



**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.

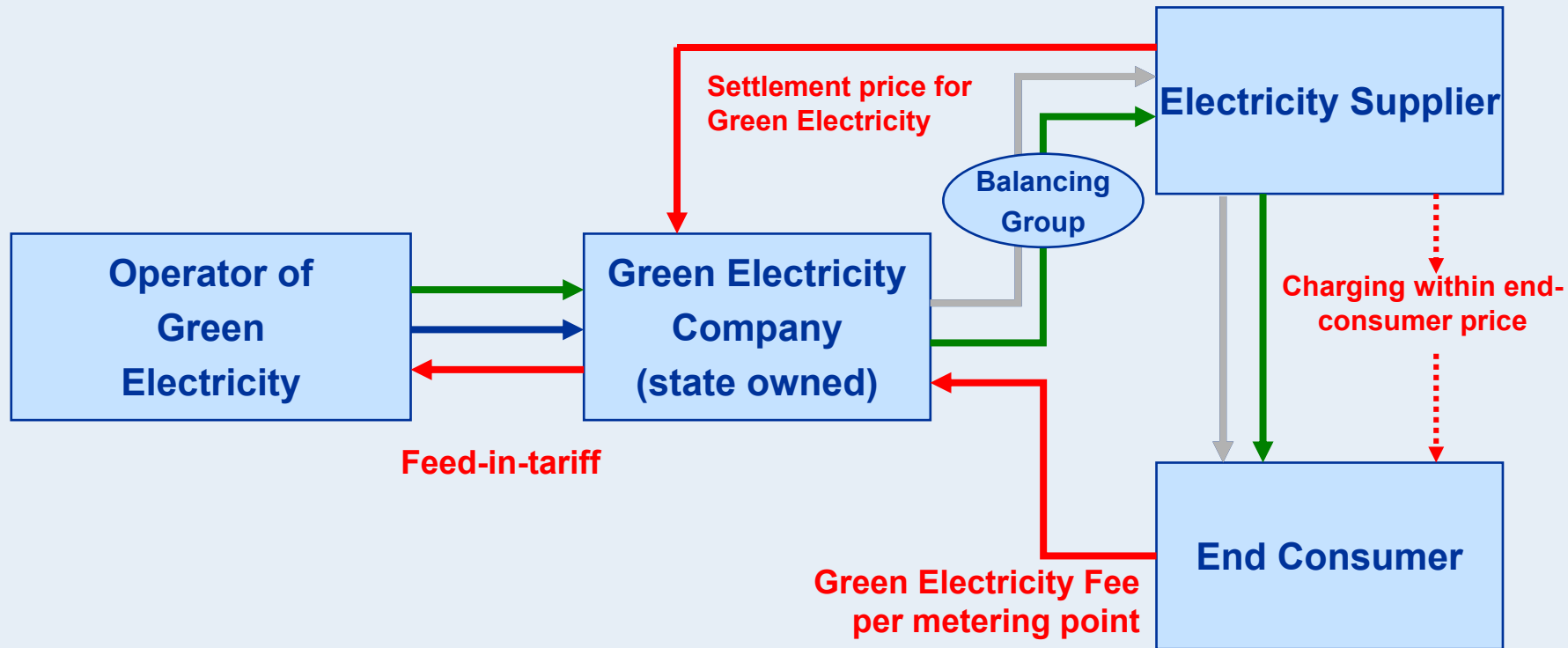
## → New proposal

- 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
<b>Abfall</b>	3.322	32.451.059	115.319.579	130.634.271	87.057.544
<b>Bio gas</b>	42.566.816	99.394.605	217.483.097	359.557.285	436.767.450
<b>Biomasse fest</b>	96.389.511	262.019.117	518.511.417	1.228.096.547	1.716.108.911
<b>Biomasse flüssig</b>	2.054.538	26.967.551	53.135.363	62.532.241	71.193.755
<b>Braunkohle</b>	0	831.782.392	947.277.452	583.924.770	0
<b>Dep onie gas</b>	57.025.499	57.453.974	47.558.861	35.448.728	32.955.743
<b>Erdgas</b>	0	1.266.179.314	3.679.221.457	3.071.345.551	1.399.952.392
<b>Geothermie</b>	2.970.448	2.468.844	992.586.353	1.745.607.779	82.748.098
<b>Heizöl leicht</b>	0	246.575	533.552	526.352	142.671
<b>Heizöl schwer</b>	0	499.595.191	549.281.164	576.341.104	377.692.927
<b>Klärgas</b>	16.020.762	18.865.043	17.689.838	17.230.254	17.564.610
<b>Kleinwasserkraft bis 10 MW</b>	3.441.070.120	4.104.835.425	3.965.261.818	3.912.513.232	3.898.282.474
<b>Photovoltaik</b>	10.787.771	12.434.462	12.942.667	12.116.672	20.621.838
<b>Steinkohle</b>	0	3.747.635.703	4.411.372.712	4.709.969.742	4.234.029.935
<b>Wasserkraft &gt; 10 MW</b>	6.902.659.504	26.587.410.149	30.885.763.021	28.951.742.229	27.119.972.961
<b>Windenergie</b>	367.669.701	929.319.477	1.331.440.773	1.751.613.071	2.035.474.590
<b>Abfall mit hohem biogenem A</b>	0	0		1.200	170.002
<b>Summe</b>	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	?



