

AIB publishes Residual Mix for 2025: Nearly half of electricity consumption is dynamically tracked with GOs

BRUSSELS, 28 May 2026. The Association of Issuing Bodies (AIB) has published the 2025 European Residual Mix (RM) and European Attribute Mix (EAM) calculation results.

This provides an overview of electricity attributes that remain available for disclosure after the use of Guarantees of Origin (GOs) and other reliable tracking systems.

The AIB states:

"Using the residual mix is the only way to accurately verify power claims that aren't backed by Guarantees of Origin.

A reliable calculation of the residual mix is a prerequisite for a trustworthy renewable energy market.

Without it, the renewable attributes sold to eco-conscious consumers risk being double counted to buyers of regular power.

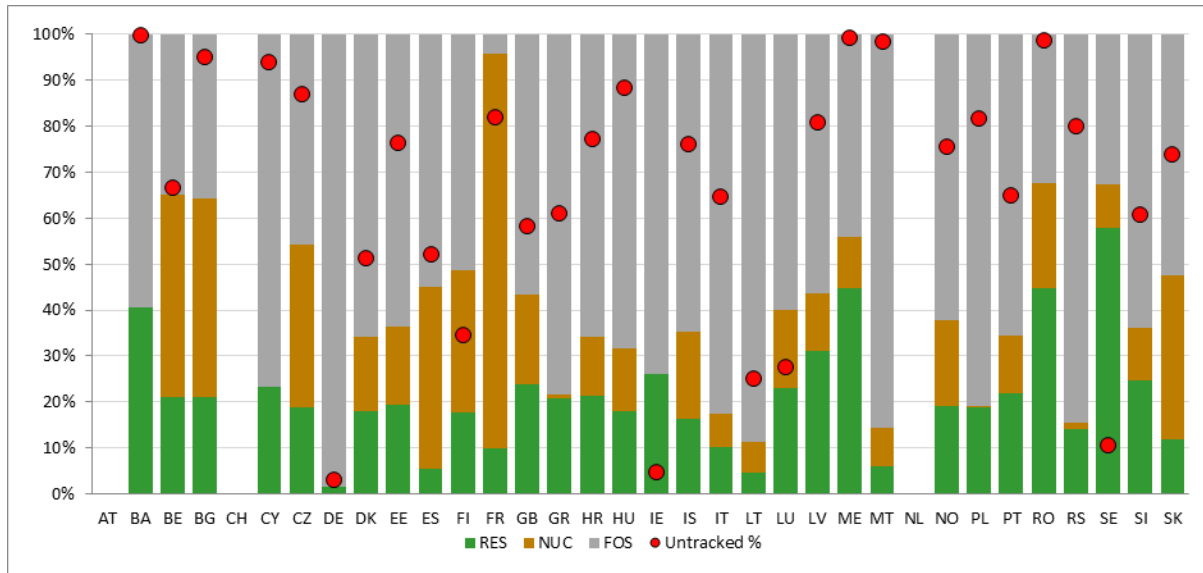
This massive growth in tracking proves that the market relies on our infrastructure to provide absolute transparency."

According to the latest figures, **nearly 50% of all electricity consumed across Europe was explicitly tracked in 2025 using Guarantees of Origin (GOs)** and other certified frameworks.

This represents a staggering **1,530 TWh of energy origin tracked, a 13% increase compared to 2024**, with over 1,000 TWh securely executed through the European Energy Certificate System (EECS) network.

As more attributes are cleanly assigned to specific consumers via GOs, the remaining Residual Mix, which is the pool of untracked electricity left over for general disclosure, is seeing its renewable shares systematically rebalanced to prevent double counting.

