



# NGIF Emissions Testing Centre Program

PERFORMANCE REPORT 2024–2025

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# Acknowledgement

NGIF Accelerator (NGIF) extends its deepest appreciation to the Government of Alberta (GoA) for its ongoing commitment and support. This continued partnership is crucial to sustaining and expanding the NGIF Emissions Testing Centre (ETC) Program in the years to come.

NGIF extends its sincere appreciation to its past funder, Prairies Economic Development Canada (PrairiesCan), and its 2024 funders, Alberta Innovates and the Government of Alberta, for their continued commitment to advancing innovation in Canada's natural gas sector. Their contributions and support have been instrumental in driving the NGIF ETC Program, enabling the advancement of innovative clean technologies in the natural gas sector. These technologies are focused on the detection, quantification, and reduction of methane emissions.

Further, we recognize and thank our program partners, including the University of Calgary (UCalgary) and Tourmaline Oil Corp. (Tourmaline), for providing laboratory and live-site testing facilities, resources, and facilitating project validation and testing of methane measurement and mitigation technologies. We additionally extend our appreciation to Rubellite Energy for its collaboration at the West Wolf Lake facility, co-owned with Tourmaline, which enabled critical field testing opportunities.

Finally, we extend our gratitude to our Program users whose innovative solutions are measuring, monitoring, and reducing methane emissions. We also thank the many individuals who provided technical, financial, or general support and who participated in meetings, webinars, and stakeholder discussions throughout 2024–2025. This report is produced by NGIF Accelerator and presents outcomes and insights from its program and the broader methane innovation ecosystem.

# Message from the CEO

I am pleased to share the NGIF ETC Program 2024–2025 Performance Report, highlighting a key milestone in accelerating methane solutions to market. Over the past year, the program has expanded from prototype testing and validation—conducted both in University of Calgary laboratories and real-world sites provided by Tourmaline—to a broader focus on commercialization. This ensures technologies refined through operator collaboration are now ready for market adoption, visibility among industry stakeholders, and connection with the broader energy ecosystem.

Supported by Alberta Environment and Protected Areas (AEP) and Alberta Innovates, the program integrates rigorous technical validation with NGIF Accelerator’s commercialization framework. This dual approach de-risks technologies, accelerates adoption, and positions innovators to deliver measurable methane reductions at scale, reinforcing Alberta’s leadership and aligning with the Government of Alberta’s vision.

In 2024–2025, the program supported a diverse portfolio of startups and early-stage companies through field trials, lab assessments, and commercialization pathways. Results and reports are available on our dedicated website. Through platform enhancements, a redesigned website, and the *TechTalk* webinar series, we strengthened outreach and collaboration across the ecosystem.

Looking ahead, NGIF ETC will continue to accelerate market readiness of methane management technologies through technical rigour, deployment support, and ecosystem engagement, positioning Alberta as a leader in clean technology innovation and emissions reduction.

## **John Adams**

President and CEO,  
NGIF Accelerator

# NGIF ETC Program | Executive Summary

## PROGRAM HIGHLIGHTS AND STRATEGIC DIRECTION

The NGIF ETC Program entered a new phase in 2024, building on strong 2023 results. Joint funding from NRCan and PrairiesCan enabled emissions testing for approximately 75 projects and supported 50 SMEs, demonstrating the program’s value and impact.

Building on this momentum, the NGIF ETC Program completed its initial funding phase in 2024 and secured new support from Alberta Innovates (\$750K) and Alberta Environment and Protected Areas (\$15MM). This funding positions the program for its next phase of growth, with a more focused approach to emissions testing and the addition of commercialization support from NGIF Accelerator—further reinforcing the program’s role as a catalyst for methane innovation.

To date, the program has supported more than 100 methane technologies spanning detection, monitoring, quantification, and mitigation, helping bridge the gap between development and industry adoption.

As lab and field testing continues, the UCalgary lab has expanded its support capabilities by adding simulation and modelling services. At the

same time, NGIF Accelerator is advancing the program into its next phase with a stronger focus on commercialization and real-world impact. This means advancing Canadian cleantech solutions with global potential, attracting international innovators, forging stronger connections between innovators and operators, and creating clearer, more accessible pathways to commercialization.

The next phase will focus on four strategic pillars:

- Technology Landscape
- Commercialization and Adoption Playbook
- Technology Adoption Platform
- Technology Exposition

Complementing these efforts, the TechTalk Sessions will continue to foster collaboration, address adoption barriers, and support Alberta’s energy performance goals - collectively positioning Alberta and Canada as leaders in methane measurement and mitigation.



# Program Impact

# Results and Performance Metric

## PRAIRIES ECONOMIC DEVELOPMENT CANADA (PRAIRIESCAN) FUNDING

In 2023, the NGIF ETC Program, through the Canadian Gas Association (CGA), entered into a Contribution Agreement with Prairies Economic Development Canada (PrairiesCan), under the Jobs and Growth Fund. This partnership was designed to accelerate the development and validation of methane emissions monitoring and reduction technologies by supporting small and medium-sized enterprises (SMEs) across Western Canada.

Through PrairiesCan's contribution of nearly \$2MM, the NGIF ETC Program was empowered to expand its technical and business support for innovators, enabling field testing in real-world operating environments. The funding covered essential program management, contractor services, and travel, directly fueling the NGIF ETC Program's mission to foster

collaboration and commercialization.

Over the life of the contract, the NGIF ETC Program engaged with 50 companies and conducted 75 technology tests, driving measurable impact in methane mitigation.

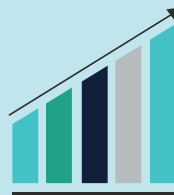
By March 2025, the NGIF ETC Program had surpassed its key performance indicators, achieving higher-than-expected revenue growth, export sales, and job creation, while strengthening technology adoption. The successful completion of this initiative positions the NGIF ETC Program as a national leader in emissions innovation, advancing Canada's environmental stewardship and economic growth in the natural gas sector.

