

WORLD SUSTAINABLE ENERGY DAYS

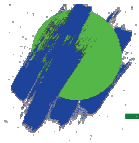
SOUTH TYROL AND EMILIA- ROMGNA

**Regional Biomass Action Plans
Wels, February 25th 2009**

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Ökoinstitut Südtirol/Alto Adige
www.oekoinstitut.it**

Intelligent Energy  Europe

REGBIE+ 

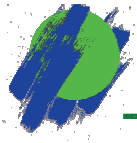


Biomass - South Tyrol

Facts about South Tyrol

- Trilingual Autonomous Province in Northern Italy
- Area: 7.399 km²
- Inhabitants: 496.435

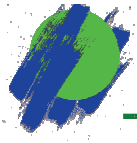




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Renewable Energy in South Tyrol

- **850 hydro power plants**
- **57 biomass district heating plants**
- **2 wind power plants (MW)**
- **8 small wind power plants**
- **6 big biogas plants**
- **24 small biogas plants**

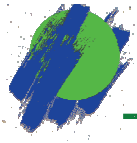


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Renewable Energy in South Tyrol

- **7000 small biomass heating systems**
- **0,31 m² solar thermal pannels per inhabitant**
- **22,4 Watt installed photovoltaic-power per inhabitant**

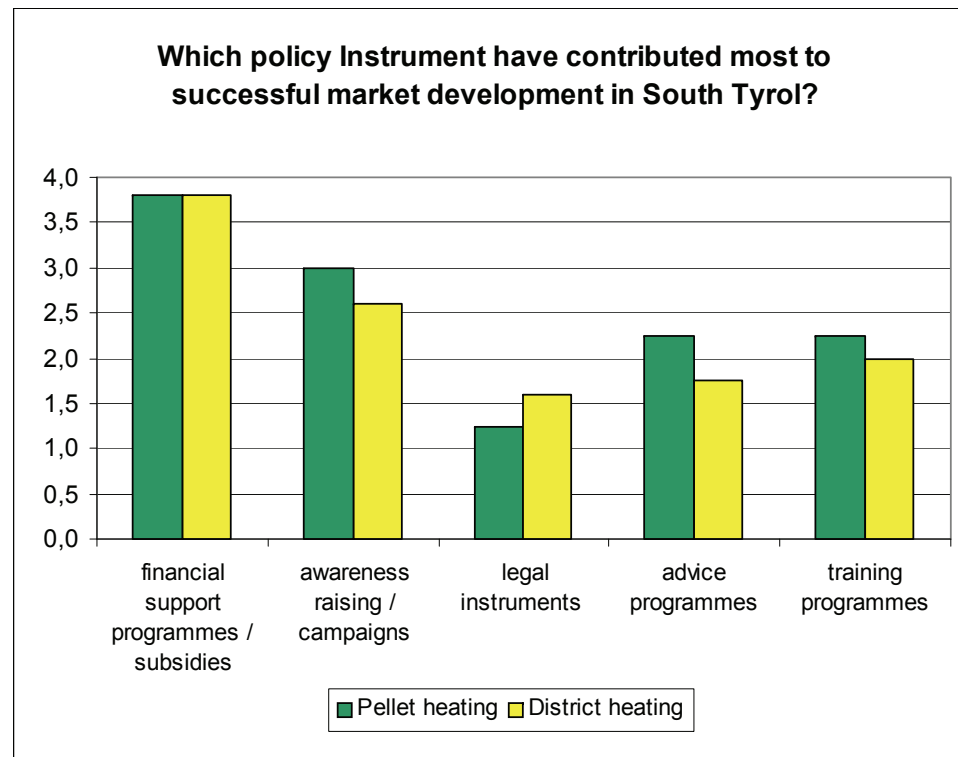
- **share of renewable energy
> 50% (mobility excl.)**
- **target: 75% by 2015**
- **new energy plan in 2009**

