



E-CONTROL



Workshop on flexibility to achieve MS RE targets

Session on the scope of GO



E-Control

- is the Austrian regulatory authority for the electricity and natural gas market
- has several legal competences as regards the Austrian green electricity support scheme
- is responsible for monitoring the Austrian disclosure system
- is Issuing Body for RECS certificates and GOs in Austria and member of the Association of Issuing Bodies (AIB)
- operates the Austrian guarantee of origin database

Recommendation for scope of the GO



- A GO is an instrument and not a system
- A GO_{CHE} is an instrument that can be used for several purposes:
 - a) it enables flexible mechanisms for target counting
 - b) it facilitates the settlement of support schemes
 - c) it facilitates trade (with electricity) from renewable energy sources
 - d) it enables a fair, full and transparent (electricity) disclosure scheme
- Especially a GO_E shall be used for all purposes mentioned above and shall not be restricted to a) and b)
- A GO_E shall be issued for each MWh that is dispatched via the public grid
- A GO shall receive an earmark when the associated energy received public support
- For the purpose of disclosure a GO may always be transferred cross-border by persons if the associated energy did not receive public support
- Use electronic database systems only that are connected via a hub (like the ETS scheme)



→ Directive 2001/77/EC states:

- However, to facilitate trade in electricity produced from renewable energy sources and to increase transparency for the consumer's choice between electricity produced from non-renewable end electricity produced from renewable energy sources, the guarantee of origin of such electricity is necessary.
- Following this provision, the GO under the current legislative framework is an instrument that is best suited for the use for disclosure purposes.

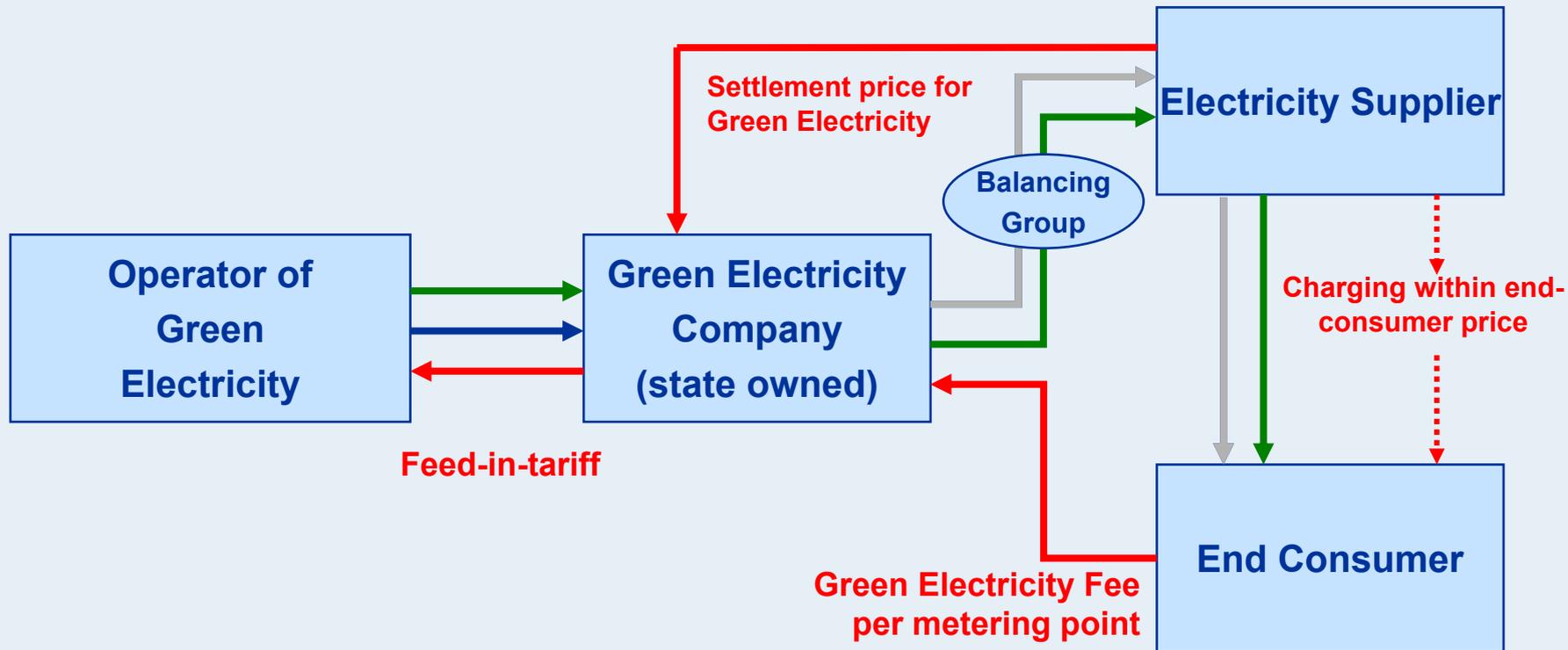
→ New proposal

- Uses GOs as an instrument for target counting and for facilitating transparency in support schemes

