

## GEOHERMAL ENERGY: Status and Future in the Peri - Adriatic Area



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### How heat pumps work: criteria for heat sources evaluation

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The presentation starts dealing with the basic thermodynamic principles of heat pumps, focusing on the main parameters describing their performances, like COP, EER etc. A brief description of compression and absorption HP is provided.

Then it describes their main components and their influence on the performance parameters. Some details about the operating fluids are also given, stressing how their properties are closely connected to the HPs use for real applications.

In addition the power sizing criteria are discussed with regard to the choice of the Balance Point and Backup generator.

A description of the different external sources follows, together with their appropriate sustainable utilization.

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Figure 1: P. CONTI

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