



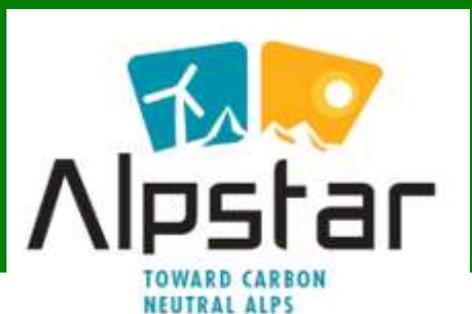
Wind turbines, biomass and solar power plants, a challenge for spatial planning?

ALPSTAR Initial conference

27th and 28th October 2011, Chambéry, France

Toward Carbon Neutral Alps

Make Best Practice Minimum Standard



Agenda

- Key figures of the canton of St.Gallen
- Projects in the canton of St.Gallen (without claim to completeness)
- Spatial planning challenges
- Are energy projects so different?
- Concluding remarks

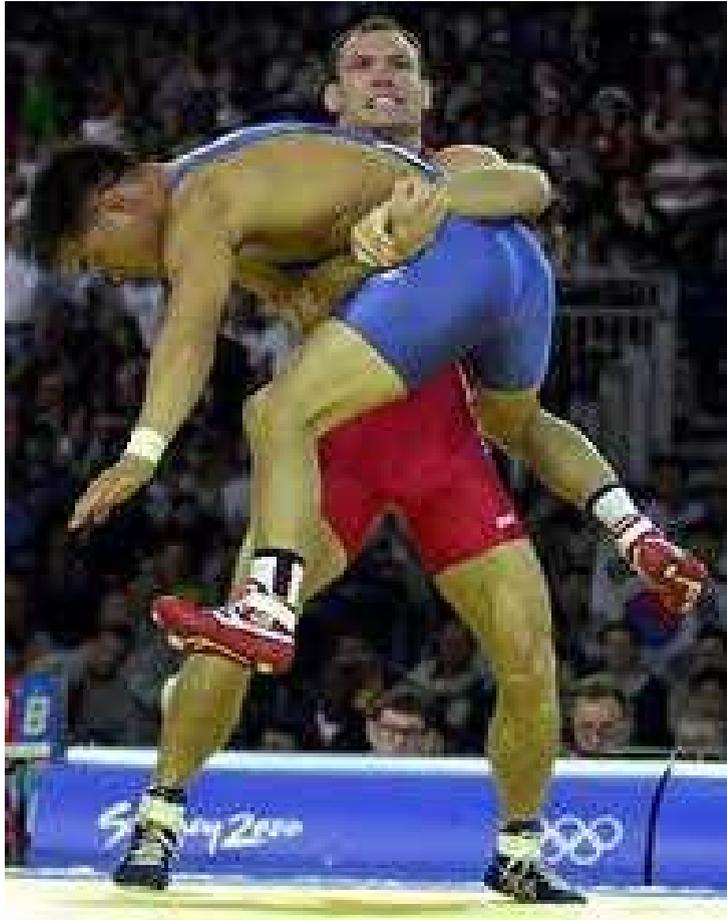


Key figures of the canton of St.Gallen

- **Surface:** 2'026 km²
- **Inhabitants:** 471'000 (2008)
- **Gross Regional Product:**
 - Fr. 25 Billion
 - Fr. 52'500 per capita (Swiss av: Fr. 60'500)
- **Distinguishing marks:**
 - Ring-form
 - Canton with most of neighbours (other Cantons or States) in Switzerland
 - 5 Agglomerations, 6 Regions, 85 municipalities
 - Is at the fringe of the Zurich Metropolitan Area



Political discussion



today: fight ...



tomorrow: symbiotic ...

Large-scale projects



Large-scale projects in planning



Large-scale projects in planning

Solar power plants at avalanche controls



What are the energy issues?

- Biomass: What belongs in a construction zone?
- Wind turbines: Structure plan? Approval procedures?
- Geothermal plants: Where?
- Solar power plants beyond construction zone? In protected objects?
- Hydropower: Approvals beyond construction zone? Concessions are crucial



Shown at the example of wind turbines ...



... and the landscape protection?



... and the approval procedures?



Sustainability



We bear responsibility not only for our children but also for the future of our planet!

