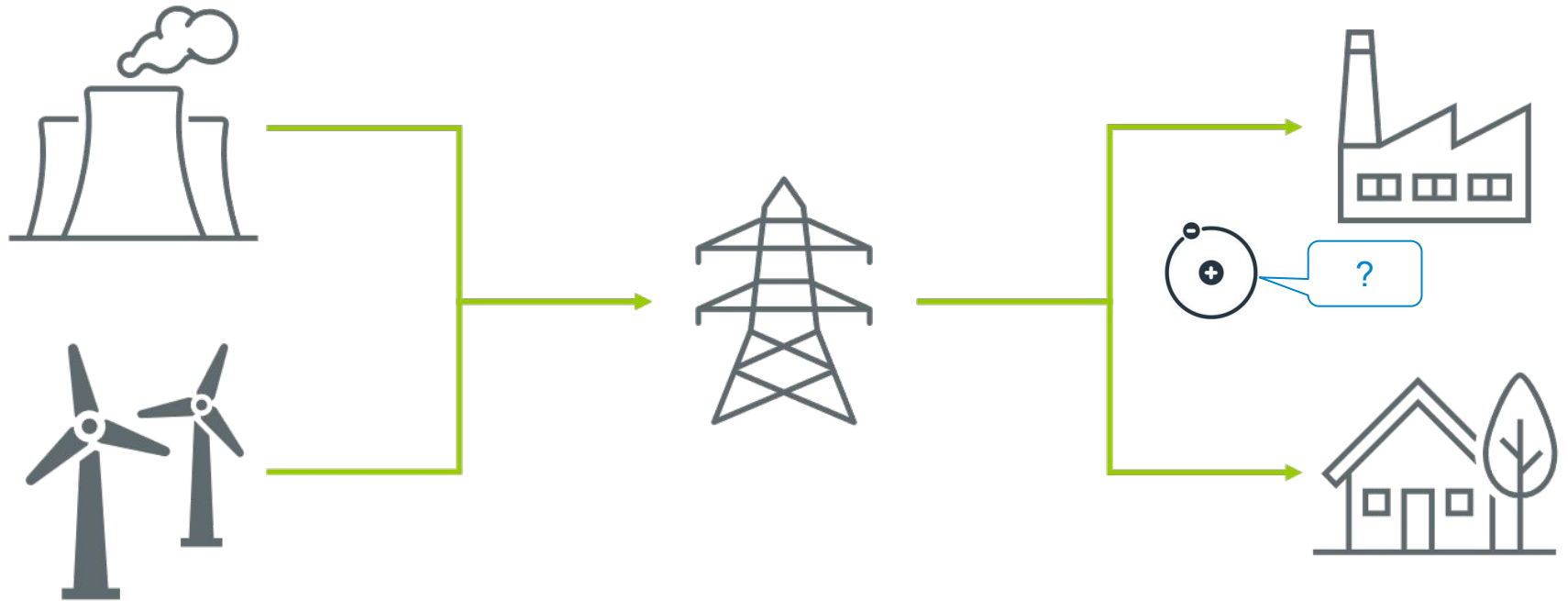


