




Annual Conference RES4MED

Rome, May 19th 2016



Green electricity and heat cogeneration



Since 1995 renewable energy

for sustainable development



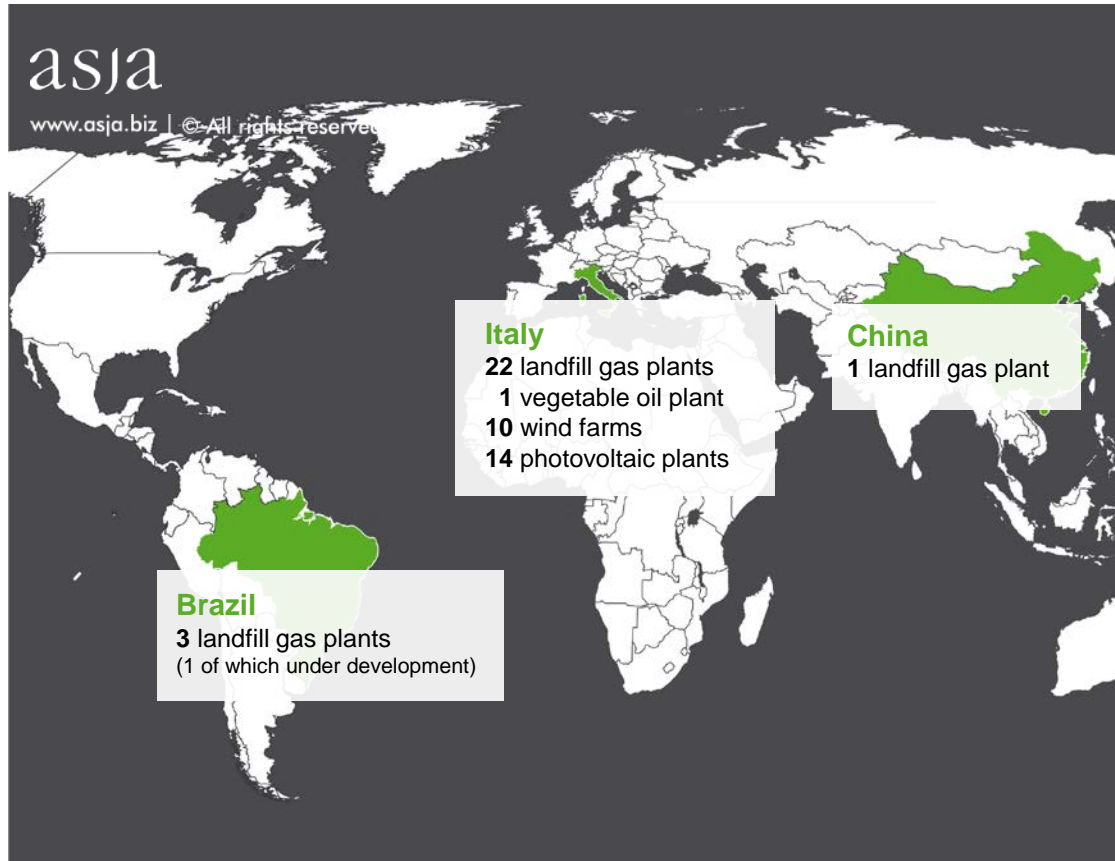
Asja is an international group of companies working in the field of **renewables**, **energy efficiency** and **CO₂ reduction**.

Established in 1995 Asja designs, builds and operates cutting-edge renewable plants, in Italy and abroad.

Asja also operates in the energy efficiency sector developing and marketing the **TOTEM**, a high-efficiency micro-cogeneration (micro-CHP) unit.

The 51 Asja's plants

211 MW installed power



581,000 MWh

green energy produced

1,560,000 tons

CO₂ avoided

940,000

oil barrels saved

860,000

people enjoying clean lighting
thanks to our green energy

Data refer to 2015 production

Asja & RES4MED

asja

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Development of clean energy and sustainable solutions in Mediterranean countries and in Sub-Saharan Regions.

Bringing sustainable and reliable electricity to off-grid areas.

Involving local people in the value chain by creating new jobs and knowledge.

- **Biogas plants**
- **Micro-CHP**

Biogas plants [1/2]

21 years of experience



Asja, thanks to its **21 years of experience** in the field of renewables and energy efficiency, can contribute to the development of both large- and small- scale **projects for on- and off-grid power solutions**.

