1 Implementation of Tracking Systems

As electricity tracking system Austria uses electricity disclosure, which provides consumers with details about the overall fuel mix of the supplier and the respective environmental impact. This well-functioning system runs on Guarantees of Origin (GO) for electricity from all types of electricity: renewable, fossil and nuclear power (which is so far neither produced in nor imported to Austria) as well as high efficiency cogeneration. With the disclosure year 2014 Austria has implemented full disclosure, which means that all electricity consumed by final customers has to be declared with GOs. No “unknown origin” will be declared in the supplier mix.

1.1 Electricity Disclosure

The österreichische Stromnachweisdatenbank (Austrian GO database) was installed in 2003. Several adaptations have been made since then. A restricted disclosure scheme, only for small hydropower, in accordance with Elektrizitätswirtschafts- und -organisationsgesetz 2000 (Electricity Act 2000), was created in 2000. Since the entry into force of the Electricity (Amendment) Act 2002, a full disclosure system has been in place since 2002. The Electricity Act 2010 implements the disclosure regulations of the Internal Market Directive 2009/72/EC into national law (sections 78-79a). Stipulations relevant for renewable electricity GO are also contained in the Ökostromgesetz (Green Electricity Act), first passed in 2002 and amended several times, in 2006, 2008, 2009 and 2012. Further regulations on the display of disclosure and GO are taken in the disclosure by law 2011, amended 2013.

GO are issued on request of the plant operators. The issuing body is the grid operator for the grid zone to which a generation facility is connected.

For Austrian market participants the only purpose of GO is their use for disclosure. Disclosure is mandatory for electricity suppliers that serve final customers in Austria.

Disclosure information has to be stated transparently on annual bills and on information and advertising materials. Other notes and indicators on electricity bills can only be displayed with a clear distinction from the disclosure information which is based on the legal obligation.

The fuel mix, which consists of known and unknown origin of electricity sources, has been calculated in Austria since 2002. Electricity of known origin is based on cancelled GO. Electricity of unknown origin must be declared as statistical value referring to ENTSO-E deducted by the renewables part (section 79 (3) Electricity Act). The suppliers have accepted the methodology included in the Austrian Electricity Act as reliable, accurate and fraud resistant.

Electricity suppliers must document the particulars their disclosure is based on. Documentation must provide conclusive information, broken down by primary energy sources, as how the quantities supplied to final customers are produced. Since the revision of the disclosure by-law in 2013, suppliers are obliged to declare all electricity consumed by final household customers with GO; the use of the ENTSO-E data as residual mix is not possible for household customers. With 2015 (production year 2014) this regulation covers all types of customers, which means that all amounts of electricity delivered to final customers have to be declared with GO and no electricity of unknown origin in the disclosure mix is declared.

The following graph displays a best practice example of a disclosure statement by suppliers based on the disclosure by-law.
Graph 1: Best practice example of a disclosure statement by Austrian suppliers


<table>
<thead>
<tr>
<th>Energy source</th>
<th>Supplier mix in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydro</td>
<td>32.50%</td>
</tr>
<tr>
<td>Wind</td>
<td>11.47%</td>
</tr>
<tr>
<td>Biomass</td>
<td>10.78%</td>
</tr>
<tr>
<td>Biogas</td>
<td>5.32%</td>
</tr>
<tr>
<td>PV</td>
<td>2.35%</td>
</tr>
<tr>
<td>other Renewables</td>
<td>1.68%</td>
</tr>
<tr>
<td>Gas</td>
<td>16.31%</td>
</tr>
<tr>
<td>Oil</td>
<td>16.54%</td>
</tr>
<tr>
<td>Coal</td>
<td>3.05%</td>
</tr>
<tr>
<td>Sum</td>
<td>100.00%</td>
</tr>
</tbody>
</table>

For the generation of the supplier mix the following environmental effects occur:

<table>
<thead>
<tr>
<th>CO2-Emissions</th>
<th>203.1 g/kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>radioactive waste</td>
<td>0 mg/kWh</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Countries of Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
</tr>
<tr>
<td>Norway</td>
</tr>
</tbody>
</table>

In Austria the details that have to be disclosed are:

- Share of the energy source in the supplier’s fuel mix
- Environmental information: CO2 emissions (g/kWh) and radioactive waste (g/kWh)

In terms of energy sources, the following are distinguished in disclosure statements:

- Solid biomass
- Liquid biomass
- Biogas
- Landfill and sewage gas
- Geothermal energy
- Wind
- Solar
- Hydropower
- Natural gas
- Oil and oil products
- Coal
- Nuclear

Except in cases of electricity retailers with less than 100 GWh supply to final customers, the documentation must be audited by a chartered accountant or a publicly certified expert in electrical engineering. The outcome must be published, in an easily readable format and with the auditing body’s confirmation attached, in an annex to the company annual report.
Disclosure is done on an annual basis. Information must be disclosed four months after the end of the calendar year or the financial year.

Energie-Control Austria (E-Control), the Austrian regulator, is responsible for monitoring whether disclosure information is correct as well as hosting the GO database. The results of this monitoring exercise are published in an annual disclosure report on E-Control’s website.\(^1\)

GO issued in other countries have to fulfill certain criteria which are listed in the disclosure by-law. A list of countries in which GO are issued and can be used for disclosure purposes in Austria is published on the regulators webpage.\(^2\) As part of the disclosure statement, the origin of GO has to be declared on the annual bills and information and advertising material.

A company’s disclosure portfolio is determined solely based on the electricity destined for consumption in Austria. Imports are added and exports are deducted to arrive at a company’s disclosure statement.

### 1.1.1 Disclosure Figures

In the following the disclosure data is displayed for the years 2011 and 2012 (disclosure statements 2012 and 2013). In 2013, the year where the disclosure statement for 2012 was done, the revision of the disclosure by-law came into force. Suppliers are obliged to disclose all electricity delivered to final customers with certificates in 2015 (disclosure period 2014), including the intermediate step to cancel GO for household customers based on the total amount of electricity delivered to them in 2014 (disclosure period 2013). In the following table the effect of this obligation to declare all electricity consumed by final household customers with GO is already clearly visible for 2012. Only 7.3 % of electricity is of unknown origin in 2012, after implementing the regulation in the revised disclosure by-law 2013.

**Table 1: Austrian data on disclosure, CO2 emissions and radioactive waste, 2011-2012 (%) and average CO2 emissions (g/kWh) and radioactive waste (mg/kWh)**

<table>
<thead>
<tr>
<th>Disclosure year</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Source</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Renewable sources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydropower</td>
<td>56.1%</td>
<td>65.3%</td>
<td>68.1%</td>
</tr>
<tr>
<td>Solid and liquid biomass</td>
<td>3.9%</td>
<td>3.7%</td>
<td>3.7%</td>
</tr>
<tr>
<td>Wind</td>
<td>3.4%</td>
<td>4.3%</td>
<td>5.3%</td>
</tr>
<tr>
<td>Other renewables</td>
<td>1.0%</td>
<td>1.2%</td>
<td>1.5%</td>
</tr>
<tr>
<td>Fossil sources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural gas</td>
<td>12.4%</td>
<td>13.2%</td>
<td>9.3%</td>
</tr>
<tr>
<td>Oil and oil products</td>
<td>0.3%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Coal</td>
<td>8.7%</td>
<td>4.7%</td>
<td>5.1%</td>
</tr>
<tr>
<td>Nuclear</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Other known energy sources</td>
<td>0.3%</td>
<td>0.3%</td>
<td>0.3%</td>
</tr>
<tr>
<td>Unknown origin (ENTSO-E corr.)</td>
<td>13.9%</td>
<td>7.3%</td>
<td>6.8%</td>
</tr>
<tr>
<td><strong>CO2-emissions (g/kWh)</strong></td>
<td>192.50</td>
<td>129.27</td>
<td>103.33</td>
</tr>
<tr>
<td>radioactive waste (mg/kWh)</td>
<td>0.1002</td>
<td>0.0500</td>
<td>0.0005</td>
</tr>
<tr>
<td><strong>Source:</strong> E-Control Austria, Stromkennzeichnungsbericht</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

