



MADE IN ITALY

Energy Everywhere

# special solutions

Gas and Diesel Cogeneration

EMERGENT

**Ascot** 

Energy Everywhere

SPECIAL SOLUTIONS



### SPECIAL SOLUTIONS

GAS AND DIESEL COGENERATORS



### TYPICAL USERS AND ADVANTAGES

Cogeneration systems are widely used in civil applications and especially in such industries where the self independency from any external electrical source to generate power, heatings, steam and air conditioning becomes an advantages to perform savings.

*The systems permits to generate, but not limited to:*

- Electric Power
- Hot water for heating
- Hot water to warm up swimming pool
- Hot water for sanitary use
- Hot water for general use
- Steam for different applications
- Cold water for conditioning
- Hot air for drying purposes

## SAVE YOUR MONEY USING ENERGY LOSSES

Cogeneration systems are the right technological solution to fullfill the **KYOTO** objectives. Cogeneration means to **SAVE ENERGY** , reduce the emission of CO2 in the atmosphere and to reduce the operation costs. Cogeneration systems permit to convert the heat coming from the cooling system and from the exhaust gas of the

engine into new renewable energy cost free. Such recovery, permits to a cost free production of hot water for sanitary use, steam, heating or summer air conditioning. The saving performed is double the value of the electrical power produced.





# COGENERATION

## ASCOT COGENERATOR PRODUCTS

COGENERATION means combined and simultaneous production of electric and thermal energy with a higher efficiency than separate production of the same quantity of energy with standard technologies. Grounding of this technology is a gas endothermic engine that drives a generator for production of electricity and in the same time the thermal power is recovered from exhausts



gas and from engine cooling system, it is used either in the production process or for building heating. Different fluids can be used for the recovery and use of thermal power: hot water, overheated water, steam, diathermic oil, hot air. The combined effect due to the greater power efficiency and the less purchase of electricity permits to obtain sensitive money savings, which makes the investment surely fruitful.



# TRIGENERATION

## ASCOT TRIGENERATOR PRODUCTS

Many Industries and almost all the tertiary sector need ever increasing quantity of cooling power for production processes and air conditioning. For long time this form of energy has been produced by traditional cooling plants fed with electricity. An alternative solution is to use the heat yielded by a cogenerator in order to produce cooling power as well employing particular machines known as absorption chillers.



**Such solution finds its realization in a plant that yields 3 forms of energy (hence TRIGENERATION):**

1. electric energy;
2. thermal energy;
3. cooling energy

Only absorption chillers can emit cold using heat, instead of electricity, as primary energy; they use a binary mixture lithium bromide/water as vector for the cooling fluid.





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