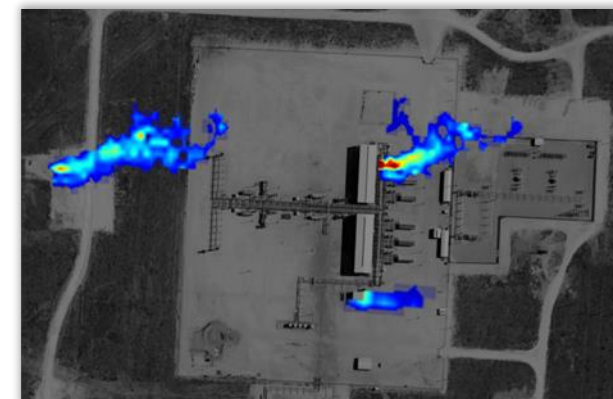
EXAMPLE USE CASES

- Increased efficiency
- Reduced costs
- Increased production and recovery
- Faster time to value
- Enhanced safety
- Reduced GHG emissions and environmental impact
- Monetization of environmental attributes.



EXAMPLE PROJECTS

- Emissions Intelligence Platform
- Automated Wildfire Monitoring - AI-Enabled Drone Surveillance
- Predictive Emissions Monitoring System
- Reduction Pathways
- System for Timely Regulatory and Environmental Approvals.





Commercial Implementation

SYSTEMATIC THIRD-PARTY VALIDATION (STV)



Program
Manager

PURPOSE

To deploy methane emissions reduction technologies at wellsites

- Technologies: chemical pumps, instrument air, site electrification, remote power, and enclosed combustors
- 15 Technology vendors
- 24 different Equipment models
- 43 wellsite Installations

OUTCOMES AND LEARNINGS

- Greater deployment of methane emissions reduction technologies by producers
- Contributed to the ~52% methane emissions reduction achieved by industry as of 2023



LCO Instrument Air Compressor



LCO Crossfire Chemical Pump

To learn more → Download PTAC's Third-party Validation of Environmental and Economic Performance of Methane Reduction Technologies: [Clean Resources Final Public Report](#)



Technology Innovation

National Research Council – Industrial Research Assistance Program **(NRC IRAP)**



SMEs Support for Commercialization

Three Phased Assistance

1. Product–Market Fit Engagement (PMF)

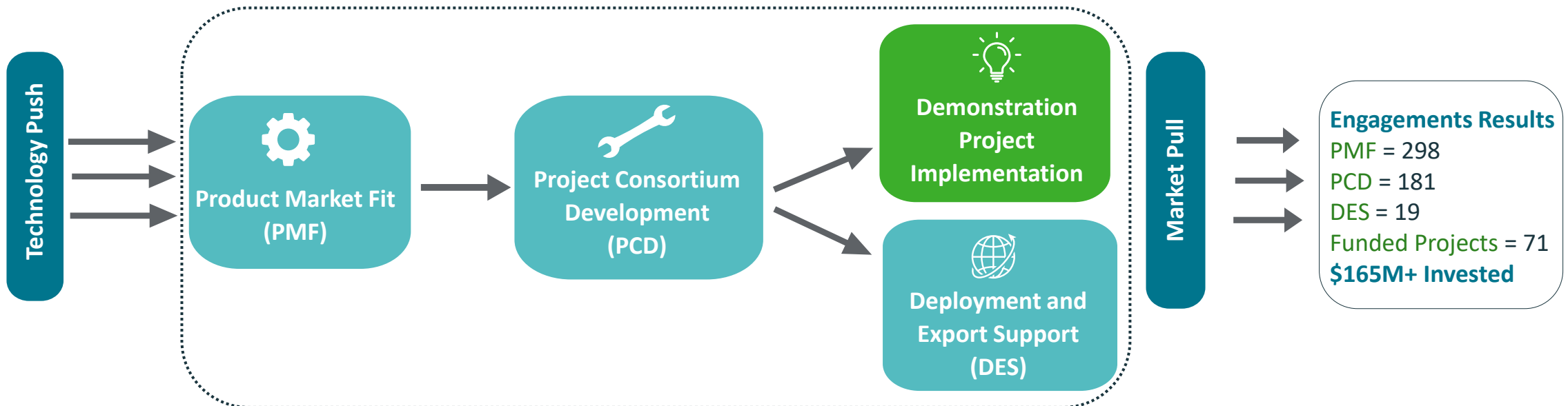
- Equip SMEs with crucial insights into technology gaps, market needs and competitive landscape

2. Project Consortium Development (PCD)

- Advise SME on developing a demonstration project and securing funding

3. Deployment and Export Support (DES)

- Advise clients on deploying products and services in domestic and international markets, helping them unlock growth potential and connect with venture capital funding





Technology Innovation

Small Medium Enterprise Support



SMEs Support for Commercialization

“PTAC’s field demonstrations and showcase opportunities fostered Qube’s continuous monitoring technology to scale globally and enter new markets.”

