

# Baseline for type A power- generating modules

(EG BftA)

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# Baseline for type A power-generating modules

- Update until December 7th (2020)

## (Vice)-Chairs

- Søren Stig Abildgaard, Mechanical Engineer at EC , COGEN Europe
- Florentien Benedict, Expert Regulation Stedin DSO, CEDEC

# Time schedule

- Planned meetings:
  - 1. 7 September 2020
  - 2. 29 October 2020
  - 3. 17 November 2020
  - 4. 15 December 2020
  - 5. 21 January 2021
  - 6. 1 March 2021

# Subjects

- **Do we want to declare any requirements on type A, that have already been imposed on type B?**
- **Should type A requirements differ for PPMs and SPGMs (just like it is with type B)?**
- **Determining the certification obligations for type A**
- **Harmonizing the thresholds between type A and B PGMs and different banding values implemented across the EU**

# Current status

- Debating on new requirements for Type A.
- Assessment of current requirements to follow.
- FRT discussions
- CHP technical challenges
- Thresholds through the member states
- Certification process

# All kind of technologies of type A (pgm's)

- PV installations
- Combined Heat and Power – Gas Appliances
  - Combined heat and power units of type A that are Gas Appliances for household and similar use
  - This includes fuels cells and stirling engines as well as synchronous and asynchronous generators coupled directly or via inverters
- Wind?
- Batteries?
- Storage?
- Ongoing discussion within BftA on how to accomodate these technics

# FRT for type A?

- PV installations
  - High penetration of PV in several member states
  - TSO requests for FRT due to the high penetration of PV
  - FRT can readily be provided by PV installations
- Gas appliances for household and similar use
  - including fuel cells and Stirling engines as well as synchronous and asynchronous generators coupled directly or via inverters.
  - Highest penetration in Germany, but still much lower than that of PV
  - FRT capabilities conflict with approvals to Gas Appliance Regulation (EU) 2016/631
    - Control functions for gas appliances for household and similar use have to comply to the most stringent safety class (EN 13611 and EN 60730 series)
    - ((The harmonised standards for gas appliances do not include the concept of Low Voltage Ride Through capabilities
    - Instead "safety shut-down" is prescribed as the default reaction to any instability))
- Wind type A?
- Ongoing discussion within BftA on how to accommodate these aspects



# FRT for type A?

- If we declare FRT to Type A, should then the thresholds be more harmonized?
  - For now, certain memberstates do have very low Threshold A to B, because of FRT

# Modulating active power for Type A?

- Type B PGMs need to have an input port to reduce active power generation.
- The equivalent Type A requirement is to have a similar facility simply to cease all active power generation within 5s.
- If we declare FRT to Type A, should then the thresholds be more harmonized?

# Certification process

- Should certification conform EN 50549–1 and EN 50549-2 be sufficient?
- Certification process

# Next steps

- More firm positions from the EG members will follow early next year.
- Structure of the report to start shaping up based on our discussions.

# Assessment of work

- Open discussions
- Useful exchanges
- Active contributions in the report will be required by all members.