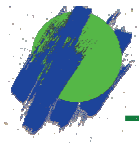


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Biomass – Success Factors

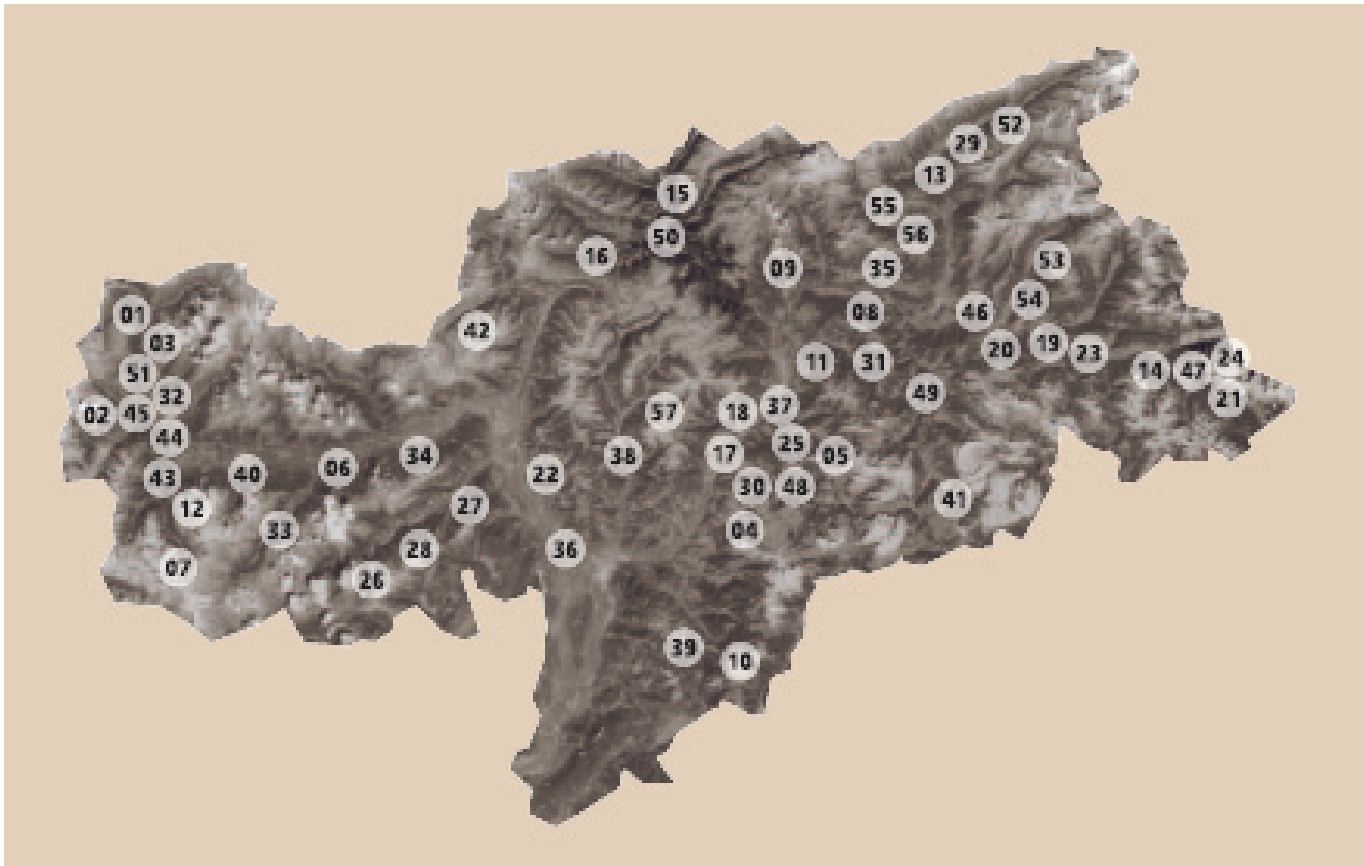
Survey

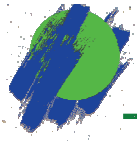




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Biomass District Heating

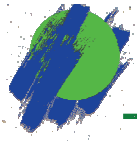




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Biomass District Heating

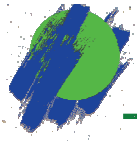
- **26 cooperatives, 9 municipal companies, 22 private companies**
- **10.000 clients (2007)**
- **Precondition for a profitable plant is a sufficient population density and the presence of large customers**



Biomass - South Tyrol

Biomass District heating

- **Installed power: 200 MW**
- **Energy produced: 400 Mio kWh**
- **Wood demand 1.000.000 m³**
- **Annual heat sold: approx. 37 Mio. €**
- **Oil substituted: approx. 48 Mio. Liter**
- **CO₂ – decrease: 137.000 tonnes** 57 plants in 44 municipalities (total province: 116 municipalities)



Biomass - South Tyrol

Biomass District heating

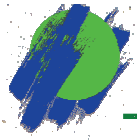
Promotion through
best practice:

Example:

