Qnergy proven to achieve 100% methane destruction efficiency

Independent testing proves Qnergy's technology delivers useful power with 100% efficiency of methane destruction.

OGDEN, UT, UNITED STATES, November 3, 2022 /EINPresswire.com/ -- Ogden, Utah, November 3, 2022, Qnergy Inc., a proven methane abatement solutions provider and foremost manufacturer of clean, reliable, electric power utilizing Stirling engine technologies, announced independent validation of its superior methane destruction performance.

The competitive study was sponsored by CanERIC, the Canada Emission Reduction Innovation Consortium of researchers and end-users dedicated to developing, validating, and employing technologies for critically needed, novel, high performance, and cost-effective technologies to address the global emissions reduction challenge.

The project, Electrical Generation Technology Showdown, tested the performance of six technology product offerings on methane destruction efficiency. Qnergy was the only product tested to achieve 100% methane destruction under test conditions (see Table).

Technology	Flowrate	Inlet Gas Flow (m^3/d)	Exhaust Flow (m^3/d)	Inlet Methane (kg/h)	Outlet Methane (kg/h)	Methane destruction efficiency (%)
PowerGen 5650	Test 1	30.7	43.0	0.817	5.29E-05	99.99
	Test 4	117.2	74.1	3.13	0.000132	100.00
M1.5	Test 1	7.4	6.78	0.194	0.00994	94.86
	Test 3	13.8	9.12	0.366	0.00971	97.30
M5	Test 1	25.1	44.6	0.658	0.0568	91.36
	Test 4	41.4	105.5	1.08	0.131	87.90
EPOD 6XL	Test 2	65.5	56.3	1.70	0.051	96.95
	Test 5	81.1	53.1	2.02	0.042	97.99
C65	Test 1	223	686.4	5.81	0.00327	99.94
	Test 4	535	1223	14.2	0.000999	99.99
COREMO	Test 4	16.2	18.6	0.421	0.0069	98.37
	Test 4	15.1	22.0	0.394	0.0182	95.34

CERIN Independent test results showing Qnergy achieves 100% methane destruction.

Qnergy's innovation award nominated PowerGen 5650 undergoing CERIN testing.

In addition to high operating costs to maintain, traditional internal combustion engines (ICE) suffer from “methane slippage,” the release of methane into the atmosphere. Over time, this methane slippage is significant, along with the release of other greenhouse gases due to incomplete combustion.

Solving the distributed methane challenge

Qnergy, with its novel, non-rotary, no lubricant, no OpEx required, innovative and award nominated, free piston Stirling engine technology, offers many advantages over ICE solutions in providing the best in class GHG abatement performance and useful power wherever needed.

”We are proud for being able to prove our ability to completely turn methane into useful energy without any ‘methane slip’” said Ory Zik, Qnergy’ CEO. “While it may be non-intuitive, at a global warming factor of 85 every pound of methane is translated to 85 pounds of carbon dioxide equivalent,” he added.

About Qnergy
Qnergy (q-ner–gy) provides the methane-abating power solution of tomorrow, proven, and deployable today. The technology is based on a linear ‘Free Piston’ Stirling Engine with no rotating parts. Qnergy converts otherwise emitted methane from gas fields, landfills, wastewater, and farms, into useful energy. For more information about our innovative climate technology solutions visit: www.qnergy.com.

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