



Smart Buildings

Veneto Region



Smart Buildings

The vision is a building that seamlessly fulfills its mission while minimizing energy cost, supporting a robust electric grid and mitigating environmental impact

Objectives

1. Reducing primary energy consumption by 20%, reducing GHG emissions by 20%, improving the energy efficiency by 20% by 2020
2. Boosting the use of ICT (**Information and Communications Technology**)
3. Delivering of useful building services that make occupants productive at the lowest cost and environmental impact
4. Facilitating a “whole building approach” to both design and operate buildings
5. Empowering operators and occupants with new levels of visibility and actionable information

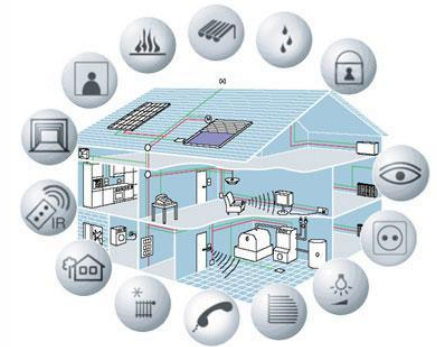
<http://www.mayorsinaction.eu>



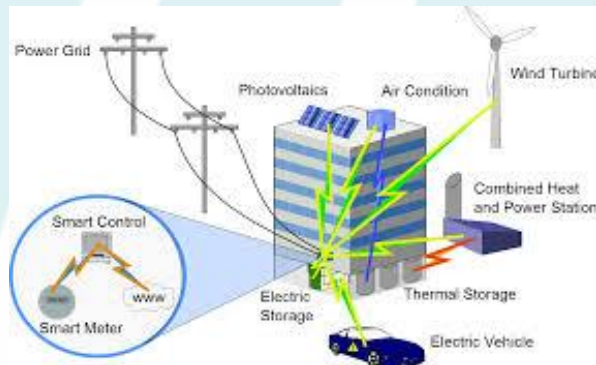
Methodology: Steps of implementation and Tools

Buildings today are complex concatenations of structures, systems and technology. Over time, each of the components inside a building has been developed and improved, building owners to select lighting, security, heating, ventilation and air conditioning systems independently

1. In the most basic sense, smart buildings require one or more of their systems to be automated
2. BAS Building Automation System is the automatic centralized control of heating, ventilation, air conditioning, lighting and other systems
3. ICT can be instrumental in achieving more efficient use of energy through simulation, modelling, analysis, monitoring and visualisation tools
4. ICT plays an essential role in facilitating the implementation of policies and measuring its effectiveness



1. Connectivity
2. Sensors
3. Smart metering
4. Integrated control
5. Optimisation
6. Smart grids



THANK YOU

