



# WASTE-TO-ENERGY

Innovative energy and water supply concept







## NATURAL SOURCES AND WASTE REDUCTION

### WASTE-TO-ENERGY

Our lesson learnt from the renewable energy sources act in Germany and further programs supported by the german ministry of education and research and the german ministry of economy led to a waste-to-power initiative within the emma technologies energy program.

The proven HPS - Hydrogen Pyrolyse System is heading into the direction of innovative applications offering different solutions.

Following the global discussions and needs the most important approach amongst others is the PLASTIC-TO-POWER System.

Our goal remains the innovative and successful implementation of green technologies allowing to increase socio-economic benefits and save the environment.



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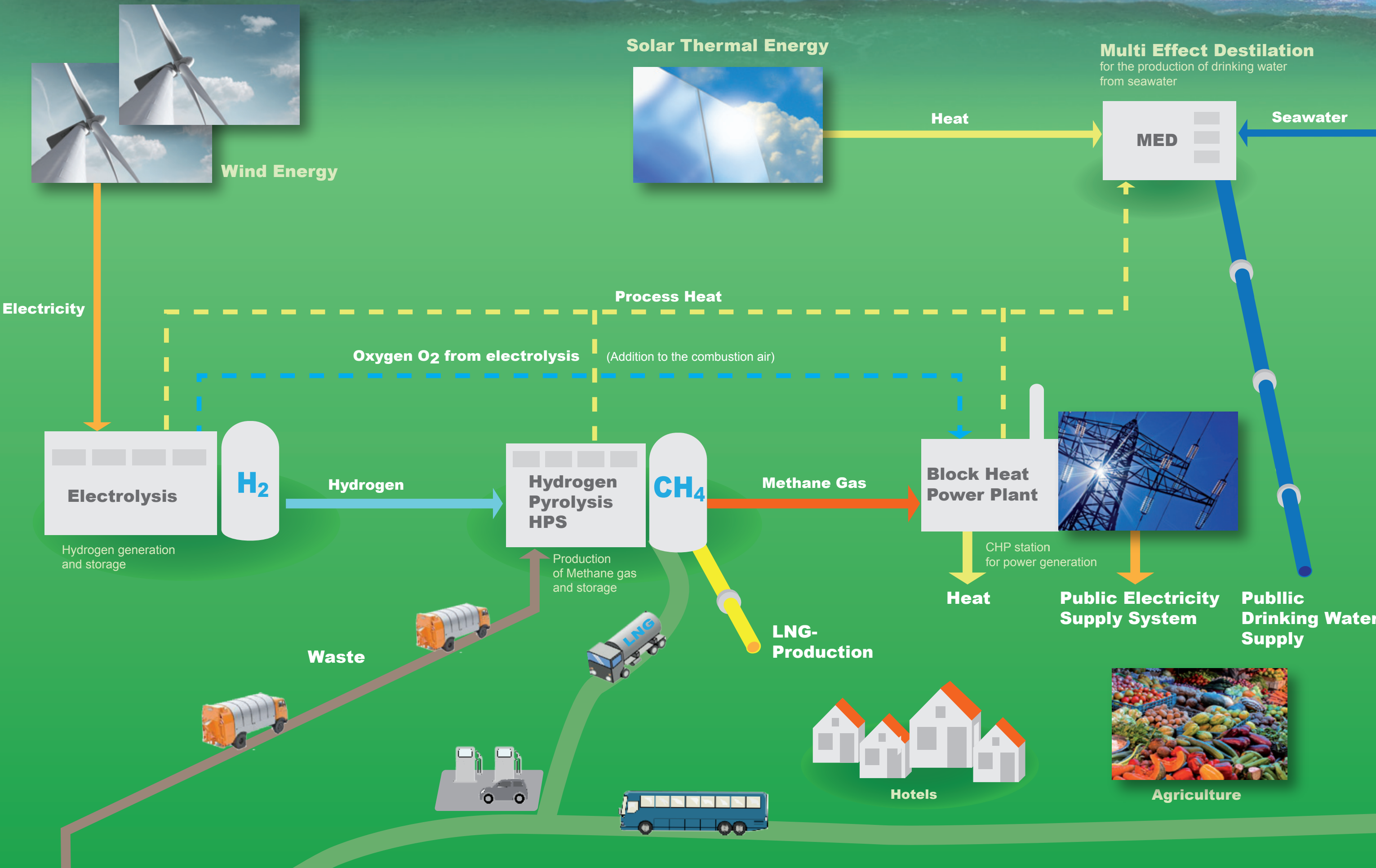
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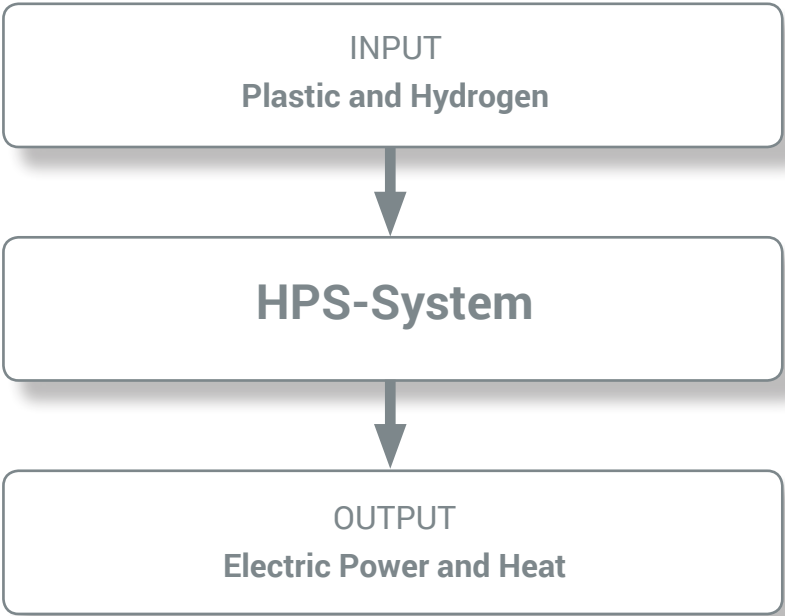
THE GLOBAL NEED

Waste-to-energy systems comprise different system set-ups, each individually adjusted to the waste composition.

The main directive driven by the global need for substantial and sustainable solutions is the PLASTIC-TO-POWER SYSTEM.

The only solution today to achieve PLASTIC-TO-POWER is the HPS – Hydrogen Pyrolyse System. This system is a key component of an integrated approach, gasifying hydrogen (electrolysis) and carbon (plastic waste) in order to produce methane (CH<sub>4</sub>). Methane is ideally suited for storage and further power generation by block heat power plants.

For the first time this innovative method generates energy out of waste as shown below.



SOCIO-ECONOMIC BENEFITS





# JOINT FORCES - ONE MISSION - GREEN FUTURE



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