The calculation result shows the following **residual mix, covering the share of untracked consumption**:

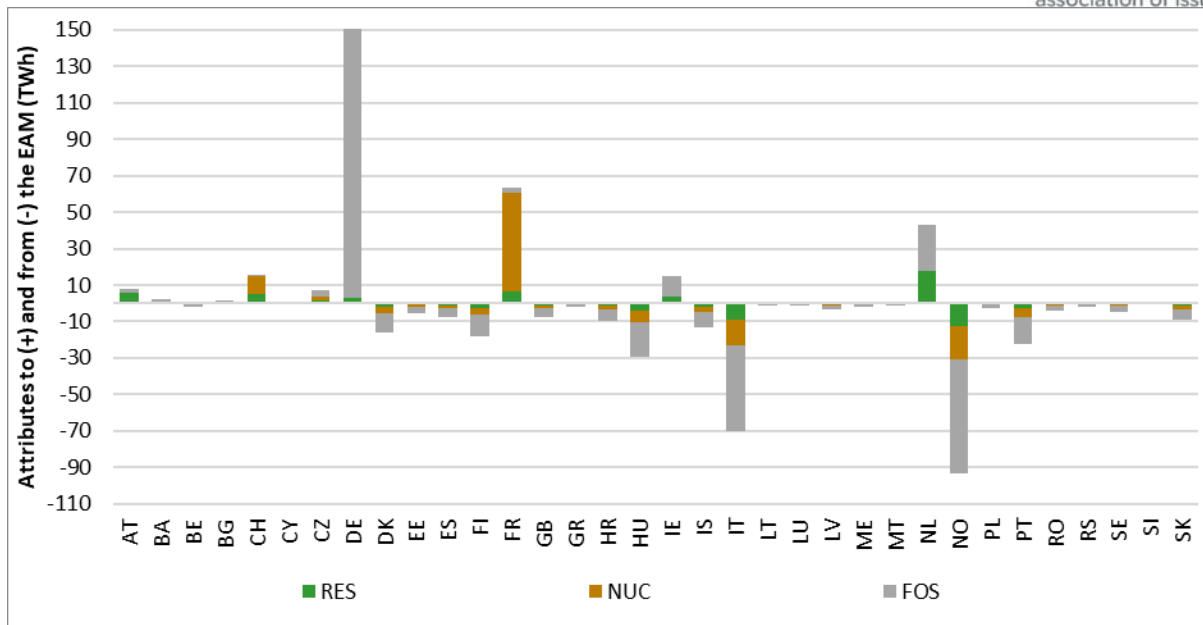


The share of renewable energy in the residual mix is due to renewable electricity production for which no GOs are requested/issued (like production by rooftop solar PV, which increased in 2025), and expired GOs. Yet, it stays an attention point for all who claim renewable energy consumption or supply, also those through PPAs (Contract-based tracking) to ensure this is backed with GOs, or alternatively only claim the energy source shares in the residual mix.

The EAM: Decarbonisation in the balancing pool

A pivotal component of this pan-European mechanism is the European Attribute Mix (EAM), which serves as the international balancing reservoir to stabilize national calculations when a country exports more tracking attributes than its domestic generation allows.

It shows how the deficit after GO export, in the mix in net GO exporting countries like Norway, Hungary, Portugal, Finland, Denmark, Iceland and others, is filled with the surplus energy sources from the net-GO importing countries like Germany, France, the Netherlands, Ireland, Switzerland, Austria and others.



Reflecting the broader shifting dynamics of the European grid, the 2025 EAM composition stood at:

- 13.2% Renewable Energy
- 19.9% Nuclear Energy
- 66.9% Fossil Energy

Crucially, driven by a shifting balance of energy sources within the calculation pool, the CO₂ intensity of the EAM dropped substantially, plunging from 536.9 gCO₂/kWh down to 468.4 gCO₂/kWh. This significant decrease highlights that even the unallocated grid mix is becoming cleaner year-over-year.

Methodology & Execution

On behalf of AIB, the calculations were centrally coordinated and executed by the European Energy Exchange (EEX), based on reporting by national competent authorities for disclosure, AIB statistics, Eurostat, EcoInvent emission data. By that AIB ensures a mathematically rigorous approach to prevent market fragmentation across the continent.

Find the full 2025 calculation report, featuring deep-dive country profiles and comprehensive disclosure methodologies, now publicly available on the [AIB website*](https://www.aib-net.org).

About AIB



The AIB is the leading European authority safeguarding the operation of energy attribute tracking systems. By managing the European Energy Certificate System (EECS), AIB ensures the seamless, reliable, and international transfer of Guarantees of Origin, empowering a transparent energy transition across Europe.

Get in touch for further questions or interview inquiries.

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**Hyperlink: <https://www.aib-net.org/facts/european-residual-mix>*