

A European Tracking System for Electricity (E-TRACK)

Introduction to the project

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Second meeting of the E-TRACK Steering Committee

Brussels

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Point of departure (1/2)

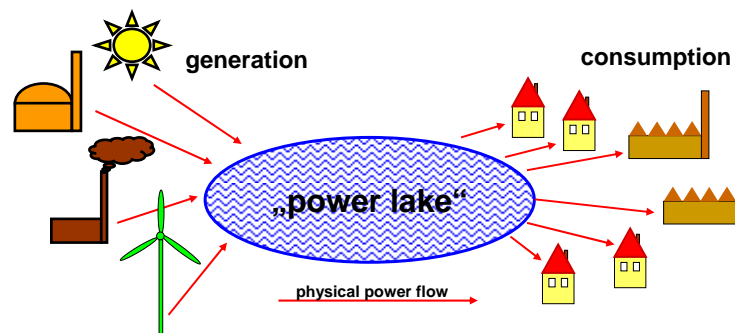
Several **EU and MS policies** require to account for certain “attributes” of electricity (generation)

- Electricity disclosure / labelling
- EU targets for market shares of certain fuel sources and technologies (e.g. RES-E)
- Public support schemes, e.g. for RES-E and CHP
- Differentiated electricity tax (based on e.g. fuel source)
- Guarantees of Origin (GO) for RES-E and CHP
- Green Power for voluntary demand
- Statistical reporting on power generation and demand

Point of departure (2/2)

- Such “attributes”, which need to be accounted for, include
 - Fuel sources
 - Generation technologies (e.g. CHP)
 - CO₂ emissions and radioactive waste production (if not calculated based on average data)
 - Public support granted for generation
 - Accounting of RES-E generation for the EU target of the generation country
 - (Additional plant data?)
- Some of these attributes need to be “tracked” from generation to the final supplier or consumer
- The electricity market currently does not support such tracking

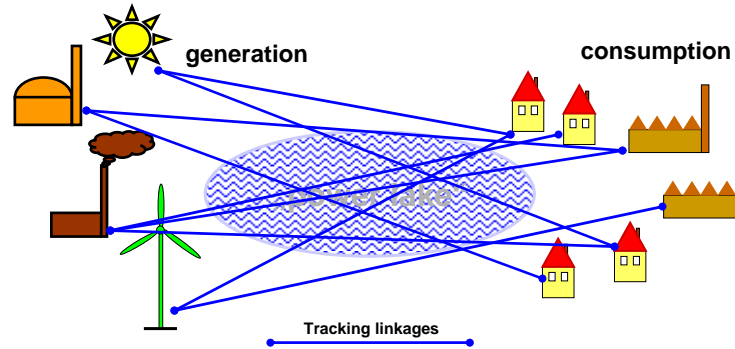
Tracking of electricity attributes (1/3)



Definition of “tracking”:

- Create unambiguous links between power plants and electricity sold to final consumers
- Transfer information about power generation attributes to consumers or other parties (e.g. regulators, governments)

Tracking of electricity attributes (2/3)



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Tracking of electricity attributes (3/3)

“Explicit” vs. “implicit” tracking mechanisms:

- **“Explicit” tracking:**
Tracking based on a mechanism, which creates a link between generation and consumption
Options for “explicit” tracking:
 - Tracking based on a certificate system
 - Contract based tracking
- **“Implicit” tracking:**
Tracking using statistical data or averages
e.g. UCTE/Nordel generation mix, national generation mix, individual company generation mixes

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Project objectives

Overall goal of the project

- To draft a **harmonised standard** for tracking electricity generation attributes in Europe

Additional project objectives

- To cover **all relevant tracking requirements** which are imposed by European and national policies (disclosure, guarantees of origin, support schemes, Green Power etc.)
- To **facilitate cross-border trade** of electricity and generation attributes
- To **avoid multiple counting** of electricity attributes (e.g. from renewable energy sources)
- To simplify **verification** of tracking procedures

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Work packages and WP leaders

| | |
|---|-------------|
| WP 1: Analysis of existing allocation schemes | ECN |
| WP 2: Analysis of the framework conditions for tracking | ECN |
| WP 3: Non-technical specifications | Oeko |
| WP 4: Technical specifications | Pure Energi |
| WP 5: Cost Assessment | AEA |
| WP 6: Consultation Process | Oeko |
| WP 7: Finalisation of system specifications | Pure Energi |
| WP 8: Dissemination | IT Power |
| WP 9: Common Dissemination Activities | Oeko |
| WP10: Project Management | Oeko |

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