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Given the abovementioned theoretical framework, the present research aims to examine the capacity of Home Energy Management Systems adoption to significantly improve the energy efficiency in outdated building stocks enough to reach the Sustainable Development Goals (SDGs) targets.

buildings were constructed before 1976, when the Italian legislation on energy efficiency entered into force. Since 2014 the city of Turin is implementing an Energy Management System (EMS) for the entire building stock, which is supported by Information and Communication Technology and Building Management Systems (BMS) for the detec-

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Global Energy Management System Implementation: Case Study Italy proprietary monitoring system covering about 50% of the group's total consumption, through a network of over 30,000 sensors, physically located within data centres, central offices, offices, shops and laboratories, in the national territory of TIM, energy are constantly

Improving energy efficiency in public buildings is one of the main challenges for a sustainable requalification of energy issues and a consequent reduction of greenhouse gas (GHG) emissions.

In Italy, energy-saving policies in the residential sector are primarily driven by tax deduction and credit-based government incentives, such as Ecobonus, and, more recently, Superbonus.

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The implementation of an energy management system compliant with ISO 50001 can yield more effective energy retrofit actions for buildings by improving the energy consumption and environmental performance of buildings ...

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by providing the calculation methods and associated material to obtain the overall energy performance of a building. For Italy the Energy Performance of Building Simulations EPBS must be calculated with standard UNITS 11300.

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Buildings In 2021 energy consumption of residential sector was 31.7 Mtoe, +14% since 2000 (+0.6%/year). Space heating accounted for 67% followed by electrical appliances and lighting with 13%, water heating 12%, cooking 7% and air cooling 1%. Energy efficiency improvement led to decrease in space heating consumption per m², -12% over

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