Unique Tests Performed



75

Predicted Revenue Growth



90M+

Number of Technology Providers Assisted



50

Number of Jobs Maintained



150+

Export Sales Growth



50M+

Number of HQP and non-HQP Jobs Created. (SMEs - 2023-2025)



125+



150+

# Results and Performance Metric

## ALBERTA INNOVATES FUNDING

In March 2024, NGIF Accelerator and Alberta Innovates entered into an Investment Agreement under the Clean Resources Continuous Intake Program, providing \$750,000 in funding to the NGIF ETC Program.

The program focused on four key areas: methane detection and quantification, methane mitigation, methane slip, and commercialization readiness. Technologies underwent rigorous validation, with performance results and insights shared publicly to support the broader industry advancement.

Alberta Innovates' support enabled the NGIF ETC Program to deliver actionable data to technology providers and operators, facilitating the testing of five technologies in both controlled lab and operational field environments. Unique assets—including the West Wolf Lake Gas Plant, Controlled Release East Edson Wellsite, and a mobile Continuous

Emissions Monitoring System—provided a globally unique platform for technology validation.

The partnership exceeded performance metrics, advancing multiple innovations, publishing peer-reviewed results, and engaging a broad network of collaborators. Knowledge mobilization efforts included conference presentations, technical webinars, and publication of the field trial results, reinforcing Alberta's leadership in methane emissions management.

Alberta Innovates' contribution was instrumental in de-risking new technologies, accelerating market adoption, and positioning Alberta's natural gas sector at the forefront of environmental stewardship and innovation.

Unique Products/Processes Validated



Technology Providers Participated



Peer Review Study Submission



Collaborators



Students Trained



Field Technology Demonstration



# About the NGIF ETC Program

# NGIF ETC Program | The Consortium

The NGIF ETC Program involves collaboration between industry, academia, and government. It involves public support to ensure cleantech companies have a dedicated space to develop, test, and field-validate technologies to measure, monitor, and reduce methane emissions and to fast-track methane technologies to market through knowledge dissemination and fostering market adoption. The program is unique in that it provides cleantech companies with free access to testing and commercialization support for rapid scale-up of technologies from concept to commercial-ready deployment. The program’s lab at the University of Calgary provides capabilities to test and de-risk technologies in a controlled environment, complemented by live field trials at the West Wolf Lake Gas Plant (jointly

owned by Tourmaline Oil Corp. and Rubellite Energy), along with other Tourmaline assets. NGIF Accelerator supports technology developers in scaling up by disseminating knowledge and providing commercialization support.

The NGIF ETC Program is currently supported by the Government of Alberta (Environment and Protected Areas), whose funding enables the testing and deployment of methane reduction technologies. This public support ensures the technology providers have the resources and infrastructure to advance innovative solutions that measure, monitor, and reduce methane emissions while accelerating their path to market adoption.



# The Consortium

## NGIF ACCELERATOR

Commercialization Guidance, Innovation Support, and Program Management.

The NGIF ETC Program provides testing and validation of technology prototypes across controlled settings and real-world conditions. Building on this foundation, the program is now expanding to accelerate commercialization—helping proven methane measurement and mitigation solutions move efficiently from testing to industry adoption.

This evolution is supported by NGIF Accelerator’s commercialization framework, which helps innovators de-risk, scale, and connect with the broader energy ecosystem. The NGIF Accelerator maintains a dedicated website providing comprehensive access to program details, application intakes, updates, test results, and other valuable resources for innovators and stakeholders.

### Four Pillars of Commercialization Support

1. Technology Landscape
2. Commercialization and Adoption Playbook
3. Technology Adoption Platform
4. Technology Exposition

### Managed by:



#### Akhil Abat

Chief Operating Officer (COO),  
NGIF Accelerator



#### Sam Ashoori

Senior Program Manager, NGIF ETC  
Program, NGIF Accelerator



# The Consortium

## UNIVERSITY OF CALGARY

Validating Methane Reduction, Measurement, and Quantification Technologies in Controlled Laboratory Environments.

UCalgary is a leading public research university located in Calgary, Alberta, Canada. It is comprised of 14 faculties and over 85 research institutes and centres.

UCalgary manages the NGIF ETC Program's laboratory operations. Housed within the Gates Research Group, the lab is a flexible applied research facility designed for rapid setup, execution, post-processing, and analysis of experiments testing methane emissions reduction technologies.

The lab employs advanced modelling techniques—including computational fluid dynamics, machine learning, and predictive modelling—to refine testing methodologies and enhance the real-world applicability of innovative solutions.

By leveraging cutting-edge modelling approaches, the lab supports cleantech innovators in optimizing their solutions for greater accuracy, efficiency, and scalability.

### Managed by:



#### Ian Gates

Professor, Chemical and Petroleum Engineering. Associate Vice President (Research and Innovation)



#### Ranjani Kannaiyan

Lead of NGIF Emissions Testing Centre, Lab Operations, University of Calgary



# Lab Testing Facilities

## Laboratory testing, technical validation, and research collaboration.

The NGIF ETC Lab provides innovators with a state-of-the-art, controlled testing environment to refine and validate their technologies before advancing to field trials. Designed for flexibility, the lab supports customized physical testing scenarios tailored to each applicant’s specific needs. In parallel, the lab also conducts modelling and simulation work that contributes to broader knowledge around methane emissions, informing future innovation.

### Key capabilities include:

- Bench Reactors: Parr, furnace, and high-temperature/high-pressure systems.
- Gas Analysis: GC-MS, GC-SCD, micro-GCs, and sample collection.
- Gas Flow Testing: flow systems, low-flow (leak) testing, meters for gas components, high-pressure systems (up to 250 bar), hydrogen-methane testing.
- Core Flood Testing: High-pressure setups and flow cells for subsurface simulations.
- Rheology & Mechanical Testing: Characterization of material properties under varied conditions.
- Interfacial Science Tools: Zeta potential, contact angle, and surface profilometry.

