Abstract

This paper describes a new technique coupling between two mains parts which are geothermal energy and solar energy in order to product electricity and to create a comfort in intelligent buildings. The first parts consists extraction of heat water from geothermal source at the temperature of 95°C (Guelma), for injecting it in solar panels in order to increase the temperature of the water until 600°C for production of electricity and hydrogen. Moreover, the selection of geothermal energy is for only two reasons. In one hand; is to generate heating system in winter and cooling system used by absorption machine in summer. In the other hand is to develop of the local production of electricity and hydrogen at the same time. Finally the principal objective is to provide energy efficiency in intelligent buildings and distribution of electricity in the grid. Another aim is to minimize loads during production of electricity.

References

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Index Terms

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