\(^1\) [www.e-control.at/de/publikationen/oeko-energie-und-energie-effizienz/berichte/stromkennzeichnungsbericht](http://www.e-control.at/de/publikationen/oeko-energie-und-energie-effizienz/berichte/stromkennzeichnungsbericht) (German only)

\(^2\) [http://www.e-control.at/portal/page/portal/medienbibliothek/oeko-energie/dokumente/pdfs/L%C3%A4nderliste_Feb%202014_en.pdf](http://www.e-control.at/portal/page/portal/medienbibliothek/oeko-energie/dokumente/pdfs/L%C3%A4nderliste_Feb%202014_en.pdf)
1.1.2 Environmental Information

The provision of environmental information is regulated in the Electricity Act 2010. Since 2006 (Electricity Amended Act) electricity suppliers of final customers in Austria have been obliged to document the environmental impact of the energy generated as detailed by the supplier mix. The information provided must include at least CO2 emissions and radioactive waste. In the disclosure by-law the unit of the environmental information has been set with g/kWh for CO2 emissions and mg/kWh for radioactive waste. It is mandatory for final customers’ electricity bills and advertising and information material.

In case generators determine power plant specific data and this data is approved (for example by the CO2 emission trading system or other consultants), it has to be used for disclosure purposes.

Where no power plant specific data is available statistical averages should be used. These are provided by E-Control Austria and shown in the following table.

Table 2: Average data for the calculation of CO2-Emissions and radioactive waste (disclosure statements published in 2015 for disclosure figures 2014)

<table>
<thead>
<tr>
<th>Primary Energy Source</th>
<th>Energie-Control Austria recommends the following data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CO2-Emissions in g/kWh</td>
</tr>
<tr>
<td>Solid or liquid biomass</td>
<td>0</td>
</tr>
<tr>
<td>Biogas</td>
<td>0</td>
</tr>
<tr>
<td>Landfill and sewage treatment plant gas</td>
<td>0</td>
</tr>
<tr>
<td>Geothermal energy</td>
<td>0</td>
</tr>
<tr>
<td>Wind</td>
<td>0</td>
</tr>
<tr>
<td>Solar power</td>
<td>0</td>
</tr>
<tr>
<td>Hydropower</td>
<td>0</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>440</td>
</tr>
<tr>
<td>Oil and its products</td>
<td>645</td>
</tr>
<tr>
<td>Coal</td>
<td>882</td>
</tr>
<tr>
<td>Nuclear</td>
<td>0</td>
</tr>
<tr>
<td>Others</td>
<td>650</td>
</tr>
<tr>
<td>ENTSO-E-Mix, Hydropower-share</td>
<td>0</td>
</tr>
<tr>
<td>ENTSO-E-Mix, Share other renewables</td>
<td>0</td>
</tr>
<tr>
<td>ENTSO-E-Mix, fossil</td>
<td>840</td>
</tr>
<tr>
<td>ENSTO-E-Mix, nuclear</td>
<td>0</td>
</tr>
<tr>
<td>UCTE-Mix/ENSTO-E-Mix, Others</td>
<td>840</td>
</tr>
</tbody>
</table>

[Source: Energie-Control Austria]

Suppliers multiply their fuel disclosure percentage per energy source by the associated CO2 emissions and radioactive waste factors to calculate the required information (CO2 emissions in g/kWh by energy source and radioactive waste in mg/kWh).