- Imaging & Elemental Analysis: Access to Dynamic Imaging Lab (CT, CryoSEM) and ICP.
- Environmental Testing: Controlled environments (-40°C to +100°C), controlled releases, and external ambient testing.

This robust suite of capabilities ensures that innovators can generate high-quality data, optimize performance, and mitigate risks to their technologies ahead of field deployment.

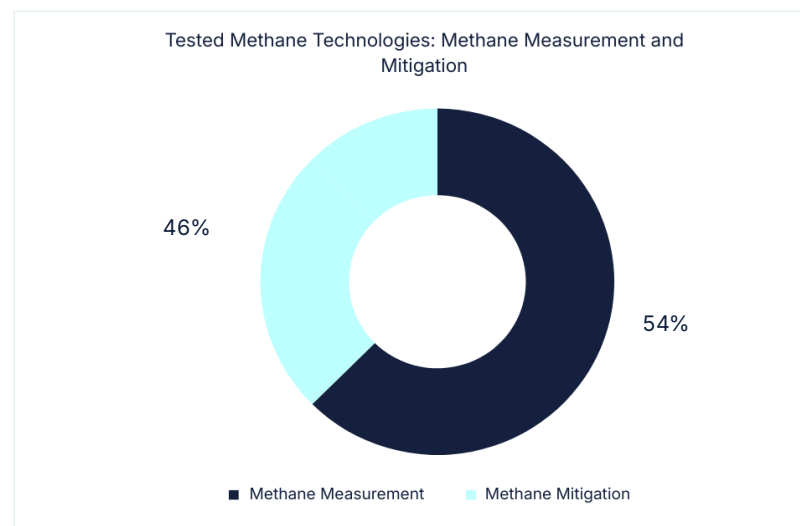


Figure 1: Tested Methane Technologies: Methane Measurement and Mitigation

# The Consortium

TOURMALINE OIL CORP.

Validating Methane Reduction, Measurement and Quantification Technologies in a live operating environment.

From its operations in British Columbia and Alberta, the company proudly sends its natural gas across Canada, into the United States, and to international markets. Tourmaline is at the forefront of Canada's energy future, leveraging innovation, transparency, and responsibility to lead the way in natural gas development.

Tourmaline is responsible for the NGIF ETC Program's field operations and live field testing. The field facilities include the West Wolf Lake Gas Processing Plant (the Hub), a plant Tourmaline co-owns with Rubellite Energy, as well as the Controlled Release East Edson Wellsite and the Continuous Emissions Monitoring Trailer (CEMS). Tourmaline makes other field assets available for the NGIF ETC Program pilots.

Managed by:



**Scott Volk**

Director, Emissions & Innovation,  
Tourmaline Oil Corp.



**Eamonn Irvine**

Emissions & Innovation Engineer,  
Tourmaline Oil Corp.



# Field Testing Facilities

The Hub



The field testing component of the NGIF ETC is centred around the West Wolf Lake Gas Plant, co-owned by Tourmaline and Rubellite Energy. This first-of-a-kind operating facility is equipped with extensive instrumentation, providing cleantech vendors with access to data not typically available at standard live operations. The plant serves as a hub for testing technologies in a real-world setting.

The Controlled Release East Edson Wellsite



The Controlled Release East Edson Wellsite offers a simulated environment where known volumes of methane emissions are released. This setup allows technology providers to test the quantification and localization capabilities of their emissions measurement technologies.

The Continuous Emissions Monitoring System (CEMS)



The CEMS mobile trailer is designed to measure engine exhaust streams and plays a crucial role in quantifying methane slip from natural gas engine exhausts. This tool is essential for independently assessing methane slip, revealing the full emissions profile, and validating cost-effective solutions for its quantification or reduction, offering valuable data for site users.

	2021	2022	2023	2024
<b>Technologies Tried</b>	7	16	35	55
<b>Participants</b>	8	20	48	80

Figure 2: Field Testing Conducted from 2021 – 2024

# NGIF ETC Program Process

# NGIF ETC PROGRAM PROCESS

## A. LAB & FIELD TESTING – INTAKE PROCESS



# NGIF ETC PROGRAM PROCESS

## B. COMMERCIALIZATION SUPPORT – INTAKE PROCESS



# Program Expansion

# Program Expansion

## LAB – SIMULATION AND MODELLING

### A New Modelling Capability Introduced Under Current Funding

As part of its expanded mandate under the current funding phase, the NGIF ETC Lab – operated by the University of Calgary – has introduced an advanced simulation and computational modelling capability. This is a new addition to the Lab’s suite of tools, purpose-built to strengthen the scientific foundation of methane emissions measurement and support the development of next-generation monitoring technologies.

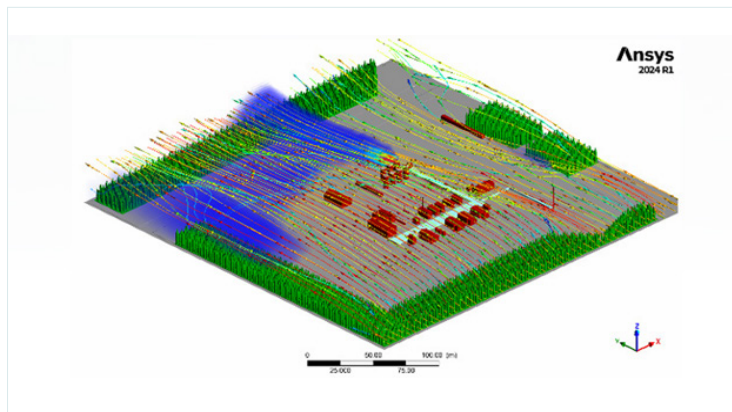


Figure 3: Simulation and Lab-Physics-Based Modelling

**Simulation and Lab-Physics-based Modelling:** The NGIF ETC Lab utilizes physics-based modelling to simulate sensor placement, analyze methane plume behaviour under varying wind conditions, and optimize the minimum

number of sensors required to meet target measurement quality, with quantified uncertainty ranges.

