Residual Mix Calculation Methodology

Fast course to balancing of energy attributes in Europe

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Disclosure in a nutshell

Suppliers shall specify in bills the contribution of each energy source to the electricity purchased by the final customer... (2019/944)

Where an electricity supplier is required to demonstrate the share or quantity of energy from renewable sources...it shall do so by using guarantees of origin except: (2018/2001)

• (a) as regards the share of its energy mix corresponding to non-tracked commercial offers, if any, for which the supplier may use the residual mix

Member States shall ensure that the same unit of energy from renewable sources is taken into account only once. (2018/2001)
Balance 8.3.2020
1324 €

Withdrawal 9.3.2020
200 €

Balance 10.3.2020
1324 €
My dream continues with renewable energy...

Producers

Withdrawal

Consumers

NO! If you’re gonna track electricity, you need to pay the price!
But then I woke up...

And the price is the residual mix

Consumers

Producers
I hit the snooze and kept sweet dreaming...

RM is still 100% green
But then it hit me... Renewable origin doesn’t multiply!

Europe 2019 Production

+ phys. Exp/imp outside Europe

Europe 2019 Consumption

Enter Physics:
Every consumed MWh in Europe has an origin!

→ the missing attributes are somewhere we just need to find them
WAKE UP! THE SYSTEM ONLY WORKS IF THERE IS A BALANCE
RM Calculation is not over until every MWh finds its way to disclosure

RM is still 100% green

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Residual mix is the "Counter-force" of the AIB HUB

Domain A

International Residual Mix Calculation

AIB HUB

Domain B
Balancing with the EAM (2018)

Source: AIB 2019

Green = RES
Red = NUC
Dark = FOS

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RM in a Nutshell

RM is an international allocation mechanism for electricity generation attributes, which are not explicitly tracked by instruments such as Guarantees of Origin.
Thank you!

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