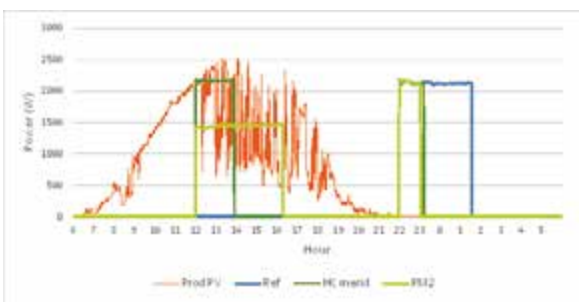
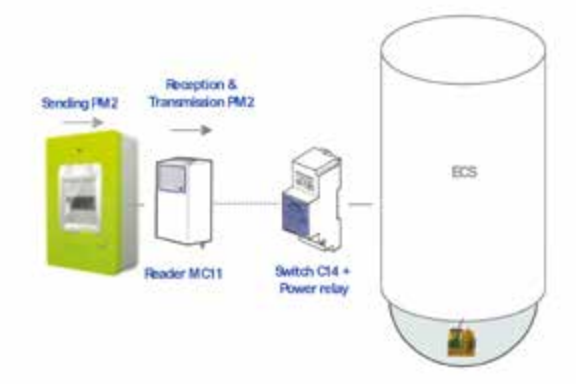
POWER AND TEMPERATURE MODULATION OF ELECTRIC HOT WATER TANK

In France, electric hot water tanks represent a real opportunity to regulate the problems caused by non dispatchable renewable energy sources (storage ability and high diffusion rate). In particular, they can contribute to solve local problems such as overvoltage due to massive insertion of photovoltaic panels. However their current control mode is not optimal regarding to the flexibility needs. The innovation consists in increasing their temperature set-point and reducing their power consumption to limit the peak of PV injection on the grid.





In 2016, the continuous power modulation will be experimented.

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