The NGIF ETC Lab at UCalgary has been actively advancing computational modelling to support methane emissions mitigation technologies. Their modelling portfolio includes ultra-detailed computational fluid dynamics (CFD) simulations of methane plumes, flare stack behaviour, and tank emissions. These models incorporate real-world variables such as wind fluctuations, facility structures, and vegetation to enhance accuracy in predicting methane dispersion and identifying optimal sensor placement. These modelling efforts not only enhance understanding of methane behaviour in complex environments but also inform the design and deployment of emissions monitoring and reduction technologies.

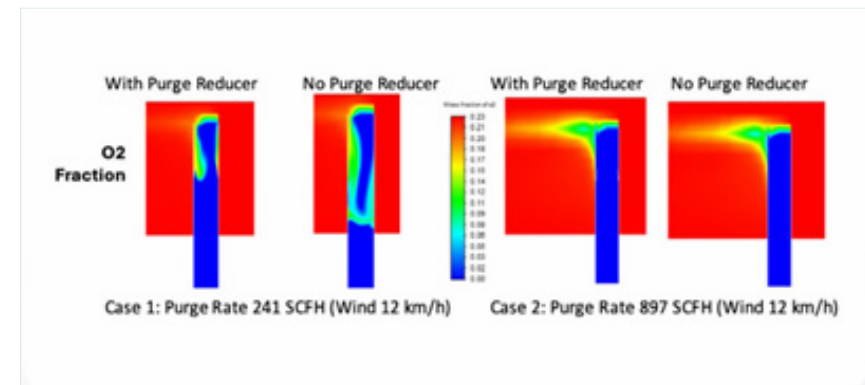


Figure 4: Methane Emissions Mitigation Technologies Computational Modelling

# Program Expansion

## COMMERCIALIZATION SUPPORT

Following the successful completion of the NRCan and PrairiesCan-funded phase, the NGIF ETC Program entered a new chapter in 2024 with new backing from the Government of Alberta, Environment and Protected Areas (AEP).

In July 2024, the NGIF ETC Program reached a new milestone with the execution of a landmark grant agreement with AEP. This \$15MM commitment marked a significant expansion of provincial support to strengthen Alberta’s leadership in clean technology, accelerate the adoption of methane measurement and mitigation solutions, and enhance support for innovators across the natural gas sector.

With AEP’s backing, the NGIF ETC Program is positioned to deliver even greater impact. The program’s evolution in 2024 reflects several key strategic priorities:

**Refreshed Program Design:** The NGIF ETC Program framework was updated to align more closely with Alberta’s energy and innovation objectives, ensuring that technology validation and commercialization efforts are closely tied to industry needs and climate goals. The refreshed design now incorporates four pillars of commercialization support, providing a structured pathway for innovators to move from testing to deployment.

**Dedicated Digital Platform:** NGIF Accelerator launched a centralized website ([etc.ngif.ca](https://etc.ngif.ca)), providing a single, comprehensive resource hub for cleantech innovators, industry stakeholders, and the broader public.

The platform offers detailed program information, lab and field testing opportunities, commercialization support, case studies, reports, and event updates, enhancing accessibility and transparency.

**Enhanced Communications:** To better engage stakeholders, the program implemented an expanded communications strategy, including newsletters, social media updates, and the quarterly *TechTalk* Sessions, a webinar series. These initiatives provide regular insights into emerging technologies, share best practices, and highlight the outcomes of ongoing testing projects.

**Broader Ecosystem Engagement:** The program strengthened connections within the cleantech ecosystem, bringing together innovators, potential adopters, investors, and policymakers through interactive webinars, events, and networking initiatives. This approach ensures that promising methane reduction technologies are not only developed and tested but also positioned for successful market adoption.

These enhancements collectively position the NGIF ETC Program to more effectively de-risk emerging technologies, accelerate their path to market, and contribute measurable environmental and economic benefits. By combining rigorous technical validation with strategic industry engagement and commercialization support, the program is advancing Alberta’s role as a central hub for methane measurement and mitigation innovation while supporting Canada’s broader climate and energy transformation objectives.

# New Element: Commercialization Support

NGIF Accelerator’s commercialization support is designed to bridge the gap between technology validation and real-world adoption. In addition to its lab and field testing capabilities, the NGIF ETC Program will now offer this support to help ensure that proven methane measurement, monitoring, quantification, and mitigation solutions can scale and succeed in the marketplace.

The commercialization support element is funded entirely by the

Government of Alberta Environment and Protected Areas.

By equipping technology developers with the tools, connections, and market pathways they need and helping operators identify solutions that align with their operational and emissions goals, the program accelerates the transition from testing to adoption. Through strategic partnerships and investor engagement, it transforms proven innovations into real-world impact, placing Alberta as a hub and leader for methane innovation within the energy industry.

## Driving Commercialization Through Four Pillars



# Commercialization Support | Pillar 1

## TECHNOLOGY LANDSCAPE

Initiated in late 2024, the Technology Landscape is currently under development with a planned rollout in 2026.

Managing methane emissions has become an increasingly critical environmental and operational priority for Canada’s energy sector. Operators are seeking advanced technologies to enhance detection, monitoring, quantification, and mitigation efforts, ensuring compliance with federal and provincial regulations while minimizing environmental impact. A wide range of global methane reduction technologies, from satellite-based imaging and continuous monitoring sensors to drone inspections, predictive analytics, and methane capture and destruction systems, offer practical, scalable solutions that can integrate seamlessly into existing operations.

To support informed decision-making, the Technology Landscape serves as a centralized, global database of methane management technologies, designed to accelerate the identification and deployment of innovative solutions across the energy value chain. The platform provides comprehensive technology profiles detailing technical specifications, development stage and market applications, enabling operators and investors to assess the suitability and readiness of each solution.

