

Smart control systems give abandoned building a new life



An “intervention” staged at a long-abandoned building in Molise, Italy was designed to bring it up to current energy efficiency standards and to give it a useful life again.

Toward that end, Council member ABB provided a [building automation system](#) [1] based on the international KNX standard with functions including:

- Modifying lighting based on the presence of people in different settings and the level of natural lighting.
- Controlling air conditioning based on the presence of people in different settings, window opening and solar radiation.
- Control and supervision through a PC and a Touch Panel installed in the porter’s lodge. The system manages internal

Achieve operational optimization. A long abandoned building in Molise, Italy served as a proving ground for smart

and external lighting, occupancy sensors, air conditioning, sunshades and more. Through the PC it is also possible to pre-program on and off times, for example external lighting and corridor lighting.

control systems to meet energy efficiency mandates.

For the lighting system alone, the estimated electricity saving is about 50-60 MWh, corresponding to a saving of about 10,000 Euros (roughly \$13,000).

Readiness Guide Chapter: [Built Environment](#) [2]
[Built Environment](#) [3]

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Links

[1] <http://smartcitiescouncil.com/resources/home-automation-spurs-increasing-energy-efficiency-buildings>

[2] <https://readinessguide.smartcitiescouncil.com/readiness-guide/build-environment-anz>

[3] <https://readinessguide.smartcitiescouncil.com/readiness-guide/build-environment>