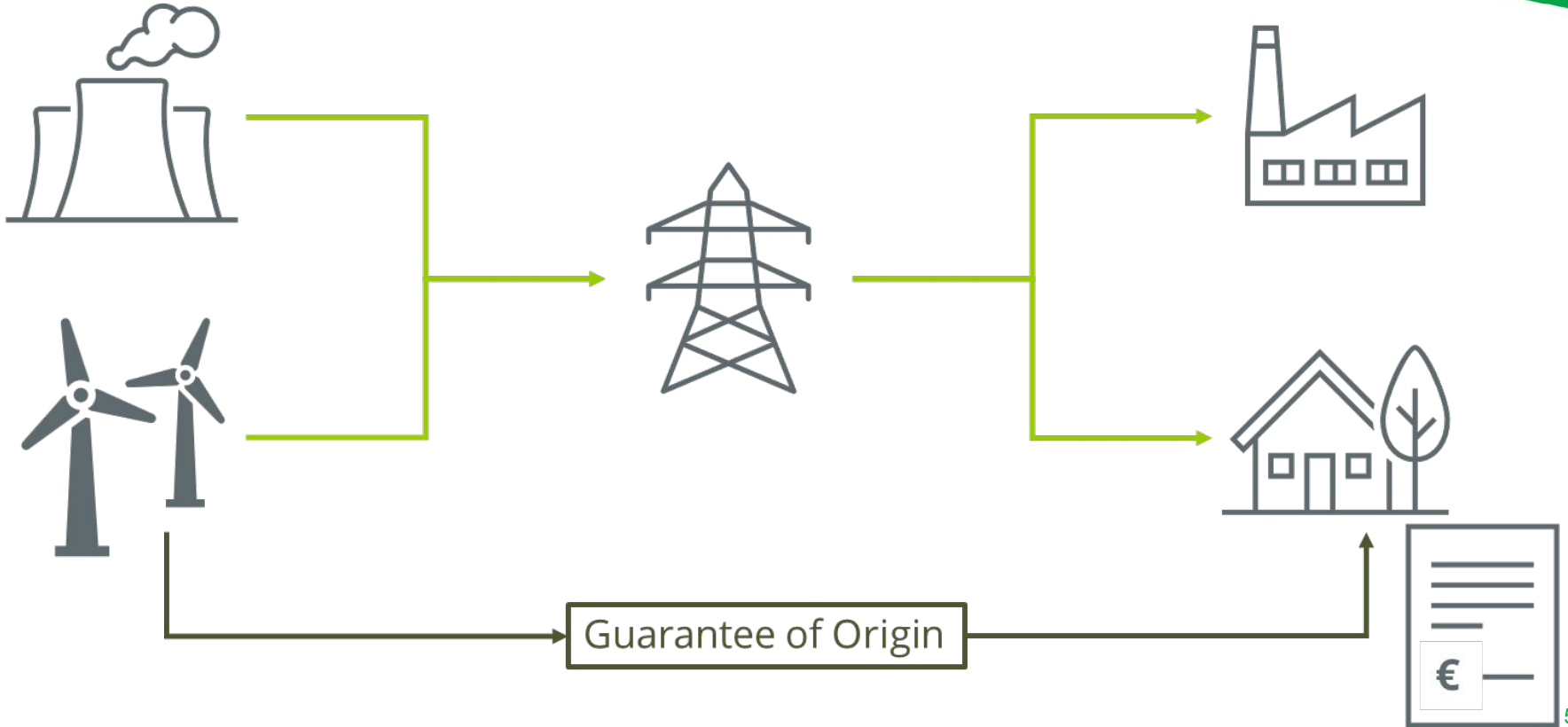
# Why do we need certification?

