ENERGY POLICY AND WIND POWER

- Energy policy and promotional schemes in the EU.
- Quotas with different but overlapping goals.
- Importance of energy policy rather than wind potential.
- Controversy concerning harmonisation.
- Danish energy policy as a case study.
- Greening of the Nordic energy system.
- Conclusions.





LIBERALISED ENERGY MARKETS

- EU Directive confirmed in December 1996.
- Goal: Higher efficiency and lower consumer prices through market competition.
- No distinct concern of environmental consequences, e.g. by support of energy conservation and RES.
- Several problems are appearing: ressource exhaustion, supply security, cost-effective investments in sustainable energy systems.
- Commercial markets have short time horizons.
- Few general, critical papers of the liberalisation.

Niels I. Meyer: Salzburg 2005



MAIN SUPPORT MODELS

- FIXED PRICE SYSTEMS: investment subsidies, fixed feed-in tariffs, fixed premium systems (and tax credits).
- FIXED QUANTITY SYSTEMS: tradable green certificates with quota obligation (Portofolio Standard) and obligated tendering.
- Several Member States use combinations of these schemes.
- Internalisation of externalities (much talk, little action).
- CONTROVERSIAL QUESTION: Should EU harmonise the different support schemes on EU level?

Niels I. Meyer: Salzburg 2005



PROMOTIONAL SCHEMES

- Fixed Feed-in Tariff (FIT) and Fixed Premium System (FPS) with long-term guaranteed and favourable tariffs. Three European countries with these schemes comprise 82% of wind capacity by the end of 2004 (Germany, Spain and Denmark).
- Tradable Green Certificates (TGC) driven by national quotas for RES-E. Producers are paid the market price plus sales price for green certificates. Sparse experience with TGC (Italy, UK, Sweden). Problems with fluctuating prices of certificates and investor uncertainty.

Niels I. Meyer Salzburg 2005

• Tender Schemes: in combination with FIT and FPS.



DISTRIBUTION OF EU SUPPORT SCHEMES

- Distribution in the EU: 15 member states are using the FIT or the FPS: Austria, Cyprus, Estonia, Finland, France, Germany, Greece, Hungary, Ireland (April 2005), Latvia, Luxembourg, Netherlands, Portugal, Slovenia and Spain.
- 5 member states are using the TGC: Belgium, Italy, Poland, Sweeden and the UK.
- Denmark has a mixed support scheme and a few others have no support scheme.
- Norway is planning to introduce the TGC from 2007.

Niels I. Meyer Salzburg 2005















CONLUSIONS 1

- Too early to harmonize support schemes at EU level.
- Externalities should be internalised (pollution taxes).
- Why set up special TGC markets (large transaction costs) for a short transition period when FIT, FPS and tender systems can do the job?
- According to opinion poll by EU project (RE-Xpansion) the FIT has the highest score of the support schemes among Member States.

Niels I. Meyer Salzburg 2005

