



## Guarantees of Origin in Austria

- E-Control's experience with GO
- outlook and expectations on the new legislative GO framework

Dietmar Preinstorfer

13 March 2008, Budapest

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## Development of Austrian certificate market (1)



2001

- Electronic certificate/quota system for small hydro implemented (1 year in place)
- Legal obligation to establish a disclosure system
- E-Control joins the Association of Issuing Bodies (AIB)
- First RECS certificates are issued at the end of 2001

2002

- E-Control becomes a *large member* of the AIB

2003

- Austrian Green Electricity Act enters into force → provisions for GO (Austria is the first country to introduce REGO legislation)
- Amendment of Austrian Electricity Act → new and better legislation concerning the disclosure obligation
- E-Control establishes the Austrian GO database

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## Development of Austrian certificate market (2)



2005

- Increasing figures in international RECS/GO trade
- GO become the most used certificate type for disclosure in Austria

2006

- GO database covers > 90% of Austrian RES-E production
- GO database also contains certificates from fossil sources
- Increasing figures in international trade

2007/2008

- Stromnachweisdatenbank connected to the hub!

2009 ???

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## Some figures - 1/3 - RECS-Certificates



### RECS Certificates 2001 - 2007

year	Energy Source	issued	transferred	redeemed	exported	imported
2007	<b>Hydro = Total</b>	<b>285 885</b>		<b>2 851 824</b>		<b>9 186 919</b>
2006	<b>Hydro = Total</b>	<b>316 911</b>	<b>238 000</b>	<b>4 602 618</b>	<b>299 743</b>	<b>3 419 062</b>
2005	Hydro	1 560 474	61 501	3 062 287	87 016	2 886 323
	forestry/agricultural waste			58 859		58 859
	<b>TOTAL</b>	<b>1 560 474</b>	<b>61 501</b>	<b>3 122 146</b>	<b>67 016</b>	<b>2 946 182</b>
2004	Hydro	2 109 853	200 000	6 129 355	305 012	7 314 343
	forestry/agricultural waste	192 577			182 924	
	industrial waste	146 915		341	146 574	
	sewage gas	3 403		10	3 393	
	<b>TOTAL</b>	<b>2 452 748</b>	<b>200 000</b>	<b>6 129 706</b>	<b>637 903</b>	<b>7 314 343</b>
2003	<b>Hydro = Total</b>	<b>1 950 584</b>		<b>918 704</b>	<b>5 676</b>	<b>620 161</b>
2002	<b>Hydro = Total</b>	<b>1 057 599</b>	<b>3 430</b>	<b>84 669</b>		
2001	<b>Hydro = Total</b>	<b>1 150</b>				

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## Some figures - 2/3 - Austrian GO



	2003	2004	2005	2006	2007
Abfall	3 322	32 451 059	115 319 579	130 634 271	87 057 544
Bioqas	42 566 816	99 394 605	217 483 097	359 567 285	436 767 450
Biomasse fest	96 389 511	262 019 117	518 511 417	1 228 096 547	1 716 108 911
Biomasse flüssig	2 054 538	26 967 551	53 135 363	62 532 241	71 193 755
Braunkohle	0	631 782 392	947 277 452	583 924 770	0
Deponiegas	57 025 499	57 453 974	47 558 861	36 448 728	32 955 743
Erdgas	0	1 266 179 314	3 679 221 457	3 071 345 551	1 399 952 392
Geothermie	2 970 448	2 468 844	992 586 353	1 745 607 779	82 748 098
Heizöl leicht	0	246 575	533 552	526 352	142 671
Heizöl schwer	0	498 595 191	549 281 164	576 341 104	377 692 927
Klärgas	16 020 762	18 865 043	17 689 838	17 230 254	17 564 610
Kleinwasserkraft bis 10 MW	3 441 070 120	4 104 835 425	3 965 261 818	3 912 513 232	3 898 262 474
Photovoltaik	10 787 771	12 434 462	12 942 667	12 116 672	20 621 838
Steinkohle	0	3 747 635 703	4 411 372 712	4 709 969 742	4 234 029 935
Wasserkraft > 10 MW	6 902 659 504	26 587 410 149	30 885 763 021	28 951 742 229	27 119 972 961
Windenergie	367 669 701	929 319 477	1 331 440 773	1 751 613 071	2 035 474 590
Abfall mit hohem bioqenem A	0	0		1 200	170 002
Summe	10 939 217 992	38 479 058 881	47 745 379 123	47 149 201 030	41 530 735 902

