

## 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](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>