An interactive mapping feature further enhances usability by linking technologies directly to specific emissions sources, such as pipelines, compressors, and storage tanks. This allows Canadian energy operators to quickly evaluate applicability within operations, facilitating targeted interventions that maximize environmental and operational outcomes. The database is specifically designed for energy stakeholders, offering valuable insights for operators and investors in search of impactful solutions.

Additionally, the Technology Landscape offers visibility into solutions under development, their TRL, and intended applications. The platform not only identifies current options but also highlights gaps where future

innovation is needed. This insight directs effort toward areas with the greatest impact potential, fostering targeted research and development to close gaps and address priority emissions sources.



# Commercialization Support | Pillar 2

## COMMERCIALIZATION AND ADOPTION PLAYBOOK

Initiated in 2024, the Commercialization Playbook is currently under active development, with a phased rollout planned in 2026 as the framework is refined through ongoing ecosystem engagement, research, and validation.

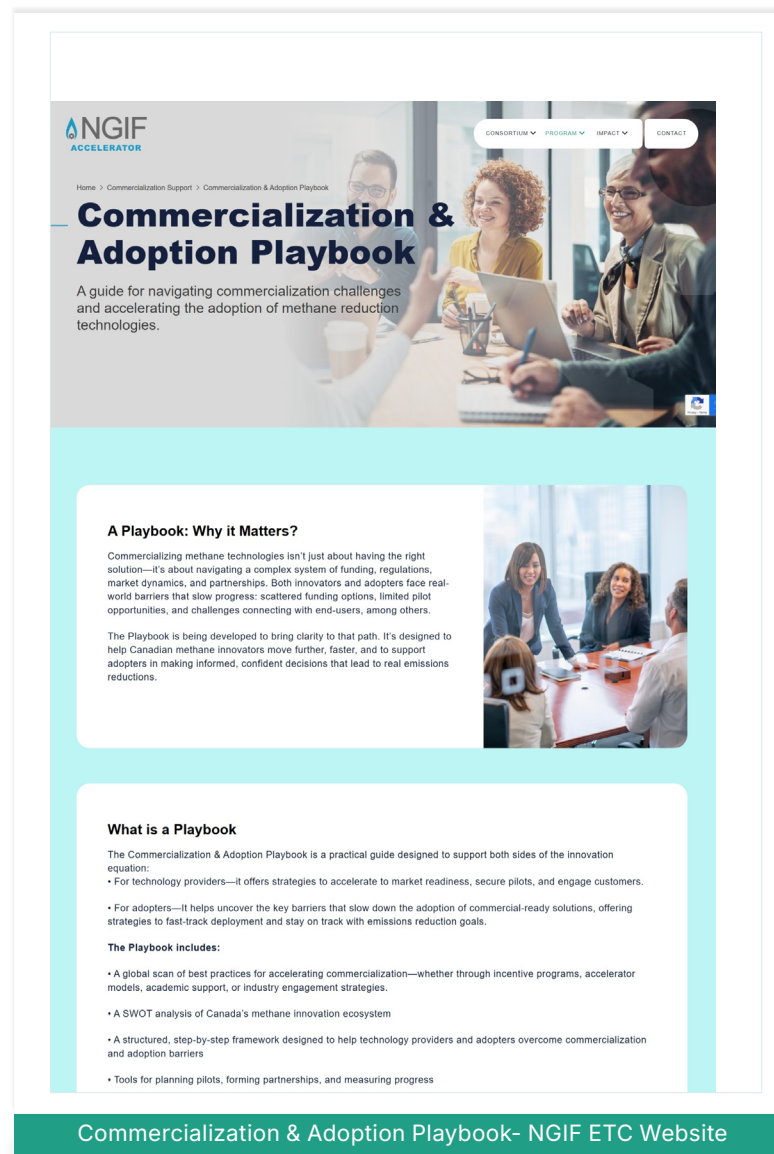
The Playbook serves as a practical, step-by-step guide primarily for technology developers and adopters while engaging investors, funding organizations, and other innovation ecosystem players. Its purpose is to create a collaborative framework for identifying challenges and opportunities that accelerate commercialization, scale-up, and market adoption of methane technologies.

Rather than being a static guide, the Playbook is a dynamic resource that evolves with the ecosystem. It fosters alignment among innovators, adopters, and capital providers, ensuring that market deployment strategies are practical, evidence-based, and tailored to Canada’s unique context.

A cornerstone of the Playbook is its mapping of TRL with the Commercial Readiness Index (CRI). This alignment is critical because advancing TRL alone does not guarantee market success—technologies must also progress in commercial maturity. By integrating CRI considerations early, developers can anticipate market barriers, secure financing, and build adoption pathways in parallel with technical validation. This dual focus reduces time-to-market, improves investor confidence, and ensures that promising solutions achieve both technical and commercial viability.

The Playbook draws on a global scan of best practices for accelerating commercialization, a SWOT analysis of Canada’s methane innovation ecosystem, and insights from interviews, workshops, and research. These inputs shaped practical tools for pilot planning, partnership development, funding strategies, compliance navigation, and progress measurement.

Ultimately, the Playbook strengthens Canada’s methane innovation ecosystem by reducing barriers, fostering collaboration, and accelerating the deployment of high-impact solutions across the energy sector.



# Commercialization Support | Pillar 3

## TECHNOLOGY ADOPTION PLATFORM

The Technology Adoption Platform (TAP) bridges methane technology developers with industry operators and investors to support commercialization and scale-up. Through a curated portfolio of pre-screened, near-commercial solutions, TAP facilitates targeted pitch events, structured stakeholder engagement, and matchmaking to position technologies for real-world deployment.

Each participating technology provider is supported by an Industry Champion – an organization with direct experience using the technology through a pilot, demonstration, or early adoption. Industry Champions validate technical performance and market relevance, sharing insights during presentations and in-camera Q&A sessions. This model strengthens credibility, reduces adoption risk, and demonstrates commercial

readiness. TAP is open to technology providers, energy industry adopters, and investors seeking early-stage opportunities.

