

## WISENSE

30 November 2012



*Wireless sensor network technologies, redundant, fault tolerant and reliable, aimed to monitor air conditioning systems.*

*Applicant: Eurix Group*

*Project Duration: 24 Months*

*Project Partners:*

- **Capetti Elettronica S.r.l.**
- **Politecnico di Torino - Electronics & Telecommunications Dept.**
- **Politecnico di Torino - Energy Dept.**

The technological scenery of reference is the Wireless Sensor Network (WSN) and the application dominion is tied up to the definition of an application profile that integrates an innovative methodology of applicable energetic metrics to the fields for heating, cooling/climatization, district heating and electric.

The wireless technology is not a novelty in plant field, the oil companies use it for a long time for remote monitoring of the oil fields and their behaviours, nevertheless the wireless technology isn't adopted in a diffused way even if the wiring results to be expensive and of difficulty realization.

The information transmission in the systems of control and monitoring of civil plants results today submitted to wired systems, nevertheless the integration of wireless transmission systems results interesting in the monitoring of energetic consumptions.

The methodology conceived within the project will allow to achieve the energetic diagnosis ("energy auditing") of the plants using the WSN technology, to realize a true energetic saving from public and private administrations, town firms, insurances, energy manager, enterprises, professionals, managers, advisors and asset manager of the real estate sector.

At the same time such activity will be of support to the inspection actions for energetic certification foreseen from the regulations in force.

<http://wisense.wix.com/wisense>