

For Immediate Release:

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Loci Controls, Inc. and American Carbon Registry Develop New Carbon Market Incentives to Reduce Methane Emissions from Large Landfills

Methodology Quantifies Benefits of Automated Landfill Gas Control Technology to Generate Carbon Credits and Reduce Greenhouse Gas Emissions

(Wareham, MA) June 3, 2021 – Loci Controls, Inc., the leader in automated landfill gas (LFG) collection, announced today that the American Carbon Registry (ACR) has approved a new methodology for monitoring, reporting and verifying greenhouse gases (GHG) collected using new technology at large landfills in the U.S. The methodology seeks to incentivize the deployment of Automated Landfill Gas Control Technology, which would allow landfills to go above and beyond existing regulations to prevent the release of methane and other GHGs into the atmosphere, offering the potential for hundreds of millions of tons of additional emission reductions over the next decade.

Landfills that are not required to install a gas collection and control system have been eligible for some time to generate carbon offsets. ACR’s methodology update allows for additional methane capture afforded by voluntary installation of automated landfill gas control beyond regulatory requirements.

The new ACR standard – “[*Methodology for the Quantification Monitoring, Reporting and Verification of Greenhouse Gas Emissions Reductions and Removals from Landfill Gas Destruction and Beneficial Use Projects, version 2.0*](#)” – has the potential to accelerate the adoption of Automated Landfill Gas Control Technology for a large number of landfills due to the opportunity to generate carbon finance from the sale of carbon offsets to voluntary corporate buyers and to airlines for meeting requirements under the International Civil Aviation Organization’s global carbon market. The updated methodology was approved after a public comment period in July and August 2020, and a six-month scientific peer review process.

“The opportunity to reduce greenhouse gas emissions and generate carbon credits through Loci’s Automated Landfill Gas Collection services will help cover the costs to install state-of-the-art gas collection technologies for a large number of landfills,” said Peter Quigley, chairman and CEO of Loci Controls, Inc. “In addition to the benefits of reduced GHG emissions, increased productivity, and reduced Environmental, Health and Safety (EHS) risks, it is now possible to generate additional sources of revenue for landfill gas to energy projects.”

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At a typical landfill gas collection system where Loci Automated Control Technology is used, 50,000 Tons per year of emission reductions are expected, equal to the emissions annually of over 10,000 passenger cars. If this methodology were applied at the 1,000 largest landfills in the country, it could produce emissions reductions of 50 Million tons a year of CO₂ equivalent.

Landfills are filled with organic material. When that organic material decomposes without oxygen it generates both carbon dioxide and methane, a potent greenhouse gas that has 28 times the warming power of CO₂ over 100 years and 84 times the warming power over the first 20 years after it reaches the atmosphere.

The EPA estimates that landfills are the third-largest source of emissions in the United States, accounting for 15.1% of the country's methane emissions in 2019, equivalent to the annual emissions from more than 21 million passenger vehicles. Regulations under the Clean Air Act require landfills of a certain size to install and operate a gas collection and control system.

Currently, these systems are manually operated through a process known as well-field tuning. Once a month, a technician is required to measure the gas composition, flow, temperature, and pressure at each collection point at a landfill, and to make adjustments to reduce the methane emissions being leaked into the atmosphere.

Automated Control Technology works by installing a cellular connected sensor system that takes hourly measurements and uses cloud-based computing to automatically make small valve adjustments to continuously reduce the emissions of methane and other GHGs and optimize the collection process.

Margaret Williams, ACR's technical director, said that when used appropriately, carbon markets create incentives for additional climate action that would not have taken place otherwise.

“The new ACR methodology has been developed to create financial incentives to deploy new technology that will help landfills maximize collection and minimize emissions,” she said. “Until now, carbon credits could not be generated on landfills that are required by regulations to install and operate gas collection and control systems. As a result, some of the largest landfills in the United States were not eligible to participate in voluntary carbon credit markets related to landfill gas collection.”

This methodology creates an avenue to provide credits for landfills that go beyond those regulatory requirements with advanced technologies and more efficient capturing.

The new methodology contains requirements for eligibility, monitoring, qualification and accounting of carbon offset credits so that, for the first time, these large landfills can create projects using Automated Control Technology that improves gas collection over standard manual well-field tuning methods and current capture using technologies that meet regulatory requirements.

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In addition to the climate benefits of the approach made possible by Loci technology, there are substantial co-benefits as well. Many large urban landfills are in proximity to communities that have the lowest income, lowest value housing, and are often have a high density of underserved/under-represented populations. The technology reduces the amount of time landfill personnel have to spend in the landfill itself, which is often a dangerous environment to work in; it reduces odors associated with emissions; and it also reduces Non-Methane Organic Compound emissions, which have adverse human health consequences.

Demand for carbon credits is increasing worldwide as leading corporations, states, and the Federal Government announce climate change strategies. This year alone, companies as diverse as Microsoft, Unilever, Delta Airlines, BP and Ikea have announced plans for operating carbon neutral or carbon negative. Several states from California to Maine have made pledges to be carbon neutral between 2035 and 2045, and under the new Biden Administration, the Federal Government has announced plans for the US to be carbon neutral by 2050. The new ACR methodology will provide an opportunity, through the use of Loci technology, to meet some of this anticipated growth in demand for voluntary carbon credits.

About Loci Controls, Inc.

Loci Controls, Inc is the leader in automated landfill gas collection designed for Renewable Natural Gas projects and high value LFG to electric projects. Loci supports its customers by providing 24/7/365 monitoring, measurement, analytics and control of landfill gas collection system, improving operations and mitigating environmental, safety and health risks. From Loci's first RNG operation in 2017, this new technology has been gaining rapid adoption, and now is being used on 13 out of the 67 operational landfill RNG projects in the United States. Loci's products and services are covered by 13 issued US patents, with additional United States and international patents pending.

About the American Carbon Registry

American Carbon Registry (ACR) is a leading nonprofit carbon crediting program recognized for its strong standards for environmental integrity and its quest to innovate. Founded in 1996 as the first private voluntary offset program in the world, ACR has a quarter century of unparalleled experience in the development of rigorous, science-based carbon offset standards and methodologies as well as experience in carbon offset project registration, verification oversight, offset issuance and operation of a transparent registry system. ACR is also an approved Offset Project Registry (OPR) for the California Cap-and-Trade program, the first economy-wide Cap-and-Trade program in the United States and is approved by the International Civil Aviation Organization (ICAO) to supply credits to airlines for use in the Carbon Offsetting Reduction Scheme for International Aviation.

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