

Table 3: NEW & ONGOING PROJECTS OF INTEREST

Date Added	Project	Topic	Segment	Description	Link	Comments
March 2021	Project Falcon Chevron, ConocoPhillips, Devon Energy, ExxonMobil, Pioneer Natural Resources, Shell and TRP Energy	Meas. Continuous Monitors	Onshore Prod	Test of Scientific Aviation's SOOFIE (Systematic Observations of Facility Intermittent Emissions) system, an affordable ground-based technology that measures methane emissions 24 hours a day. The tests will be conducted in Colorado, New Mexico and Texas starting in March 2021.	Link	The data and results will be made available to the industry, regulators and the public through publication in a peer-reviewed journal. Soofie is also being tested at Proj Astra
March 2021	HYBLEND November 2020	OTHER	Transmission & Storage	HyBlend Project To Accelerate Potential for Blending Hydrogen in Natural Gas Pipelines.	Link	NREL Will Lead Multi-Lab, Multi-Industry R&D Effort To Overcome Technical Challenges.
March 2021	Offshore Flare Efficiency Project	Mitigations	Onshore Prod	Work by Providence Photonics and operators		Field work done. Publication expected.
March 2021	International Methane Emissions Observatory (IMEO)	OTHER	ALL	Still in planning. UNEP and the European Commission are also finalizing plans to set up an independent International Methane Emissions Observatory (IMEO).	Link	IMEO will aggregate and analyse multiple methane emissions data streams, including data reported by OGMP member companies, to accelerate reductions in methane emissions globally. By assisting industry and governments globally in addressing uncertainty related to reported emissions, the Observatory will improve the consistency and credibility of methane emissions data and accelerate mitigation actions.
March 2021	X Prize Foundation January 21, 2021	OTHER	ALL	100 MS innovation prize will be awarded for the best technology created for removing carbon dioxide directly from the atmosphere or oceans and store that carbon in a safe, cost-effective way.		Elon Musk donated the 100 MS
March 2021	Whitepaper of Leak Detection and Localization methods [in progress Feb 2021]	Measurement Techniques	Onshore Prod	GTI project for EDF		May feed into discussions around Existing Source regulations
March 2021	Canary pilot project with EQT to produce Responsibly Sourced Natural Gas January 28, 2021	Meas. Continuous Monitors	Onshore Prod		Link	EQT asked to present
March 2021	LNG Ship Methane Measurement	Quantification	LNG Import/Export	GTI CAMS funded		Planned for Q1 2021, results late 2021 Future trips may follow.
March 2021	DOE's Advancing Development of Emission Detection (ADED) field trial	Policy	Onshore Prod	Deploy multiple leak detection and quantification (LDAQ) solutions contemporaneously at selected oil and gas (O&G) facilities. Objectives: 1. Develop and test protocols that reliably assess LDAQ solutions at a controlled test facility; 2. Develop protocols for field trials and conduct a comprehensive, multi-solution, field trial including a range of facility types; 3. Advance the state of solution testing to be scientifically rigorous, affordable, repeatable, and adaptable to field conditions, and make this knowledge generally available to all stakeholders; 4. Propose test standards from the results of Objectives 1-3 that can be adopted and adapted by (a) state and federal regulatory agencies for regulatory approval of LDAQ solutions, and by (b) operators for internal emissions-mitigation efforts.		Awarded to CSU, UT, HU
March 2021	Oil and Gas Methane Partnership (OGMP) and the UNEP-led Climate and Clean Air Coalition's (CCAC's) Mineral Methane Initiative (MMI)	Policy	ALL	Expected to update the 2009 version. T&S review period over. Staggered reviews, so other sections coming, like LNG.	Link	promoting this as "The Case for a new Gold Standard in Methane Emissions Reporting" ...
March 2021	API Compendium Update (coming soon)	Overall Inventory	ALL	7 page proposal. Companies that use RNG would report volumes to EPA. EPA is trying to incorporate into the BMP option. KM suggests it could also be for the ONE Future option.		Expect to update by mid-2021
March 2021	EPA changes to the Methane Challenge: Continuous Improvement Document - RNG	OTHER	ALL		Link	Comments due 10/30/20 to EPA
March 2021	DOE ARPA-E "Reducing Environmental Emissions Everyday of the Year" (REMEDY)	Mitigations	ALL	March 1, 2021 FOA: 3 year, 30 million \$ program to abate methane emissions from oil and gas production. System-level solutions. Focus on 3 areas: 1) Methane slip from natural gas-fired lean-burn engines, nominally 2-5% of feed methane 2) Flares used for safe operation in oil and gas upstream and midstream sectors, which have a nominal destruction efficiency of 98% but may be operating at lower efficiency 3) Ventilation air methane, exhausted from operating underground coal mines with no methane abatement DOE seeks transformative and implementable technologies that could: (a) Prevent anthropogenic methane emissions (Examples: abandoned coal mines and oil and gas wells; plugged oil and gas wells; uncontrolled landfill gas; and agricultural-related emissions from farming and ruminants. Emphasis will be on preventing energy-related emissions. (b) Abate methane emissions at the source (e.g., waste, leaks, air: 1:1) (c) Iris is a microsat aimed specifically at methane. Data by subscription. Superior to "Clair" their previous "demonstration" microsat for methane.	RFI available at Link	RFI responses 11/20 - GTI responding on behalf of LCRI and others. - Project Astra responded Jack Lewnard Program Director, ARPA-E 202-287-5479 jack.lewnard@hq.doe.gov Maruthi N. Devarakonda, Ph.D. Support Contractor to ARPA-E 906.370.9427 [M] maruthi.devarakonda@hq.doe.gov
March 2021	GHGsat launches "Iris" 9/2/20	Meas. Satellites	ALL		Link	First data expected in next few weeks.
March 2021	LCRI initiative by GTI/EPRI Late 2020	OTHER	ALL	Low Carbon Resources Initiative. 5 years 33 sponsors, 100 MS (Feb 2021)		Webinar from 9/1/20, new webinar 9/15 RFI issued, due Oct 28 RFP expected Q2 2021 Applications due 10/20/20 No word on awardees yet, but they have been notified.
March 2021	OGCI Investments	Mitigations	ALL	Annual technology investment program		Addressing EDF claim if 80% underreporting. Williams, EQT, are participants. Scientific Aviation. Suspended until Spring 2021 because of CV-19
March 2021	Methane Drone Study PA DEP.	Quantification	Onshore Prod	Using grant money from EPA, 8 counties in PA, 16 facilities, quarterly for 4 quarters. Starts August 2020.		
March 2021	EDF Permian MAP	Overall Inventory	Onshore Prod	Permian Basin Methane Measurement Project	Link	
March 2021	Hiflow Generation 2 Design	Quantification	ALL	Generate an open source design for a new Hiflow		CARB, CSU SLR
March 2021	OGCI & IPECA & IOGP - Recommended Methane Detection and Quantification Practices -	Measurement Techniques	Onshore Prod	Develop a set of recommended practices to provide the O&G industry with a framework		SLR, CSU, UT, HU, product late 2021
March 2021	Project Astra	Meas. Continuous Monitors	Onshore Prod	Permian Basin continuous measurement project	Link	Presentation to ONE Future by Dave Allen on 8/6/20
March 2021	Flarenet (NSERC) (Canadian, from 2016)	Mitigations	ALL		Link	Aims at many industry flare types, including upstream production
March 2021	Global Gas Flaring Reduction Partnership (GGFR) World Bank	Mitigations	ALL / OTHER		Link	working to end routine gas flaring at oil production sites across the world.