Toblach/Dobbiaco

- ORC module
- Visitors trail





Biomass - South Tyrol

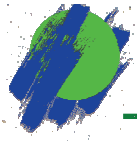
Actors

Biomasseverband – Biomass Association

- **38 members**

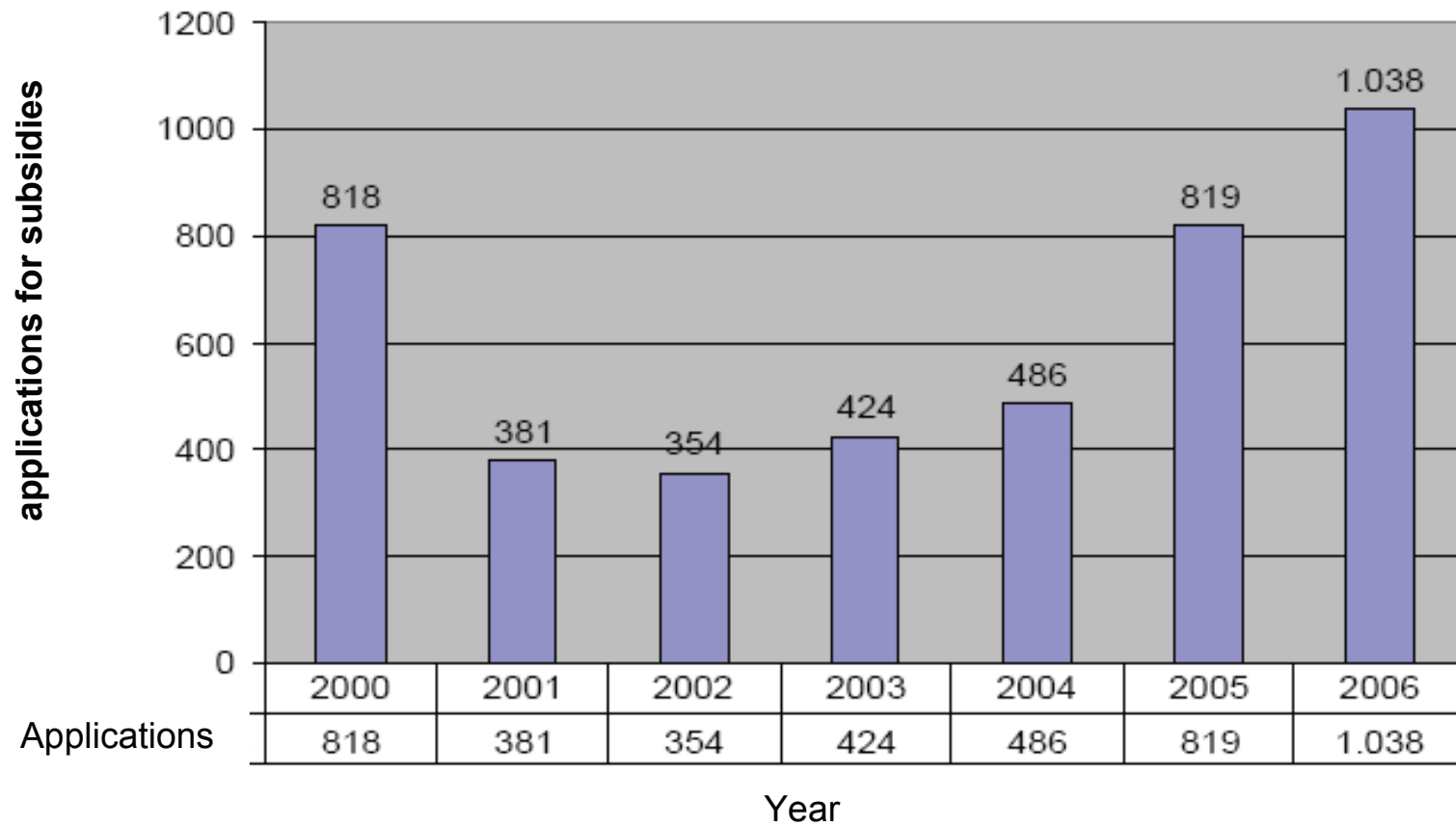
Mission:

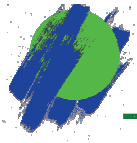
- **Organisation of congresses, seminars, workshops and training courses**
- **Collective purchase of producer goods for the associated members**
- **Information material**
- **Coordination in the waste sector**
- **Legal support**



Biomass - South Tyrol

Small Biomass Heating

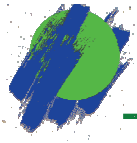




Biomass - South Tyrol

Future challenges in South Tyrol

- **Substitution of old oil boilers => big potential for small scale wood boilers**
- **Use of local resources**
 - 25% of the wood is imported**
 - only 50% - 60% of annual forest growth is utilized**
 - => reinforced utilization of local resources (50% of the area is covered by forest!)**

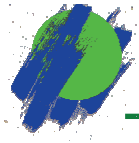


Biomass – Emilia-Romagna

Emilia Romagna

- Weak developed market
- Potential mostly in mountainous-hilly regions
- Collaboration with the department of agriculture of the region within REGBIE+
- Exchange of know how and experiences





Biomass – Emilia-Romagna

Future challenges in Emilia-Romagna

- **Forest management**
- **Qualified labour**
- **Awareness raising, subsidies**
- **Political strategy**
- **Financing mechanisms (contracting)**

Thank you for your attention!



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