

## Workshop with customers Energy Track & Trace

**European cooperation** on real-time tracking of sustainable energy.

elering

November 17th 2021







## Agenda Workshop #1

- 1. Setting the scene
- 2. Snapshot of 2025: 2 user journeys
- 3. Comments & voting
- 4. Next step



## **Our goal of today:**

- Get you up to speed
- Get input to 2 user journeys





# Why join this initiative?

Together, we set new standards by creating solutions that work.

1) Co-Create and influence the Granular Certificate development of the future

2) Voice what brings value to you and is relevant for you and your industry

3) Use your First-mover position to accelerating RE and thereby ensure more sustainable and costeffective energy

4) Concrete demonstrator project, build on data and digitalization



### **3 TSOs drive Energy Track and Trace initiative:**





Estonia



East Germany and Belgium

Denmark



CS Energy Track and Trace is your real-time digital proof that sustainable energy choice actually makes a difference



## Timeline



right direction. Feedback during three workshops.

Developing communication and branding.

potentially regulated. Pave the path as we go.





## **Commitments from partners**





# 3 TSOs – 3 Journeys – 1 shared vision



### **Current setup**

- Team focused on technical deliveries
- Team focused on market/user journey
- Legal adviser / regulatory affairs

### What we bring

- Technical functional prototype ready by Christmas
- Ready to onboard data

### What we seek

- Customers who will engage with data
- International voice



### **Current setup**

- Team focused on concepts
- DataHubs and registries for renewable electricity and gas

### What we bring

 Electricity and gas expertise – TSO, data hub and registry operator, GO issuing body

### What we seek

- Expanding the usage of GOs
- International voice

# ENERGINET

### **Current setup**

- Full scale IT-system (EnergiOprindelse) in DataHub build Open-source
- 5 streams engaged, incl. Legal advisers

### What we bring

- Prove of Concept May 2021 approved
- Basic system release Q1-2022
- Market and regulatory muscles

### What we seek

- Scaling opportunities
- Customers who will engage with data
- International voice



## The target picture (2025): Fundamental principles



# The book-and-claim approach will be maintained for certification of renewable electricity...





### ...but improved along its value chain.



Further generator data (such as source, location, commissioning date).

### From a regulated base layer to the end-customers







# The target picture (2025): 2 use-cases of the future

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|----------|
|          |
| <u> </u> |

Case 1: A large data-center operator willing to become 24/7 green via PPAs.

Case 2: A small producer of plastic bottles is willing to become 24/7 green.



### Case 1 - User journey for large consumers (corporate PPA use-case)



ENERGY

**TRACK & TRACE** 

## Case 1 - User journey for large consumers (corporate PPA use-case)





### Way to get to 100% green:

- Investment in further PPAs | over-production.
- **Demand side** flexibility (in line with process requirements and grid tariff structure).
- Investment in **storage**.

## Case 2 - The user journey for smaller consumers (no-PPA use case)





### The user journey for smaller consumers (no-PPA use case)





#### Way to get to 100% green:

 Active procurement of granular certificates (and thereby supporting renewable expansion)



Go to www.menti.com and use the code 4255 4036

# **Comments and voting**

### The 2 user journeys

Let's engage in Mentimeter for online voting

Case 1

User journey for large consumers (corporate PPA use case)



User journey for smaller consumers (no-PPA use case)

### (ex-post) Market design for Granular Certificates



**Market layer** 

### **Continuous Market Place**

Producers (Sellers) of Granular Certificates: Anytime after the production happened, sellers can place offers on the market.

Such as: • Price

- Wh for sale
- Further information (such as energy source, commissioning date, location)



**Consumer/Suppliers:** The can apply filters and continuously buy granular certificates.

Consumers will know exactly what they get.



### **Regular Auctions**

Consumer/ Suppliers: Expressing their will to buy (price)

Producers (Sellers) of Granular Certificates: Anytime after the production happened, sellers can place offers on the market.

Auction: On a regular basis.

Random allocation of granular certificates



## Go to www.menti.com and use the code 4255 4036

## **Comments and voting**

### The 2 market concepts + no central market – results below:





# To make this fly...

### **Barriers**

- 1. Regulatory
- 2. GO vs GC (Double counting)

- 3. How to onboard consuming Granular certificates?
- 4. Communication

### ...and initiatives to tackle them

- REDIII, CEN standard being addressed through signals sent to national administration and European Commission
- 2. Collaboration & co-creation how to overcome these obstacles with relevant authorities and specialists
- 3. Workshops facilitated by e.g. Energy Track and Trace, EnergyTag etc.
- 4. Web&SoMe, Panel talks, Press releases, www.energytrackandtrace.com





# Summing up and next step

1. Collecting your comments and input

- 2. Workshop "2 will take place January 27 2022
  - Focus points for Workshop #2 Barriers to succeed how to tackle the them...
  - Mobilize for data sharing





Energy Track and Trace is your real-time digital proof that sustainable energy choice actually makes a difference

See you 27th of January 2022