INCREASE ENERGY EFFICIENCY

OBJECTIVE

Less energy needs for the same results.

DESCRIPTION

Measures to reduce the energy consumption and to increase the efficiency of the energy input of a building or an entire city district. Aspects concerned are building density, building type, orientation. At the building level, some relevant aspects are passive solar design, airtight building envelope, high thermal insulation, passive cooling or natural ventilation.

EXPECTED RESULTS

Buildings resilience against heat waves and extreme cold.

RESULT INDICATORS

Percentage of energy saved [%]

INVOLVED ACTORS

Municipality, builders.

EXPECTED TIMELINE FOR ACTION

- Short term (1-4 years)

BEST PRACTICES

- Bottrop – Germany
- Veneto Region – Italy
- Veneto Region – Italy
- Veneto Region – Italy
- Veneto Region – Italy
- Unione dei Comuni Medio Brenta – Veneto – Italy
- Friuli Venezia Giulia Autonomous Region – Italy
- Friuli Venezia Giulia Autonomous Region – Italy
- Friuli Venezia Giulia Autonomous Region – Italy
- Primorsko - Goranska County - Croatia
- Marche Region – Italy
- Apulia Region – Italy
- Apulia Region – Italy
- Friuli Venezia Giulia Autonomous Region – Italy
- Marche Region – Italy
- Marche Region – Italy

- Marche Region – Italy
- Apulia Region – Italy

CRITICALITIES

Improper use and maintenance of buildings, lack of know-how of local business of sustainable building, lack of recycled and recycling material nearby.

SCOPE OF THE ACTION

- Adaptation
- Mitigation

TYPE OF PROPOSED ACTIONS

- Grey

SECTOR OF ACTION

- Energy
- Public health
- Urban settlement
- Other

CLIMATE IMPACTS

- Extreme temperatures
- Other

IMPLEMENTATION SCALE

- Association of municipalities
- Municipality
- Region / Country

SOURCE

http://www.future-cities.eu/fileadmin/user_upload/pdf/FC_AdaptationCompass_Supplement_web.pdf
https://www.venetoadapt.it/wp-content/uploads/2020/03/Del%20A2%20-%20VenetoADAPT%20Adaptation%20State%20of%20the%20art%20assessment.pdf