**Decentralised energy Systems**

**Working Group launch meetings**

Minutes of the meeting

24th February 2022, Online (Teams)

**List of the** **members**

|  |  |  |
| --- | --- | --- |
| First name | Last name | Organisation |
| Participants on 24th February meeting |
| Enrico | Bianchi | Ansaldo Energy Green Tech |
| Giovanni  | Bianco | Ansaldo Energy Green Tech |
| Paolo | Del Turco | Baker Hughes |
| Sayma | Abdulnaser | City, University of London |
| Peter | Kutne | DLR |
| Andreas  | Huber | DLR |
| Simon | Gianordoli | ETN |
| Giuseppe | Tilocca | ETN |
| Axel | Hebert | InfoSys |
| Magnus | Genrup | Lund University |
| Peter | Breuhaus | NORCE |
| Mohamnad | Mansouri | NORCE |
| Lars-Uno | Axelsson | OPRA Turbines |
| Francois | Emin | OPRA Turbines |
| Emanuele | Martelli | Politecnico di Milano |
| Giacomo | Bruno Azzurro Persico | Politecnico Milano |
| Katarina | Svabcikova | Siemens Energy |
| Enrico  | Mauri | Solar Turbines |
| Francesco | Rovense | Universidad Rey Juan Carlos |
| Marco | Sorrentino | University of Salerno |

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**DES WG meeting (24th February 2022, 13.30-15.00 CEST)**

Peter Breuhaus (NORCE) opens the online meeting and welcome participants. He gives the floor to Simon Gianordoli (ETN).

Simon Gianordoli (ETN) presents the agenda of the meeting as follow:

1. Welcome and introduction of the Chairs - ETN Global, Peter Breuhaus & Enrico Bianchi
2. Summary of last meeting- Simon Gianordoli, ETN Global
3. DES WG Roadmap - Simon Gianordoli, ETN Global
4. Presentation of the matrix tool – Enrico Bianchi, Giovanni Bianco
5. Dissemination Strategy – Simon Gianordoli, ETN Global
6. Any other business - All

**Welcome and introduction of the Chairs - ETN, Peter Breuhaus & Enrico Bianchi**

Simon Gianordoli (ETN) informs the Members that Enrico Bianchi replaces Elisabet Syverud as the new co-chair of the WG. He introduces Giuseppe Tilocca (ETN) who works at ETN for Q1 2022 and supports the activities of the WG. They both introduce themselves to the Working Group.

**Summary of last meeting- Simon Gianordoli, ETN Global**

Simon Gianordoli (ETN) recalls the main elements from the last meetings from September 2021. As the WG was launched during those meetings, the scope and objectives were discussed among the Members.

**DES WG Roadmap – Simon Gianordoli, ETN Global**

Simon Gianordoli (ETN) states that from the discussions of last meetings, ETN Secretariat and Chairs developed a [roadmap for the WG](https://etn.global/research-innovation/working-groups-technical-committees/decentralised-energy-systems/#mgtwg-documentation).

The main scope of the WG is to identify and assess promising applications where small and micro gas turbines can be integrated from a technical and a commercial point of view. This potential integration would be done following a benchmarking approach by selecting applications and screening criteria to deliver such assessment. The objective is the integration of gas turbine technologies into the energy landscape and to what extent according to any given application.

Preparing this meeting, the Chairs had developed a first tool comprising potential criteria and applications. This matrix or tool would be the support to develop a complete methodology for assessing the pros and cons of the integration of small and micro GTs in any decentralised application with some main criteria:

* Technical requirements
* Regulatory frameworks
* Socioeconomics (competitiveness and social acceptance)

**Presentation of the matrix tool – Enrico Bianchi, Ansaldo Energy Green Tech**

Enrico Bianchi (Ansaldo Energy Green Tech) presents the matrix to the Members, explaining the main features: list of applications, potential criteria (size, fuels, policy, competitiveness). The matrix is a first draft and is open to suggestion and updates from the Members.

A general discussion starts.

* Members wonder on which technologies would be included into the WG’s activities and to what extent: gas turbines, gas turbines technologies, rotating machinery engines. The Chairs agree that engines related to gas turbines technology would be included, highlighting that the main objective remains the integration of such technologies in decentralised energy systems applications. The approach would be holistic.
* Members have questions on the size/range of the engines, which is a relevant point depending of the selected applications.
* Simon Gianordoli (ETN) proposes that the matrix would be accessible to the Members through a common repository tool where they could provide their inputs. Those inputs would be valuable to further advancements of the WG. Deadline for inputs is **15th March 2022**.
* Members ask if applying for European calls if an objective. Chairs answer that is it a short-term objective, and that this WG should influence the future EU calls on the longer term.

**Dissemination Strategy – Simon Gianordoli, ETN Global**

Simon Gianordoli (ETN) states that WG activities should also be communicated and disseminated. He recalls that next ETN Annual General Meeting (AGM) will be held in Brussels on 29-30 March 2022 and will be hybrid. The WG activities will be presented and discussed at the AGM. Members will have the opportunity to meet in Brussels.

Members consider dissemination as an important item as gas turbines are not well known in decentralised applications compared to other engines. It can constitues a barrier to social and market acceptance.

A more complete strategy will be discussed later in 2022 according to the WG’s advancements. Next WG meeting will be in April and has to be decided.

**Actions list:**

| # | New Actions | Resp. | Deadline |
| --- | --- | --- | --- |
| **1****2** | Prepare next meeting Inputs from the Members  | Chair, ETNAll | 15th March15th March |