→ The new provisions establish a change in paradigm for the use of GOs

- Well established systems using the GO as an instrument for demand side driven policy issues (RES_E trade, disclosure, green labels, etc.) are not taken into consideration by the new proposal

Austrian Feed-in-Tariff-System for Renewables



— flow of GO

— flow of electricity

— cash flow

— flow of GO that will disappear under new proposal

Development of Austrian GO system



2001

- Legal obligation to establish a disclosure system

2003

- Austrian Green Electricity Act enters into force → provisions for GO (Austria is the first country to introduce GO legislation under Directive 2001/77/EC)
- Amendment of Austrian Electricity Act → new and better legislation concerning the disclosure obligation → E-Control becomes responsible for the monitoring of the Austrian disclosure scheme
- E-Control establishes the Austrian GO database

2005

- Increasing figures in international 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 GO from fossil sources
- Increasing figures in international trade

2007/2008

- Austrian GO database connected to the AIB hub!

Some figures - 1/2 - Austrian GO



	2003	2004	2005	2006	2007
Abfall	3.322	32.451.059	115.319.579	130.634.271	87.057.544
Bio gas	42.566.816	99.394.605	217.483.097	359.557.285	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	831.782.392	947.277.452	583.924.770	0
Dep onie gas	57.025.499	57.453.974	47.558.861	35.448.728	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	499.595.191	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	3.898.282.474
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 biogenem 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

Some figures - 1/2 - 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	?



