

## **SHERPEC – Hybrid System of Renewable Energies for production of Electricity and Climatization**

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### **Abstract**

The objective of this paper is to provide a description of a Hybrid system of renewable energies for electricity and climatization production..

The SHERPEC project provides energy to a standalone remote telecommunications site trough solar, wind, fuel cell electric generators and a solar thermal system. In the case of lack of sun and wind, its autonomy is assured by a bank of batteries and/or hydrogen tanks (high and low pressure). In the case of excessive electric energy production, the remaining will be used to produce hydrogen (through water electrolysis) that is stored for future use in the fuel cell.