



PARCO REGIONALE  
DEI COLLI EUGANEI



REGIONE DEL VENETO

# Geothermal District Heating in the Euganean Thermal Area

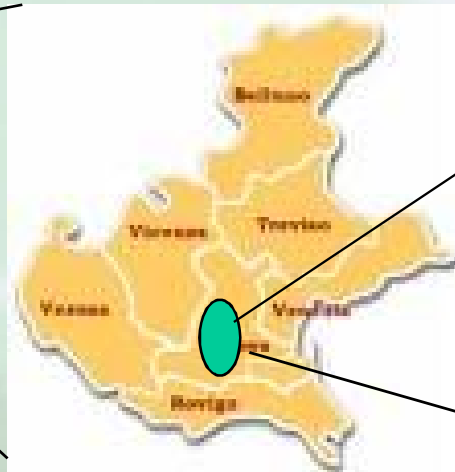
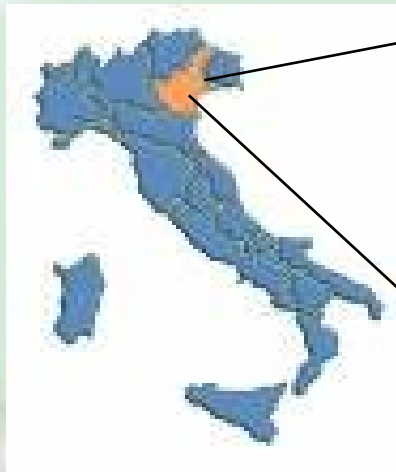


**Speaker Dott. Nicola Modica**  
**Director of The Euganean Hills Regional Park,**  
**Italy**



# Euganean Hills Regional Park

## HISTORY AND GEOGRAPHY





# Euganean Hills Regional Park

## ISSUES

**Landscape** → The protection, the maintenance, the restoration and the valorization of the natural, historical, architectonic landscape

**Hydrogeologic, Hydraulic, Flora and Fauna** → The protection of the ground, the subsoil, the flora, the fauna and the water

**Services Promotion** → The social, cultural and economic development of park inhabitants

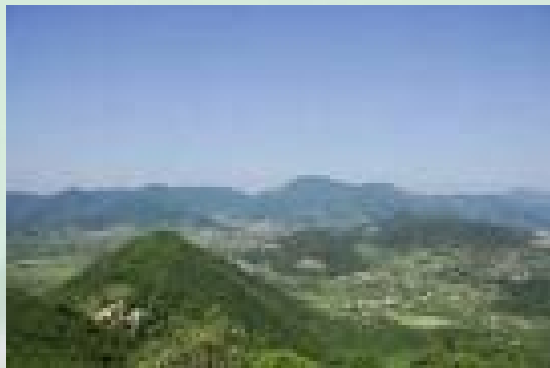




# Euganean Hills Regional Park

## THE ENVIRONMENTAL PLAN

Constituted in accordance with art. 4 L.R. 38/89 (the law establishing the Park);







## Renewable Energy used into the Park

- **THERMAL SOLAR**: private house heating;
- **ELECTRIC SOLAR**: small plants and private house power;
- **BIOMASS (wood)**: 9.200 t private house heating (30% of the available resource);
- **WIND**: small plant for pumping water from the well;
- **GEOTHERMAL**: green house, thermal baths, public swimming pool;





# The Euganean Geothermal Water (1)



## TOURISM EMPLOYMENT

- **138** thermal plants
- **220** thermal swimming pools
- **18.500** accomodations





## The Euganean Geothermal Water (2)



### TOURISM EMPLOYMENT

- **138** thermal plants
- **220** thermal swimming pools
- **18.500** accomodations



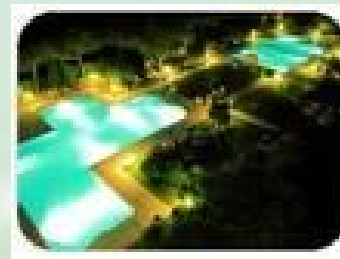




# The Euganean Geothermal Water (1)

## ENERGY POTENTIALS

- 180 wells in activity in the Euganean Basin;
- B.I.O.C.E. is subdivided in 137 mining concessions
- 15 million mc of thermal fluid in 2008.