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## Some figures - 3/3 - Austrian GO



Year	Electricity production (TWh)	# of production devices	RES-E GO (TWh)	Fossil GO (TWh)	Total GO (TWh)	% of consumption
2003	60,2	4206	10,9	0,0	10,9	18,17%
2004	64,7	4418	32,1	6,3	38,5	59,47%
2005	66,5	4651	38,2	9,6	47,7	71,80%
2006	63,9	4877	38,2	8,9	47,1	73,79%
2007	?	5465	35,5	6,0	41,5	?

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## Austrian success story and lessons learned



- GOs are the most suitable instrument for disclosure
- Recent years have shown that international trade with GOs is on a steady increase → increasing liquidity of the market
- GO-Systems can be easily administered in electronic data bases (lowest transaction costs, highest security level)
- Use of the primary meter data for several purposes
  - FIT remuneration
  - GO for disclosure purposes
  - Additional quality labels on electronic certificates
  - Data used also for the Austrian electricity statistics
    - = one data collection → several usages
    - = different usages for different users but no double use!!!

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PURPOSE	PARTY INVOLVED (REDEEMER)
Support scheme	Producer
Disclosure	Supplier - consumer
Target counting	Government

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## Outlook under the proposed legislative framework



- GOs will not contribute significantly to RES-E target achievement.
- GOs are not necessarily required for RES-E support settlement
- Since the possibilities for companies to transfer GOs is significantly reduced, their importance will decline
- The proposed legislative framework brings about a change of policy. In the past, GOs served two purposes. They were
  - an instrument for consumers to distinguish betw. electricity from renewable and non-renewable energy sources and
  - facilitated RES-E trade
 This will no longer be the case under the new legislative framework

→ Last but not least -> Free movement of goods!!! What is it about?

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## Requirements for an amended legislative framework

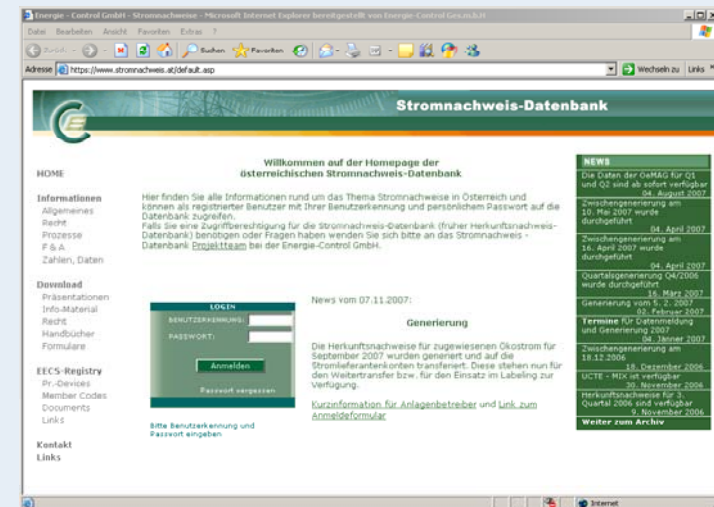


- „Multi-certificate scheme“ developed by the AIB should be incorporated
- GO as a target counting instrument in case the Government stated on a GO that it can be used for target counting -> otherwise use production statistics
- Mandatory issuing of GO for each MWh RES-E produced
- Extension of the GO scheme to non RES-E sources in order to be able to better distinguish between sources
- Foster and harmonise disclosure EU wide and make it a consumer right
- Incorporate mechanisms/principles like “Joint Implementation” (as we know them from the CO2 system) as a driver for RES-E installations in the MEDREG, Energy Community and Inogate Area

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## Further information:

(<https://www.stromnachweis.at>)



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→ **Contact**

**Dietmar Preinstorfer**

Head of International Relations

Energie-Control GmbH  
Austrian Energy Regulatory Authority  
Rudolfsplatz 13a, A-1010 Vienna, Austria

Tel: +43 (0) 1 24724-203

Fax: 01 24724-900

dietmar.preinstorfer@e-control.at

→ **Web**

[www.e-control.at](http://www.e-control.at)

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