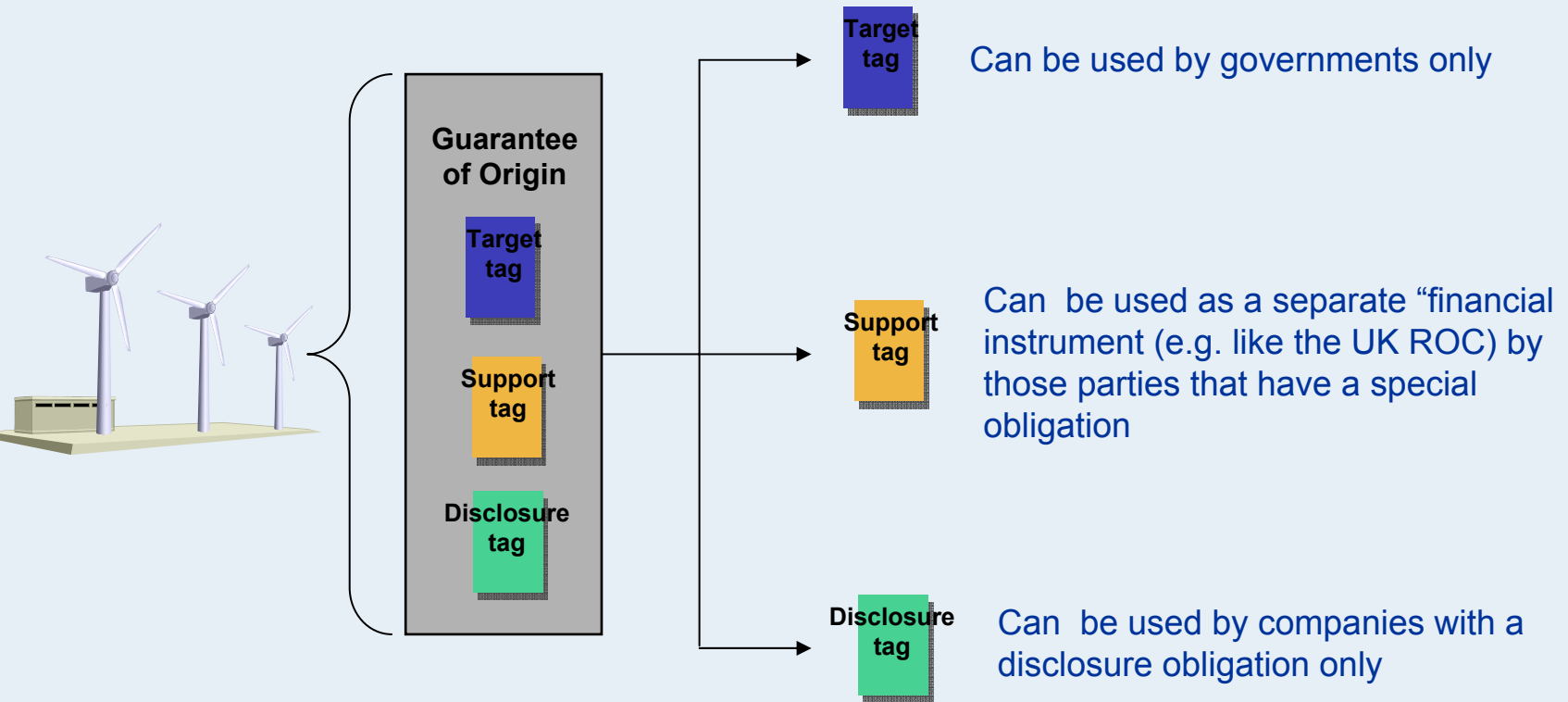
GOs used are used in Austria

- 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



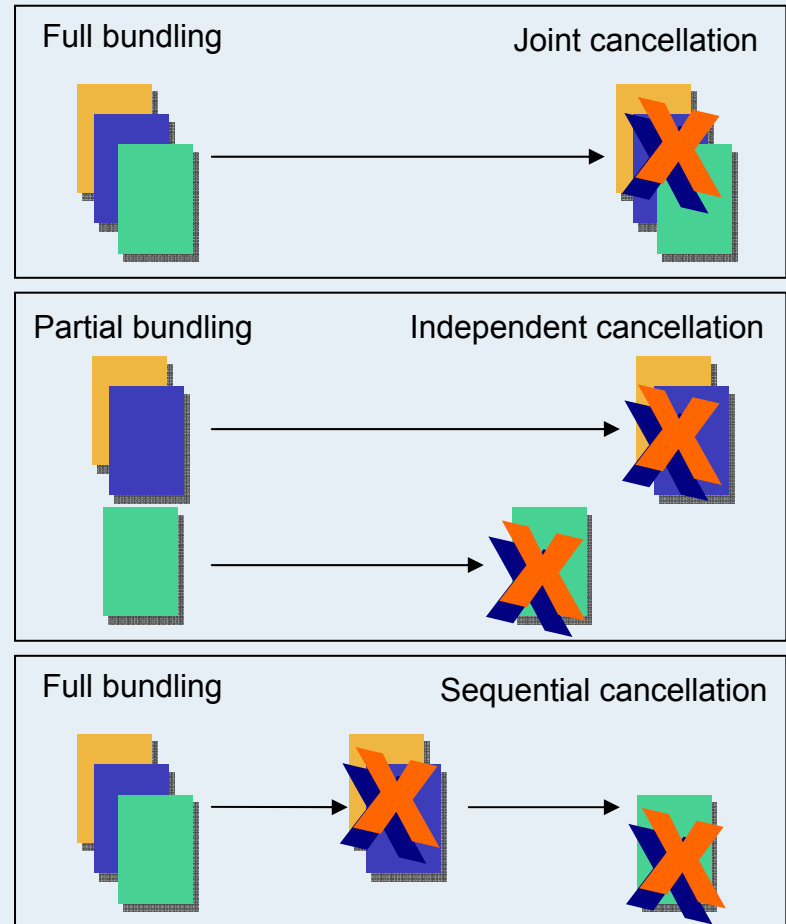
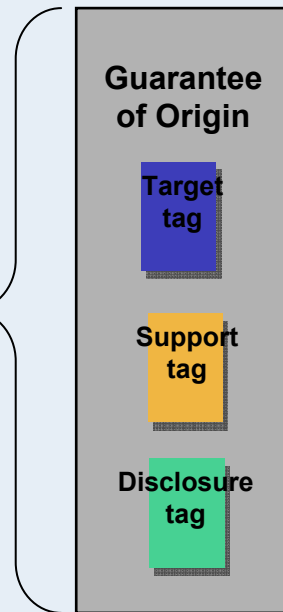
A GO could contain different tags for different purposes of different users



# 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)



## → **Contact**

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**Thank you for your attention!**