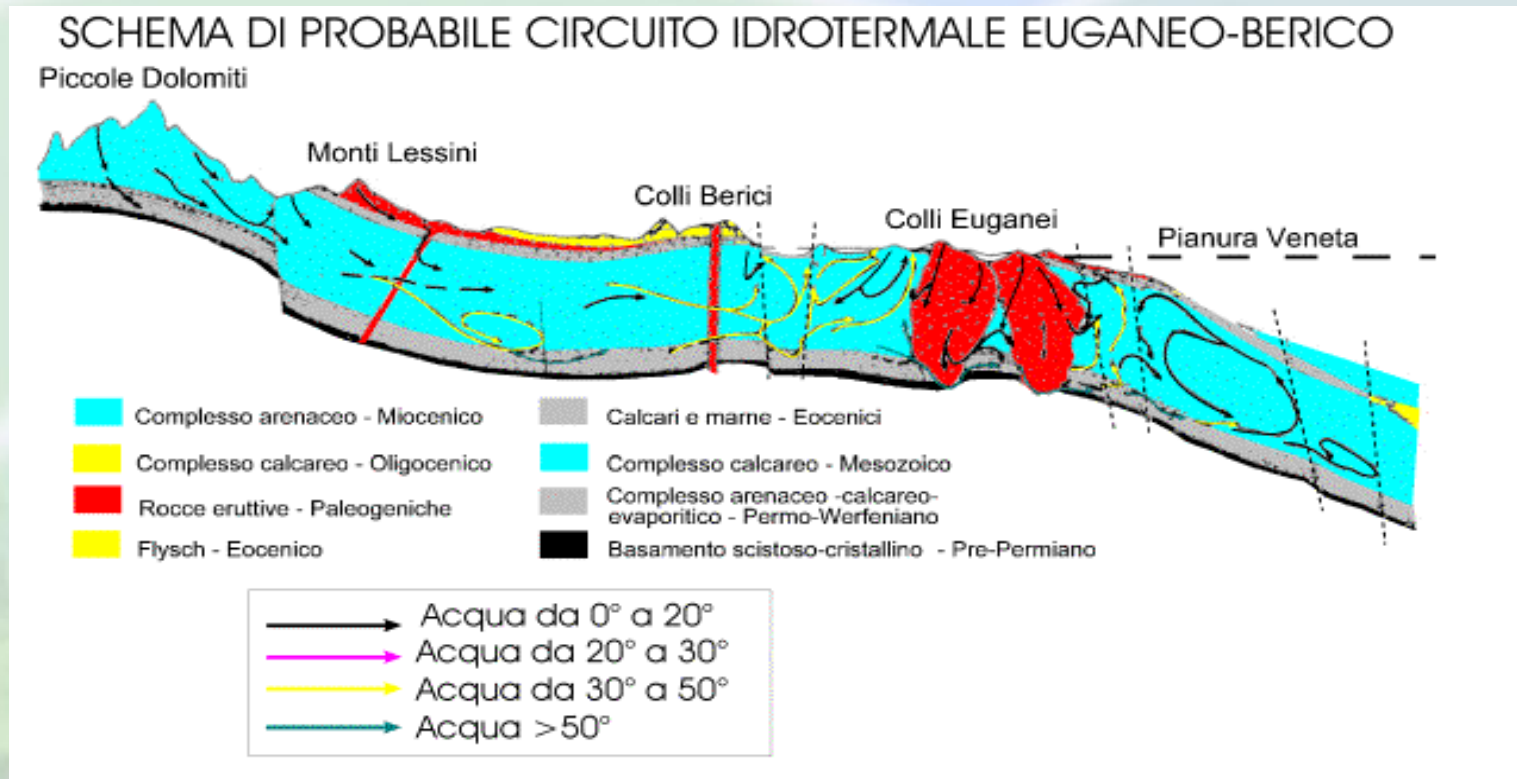






# The Euganean Geothermal Water (2)

## REGULATORY CONSTRAINTS





# Geothermal District Heating Strategy

## THE STRATEGY

## (1)





# Geothermal District Heating Strategy (2)

## THE STARTING PILOT PROJECT







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# Supporting Initiatives (1)



EXCHANGE OF KNOWLEDGE THROUGH  
EUROPEAN PROGRAMMES

**ENERGEO project**



<http://www.interreg4c.eu/>



## Supporting Initiatives (2)

1. San Marino
2. Città del Vaticano
3. Liechtenstein
4. Lussemburgo
5. Principato di Monaco
6. Andorra
7. Malta
8. Montenegro
9. Kosovo