This information is updated by suppliers each year and printed on customers’ annual bills. Suppliers must publish fuel mix and environmental impact information no later than four month after the end of the calendar year or financial year on annual bills and information and advertising materials.
1.1.3 Suppliers Fuel-Mix Calculations

The suppliers fuel mix for a given disclosure period is calculated based on evidence of the source of energy. The corresponding amount of certificates has to be cancelled in the Austrian GO database. A supplier's cancelled certificates for a given period have to correspond to the total electricity given to its household customers during that time; therefore exact assignment to a certain energy source can be made. From 2015 onwards, the cancelled certificates have to correspond with the total electricity given to the supplier's total customers (household and industrial customers). Until 2015, the electricity which cannot be identified with certificates was declared as ‘unknown electricity (ENTSO-E mix deducted by the renewables part)’ and the statistical values for electricity in the ENTSO-E grid are applied for informing consumers through annual bills, advertising and information materials. From 2015 onwards (disclosure period 2014) Austria has implemented full disclosure and no residual mix calculations are used any more.

Suppliers calculate their fuel mix once a year, using aggregate data for the entire disclosure period. Imports and exports of the suppliers are taken into consideration. The suppliers publish their individual supplier mix on annual bills and relevant advertising material. Potential product mixes are not part of the official information on disclosure. The information can be given, but it must be clear that the product is not corresponding with the supplier mix and the legal obligation to inform customers. E-Control produces an annual review to monitor compliance with disclosure.

E-Control Austria calculates an overall fuel mix for Austria based on the individual supplier mixes. The result is a value for a given calendar year.

The following details are disclosed: share of the energy source in the supplier’s fuel mix, environmental information: CO2 emissions (g/kWh) and radioactive waste (mg/kWh).

Further, the origin of the certificates has to be disclosed, ex. 80 % GO issued in Austria, 20 % issued in Norway.

The supplier mix and the environmental information of Austrian suppliers are shown in the following tables.
Table 3: Supplier mix and environmental information of Austrian suppliers for disclosure in 2013 (evaluation period 2014)

<table>
<thead>
<tr>
<th>Stromlieferant</th>
<th>Bekenntnis erneuerbare Energiequelle</th>
<th>Bekenntnis fossile Energiequelle</th>
<th>Bekenntnis Nuklearer Energie</th>
<th>Bekenntnis sonstige</th>
<th>ENTEOE Mio.</th>
<th>Summe</th>
<th>CO₂ in g/kWh</th>
<th>Red. Abfall in mg/kWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Einverkehr nach öffentlichen Netzen in GWh</td>
<td>62,999</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mit der Überschüttung erfasste Menge in GWh</td>
<td>43,777</td>
<td>7,909</td>
<td>0</td>
<td>181</td>
<td>3,788</td>
<td>58,707</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mit der Überschüttung erfasste Menge % des Einverkehr aus öffentlichen Netzen</td>
<td>69,15%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zusammensetzung der österreichischen Stromkennzeichnung</td>
<td>79,59%</td>
<td>14,34%</td>
<td>0,90%</td>
<td>0,27%</td>
<td>6,80%</td>
<td>100%</td>
<td>163,33</td>
<td>0,05</td>
</tr>
<tr>
<td>AEG Naturstrom Versand GmbH</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>AVE Wasserkraft GmbH &amp; Co KG</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Alpenwerk Energieversorgung GmbH</td>
<td>88%</td>
<td>12%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>51%</td>
<td>0,000</td>
</tr>
<tr>
<td>Andritz Grazenergie</td>
<td>77%</td>
<td>23%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>201%</td>
<td>0,000</td>
</tr>
<tr>
<td>Arter Kfta. Mühlle Flurk GmbH</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Aspo Deutschland GmbH</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Bad Gleichenberger Energie GmbH</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Döbling, Georg Clar Naturkraft Energie GmbH</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Ehrer Strom GmbH</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>EHA Austria Energie Handelsgesellschaft m.b.H.</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Bad Hofperten GmbH</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk der Gemeinde Münzlburg</td>
<td>12%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>88%</td>
<td>100%</td>
<td>321%</td>
<td>0,024</td>
</tr>
<tr>
<td>Elektrizitätswerk der Gemeinde Schraund</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk der Stadtgemeinde Kindberg</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Eisenhütte GmbH &amp; Co KG</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Gates am Steiner</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Gmünding KG</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Hohen Landau</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Leochl Augarten KG</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Pop Gmbh</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Pratzen GmbH</td>
<td>92%</td>
<td>8%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>35%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Praxt m.b.H. &amp; Co. KG</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Weinzer</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>0%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerke Fransatz Gesellschaft m.b.H.</td>
<td>89%</td>
<td>12%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>51%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerke Rohrbach AG</td>
<td>45%</td>
<td>9%</td>
<td>0%</td>
<td>0%</td>
<td>46%</td>
<td>100%</td>
<td>207</td>
<td>0,022</td>
</tr>
<tr>
<td>Elektrizitätsgesellschaft Wœrthersee, ag, m.b.H.</td>
<td>92%</td>
<td>8%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>100%</td>
<td>56%</td>
<td>0,000</td>
</tr>
<tr>
<td>Elektrizitätswerk Kals am Wald, ag, m.b.H.</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
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## Summary of findings for Austria