- **Alex MacGregor, CEO – Qube Technologies**

“PTAC continues to support collaborative action within the Canadian energy landscape and CarbonAi is pleased to contribute to PTAC’s export of knowledge and smart practices to the international energy community.”

- **Kelly Parker, Director, GHG Projects - CarbonAI**

“PTAC has played a valuable role in connecting Kuva with key stakeholders and platforms that helped us further market access and visibility for our advanced commercialized emissions monitoring technology”.

- **Monica Sippola, Director of Business Development – Kuva Systems**

“We’re proud of our continued membership with PTAC, a valued collaboration that enables GHGSat to share methane insights with oil and gas operators in Canada, supporting energy security goals and increased profitability — all while driving impact: methane detection and reduction on a global scale.”

- **GHGSat Team**

“Deploying Kathairos through CanERIC 2.0 in collaboration with PTAC was a win for Ovintiv. Swapping out methane-venting pneumatics for nitrogen-based systems at our remote sites helped us reduce emissions. It’s a great example of how real-world pilots like this build confidence in practical, scalable solutions to continue reducing methane emissions.”

- **Mitch Dow, Senior Facilities Engineer – Ovintiv**

“At Highwood, we’ve built the tools operators need to produce defensible, measurement-informed methane inventories. PTAC’s support accelerated our ability to validate the platform with real users, scale deployment, and position Canadian innovation at the forefront of global methane management.”

- **Jessica Shumlich, CEO – Highwood Emissions Management**





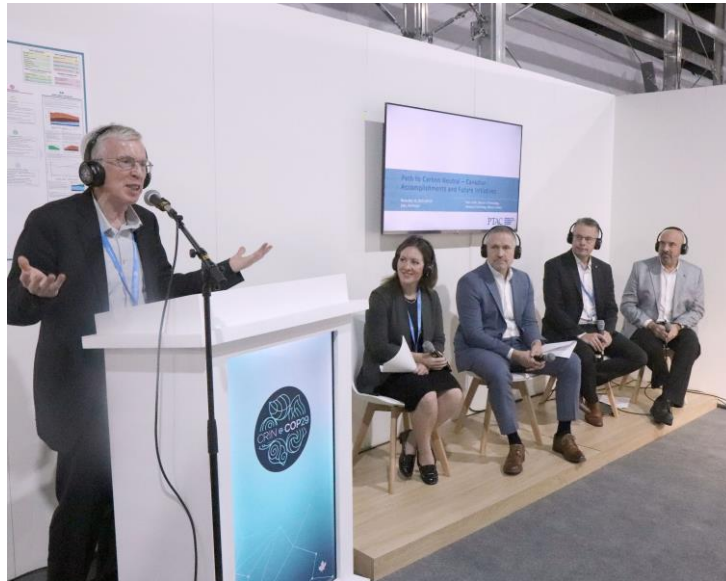
International Collaborations

Telling the Canadian Clean Technology Story



SMEs Support for Commercialization

- PTAC collaborates with **Trade Commissioners** and participates in global forums like **COP**, **CERAWeek**, and other key conferences to promote Canadian technologies and showcase Canada’s clean tech leadership on the international stage
- PTAC contributed to the creation of **Canadian Capabilities in Clean Technologies** – a Guide and Company Directory for the Oil & Gas Sector



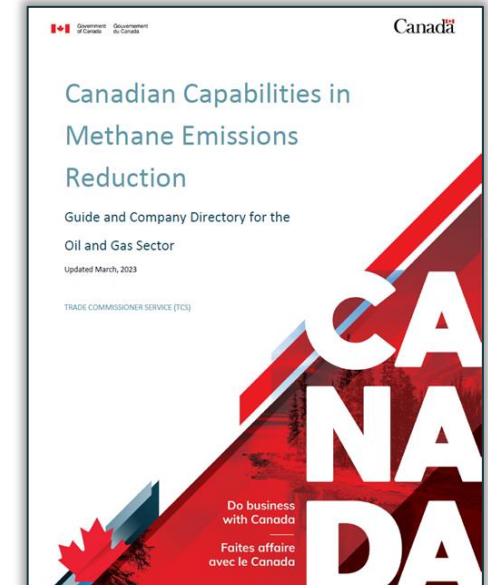
PTAC hosted a panel discussion with industry leaders in the **CRIN pavilion at COP29**, focused on The Path to Carbon Neutral – Canadian Accomplishments and Future Initiatives.



At **CERAWeek 2025**, PTAC participated in the Canada Methane Centre of Excellence Workshop, hosted by **NRCAN and ISED**, focusing on Canada-U.S. methane measurement and mitigation partnerships.



PTAC President and CEO Lauren Savoie and board member Nannette Ho-Covernton met with **Alberta Premier Danielle Smith** to discuss Canada’s energy industry at the TC Energy Reception during CERAWeek 2025.



