ROLE OF GLOBAL COOPERATION FOR CREATING POWERFUELS MARKETS

STROMMARKTREFFEN – 27.09.2019
WHAT ARE POWERFUELS?

Powerfuels

- are synthetic gaseous or liquid fuels based on (green) electricity
- deliver energy or basic materials feedstock for many use cases
- are an renewable alternative to fossil resources to avoid CO₂ emissions
4 KEY QUESTIONS

- Who pays for the learning curve?
- How to prove powerfuels are green?
- Which sectors would (first) use powerfuels?
- How would global powerfuels markets look like?
Till now

- Industry initiatives – Hybridge, Element Eins, North Sea Wind Power Hub
- Governmental support programs – Reallabore, national hydrogen strategies

But, international interest is slowly developing

- The case of South Africa – Platinum mining, Coal-to-Liquid plants, < 2 ct/kWh renewable electricity
- Morocco, Middle East, Chile, Russia …..

Powerfuels are enabling new business models for renewable electricity!
COMMON GLOBAL POWERFUELS STANDARDS ARE NEEDED

- Proof is needed that powerfuels are green
- Sustainability Standards, Guarantees of Origin
- Avenues for international standards development
  - RED II implementation (import from non-EU countries)
  - Australia – Japan collaboration
- Active discussion in Europe
- Future fuel markets include both physical and certificates!
INTERNATIONAL PROJECT DEVELOPMENT HAS ALREADY STARTED

- Off-taker consortiums
  - Airline companies
  - Fertiliser companies
  - Refineries
  - Road transport

- Several locations with low renewable electricity costs

- Future business model for many industries?
4 KEY TAKEAWAYS

Powerfuels are a new business model for renewable electricity
Common global powerfuels standards are needed
International project development has already started
We need a global perspective, heterogeneous RES potential
TWO DENA INITIATIVES RELATED TO POWERFUELS

- Strategieplattform Power to Gas
  - National Initiative since 2011

- Global Alliance Powerfuels
  - Global Initiative since 2018

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THANKS FOR YOUR ATTENTION

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