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<th>Beliebt bei Nuklear-energie</th>
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### Summary of findings for Austria

#### Stromkennzeichnung der evaluierten Lieferanten im Vergleich, Teil 1

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</table>
1.1.4 Acceptance of GOs

With the disclosure by-law, Austria has implemented criteria for accepting GO issued in foreign countries for national disclosure purposes. The criteria which have to be fulfilled are:

- GO issued have to be in line with Art. 15 of 2009/28/EC
- A disclosure system has to be implemented which excludes double counting of certificates

These criteria have to be checked before using the certificates for disclosure purposes in Austria. A list of countries from which issued GO fulfil the criteria is published on the website of the Regulatory Authority. This list is adapted regularly. ³

1.2 Guarantees of Origin for Electricity from Renewable Energy Sources and High-Efficient Cogeneration

Austria was one of the first countries in Europe to introduce a mandatory scheme for disclosure of generation attributes in 2001. Electricity suppliers in Austria were required to disclose the shares of the different primary energy sources in their overall output, and to print this information on customers’ electricity bills. Legally, the disclosure system was originally based in the legislation of the federal

Summary of findings for Austria

provinces, and so, the schemes differed across Austria. A harmonisation was achieved in July 2002 with the Green Electricity Act and the Electricity (Amendment) Act 2000, which introduced a nationwide disclosure scheme. Since 1 July 2004, all electricity suppliers have been obliged to identify the primary energy sources their electricity is generated from, meaning that the portfolio mix must be included on electricity bills.

E-Control Austria, the competent body by virtue of the Electricity Act, is in charge of supervising disclosure and is entitled to publish a by-law on disclosure.

The current legislation in place for disclosure and GO consists of:

- Section 10 Green Electricity Act (BGBl. 75/2012) on GO for renewables (RES-GO)
- Sections 78-79a Electricity Act (BGBl. 174/2013) on disclosure
- Disclosure by-law 2013
- Section 6 CHP Act (111/2008) on GO for CHP (CHP-GO)

1.2.1 RES-GO System

The Austrian system has been fully implemented since 2003.

The system in place is handled via the Austrian GO database, an electronic registry hosted by E-Control Austria. It is maintained by E-Control Austria with special technical support provided by ATOS.

As a first step together with market participants, accrediting bodies and NGOs, E-Control developed guidelines on disclosure in 2004 and these have been revised in 2007 and 2009. The guidelines were not binding but most suppliers fulfilled the recommendations in displaying their disclosure figures to final customers. In 2011, based on an adaptation of the Electricity Act 2010, E-Control published a disclosure by-law which is binding for suppliers with customers in Austria.

