

## European Solar and Energy Storage Solutions

# Qnergy micro chp New Caledonia



## Overview

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What is qnergy micro cogeneration (CHP)?

**QNERGY MICRO COGENERATION (CHP)** The Qnergy micro Cogeneration (Micro CHP) unit is designed to provide both heat and power for light commercial or large residential applications. This innovative product uses an advanced technology to satisfy the energy requirements of the facility and do it quietly, efficiently, and with ultra low emissions.

How does qnergy reduce methane emissions?

Qnergy offers end-to-end solutions to eliminate methane emissions at distributed sources Qnergy provides cost-effective hardware and software that mitigates methane emissions at the source, typically by turning waste methane from oil and gas operations, closed and open landfills, and livestock farms into useful energy.

Does qnergy sell my personal information?

Do not sell my personal information. Qnergy powers methane abatement by converting methane into useful energy and providing clean, reliable power anywhere, anytime.

Does qnergy use cookies?

Qnergy's solutions provide continuous remote electricity for your mission-critical applications. We use cookies on our website to give you the most relevant experience by remembering your preferences and repeat visits. By clicking "Accept", you consent to the use of ALL the cookies. Do not sell my personal information.

What are Yanmar micro cogeneration units?

**YANMAR** Micro Cogeneration units use Natural Gas or Biogas to produce electricity on site and transform waste heat into space heating, domestic hot water or process heat depending on each site's power and heating

requirements.

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### The Micro-CHP Technologies Roadmap

fuel diversity, energy assurance) This document, The Micro-CHP Technologies Roadmap, is a result of their deliberations. It outlines a set of actions that can be pursued by both the government and industry to develop mCHP appliances for creating a new approach for households to meet their energy needs. It consists of three main action areas:

### Natural gas and biogas complete Cogeneration range

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### How does microCHP

## technology work in homes and businesses?

Domestic and SME applications for microCHP. For domestic and small to medium enterprise (SME) applications, the microCHP unit in your home or business will do much the same as the larger scale CHP methods but on a much smaller scale. As previously mentioned, at an industrial scale, a vast amount of energy is wasted, both in its creation at the power plant ...



## Micro CHP Markets & Opportunities

Micro CHP Technologies Much of the technology information to follow is courtesy of ESC's DG Consortium, from a Micro-CHP Study prepared by DE Solutions.

- o 20 Manufactures of Micro-CHP identified
- o 4 Micro CHP technologies are commercially available in North America at present.
- o 4 Products are undertaking trials or working on North

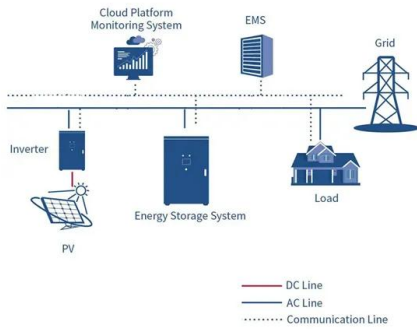
## TECHNOLOGY SNAPSHOT

CHP in their net-metering programs and the EPA's Energy Star Program recognizes mCHP. With favorable outlooks for domestic natural gas prices, and residential and commercial markets anticipating "smart grid" and micro-grid applications, mCHP technologies could be poised for greater market impact in the future.



## QNERGY MICRO COGENERATION (CHP)

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technology to satisfy the energy requirements of the facility and do it quietly, efficiently, and with ultra low emissions.

## Energy efficient, flexible and controllable Micro-CHP systems are ...

Energy efficient, flexible and controllable Micro-CHP systems are being installed in the UK now. Micro-CHP (micro combined heat and power) is a term referring to a group of technologies that generate both heat and electricity. Like a normal boiler these micro-CHP units can provide heating for your home or office, hot water and electricity as well!



## MICRO COMBINED HEAT & POWER

The Qnergy micro Combined Heat and Power (MICRO- CHP) unit is designed to provide both heat and power for light commercial or large residential applications. This innovative product uses advanced technology on-site to satisfy the energy requirements of the facility and do it quietly, efficiently, and with ultra low emissions.

## MicroCHP , Axiom Energy Group , United States

Our current system uses heat generated by an internal combustion engine to produce thermal



burner for micro-CHP applications. A Stirling engine uses a working gas housed in ...



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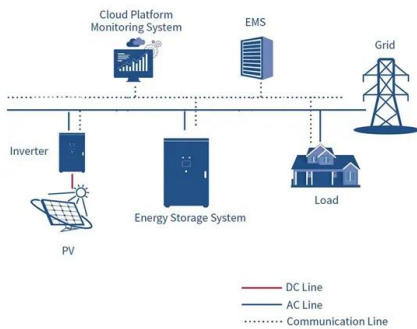
## Stirling Engine

The Infinia engine previously formed the basis of the ENATEC micro CHP unit, a joint venture between the Dutch utility ENECO, ECN and appliance manufacturer ATAG. In 2013, Infinia was acquired by Qnergy. The Disenco unit is a kinematic design with an electrical output of around 3kWe, significantly higher than the other products.



## American Superconductor (AMSC) , [arpa-e.energy.gov](http://arpa-e.energy.gov)

American Superconductor (AMSC) in collaboration with team members Qnergy, Alcoa Howmet, Gas Technology Institute (GTI), MicroCogen Partners, and A.O. Smith Corporation will develop a Free-Piston Stirling engine (FPSE) powered by an ultra-low-emissions natural gas burner for micro-CHP applications.



## 5 W mCHP Stirling Engine Qnergy

Qnergy is a spin-off of Ricor, a world leader in Stirling devices. Ricor's proven technology has more than 30% of the global market share for space and defense applications. Ricor manufactures 10,000 Stirling devices annually. 148 Who we are...

## CAP Methane Mitigation Success Story

TotalEnergies has decided to install this new technology by deploying 100 units on the Barnett field in 2021 and 2022. The deployment of 300 additional units throughout the field will reduce methane venting emissions from pneumatic devices by approximately 7,000 tons of methane a year by end 2024. Qnergy's compact CAPM and Nano packages



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