

Combined Heat and Power District Heating



**Francesco
VALLONE**

Founder and CEO,
Cogenpower

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Départements de Mécanique

A supporter of the energy transition

The energy transition is the shift operated by several countries to sustainable economies by means of renewable energy, energy efficiency and sustainable development. The final goal is the abolishment of coal and other non-renewable energy sources, considered the cause of harmful pollution and greenhouse effects. The term energy transition designates a significant change in energy policy and during the presentation an attempt to frame it during a time span of several decades will be given, with a special focus to the Italian situation.

Within this context, we will show the advantages of using very efficient technologies such as combined heat and power generation together with district heating network (CHPDH) to which residential buildings, public facilities and commercial or industrial sheds could be connected.

These schemes can reasonably be part of a district with less than 50,000 people and can be proved to achieve efficiencies well above 90% and therefore able to use natural gas in a very efficient way; besides, these schemes can also straightforwardly accommodate renewable sources. Usually, these schemes present electrical power generation between 2-20 MW and thermal power capacity between 15-100 MW.

Cogenpower is an alternative energy engineering company specialized in combined heat and power district heating network for cities with less than 50,000 people using heat storage and smart metering technologies to achieve system efficiencies above 90%.

Conférence de l'Institut Coriolis pour l'Environnement de l'École polytechnique



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