Austrian GO issued in the database are in line with Art. 15 of the Directive 2009/28/EC. Austria has implemented a full disclosure system where GO from all types of sources are issued. Austria issues GO for supported and non-supported plants, but only GO from non-supported plants can be traded internationally. Supported GO have to be used for Austrian disclosure purposes.

Austria is connected to the AIB Hub which is the only mechanism used by Austria for international trade. Austrian suppliers who trade internationally have to sign the AIB-Standard Terms and Conditions. Ex-domain cancellations are not possible within the Austrian system as well as such GO are not accepted from other countries.

For disclosure in Austria it is irrelevant if the electricity produced in a certain power plant is supported or not. Supported and non-supported certificates are accepted for disclosure purposes.

The tracking systems for CHP-GO, RES-GO, fossil (and nuclear) GO are based on the same registry. Responsibilities would be the same for all types of GO.

1.2.2 CHP-GO System

So far, CHP-GOs have been issued only in small amounts in the Austrian system because currently there is no need from market participant side. The tracking system for CHP-GO is based on the same registry and responsibilities are the same as for RES-GO.

1.2.3 EECS

Austria is one of the member countries of EECS. In Austria EECS is used for the issuing, transfer (import and export) and cancellation (use) of EECS certificates. 38 Austrian market participants have currently

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4 In some provinces suppliers could choose whether to use portfolio disclosure or product disclosure, while in others they had to use portfolio disclosure.
signed the Standard Terms and Conditions (STC) which allow them to transfer EECS certificates internationally.

1.2.4 RECs Statistics/EECS Statistics

The following table shows the disclosed electricity in GWh for 2011, 2012 and 2013.

Table 4: Disclosed electricity in GWh in 2011-2013

<table>
<thead>
<tr>
<th>Disclosure year</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source in GWh</td>
<td></td>
<td></td>
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<tr>
<td>Renewable sources</td>
<td>34.440</td>
<td>40.717</td>
<td>43.777</td>
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<tr>
<td>Fossil sources</td>
<td>11.446</td>
<td>9.786</td>
<td>7.991</td>
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<tr>
<td>Nuclear</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Other known energy sources</td>
<td>143</td>
<td>169</td>
<td>151</td>
</tr>
<tr>
<td>Unknown origin (ENTSO-E corr.)</td>
<td>7.423</td>
<td>3.961</td>
<td>3.788</td>
</tr>
<tr>
<td>CO2-emissions (g/kWh)</td>
<td>193</td>
<td>129</td>
<td>103</td>
</tr>
<tr>
<td>Radioactive waste (mg/kWh)</td>
<td>0.1002</td>
<td>0.0500</td>
<td>0.0500</td>
</tr>
<tr>
<td>Source: E-Control Austria, Stromkennzeichnungsbericht</td>
<td></td>
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</tbody>
</table>

1.3 RES-E Support Schemes

Austria has been supporting renewable generation since the entry into force of the Green Electricity Act 2002 (Federal Law Gazette (FLG) I 149/2002 as amended latest by FLG I 11/2012).

The diagram below shows the current supporting scheme in Austria:
Renewable electricity injected into the grid by supported generation plants attracts subsidies in the form of the feed-in tariffs paid by Abwicklungsstelle für Oekostrom AG (the licenced Green Electricity Company, OeMAG) at the rates in force when the contracts with it were concluded. This electricity is allocated to electricity retailers via the balancing groups in accordance with their shares of final consumption.