NGIF Accelerator issues a call for applications, after which providers submit an intake form and identify an Industry Champion. Eligible applications are advanced to a selection committee, which evaluates submissions based on innovation, technical maturity, market relevance, commercial potential, and team capability. Successful applicants participate in pitch training ahead of Pitch Day, where they present alongside their Industry Champion to a targeted audience. In-camera discussions enable candid validation, followed by facilitated matchmaking that may lead to pilots, commercial agreements, or investment opportunities.



# Commercialization Support | Pillar 4

## TECHNOLOGY EXPOSITION

Commercializing new technologies often hinges on one critical factor: access to the right industry decision-makers. For startups and SMEs, navigating high-profile trade shows and conferences can be costly and complex, creating barriers to meaningful engagement and market entry. Recognizing this challenge, the NGIF Accelerator developed the Technology Exposition, an accessible platform that enables technology developers to showcase their innovations and connect directly with the stakeholders who can advance commercialization and adoption.

The Technology Exposition offers a cost-effective alternative to traditional events. By broadening participation, more startups and SMEs gain the opportunity to present their solutions, while targeted engagement ensures that developers meet relevant industry leaders, investors, and decision-makers. This approach removes barriers associated with expensive trade shows, providing high-impact exposure and networking opportunities without the associated costs or logistical challenges.

Through the Technology Exposition, innovators can accelerate the deployment of their solutions by forming strategic connections, demonstrating technology capabilities, and engaging with potential adopters early in the deployment process.

Planning is currently underway for the first exposition, targeted for 2025 in coordination with the Methane Mitigation Summit Canada.



**Technology Exposition**

Showcasing innovative technologies to stakeholders.

**Technology Exposition: Connecting Innovators with Industry**

The commercialization of new technologies often faces one major challenge: connecting with the right decision-makers in industry. For startups and SMEs, the cost and complexity of accessing key stakeholders—especially at high-profile trade shows and conferences—can be overwhelming.

At NGIF Accelerator, we've created the **Technology Exposition** to help solve this problem. It's an affordable platform that makes it easier for tech developers to showcase their solutions and connect with the right people who can drive their technology forward.

Unlike traditional events that limit access or come with high participation fees, the **Technology Exposition** offer:

- **Broader Participation:** More startups and SMEs can join, with expanded opportunities to showcase their innovations.
- **Targeted Connections:** We bring industry leaders, investors, and decision-makers directly to the event, ensuring developers connect with the right stakeholders.
- **Cost-Effective Exposure:** Skip the expensive trade shows and get the same level of visibility and networking without the high costs.

The **Technology Exposition** is your chance to accelerate commercialization by meeting the people who can make a difference in your technology's journey from prototype to market.

If you'd like to be contacted about future events, please register your interest. We'll keep you informed as new opportunities become available.

[REGISTER NOW](#)

Technology Exposition- NGIF ETC Website

# Knowledge Dissemination

## TECHTALK SESSIONS WEBINAR SERIES

A quarterly webinar series was launched to drive knowledge exchange and collaboration within the methane management sector. These sessions serve as a platform for industry experts, technology developers, and stakeholders to discuss emerging innovations, share insights, and explore practical solutions for reducing methane emissions.

Each episode features a diverse panel of thought leaders who delve into topics such as methane monitoring technologies, emissions reduction strategies, and the commercialization of cleantech solutions. Some sessions are specifically designed to address challenges raised by founders and innovators, providing practical guidance to accelerate

market adoption. In addition, the series spotlights technology providers and NGIF ETC Program users, showcasing innovation and success stories.

The webinars are designed to provide valuable information to participants, including technology providers, industry professionals, and other innovation ecosystem players, facilitating informed decision-making and accelerating the adoption of effective methane mitigation technologies. All episodes are recorded and are made accessible through the NGIF ETC Program website, managed by NGIF Accelerator, ensuring that the knowledge shared reaches a broad audience committed to advancing environmental sustainability.



# Knowledge Dissemination

## TECHTALK SESSIONS WEBINAR SERIES

### EPISODE 01

**Topic:** [Accelerating the Commercialization of Emerging Innovative Solutions in the Measurement, Monitoring and Reduction of Methane Emissions](#)

**Moderator:** Akhil Abat, COO NGIF Accelerator

**Panelists:**

- Andrew Pryor, Manager, Innovation Ecosystems at Prairies Economic Development Canada
- Scott Volk, Director of Emissions and Innovation at Tourmaline Oil Corp.
- Ian Gates, Professor (Chemical Engineering); Director, Global Research Initiative for Sustainable Low-Carbon Unconventional Resources, University of Calgary.
- Taryn Humphrey, Director, Business Development, Qube Technologies Inc.



### EPISODE 03

**Topic:** [Exploring Methane Mitigation Technologies with NGIF Emissions Testing Centre Program](#)

**Moderator:** Sam Ashoori, Ph.D., P.Eng., Program Manager, NGIF ETC Program

**Panelists:**

- Wayne Hillier, Chief Technology Officer and VP – Decarbonization, Modern West Advisory.
- Ian Gates, Professor & Director, Associate Vice President (Research and Innovation), University of Calgary.
- Dean Pick, President, Kinitics Automation Limited.
- Denis Ding, Chief Operating Officer and Chief Products Officer, Rimere.



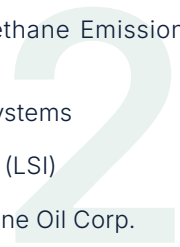
### EPISODE 02

**Topic:** [Advancing Methane Monitoring: Accelerating Technology Through the ETC Program](#)

**Moderator:** Sam Ashoori, Ph.D., P.Eng., Program Manager, NGIF ETC Program

**Panelists:**

- Claude Ghazar, Director, Recovery Technologies & Methane Emissions Reduction programs, Alberta Innovates
- Monica Sippola, Director, Business Development, Kuva Systems
- Jim Cormack, VP, Sales, LiDAR Services International Inc. (LSI)
- Scott Volk, Director of Emissions and Innovation, Tourmaline Oil Corp.