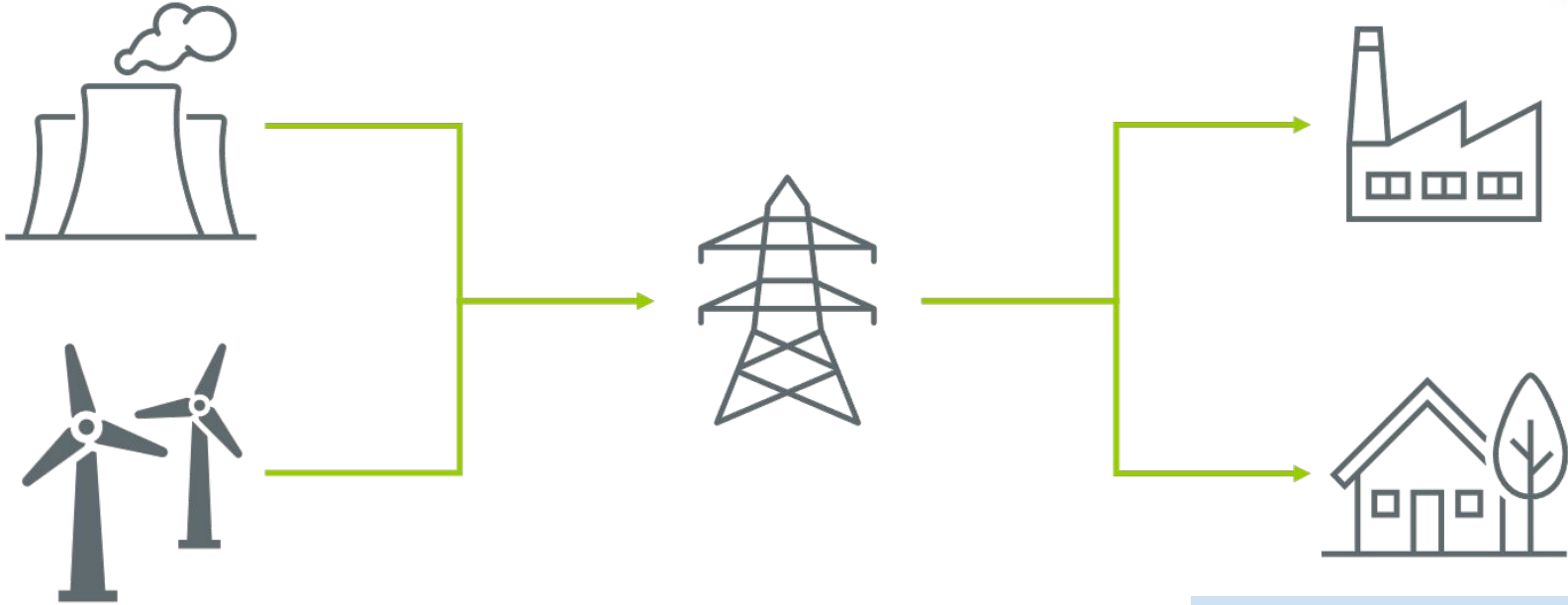
Bram van der Heijde  
AIB - EECS Quality Officer

# Energy markets and systems are complicated

Where does the green electricity go?







