




RECS certificates, GoO and RES-E labels in Slovenia



Workshop: "Perspectives on Certification of Electricity generation and Disclosure in the light of the new EU Energy Policy"

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Overview





- HSE d.o.o.
- Power Production in Slovenia
- Slovenian renewable generation potential
- Market for Electricity from RES: RES-E
- RECS in Slovenia
- GoO in Slovenia
- Green certificates trade
- Retail Market for RES-E
- Voluntary market and RES-E labels in SLO
- Modra energija
- Conclusion




HSE




- HSE is the largest and leading Slovenian electricity power producer and trader.
- A combination of different energy sources has proven to be HSE's key for providing safe, reliable and quality power supply to domestic as well as foreign consumers.

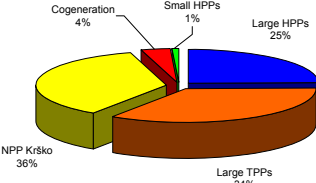




Power Production in Slovenia



- Structure of primary energy sources is technically favorable
 - Capacity composition: Hydro : Thermal : Nuclear \cong 1 : 1 : 1
- Hydro power:
 - Large Hydro: Sava, Drava and Soča River HPP chains
 - installed capacity: 979 MW (without pumped HPP Avče)
 - average yearly production : ~3,6 TWh/a
 - Small Hydro:
 - average yearly production 400 GWh/a



Energy Source	Percentage
NPP Krško	36%
Large TPPs	34%
Large HPPs	25%
Cogeneration	4%
Small HPPs	1%

hse Renewable Generation Potential



- Large HPPs
 - Lower Sava River HPP Chain (HSE)
 - start of construction in 2003, to be completed by 2018
 - The chain will comprise of 5 HPPS
 - Their average yearly production: 720 GWh
 - installed capacity: 187 MW
 - Middle Sava River HPP Chain (300 MW and 997 GWh/a)
 - Mura River HPP Chain (132 MW and 675 GWh/a)
 - Idrija River HPP Chain (117 MW and 200 GWh/a)
- Small HPPs
- Wind PPs
- Biomass PPs
 - considerable potencial



hse Market for Electricity from RES: RES-E



- Supply of RES-E:
 - 3 time/space separate levels
 - Financial contract on electricity supply
 - Physical flow of electrical energy
 - Financial contract on selling characteristics of energy
- Green certificates (RECS certificates)
 - Project RECS - First international initiative for certificates
 - Instrument for transfer of the information on production attributes of RES-E.
- Guarantees of Origin (GoO):
 - Dir. 2001/77/EC, Art. 5: GoO for each MWh RES-E
 - Instrument for transfer of the information on production attributes of RES-E.



hse RECS System in Slovenia



- Slovenia: RECS is successful
 - RECS system is operational since 2004 to facilitate the voluntary market
 - Issuing Body in Slovenia: Energy Agency of the RS
 - Auditing Body: TÜV Sava Bayern, Germany
 - The producer receives RECS certificates – tradable
 - National and international sales of certificates
 - National sales of certificates->label: Modra energija



hse GoO in Slovenia



- A system for the GoO is fully implemented
- Adoption of the Decree on Issuing of Guarantees of Origin of Electricity (30/12/2005)
 - Issuing of GoO for RES-E and CHP
 - Issuing body: Energy Agency of the RS
 - national database
 - GoO in line with provisions 2001/77/EC shall be valid in RS
- Trading with GoO separated from trading with electricity
- The system is compatible with other national systems
- There is a link to the EECs standard of the AIB



hse Green Certificates trade

- “Wholesale market” for RES-E
 - Buyer assures production of RES-E in Europe
 - Trading with Certificates and energy is independent
 - Energy: traded for the future
 - Certificates: issued for the energy produced in the past
 - Green certificate or. GoO through EECS
 - Internationally supervised origin of RES-E
 - No double-selling of the same RES-E.

hse Retail Market for RES-E

- RES-E end-products
 - Green Certificates/GoO used for quality assurance
 - Sales procedures differ in companies/countries
 - Suppliers can influence demand considerably
 - Structuring and marketing of RES-E end-products.
 - Energy labels used in RES-E products:
 - not harmonized nor comparable.
 - A comprehensive marketing communication with buyers is necessary.
- Two methods of RES-E products formation

hse Voluntary market and RES-E labels in Slovenia

- Government does not regulate voluntary market in SLO
- Supply of imported RES-E is possible via EECS system GoO and/or RECS certificates
- Labels on national voluntary market for RES-E in Slovenia:
 - Major label : Modra energija,
 - Some local labels
 - Developed by different energy companies
 - Not supervised by the government
 - Label Modra energija is based on issuing and redemption of RECS certificates

hse Label: Modra energija

Modra energija
Odnosljivi viri, sedanjost in prihodnost

- 2005: RES-E Market in Slovenia starts
 - Stimulation of RES-E development
 - Formation of the RES-E market
 - Sales of RES-E in Slovenia.
- Product : Modra Energija (Azure/Wise energy)
 - Registered Brand
 - Based on RECS certificates
 - HPPs involved – Renewable Energy Declaration.
- The price of ME: 0,00417 €/kWh
 - Fixed surcharge to end-consumer electricity price
- Individual buyer can purchase
 - between 10 and 100 % share of ME

MODRI MISLIMO NA JUTRI

- Modri sklad (*Azure Fund*)
 - Collects 60 % of the ME income
 - Financing of the projects that stimulate RES-E production
 - Development and reconstruction of RES-E production units
 - Research of RES
- Consumers of ME – benefits
 - Listed on a dedicated web site of Modra energija
 - Improved visibility - high environmental awareness
 - Use of a special label in marketing of products and services
 - Official certificate/diploma:
 - Lists the purchased quantity of RES-E in the calendar year.
- Sales of Modra energija
 - January 2005: sales begin
 - June 2010: around 1800 companies, individuals on board (around 36 GWh/year)
- RES-E Market in Slovenia: expected to grow

- RES-E Market in Europe is quickly developing
- Modra energija: High visibility, RES-E for the future



www.modra-energija.si

www.modri-jan.si