

AIB Press Release
Results for 2017 Electricity Residual Mixes published by AIB
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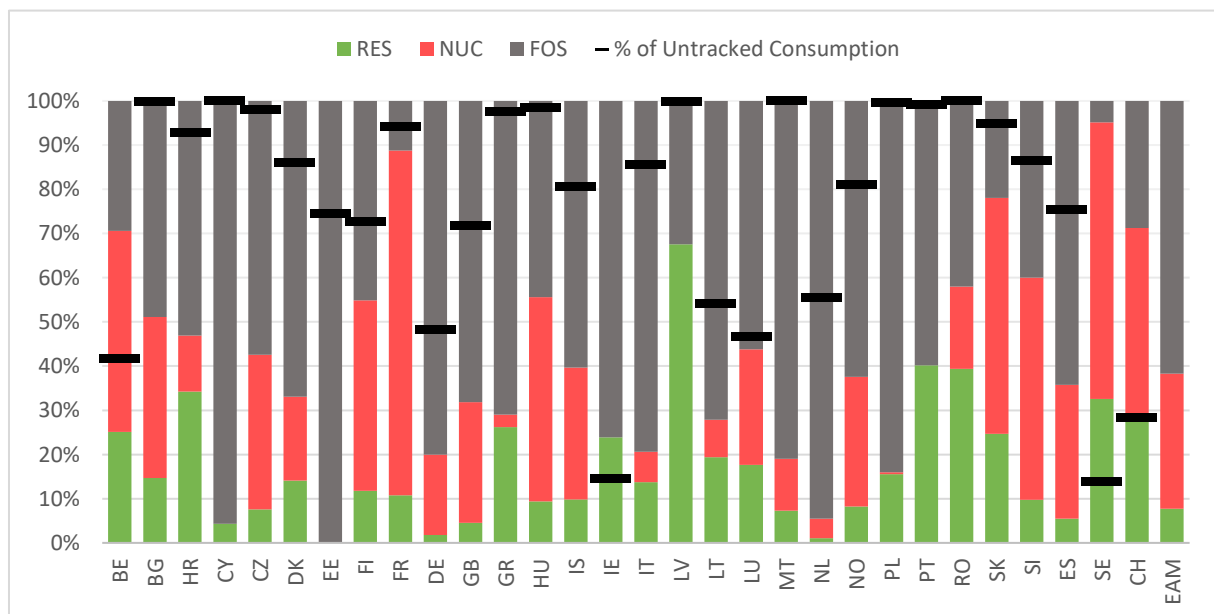
The AIB is now proud to publish the Residual Mixes and European Attribute Mix of 2017. Similar to last year the calculation was carried out by Grexel Systems Ltd on its behalf, assisted by Østfoldforskning and Econvent.

A residual mix is needed for reliable disclosure of electricity consumption where Guarantees of Origin (or in some cases other legally accepted tracking instruments) are not used. Due to the international nature of both the power market and the Guarantee of Origin (GO) market, centrally calculated residual mixes and the European Attribute Mix is needed. Energy authorities use the results of the calculation either directly or to calculate the residual mix for their respective country using national rules.

Key findings of the 2017 calculation are:

- The volume of explicitly tracked consumption grew from 919 to 962 TWh meaning more certification of consumed electricity, using e.g. GOs
- The share of untracked consumption continued to shrink being 71% in 2017. Austria has implemented “full disclosure” meaning that all consumption is certified with GO. The next lowest shares of untracked consumption were in Sweden (13,8%) and Switzerland (28,3%). The low share of untracked consumption indicates the willingness of the power consumers to favour green over generic power products.
- In average, the residual mixes of 2017 have 17,3% (16,9) renewable, 23,8% (23,2) nuclear and 58,9% (59,9) fossil (2016 figures in brackets).
- Volume of total deficit in national residual mixes before balancing via EAM grew from 252 to 277 TWh indicating stronger polarization between importing and exporting countries and hence greater need for centrally coordinated residual mix calculation

Figure 1: Final Residual Mixes 2017



The complete results of the calculation can be found here: https://www.aib-net.org/documents/103816/176792/AIB_2017_Residual_Mix_Results_v11.pdf/8eb82c2b-0fe9-5786-6b21-03e8b6830a94.

The presence and use of a reliably calculated Residual Mix makes the entire disclosure system trustworthy, by determining and correctly disclosing to consumers who are purchasing a non-specific type of electricity. The concept of Residual Mix is also recognized by the “Clean Energy for All Europeans” Package currently being debated by the EU Commission, Parliament and Council.

To avoid so-called “expanding” of energy origin in all cases where GOs are exported, a coordinated European Attribute Mix needs to be calculated and applied. This is why AIB’s coordination of the **EAM calculation complements the HUB**

service of the AIB extremely well: it informs countries of the origin of the energy they receive in return, when GOs are exported via the AIB HUB. This is a prerequisite for a complete and reliable electricity disclosure scheme, and closes the loop for the HUB service.

At the same time, it is important to remember that Residual Mixes can be seen as an intermediary step towards a full disclosure system where all electricity disclosure is done through GOs. This is supported by [AIB's reflection paper](#). Indeed, if all electricity was explicitly tracked through GOs (as it is done in Austria), no residual mix would be needed – which would improve the reliability, accuracy, efficiency and credibility of the disclosure system.

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[AIB](#) represents European certificate system administrators, and is the leading enabler of international energy certificate schemes throughout Europe, and in particular those relating to guarantees of origin under Directives 2009/28/EC and 2012/28/EC. The AIB has developed, uses and promotes a standardised system: the European Energy Certificate System - EECS – which ensures the reliable operation of international certificate schemes. These schemes satisfy the criteria of objectivity, non-discrimination, transparency and cost effectiveness in order to facilitate the international exchange of certificates. In order to further facilitate the international exchange between energy certificates, the AIB operates an inter-registry telecommunications Hub. The AIB also provides a knowledge centre for energy certificate authorities across Europe, providing and sharing advice and guidance.

[Grexel](#) is the leading provider of energy certification services in Europe. Since 2001 Grexel has been assisting various countries in the implementation of reliable electricity tracking and disclosure schemes through providing energy certificate registry systems and related services. From 2010 to 2015 it was responsible for centralising calculations of the European Attribute Mix and Residual Mixes for Europe through the [RE-DISS project](#).