

ALBERTA INNOVATES CLEAN RESOURCES

ADVANCED HYDROCARBONS

CLEANER HYDROCARBON PRODUCTION – METHANE EMISSIONS REDUCTION

FUNDING DETAILS

CanERIC – Canadian Emissions Reduction Innovation Consortium

CanERIC is a pan-Canadian network of researchers and end-users to develop and deploy technologies to reduce methane emissions. This network will provide the oil and gas industry with a platform to articulate and rank their most pressing methane emission challenges. Technology vendors will be able to respond to these challenges and know that there will be a market for their products. Industry will work with the technology vendors to test their technologies in lab and field settings and the vendors will be able to refine their designs with the information provided by the tests. Institutional members will be involved in CanERIC to provide the expertise to conduct the lab tests and monitor and analyze field tests for the network.



RECIPIENT:

**PTAC,
UCalgary, UAlberta,
SAIT,
InnoTech, CMC**



PARTNERS:

**NRCan,
Industry,
Academia,
SRC**



TOTAL BUDGET:

\$12,900,000



AI FUNDING:

\$4,260,000



PROJECT DATES:

**DEC 2019 –
MAR 2022**



PROJECT TRL:

**Start: 7
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.



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 deployment

BENEFITS TO ALBERTA

- Development of technologies that will 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



15 Publications



10 Students Trained



30 Project Jobs



300 Future Jobs



10 New Products/Services



5 kT/yr Project GHGs Reduced



8,000 kT/yr Future GHGs Reduced*

*enabling or indirect

CURRENT STATUS

JULY 2020

Equipment has been ordered and installed at various academic and research organizations. Work underway on roadmap development, defining focus areas, technology screening forms, and performing technical / economic evaluations. Technology testing to initiate in 2H 2020.