PTAC contributed to Guide and Company Directory for the Oil & Gas Sector. **Scan the QR code to access the report**



Canada's Premier Methane Reduction Event

Since 2018, the **PTAC's Methane Leadership Summit (PTAC-MLS)** has become Canada's premier event for methane emissions reduction, drawing 300+ leaders annually from industry, government, and cleantech.

More than just a conference, **PTAC-MLS** is a launchpad for action – where policy meets practice, innovation meets industry, and ideas turn into real-world impact.

Why Attend:

- Leading insights on methane tech, policy, and strategy
- Cross-sector collaboration driving real-world deployment
- High-level networking with decision-makers shaping Canada's emissions future

PTAC's 2024 and 2025 summits—including a 2025 sellout two weeks early—reflect the sector's growing momentum toward performance and innovation:

-  **350+** **Delegates** from Across Canada, the USA and Globally
-  **28+** **Oil & Gas Producers** Represented 20% of Attendees
-  **30+** **Exhibitors** Including Tech Developers and Industry Associations
-  **11** **Panel Sessions** With a Diverse and Knowledgeable Mix of Stakeholders
-  **7+** **Hours of Impactful Networking** Opportunities Over 2 Powerful Days





Other Events



Events

PTAC Technology Information Sessions (TIS)

- **Exclusive quarterly panels** to showcase technologies and connect directly with the PTAC Community
- Members gain access quarterly

PTAC ENERGY TABLE SPEAKER SERIES

- A **recurring speaker series** for strategic discussions on innovation, collaboration, and competitiveness
- Future-focused industry forums

DIF DIGITAL INNOVATION FORUM 2026

- **Yearly cross-sector conference** showcasing emerging digital technologies
- Supports growth and carbon reduction by bringing together industry leaders and innovators

Other PTAC Events

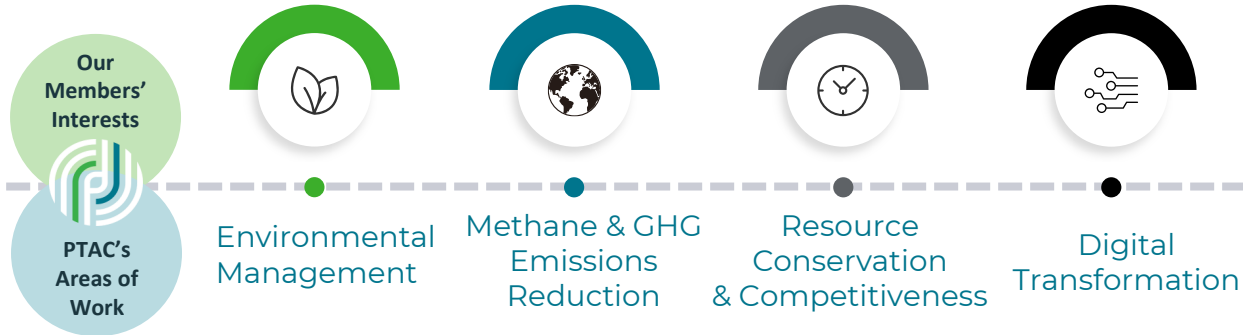
- PTAC delivers targeted, **high-value events:**
- **SME pitch** session
 - **Stampede** gatherings
 - **AGM** award ceremonies
 - & more!

Designed to support Members where they need it most!



Looking Ahead

PTAC Upcoming Opportunities



- **Methane** → Following industry and government direction & Continue being CRIN's Methane Theme Leader
- **Pipelines, Egress & LNG** → Expanding capacity through tech solutions
- **Resource Conservation** → Production increase & cost competitiveness
- **Digital Transformation** → Increase economic and environmental competitiveness
- **Mature Asset Strategy** → Risk-based approach to closure
- **Decarbonization** → Hydrogen, CCUS, & more



PTAC receiving the 2024 Technology and Innovation Leadership Award at the Alberta Chamber of Resources 2025 AGM & Awards Banquet

Collaborate with PTAC to unlock opportunities to influence research direction and pilot technologies relevant to your strategic priorities.



PTAC Members & Ecosystem Partners

Oil & Gas Producers & Midstream Companies

Government Collaborators, Regulators & Associations

Technology & Service Providers



Plus, over 100 more PTAC members!



PTAC

Call to Action

1. Get Involved

- Explore existing & future PTAC programs and how they can support your priorities
- Join PTAC & AUPRF programs and help shape future research and technology development

2. Influence

- Support PTAC to unify technology efforts and join the conversation on relevant topics including Mature Asset Strategy, Industry Recommended Practice reviews, and other Industry Consultations

Together, we can ensure industry leads the path forward through collaboration, innovation, and shared purpose.

PTAC Members Are Crucial to Shaping
Canada's Energy Sector.

Join the PTAC Community.



Need More Information?



Marianna Trujillo

Program Manager

mtrujillo@ptac.org