**Issue GO**

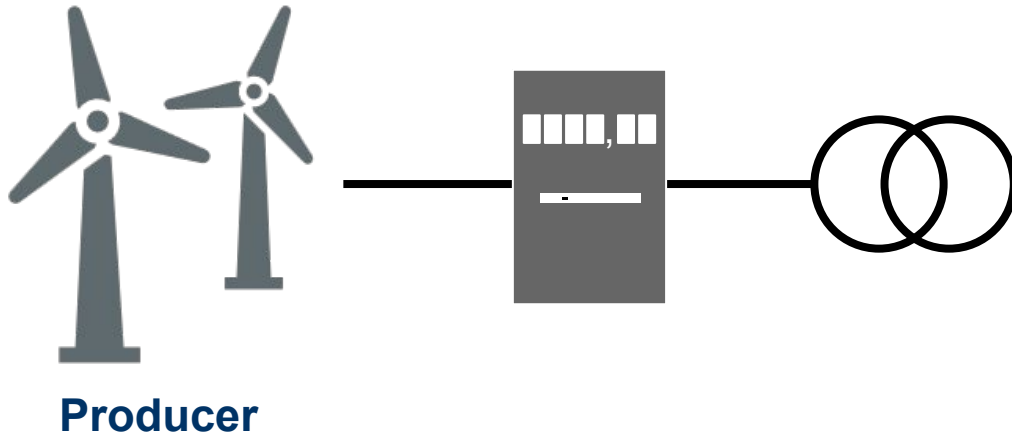
Guarantee of Origin

**Cancel GO**



Cancellation = Retirement = Redemption

# How to issue GOs?

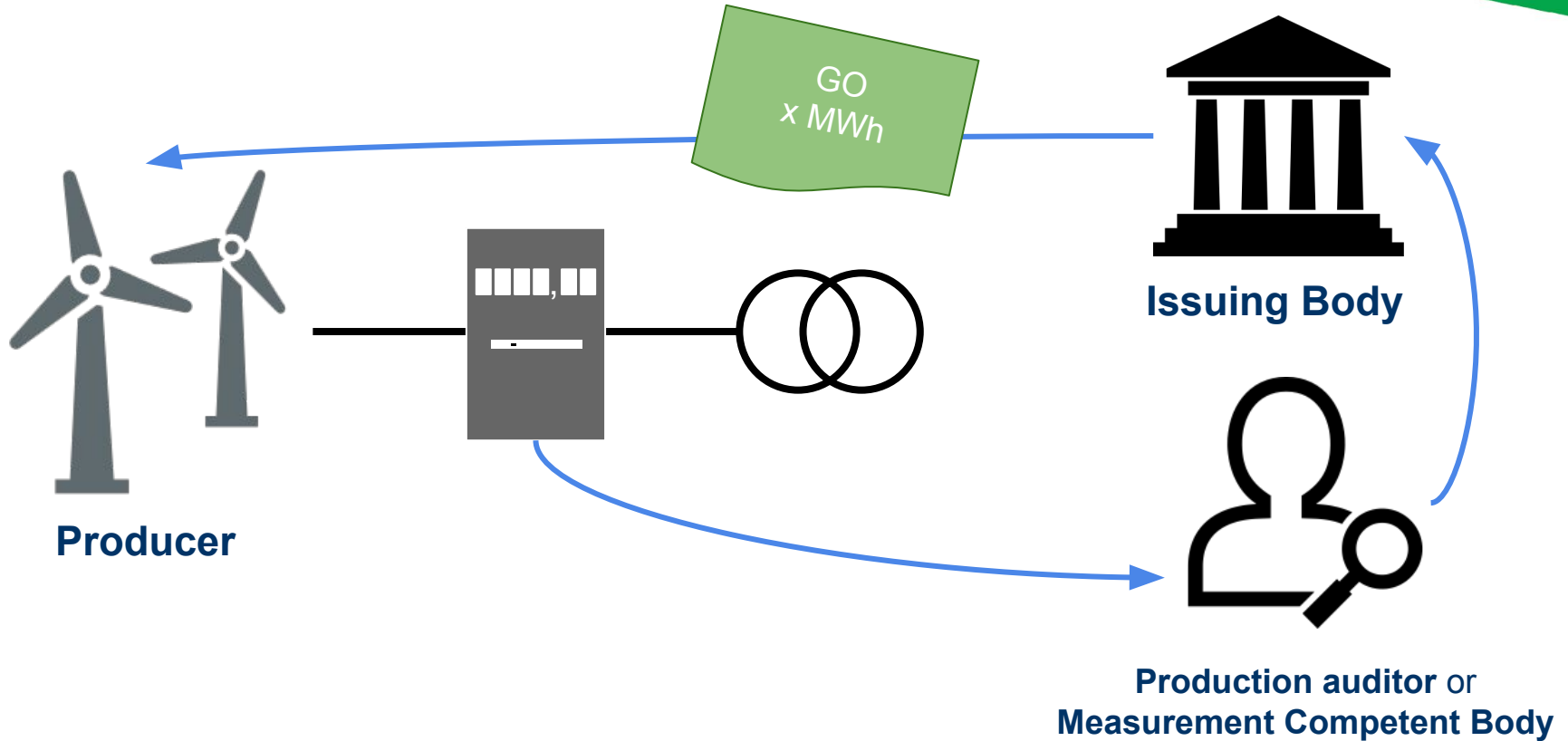


**Issuing Body**



**Production auditor or  
Measurement Competent Body**

# How to issue GOs?



# What's on the GO?

Guarantee of origin = 1 MWh

Energy Source

...

Energy Carrier

...

Identification of producer

...

Support?

...

Date operational

...

