

CLEAN RESOURCES

ADVANCED HYDROCARBONS

CLEANER HYDROCARBON PRODUCTION – METHANE EMISSIONS REDUCTION

FUNDING DETAILS

Canadian Emissions Reduction Innovation Network (CERIN)

CERIN is a pan-Canadian network of researchers and end users to develop and deploy technologies to reduce methane emissions.

CERIN is an open network that provides the oil & gas industry with a platform to articulate and rank their most pressing methane emission challenges.

Industry will work with technology developers to test their technologies in the lab and field settings, and the developers will be able to refine their designs with the information provided by the testing.

Open data sharing across the Network will further accelerate technology development and deployment.

The Network is currently comprised of two consortia, CanERIC (led by PTAC) and NGIF Emissions Testing Centre (led by Natural Gas Innovation Fund).

- CanERIC is a comprehensive Canadian national network of emissions reduction test facilities.
- NGIF Emissions Testing Centre is a highly instrumented operating facility where technologies will be tested and validated during extended operations.



RECIPIENT:
PTAC, NGIF,
UofC, UofA, SAIT,
InnoTech, CMC



PARTNERS:
NRCan,
Industry,
Academia,
CanmetEnergy, SRC



TOTAL BUDGET:
\$42,180,000



AI FUNDING:
\$4,260,000



PROJECT DATES:
DEC 2019 –
MAR 2022



PROJECT TRL:
Start: 4
End: 9

APPLICATION

Technology developers will be able to work more easily with the researchers and producers to have their technologies tested, perfected, and deployed. A broad network with data sharing allows for testing to be completed across a range of use applications, compositions, geographies, topographies, etc. The producers will define their needs, as they are the target market for these developers and vendors of methane emissions detection, monitoring, and reduction technologies.



ALBERTA INNOVATES CLEAN RESOURCES

ADVANCED HYDROCARBONS

CLEANER HYDROCARBON PRODUCTION – METHANE EMISSIONS REDUCTION

PROJECT GOALS

- Prioritize industry challenges regarding methane emissions
- Engage with technology developers for methane emissions detection, monitoring, and mitigation
- Connect developers with academic and government research laboratories to test technologies in a controlled environment
- Progress technology validation to field trials with industry partners
- Share testing data across an open platform to accelerate validation and access powerful analytical tools
- Support technologies moving toward proliferation

BENEFITS TO ALBERTA

- Development of technologies that be sold locally and internationally (jobs)
- Deployment of technologies to reduce methane emissions and reduce red tape in monitoring emissions (GHG reductions)
- Incremental methane sales (higher royalties for Alberta)
- Reduction in costs for avoiding methane releases can be spent on other industry projects (more jobs, more royalties)
- Attracts Federal funding to be spent in Alberta
- Establishes a pan-Canadian model for collaboration between academia, industry, entrepreneurs and government



23 Publications



14 Students
Trained



60 Project Jobs



300+ Future Jobs



20 New
Products/Services



7 kT/yr Project GHGs
Reduced



13,500 kT/yr Future
GHGs Reduced*

*enabling or indirect

CURRENT STATUS

MAR 2020

Equipment has been fully ordered and mostly installed at various academic and research organizations. Governance structure across CERIN has been finalized, with Steering Committee and Subcommittees beginning early operations. Work underway on roadmap development, defining focus areas, technology screening forms, and developing standards and testing protocols. Technology testing to initiate in 2H 2020.