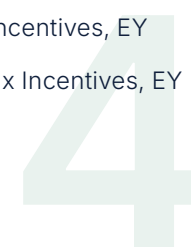
### EPISODE 04

**Topic:** [Unlocking SR&ED for Cleantech Startups: Reducing Development Costs and Risk](#)

**Moderator:** Sam Ashoori, Ph.D., P.Eng., Program Manager, NGIF ETC Program

**Panelists:**

- Korey Conroy, Ph.D., Partner, SR&ED and Business Tax Incentives, EY
- Cecile A., CPA, Senior Manager, SR&ED and Business Tax Incentives, EY



# Knowledge Dissemination

## RESOURCE HUB

To enhance accessibility and transparency, NGIF Accelerator has developed a dedicated website for the NGIF ETC Program ([etc.ngif.ca](http://etc.ngif.ca)).

This centralized platform serves as a comprehensive resource hub for methane technology innovators, industry stakeholders, and the general public, providing detailed information on the program's offerings, including lab and field testing opportunities, commercialization support, and program guidelines. The website features a user-friendly interface that allows visitors to explore various program components, access lab

and field-testing reports and case studies, and stay updated on upcoming events and webinars.

By consolidating all relevant information in one accessible location, the platform facilitates informed decision-making and greater engagement with the program's initiatives aimed at advancing methane emissions reduction technologies. The website also showcases the current [program users](#), [TechTalk sessions](#) and [user reports](#) highlighting real-world innovation outcomes and knowledge-sharing across the ecosystem.



# Knowledge Dissemination

## ECOSYSTEM ENGAGEMENT

Through active engagement with the innovation ecosystem, operators, and other stakeholders, the NGIF ETC Program has made a tangible impact in advancing the next-generation methane solutions that can transform the energy sector. From technology scouting and introducing new innovations to Canada, to advocating for the program and highlighting Alberta's leadership in methane management, the program has strengthened connections across the province and beyond. By sharing knowledge, showcasing program users and facilitating panels and discussions, the NGIF ETC Program continues to spotlight innovative technologies, foster collaboration, and accelerate the adoption of solutions that deliver environmental and economic benefits.



Figure 5: Methane Mitigation Summit, Calgary, AB



Figure 6: COP29, Baku



Figure 7: NGIF ETC-TIER Funding Announcement, Edson, AB



Figure 8: CH<sub>4</sub> Connections Conference & METEC Visit, Fort Collins, CO

# Our Funders

# Our Funders

## GOVERNMENT OF ALBERTA ENVIRONMENT AND PROTECTED AREAS (AEP)

The NGIF ETC Program has been made possible through the generous support of multiple funders, each contributing to the program’s growth, impact, and alignment with national and provincial priorities. The following section highlights the contributions, objectives, and outcomes associated with each funding partner.

AEP has played a critical role in ensuring the long-term sustainability and strategic alignment of the NGIF ETC Program. Their funding supports ongoing collaboration between the NGIF ETC Program, UCalgary, Tourmaline and NGIF Accelerator, enabling the program to deliver measurable environmental and economic benefits across Alberta’s energy sector. The Government of Alberta announced an award of \$15MM to the program in July 2024.

### AEP’s support highlights:

- Alignment with provincial priorities for methane reduction and the deployment of clean technologies.

- Expansion of program scope to include ecosystem engagement, commercialization support, and collaboration with academic institutions.
- Contribution to Alberta’s energy innovation landscape by accelerating the development, testing, and adoption of practical methane mitigation solutions.
- Facilitation of knowledge transfer to industry stakeholders, and technology developers through webinars, newsletters, and the NGIF ETC Program website.

The long-term collaboration with AEP demonstrates a shared commitment to reducing emissions, supporting cleantech innovation, and advancing Alberta’s leadership in environmental stewardship and energy transformation.



“We are a global leader in reducing methane emissions, and Alberta technologies are being used around the world. We are removing barriers so our talented startup companies can grow their good ideas, create jobs and support a sustainable oil and gas sector for generations to come.”

**Rebecca Schulz, Honourable Minister of Environment and Protected Areas**

# Our Funders

## ALBERTA INNOVATES

Alberta Innovates is the province’s innovation agency, dedicated to driving economic growth by supporting research, technology development, and commercialization across key sectors. By connecting industry, researchers, entrepreneurs, and government, Alberta Innovates helps turn ideas into market-ready solutions that strengthen Alberta’s competitiveness and resilience.

Through targeted funding programs, infrastructure support, and strategic partnerships, Alberta Innovates accelerates innovation in areas such as clean energy, emissions reduction, health, agriculture, and advanced manufacturing. Its work plays a critical role in positioning Alberta as a

global leader in applied research and technology-driven solutions.

In March 2024, Alberta Innovates approved funding for the NGIF ETC Program through its Clean Resources Continuous Intake Program. The funding agreement outlines a total contribution of \$750,000 from Alberta Innovates, delivered according to defined milestones and reporting requirements.

Performance metrics and KPIs related to the funding are outlined on page 16 for your reference.



“Methane is a potent greenhouse gas, and this testing centre represents an important opportunity to continue to reduce emissions associated with the oil and gas sector. Alberta has made significant strides in methane emissions reduction over the past ten years, and this funding will enable continued success,”

**Claude Ghazar, Director, Recovery Technologies, Alberta Innovates.**

“Alberta Innovates’ partnership with NGIF and support for their ETC program enhance Alberta’s energy leadership by fostering innovation. This next phase of methane reductions will require further ingenuity to achieve emissions reduction targets.”