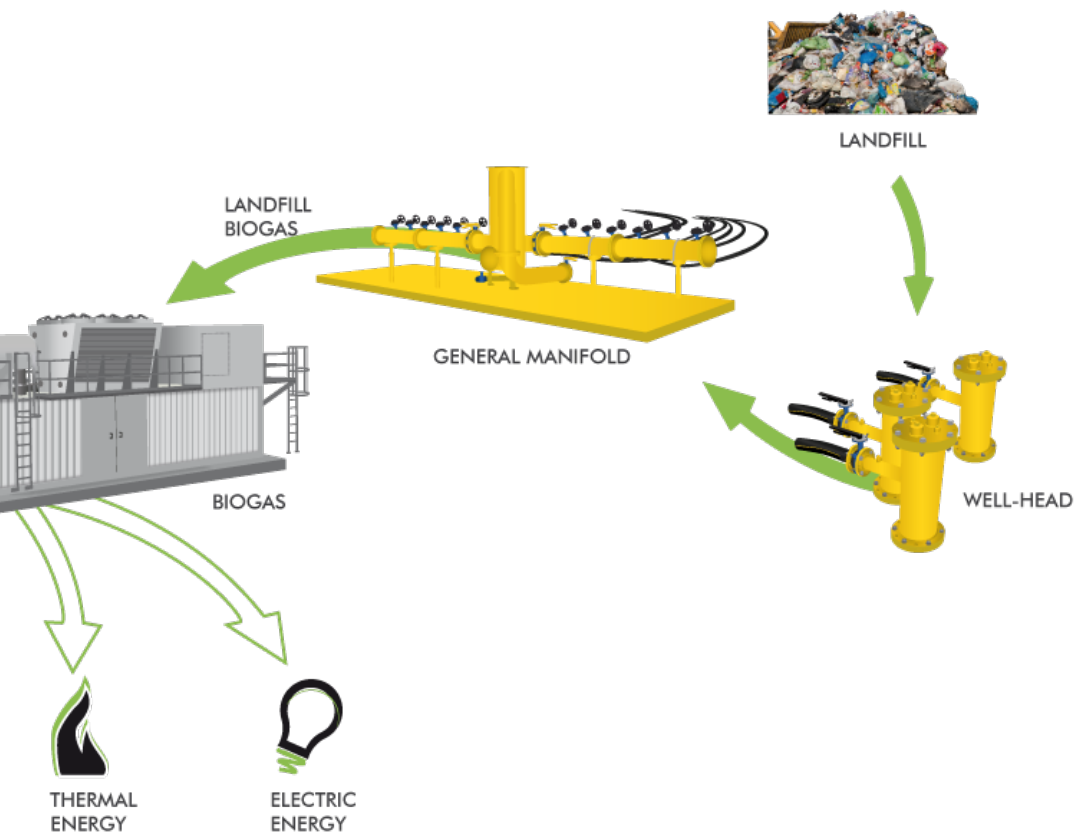
Asja designs, builds and operates plants to produce **electrical** and **thermal energy** by using biogas originated from **landfill** or **anaerobic digestion** of organic waste.

Biogas plants [2/2]

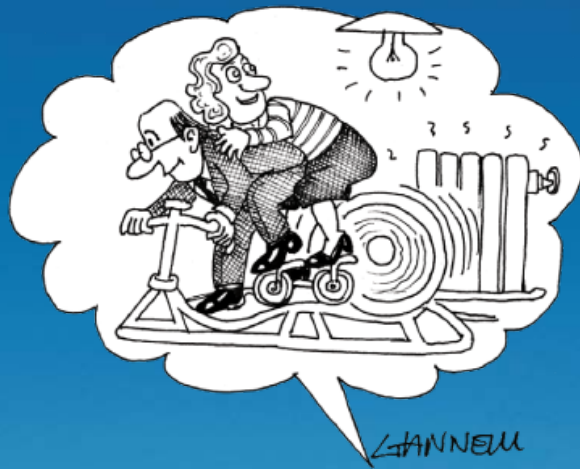
ANAEROBIC DIGESTION PLANT



LANDFILL GAS PLANT



TOTEM micro-CHP [1/3]



