SUSTAINABLE GENERATION OF HEATING OR COOLING

OBJECTIVE

Use renewable energy sources.

DESCRIPTION

Implementation of solar, geothermal and biomass systems.

EXPECTED RESULTS

Use of renewable energy sources; response to the expected higher demand for cooling buildings in summer and limitation in the use of air conditioning systems based on fossil energy; greenhouse gas emission reduction; reduction of dependency on fossil or nuclear energy sources like gas, oil, coal or uranium.

RESULT INDICATORS

Energy production from renewable sources [MWh or kWh]

INVOLVED ACTORS

Municipality, renewable energy specialist, builders, buyers.

EXPECTED TIMELINE FOR ACTION

- Short term (1-4 years)

BEST PRACTICES

- Copenhagen – Denmark; Tartu – Estonia; Paris – France; Brescia – Italy; Barcellona – Spain; Stockholm – Sweden
- Veneto Region – Italy
- Veneto Region – Italy
- Unione dei Comuni Medio Brenta – Veneto – Italy
- Veneto Region – Italy
- Friuli Venezia Giulia Autonomous Region – Italy
- Marche Region – Italy
- Marche Region – Italy
- Marche Region – Italy
- Apulia Region – Italy

CRITICALITIES

Solar panels could be contradictory with green walls and roofs; interference with the underground function and setting; development is subjected to a complex process; lack of know-how of building and maintaining services.

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