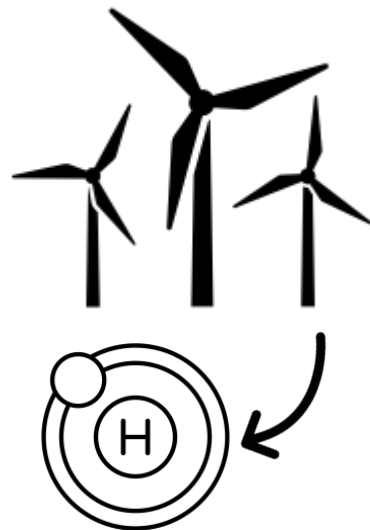
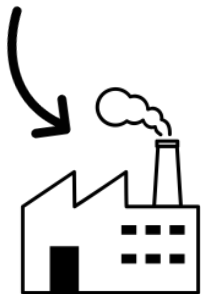
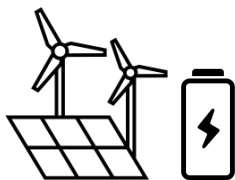


Hybrid Power Plants

IEA Wind Task 50 – Kickoff Meeting
March 29 & 30, 2022 (online)

Dominic von Terzi, Michiel Zaaier, Mihir Mehta,
Viswambher Kambhampati and Simon Watson



TU Delft – Wind Energy

- Leader of **WP2 Reference Hybrid Plants**
- Interest in all other WPs (level of activity tbd)



Dominic
von Terzi



Michiel
Zaaijer



Mihir
Mehta



Viswambher
Kambhampati



Simon
Watson

Interests:

- Should the **designs of wind turbines** change for use in **hybrid power plants**?
- What are the **requirements** that ensure **hybrid plants** **benefit the future energy system**?

TU Delft – Wind Energy

What type of hybrids does your organization care about?

- As regards turbine design: Mostly **large-scale plants** in mature public grids.
- **Hydrogen production** hybrids
- For WP 2 the interest is broader, including islanded situations, weaker grids and niche applications

What are the biggest challenges? Within our scope of interest:

- Identification of **mechanisms that advocate the use of hybrids** in different settings: how are needs for hybrids affected by external conditions
- Identification of **mechanisms/drivers that advocate design changes for turbines** in hybrid applications
- **Quantification of design changes**

What are you hoping to get out of this task?

- **Effective research** on the biggest challenges within our scope, by support from others on relevant boundary conditions (electrical system integration, markets, ...)
- **Collaborative development** of the **reference plants**