TOTEM
asja group

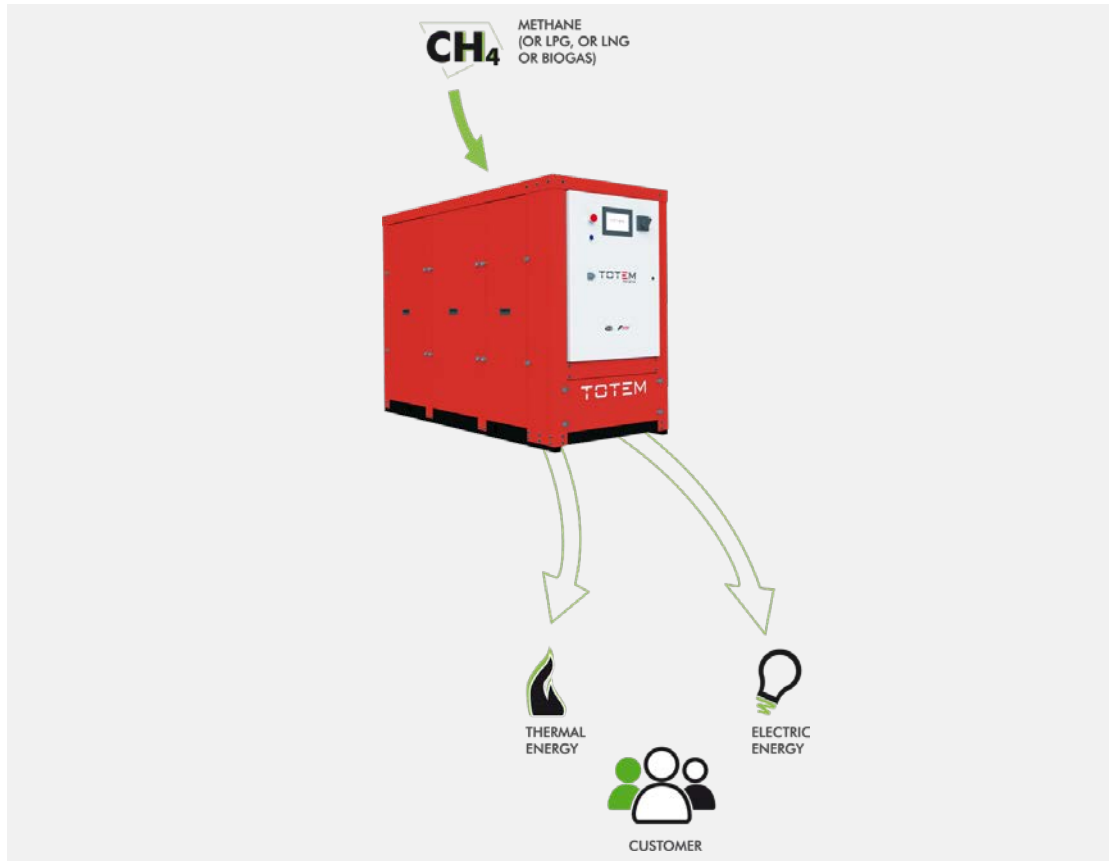
TOTEM is a high-efficiency micro-cogenerator powered by LPG (Liquified Petroleum Gas), LNG (Liquified Natural Gas) or methane that produces **heat** and **electricity** while protecting the environment.

Some technical details about TOTEM:

- NOx and CO emissions: **95% lower** than those of **condensing boilers**
- Rated electric power (kW): 10, 20, 25
- Rated thermal power (kW): 22, 42, 50
- Dimensions (cm; h x w x l) 128x78x181

TOTEM micro-CHP [2/3]

In collaboration with



TOTEM consists of an internal combustion engine designed to be fired with gas, coupled with an alternator for power production: the heat otherwise wasted is recovered from exhaust exchanger system. Such a process is highly **efficient (up to 100%)** and enables the production of low cost heat and power for **on- and off-grid solutions**.

Technological cooperation with **Fiat Chrysler Automobiles**, **FPT Industrial** and **Magneti Marelli** allows TOTEM to benefit from the latest innovations in the automotive sector.

TOTEM micro-CHP [3/3]

Where to install it



- **healthcare**
small hospitals, retirement homes
- **public**
schools, office buildings
- **residential applications**
condos, apartment blocks, detached houses
- **tourist accommodation**
hotels, resorts, camping sites, sport complexes, restaurants
- **agricultural sector**
dairy factories, farming businesses
- **distribution**
supermarkets, shopping centers, car dealerships



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Thank you

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