### EXCHANGE OF KNOWLEDGE THROUGH EUROPEAN PROGRAMMES

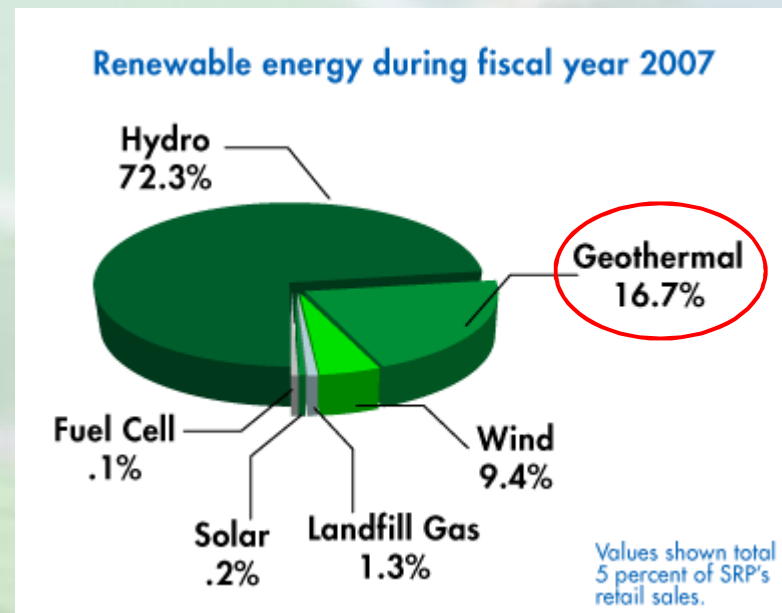
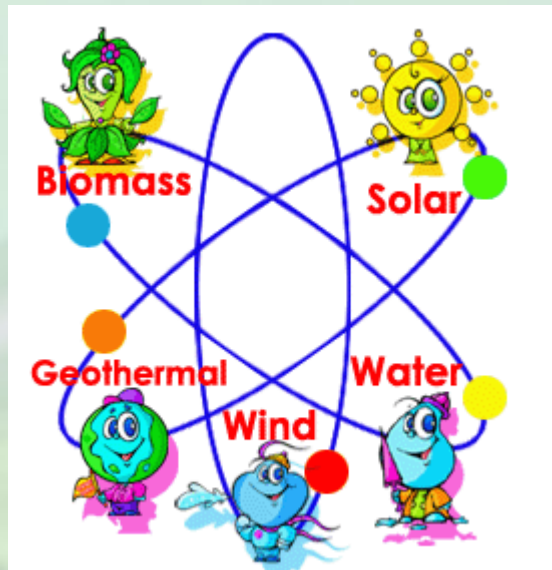
10 municipalities from five Member States (Italy, Germany, Austria, Rumania, Greece);



## Supporting Initiatives (3)

### RENEWABLE ENERGY CAGE

- Establishment of a cage for renewable energy at the headquarters of the Park.
- Expectations of an assignment to a technical expert in renewable energy for the operation of the facility.





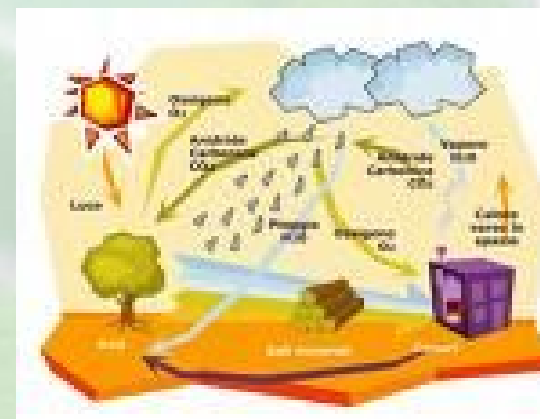
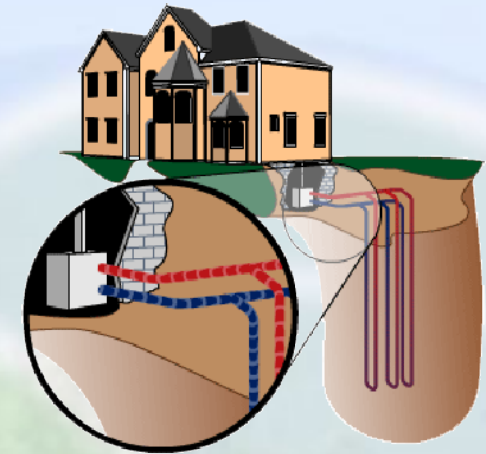


## Supporting Initiatives (4)

### RENEWABLE ENERGY CAGE

#### Main purpose of the cage:

A center of excellence for environmental sustainability that combine teaching and conference with the need for public awareness of park issues of sustainable development.





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**THANK YOU FOR YOUR ATTENTION**



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