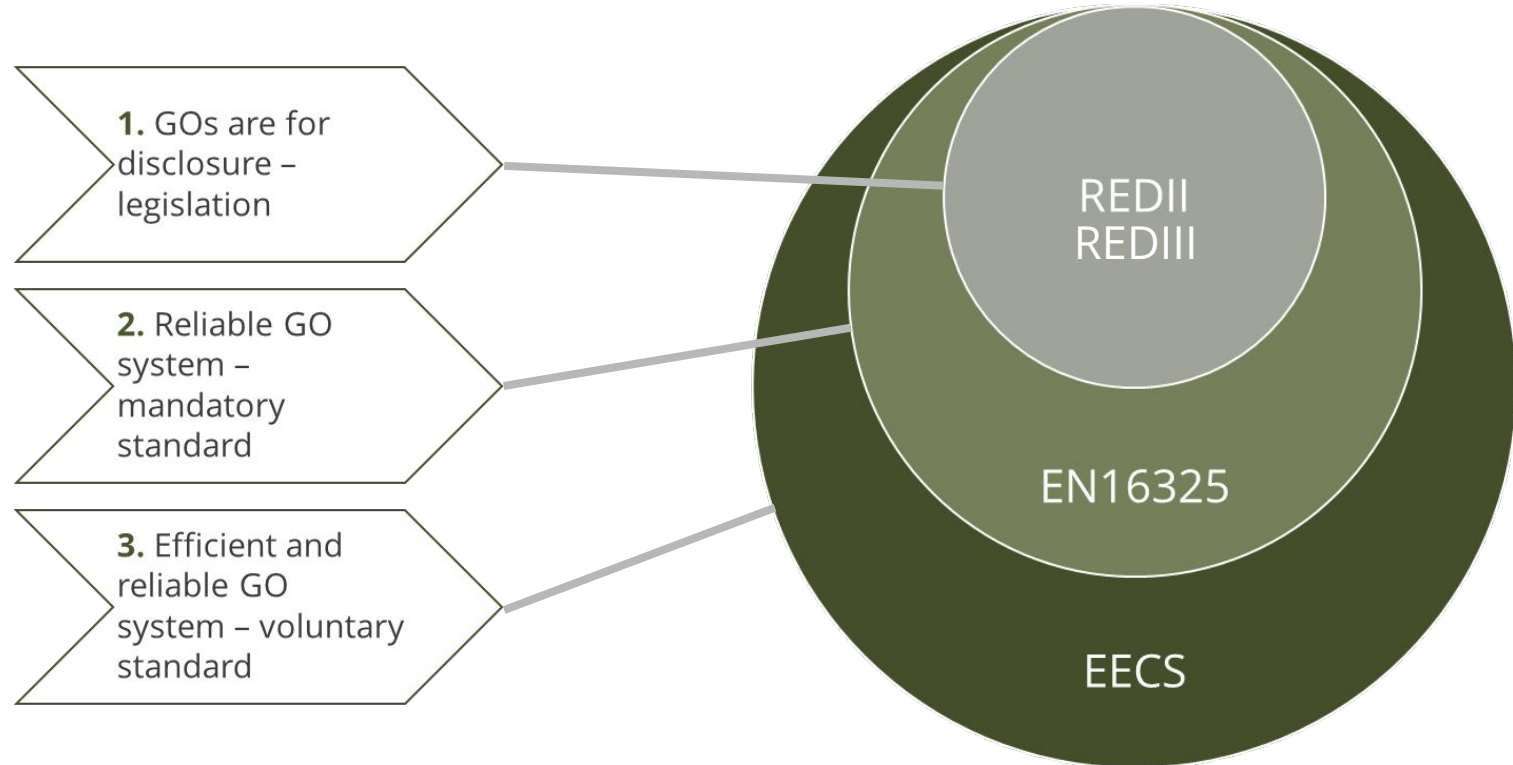
Date & Country issued

**Unique ID**

Other mandatory and optional  
fields, following standards

Mandatory under RED3

# Link GOs - RED - EECS



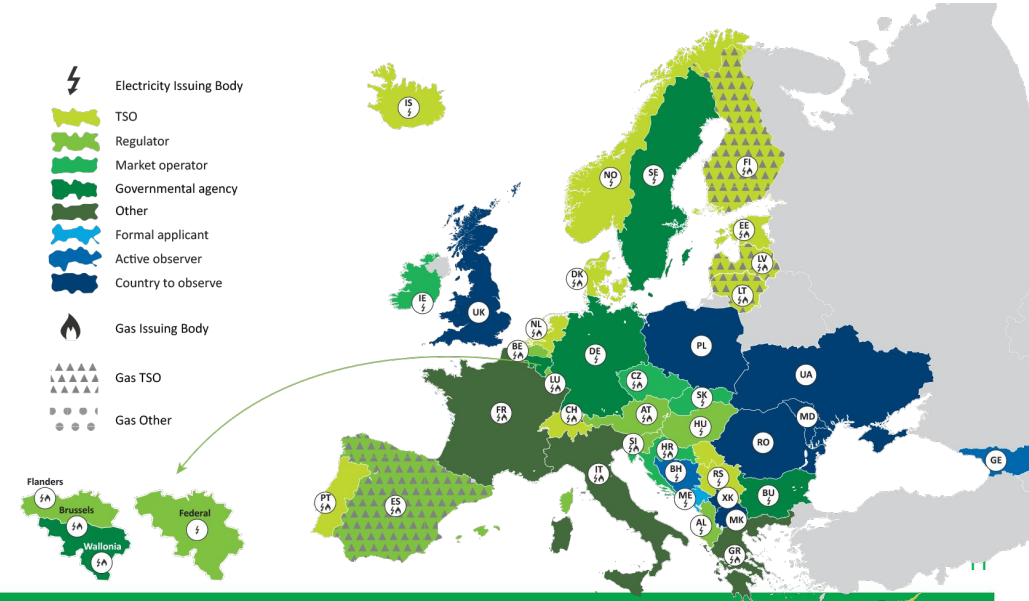
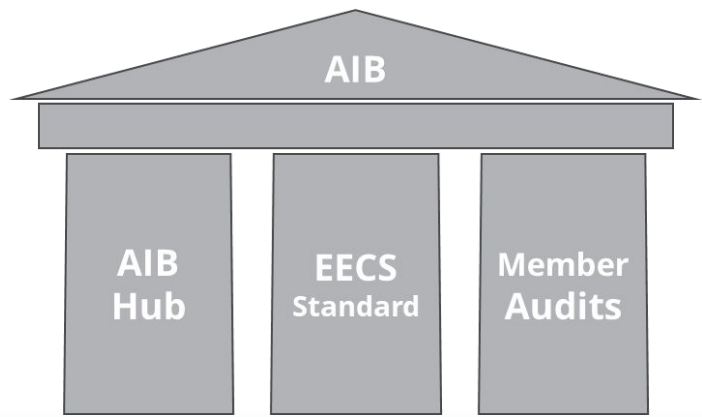
Note: EECS covers also other products than guarantees of origin



# What is AIB? What is EECS?



- AIB: Association of Issuing Bodies
  - Non-profit European Association
  - 37 Issuing Bodies, operating national GO systems
  - Different countries, different players: TSOs, regulators, market operators,...
  - Mission “Guaranteeing the origin of European energy”
- EECS: European Energy Certificate System



# Data on EECS Certificates

## Data on generic EECS Certificates

Energy Carrier
•Electricity/ Energy Gas / Hydrogen
Product
•GO / Support Certificate / Target Certificate / Independent Criteria Scheme
•Product name
Unique certificate number
Production period (start and end dates)
Energy source
Type of installation
Production device info
Identity and country of originating member
Issue date
Identity and country of relevant competent body
Purpose
•Disclosure, Support and/or Target
Support received by type
Dissemination level
Face Value
Conversion Tag & Storage Tag
Label(s) *
Carbon Footprint *
Timestamp *
Production Device Module *
Radioactive waste *

## Additional on Electricity certificate

### High-Efficiency Cogeneration

High Efficiency Cogeneration Criterion Met?
• Y/N
• If Yes, then also following fields are mandatory
Lower Calorific Value
Use of Heat
Primary Energy Savings
• % PES
• Absolute PES
GHG Emissions
• %
• Absolute

### Fossil energy sources

GHG Emissions
---------------

### Nuclear energy sources

Radioactive Waste
-------------------

## Additional on Gas certificate

Type of Gas
• See Fact Sheet
Whether Higher or Lower Calorific Value
GHG Emissions Saved & Produced *
• + Methodology reference
Sustainability Criteria met?*
• Y/N; requirements, scheme, name Certification Body, reference to report
GHG saving criteria met?*
Calorific value *
End-Use of gas category*
Source-Shares *
Production Device Module(s) *
• Description, capacity, date operational
Pre-Conversion support info *
PurityOfGas *
CompositionCriteriaReference *
Advanced Biofuel Criteria Met? *

Legend:	Mandatory information field
	*Optional information field

# EECS transactions by production date (TWh)