The annual Oekostromeinspeisetarifverordnung determines the feed-in tariffs for new renewable generation plants where a contract is made with the licenced Green Electricity Company within the budget. The table below shows the development of the feed-in tariffs since 2003.
2 Proposals for Improvement of the Tracking System

2.1 Proposals regarding general regulation on tracking systems

The tracking system of electricity is based on GO and under control of the regulator. Austria has a full system in place which allows the issuing, transfer and cancellation of certificates from all types of electricity sources, including renewables, fossil and nuclear resources. The system in Austria is accurate, reliable and transparent. The one-year lifetime after the production period has been implemented, the size of a RES-GO is 1 MWh and all information required by Art. 15 RES-directive 2009/28/EC is given on the certificate. Only electronically transferred GO are accepted for disclosure. In Austria no other reliable tracking system is in place and no contract based tracking is done.

2.2 Proposals regarding Disclosure

Austria has a full disclosure system in place, including CO2 emissions and radioactive waste, where all electricity consumed by customers in a certain year has to be declared with GOs. The system is in line with EU-directive 2009/72/EC and most of the requirements of RE-DISS BPR.

Supported and non-supported GO can be used for disclosure. Only non-supported GO can be transferred internationally. There is awareness and traceability of supported GO, as recommended by RE-DISS.

The following points are deviations from RE-DISS BPR:

- BPR [5b]: Cancellations of GOs take place until a given deadline in year x+1 where the deadline is set on 31 March X+1. The deadline in Austria is 30 April X+1.
• BPR [17, 25, 26, 28]: There is no concept of residual mix in the sense of RE-DISS as in Austria a full disclosure system is implemented and therefore a residual mix declaration is not necessary. All electricity consumed is declared with GOs.

• BPR [34]: The timing of the publication of the disclosure figures is not in line with RE-DISS BPR, as the proposed deadline for cancelling GO for the purpose of disclosure is 30 April, instead of 31 March as proposed by RE-DISS.

• BPR [33]: Disclosure statements can be based on the calendar or the financial year. This is not in line with BPR [33] which states that the basis should be a calendar year. In practice, almost all suppliers use calendar year as a basis.

• BPR [37]: In Austria supported GOs are used for disclosure, but can only be used and traded within Austria.

• BPR [40, 41]: Clear rules should be established for claims made by suppliers.

2.3 Proposals regarding RES-GO

The Austrian RES-GO system and the CHP-GO system are advanced. The only big deviation from RE-DISS BPR is the fact that the residual mix calculated by RE-DISS is not used in Austria, as a full disclosure system has been implemented.

2.4 Proposals regarding CHP-GO

The proposals for RES-GO are the same as for CHP-GO.

2.5 Proposals regarding Acceptance of GO

Austria’s procedure regarding acceptance of GOs is transparent and well-functioning. The proposal is to implement and publish criteria which are the basis for accepting GO from foreign countries for national disclosure purposes. A common European approach would be the easiest way forward, but most likely difficult to achieve as national interests may diverge. But also national approaches, as long as they are transparent and understandable are a good way forward for the acceptance of GO.

2.6 Further proposals regarding Disclosure

The implementation of a full disclosure system, including renewables, fossil and nuclear GO is implemented since disclosure year 2014. The Austrian system is considered as advanced and well-functioning.

2.7 Matrix of disclosure related problems and country-specific proposals

<table>
<thead>
<tr>
<th>Problem</th>
<th>Country-specific proposal</th>
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<tbody>
<tr>
<td>Possible double counting in different explicit tracking instruments</td>
<td>BPRs: [17], [37]</td>
</tr>
<tr>
<td>Double counting of attributes in explicit and implicit tracking mechanisms</td>
<td>BPRs: [5b], [25], [26b], [28]</td>
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<tr>
<td>Double counting within individual supplier’s portfolio</td>
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<tr>
<td>Loss of disclosure information</td>
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<tr>
<td>Intransparency for consumers</td>
<td>BPRs: [40], [41]</td>
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<tr>
<td>Leakage of attributes and/or arbitrage</td>
<td>BPRs: [5b], [28], [33], [34],</td>
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<tr>
<td>Unintended market barriers</td>
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