**Bryan Helfenbaum, Vice President, Clean Energy, Alberta Innovates.**



# Our Funders

## PRAIRIES ECONOMIC DEVELOPMENT CANADA

Prairies Economic Development Canada (PrairiesCan) is the federal agency responsible for advancing economic growth across Alberta, Saskatchewan, and Manitoba. PrairiesCan supports businesses, communities, and innovators by promoting inclusive growth, enhancing regional competitiveness, and helping diversify the Prairie economy.

Through funding programs, strategic investments, and collaboration with regional partners, PrairiesCan enables innovation, supports clean technology development, and strengthens small and medium-sized enterprises. The agency plays a key role in building a more sustainable, innovative, and resilient Prairie economy.

PrairiesCan provided funding of \$1.94M to the NGIF ETC Program under the Jobs and Growth Fund, supporting the early-stage development, testing, and validation of methane mitigation technologies across the Canadian Prairies. The project concluded in March 2024, after which a one-year period was dedicated to finalizing key performance indicators (KPIs) and financials.

Performance metrics and KPIs related to the funding are outlined on page 15 for your reference.

With the support of:  
Prairies Economic  
Development Canada

Canada 



“As part of our government’s commitment to achieve a net-zero economy by 2050, we are working in partnership with industry to create new investment opportunities for clean technology innovation in Alberta and across the Prairies. By investing in the Canadian Gas Association and further building the capacity of its leading-edge NGIF Emissions Testing Centre program, we are ensuring small- and medium-sized cleantech firms can access more opportunities to refine, validate, and commercialize their innovative emissions reduction solutions and create sustainable jobs in Alberta’s energy sector.”

**Honourable Dan Vandal, Minister for PrairiesCan.**

“The Government of Canada is working with industry and experts to drive down methane emissions in the energy sector in order to fight climate change and enhance long-term competitiveness. Today’s announcement is an important step in reducing methane emissions, building on Canada’s ambitious methane regulations and Canada’s forthcoming Methane Centre of Excellence.”

**Honourable Jonathan Wilkinson, Minister of Energy and Natural Resources.**



The background of the slide is a photograph of industrial infrastructure, likely a gas processing plant, showing large white storage tanks and complex piping systems. A large, semi-transparent teal arrow points from the top right towards the center of the image. The text "Path Forward" is overlaid on the bottom left of the image.

# Path Forward

# Path Forward: 2025–2026 Priorities

In 2024, while continuing to deliver on the NGIF ETC Program’s core mandate, our team undertook a strategic review to identify opportunities for greater impact. This led to a revised consortium agreement for improved stakeholder alignment, the introduction of new programs, and a more structured approach to knowledge dissemination.

For 2025-2026, our commercialization support strategy will be anchored by four integrated pillars:

## 1. Technology Landscape

We will continue to expand and refine the database behind the Technology Landscape, and build the interactive, free-to-users tool. This platform will help identify gaps, direct future innovation efforts, and support informed decision-making across the energy value chain.

## 2. Commercialization & Adoption Playbook

The Playbook will be actively deployed to equip technology developers, adopters, investors, and ecosystem partners with actionable guidance and best practices. By aligning technology readiness with commercial readiness, the Playbook will facilitate faster market entry and more effective adoption of methane mitigation technologies.

## 3. Technology Adoption Platform (TAP)

TAP cohorts will be launched with multiple intakes, featuring Pitch Days designed to accelerate the adoption of innovative solutions by connecting technology developers with industry operators and investors. The initiative will provide tailored support, mentorship, and targeted events to facilitate partnerships and commercialization.

## 4. Technology Exposition

The Technology Exposition will open intakes for hosted and co-hosted industry events, offering a platform to showcase innovations, facilitate

networking, and build connections among innovators, industry leaders, and investors. This will enhance visibility, collaboration, and the scale-up of emerging methane reduction solutions.

Throughout 2025-2026, we will continue rigorous testing and validation, providing commercialization support, delivering webinars, and scouting for further methane innovations to bring to market. Our goal is to export Canadian technologies and further establish the NGIF ETC Program as a world-class methane technology accelerator for the energy industry.



# Public Reports - Technology Testing

# Public Reports | Technology Testing

Program User Name	Type of Testing	Focus Area	Funded by	Report
<b>EmMea Inc.</b>	Lab Testing	Methane Measurement and Monitoring	PrairiesCan	<a href="#">EmMea Inc. Report</a>
<b>Calscan Solutions.</b>	Field Testing	Methane Measurement and Monitoring	PrairiesCan	<a href="#">Calscan Solutions Report</a>
<b>Capstone</b>	Field Testing	Methane Measurement and Monitoring	PrairiesCan	<a href="#">Capstone Report</a>
<b>HazTrack</b>	Field Testing	Methane Measurement and Monitoring	PrairiesCan	<a href="#">HazTrack Report</a>
<b>Waukesha</b>	Field Testing	Methane Measurement and Monitoring	PrairiesCan	<a href="#">Waukesha Report</a>
<b>Kinitics Automation</b>	Field Testing	Methane Measurement and Monitoring	PrairiesCan	<a href="#">Kinitics Report</a>
<b>NevadaNano</b>	Field Testing	Methane Measurement and Monitoring	Alberta Innovates	<a href="#">NevadaNano Report</a>
<b>Bridger Photonics</b>	Field Testing	Methane Mitigations	Alberta Innovates	<a href="#">Bridger Photonics Report</a>
<b>Ariel Corporation</b>	Field Testing	Methane Mitigations	Alberta Innovates	<a href="#">Ariel Corporation Report</a>

# Appendix A

## GLOSSARY OF TERMS:

GoA – Government of Alberta

IC – Internal Combustion

TRL – Technology Readiness Level (i.e., a measure of where technology sits in its development from concept to commerciality)

CRI – Commercial Readiness Index

WWL – West Wolf Lake Gas Plant (i.e., the main NGIF ETC Program live testing centre for emissions monitoring technology)



# Questions?

## CONTACT

**John Adams**

President and CEO  
NGIF Accelerator

phone  
email

1.343.633.3921  
info@ngif.ca

[www.etc.ngif.ca](http://www.etc.ngif.ca)