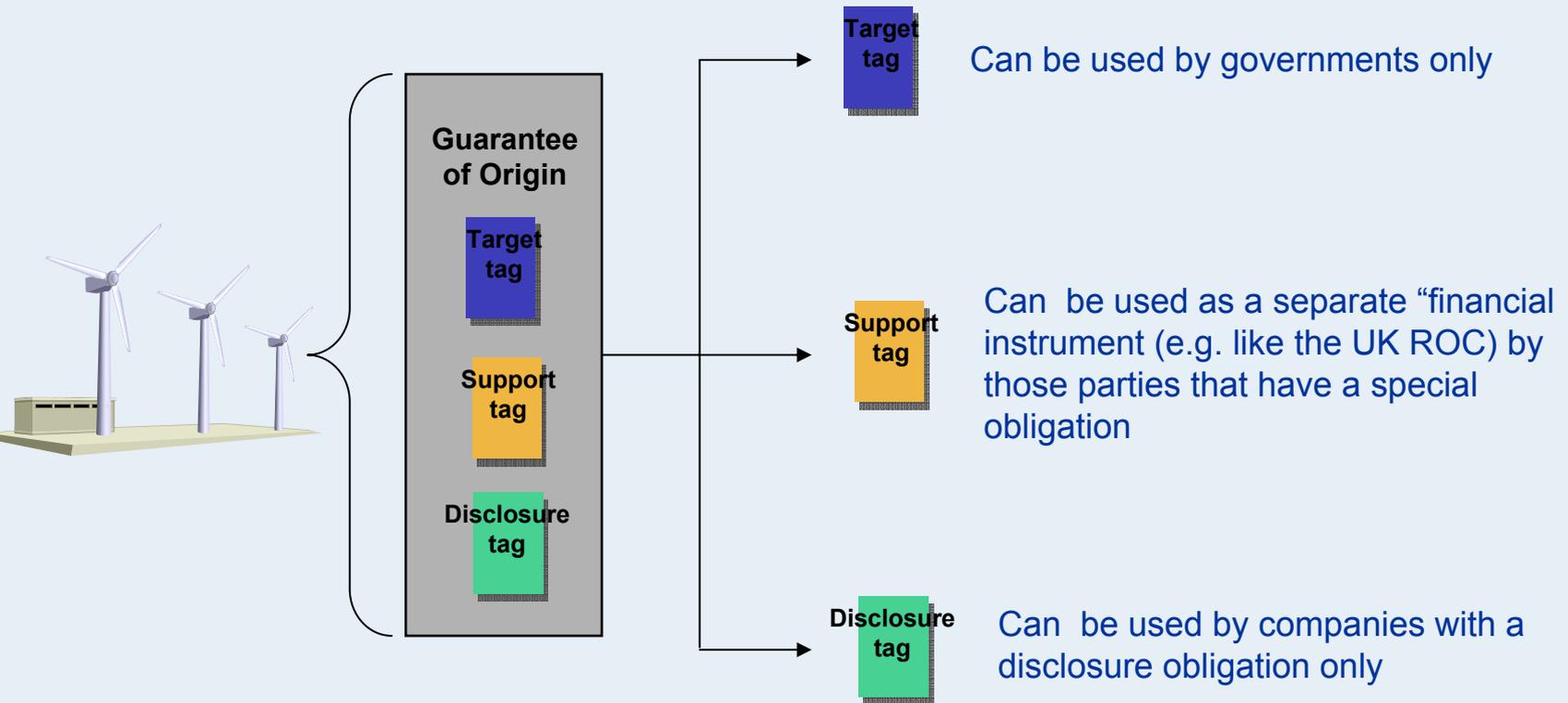
GOs used are used in Austria

- as an instrument to facilitate trade of electricity produced from renewable energy sources;
- as an instrument for disclosure;
- as a transparency instrument for the national RESE support scheme (GOs of electricity that received public support are earmarked)
- as an instrument for target counting (GOs issued are used for the Austrian electricity statistics; but they are not used as a flexible instrument yet)

Multi purposes of a GO



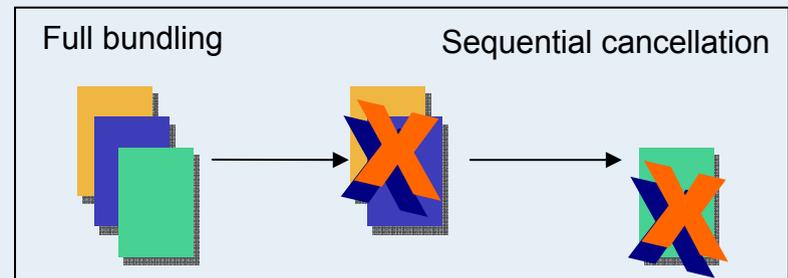
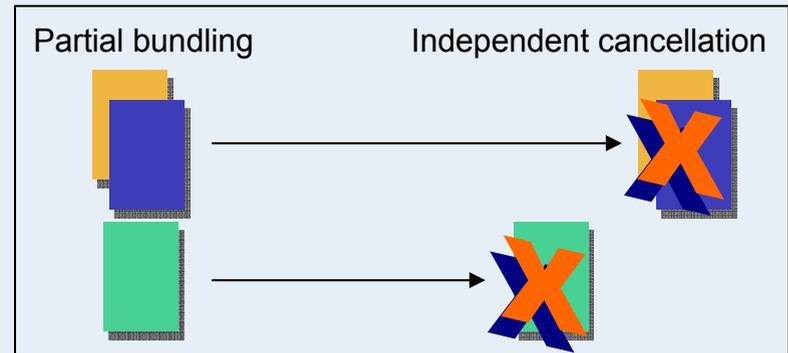
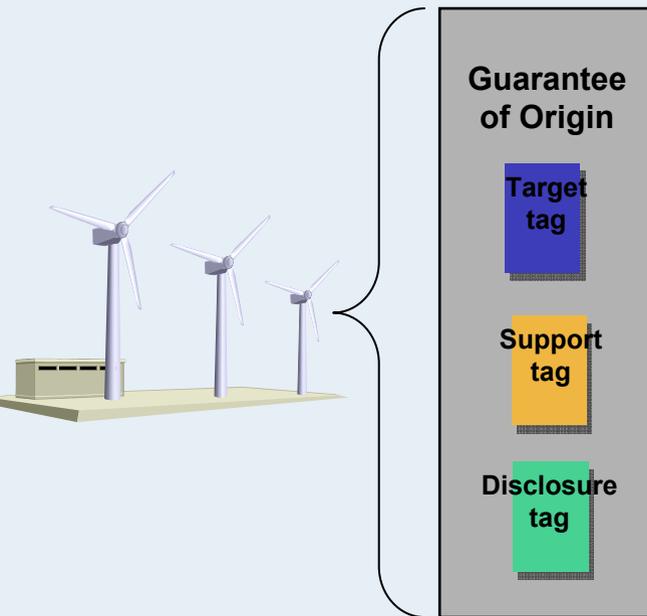
A GO could contain different tags for different purposes of different users



Multi certificate concept



The multi certificate concept is a flexible system which is able to accommodate multiple approaches to separation of attributes



- Partial bundling Independent & Sequential cancellation
- Full separable Independent cancellation

Recommendation for scope of the GO



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Advantages of the proposed system



- Flexible (bundling, unbundling; parallel and sequential cancellation)
- Transparent (electronic databases connected via a hub)
- Effective (a EU-wide harmonised instrument)
- Efficient (low transaction costs → a single system uses the one infrastructure; serves at the same time as an instrument for governments; for producers; for suppliers and for consumers)
- Fraud resistant (no different certificate types with different authorisation and metering procedures, etc.; harmonised calculation methods)



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Thank you for your attention!