

SEV - South Tyrolean Energy Union

presents

Tariff structure **District heating South Tyrol - Italy**

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1. **SEV - South Tyrolean Energy Union**
2. **South Tyrol**
3. **Production of heat in South Tyrol**
4. **Tariff structure**
5. **Tariff calculation**
6. **Suggestions**
7. **Optimization**



1. SEV - South Tyrolean Energy Union



❖ Who are we?

- We represent the decentralized energy suppliers in South Tyrol

❖ What do we do?

- We represent the interests
- We offer services

❖ Who are our members?

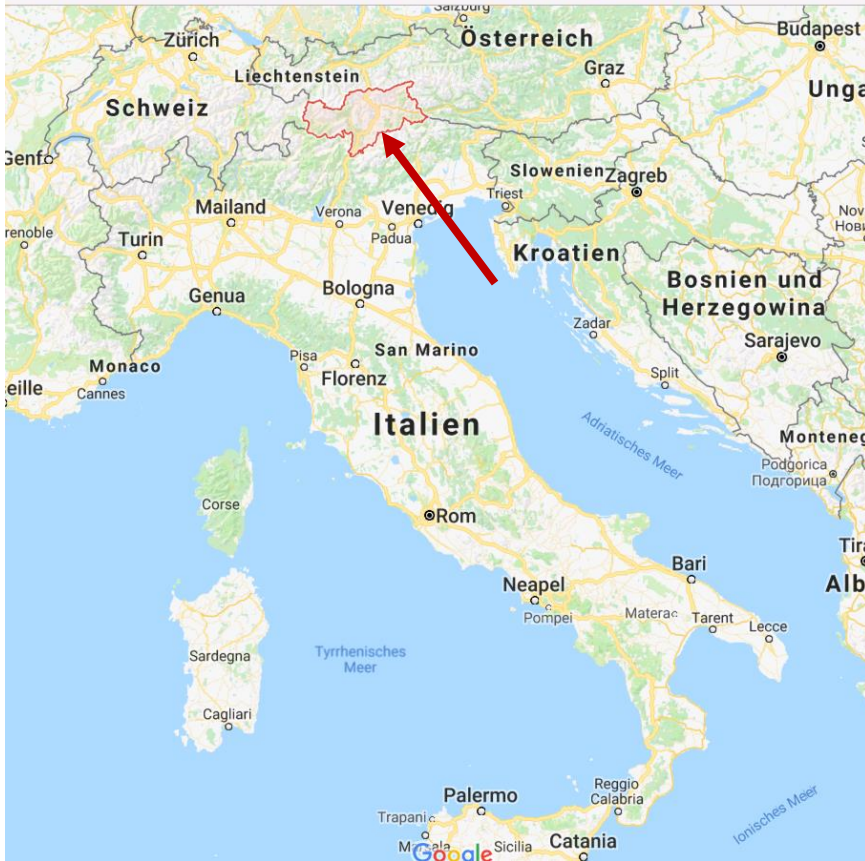
- 153 photovoltaic installations
- 113 hydropower plants
- 45 district heating plants
- 34 power distribution plants



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2. South Tyrol



- ❖ **Where is South Tyrol?**
- ❖ **about 550.000 habitants**
 - 60% German speaking
 - 30% Italian speaking
 - 10% Ladin speaking



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3. Production of heat in South Tyrol



- ❖ 82 district heating plants, from those 77 run with biomass (wood chips)
- ❖ 45 biomass district heating plants are our members
- ❖ about $\frac{2}{3}$ are cooperatives
- ❖ the biggest biomass district heating plant has an installed performance of about 31 MW (biomass boiler)
- ❖ the smallest biomass district heating plant has an installed performance of about 300kW



4. Tariff structure



- ❖ We have 82 different District heating plants.....
- ❖and we have 82 different tariff models



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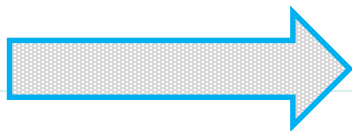
5. Tariff calculation



The price per kWh:
between 0,08 € and 0,15 €

Tariff calculation

- a) Quantity related tariff
- b) Quantity unrelated tariff
- c) 100 % consumption related tariff
- d) Consumption related tariff with a basic fee
- e) Tariff scale based on **recirculation** temperature
- f) Tariff based on a), b), c), d), e)



EU project for a new tariff calculation
SMART HEAT



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What should be changed
in the tariff structure?

Tariffs should be made more flexible and adapted to individual needs

- lower tariffs at low return temperature
- lower tariffs for large customers
- higher tariffs for those who have a high energy consumption in a short period of time
- cooperatives are generally not very flexible in the design of tariffs, because the cooperatives work strongly according to **the principle of equal treatment**



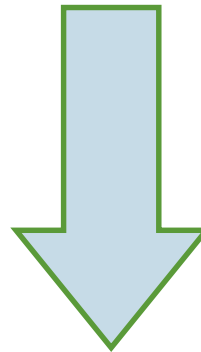
7. Optimization



E.g.

**Thermal renovation
of the building**

**Optimization of the
customer-side plant**



**Decrease of heat sale
→ less income**

**Decrease of return temperatures
→ less net losses**

**Optimization for the customer
→ less income for the district heating plant operator**



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Thank you for
your attention