

Identification of “Gaps to close”					
WG Name	Decentralised Energy Systems	Chair	Peter Breuhaus (NORCE)	Co-chair	Enrico Bianchi (Ansaldo Green Tech)
Project lead	Giuseppe Tilocca (ETN)				
Core team	TBD				
ETN officer	Rene Vijgen, Antonio Escamilla Perejon, Giuseppe Tilocca Nicolò Cairo				
Initiative description					
<b>Scope definition</b> After providing the report on Decentralized Energy Systems aims this activity at identifying open issues and gaps to close from the users' point of view. This shall pave the way for defining and initiating follow up work, workshops, and/or projects. To structure activity is the area of decentralized energy systems split in three categories according to el. power output: <div><div>1.</div><div>20 – 100 kW representing house, multi-house, building level</div></div> <div><div>2.</div><div>Up to 50 MW representing small industries &amp; businesses</div></div> <div><div>3.</div><div>&gt; 50 MW large industry</div></div> The following owners of decentralized energy systems will be approached to collect the users needs and requirements for each of the three categories: Category 1: to be defined, as no statistical breakdown was available MTT (Eindhoven)? Category 2: CHP operators: Stadtwerke Münster, ENGIE, Vattenfall Paper industry: SMURFIT-KAPPA Category 3: Chemical: BASF, DOW Refinery: contact via ETN members Total, Shell  A catalogue of questions will be prepared targeting the operational profile and potential issues, planned further development of operation with focus on the reduction of CO2 emissions. Aspects might be integration of intermittent renewables, change of the demand profile (utilizing flexibility in the production process which was not yet considered), carbon free fuel, possible combination with energy storage technologies ...  Based on the results of the questionnaire will be follow up activities proposed..					
<b>Objective setting</b> <div><div>-</div><div>Identification of open issues and gaps of decentralized energy systems to form a base for follow up activities</div></div> <div><div>-</div><div>Attracting additional / new members for ETN</div></div>					
<b>Expected outcome</b> <div><div>-</div><div>Catalogue of open issues for the three relevant sizes of integrated energy systems</div></div> <div><div>-</div><div>Identification of potential synergies of the three categories</div></div> <div><div>-</div><div>Identification of further WG activities</div></div> <div><div>-</div><div>Generating interest of non ETN-partners to join</div></div>					
Implementation of the activities					
<b>Project execution.</b> Contacting the above-mentioned companies will be done based on existing contacts and defined within the regular project meetings / calls. The team will evaluate and structure the outcome of the interviews in a workshop and prepare proposals for follow up activates. These will be presented in a WG meeting as well as in an ETN partners meeting in Autumn 2024					
<b>Project finances</b> Specify if additional funding is required, and for which activities. For the time being no finding in addition to possible expenses for travelling is expected.					
<b>Meeting schedule and dissemination</b>					

<p><i>Please explain the dissemination strategy and meeting schedules.</i></p> <p>Project meetings to discuss the progress and to cope with potential issues will be held on a monthly base as well as ad-hoc in case of urgent issues.</p> <p>A workshop of evaluate the results of the findings will be after summer vacation.</p>			
<b>Deliverables &amp; Milestones</b>			
<b>Deliverable 1</b>	Questionnaire for interviews	<b>Timing</b>	February (2024)
Developed and agreed questionnaire to approach the identified users.			
<b>Deliverable 2</b>	Catalogue of companies to contact	<b>Timing</b>	February (2024)
Identification of companies to contact, assignment of persons who will run the interview.			
<b>Deliverable 3</b>	Results of the interviews	<b>Timing</b>	September (2024)
Catalogue of open issues based on the interviews and their priorities to form a base for proposing activities (follow up projects, workshops etc.).			
<b>Deliverable 4</b>	Proposed activities	<b>Timing</b>	November (2024)
List of activities to be performed as well as a proposal on how to execute these activities.			
<b>Milestone 1</b>	Project start	<b>Start date</b>	
Explain briefly.			
<b>Milestone 2</b>	Project end	<b>End date</b>	
Explain briefly.			