ETN’s 2024 technical objectives and roadmaps

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ETN Roadmap

Map out and accelerate development of net-zero carbon pathways lead by the GT user community

Define GT User's needs and priorities

Portfolio of pathways

Explore technical solutions in WG's

Pathways explorations

R&D Report & Roadmap

Define & advocate for a suitable regulatory framework

Policy

Enhance collaboration and impact

Global outreach of ETN

Dissemination/ education

Shifting the Technology Perception

Projects initiation and Dissemination Platform

Accelerate Technology Development

Research & Demonstration Projects

Portfolio of net-zero pathways

ETN's Technology Development Platform 2024

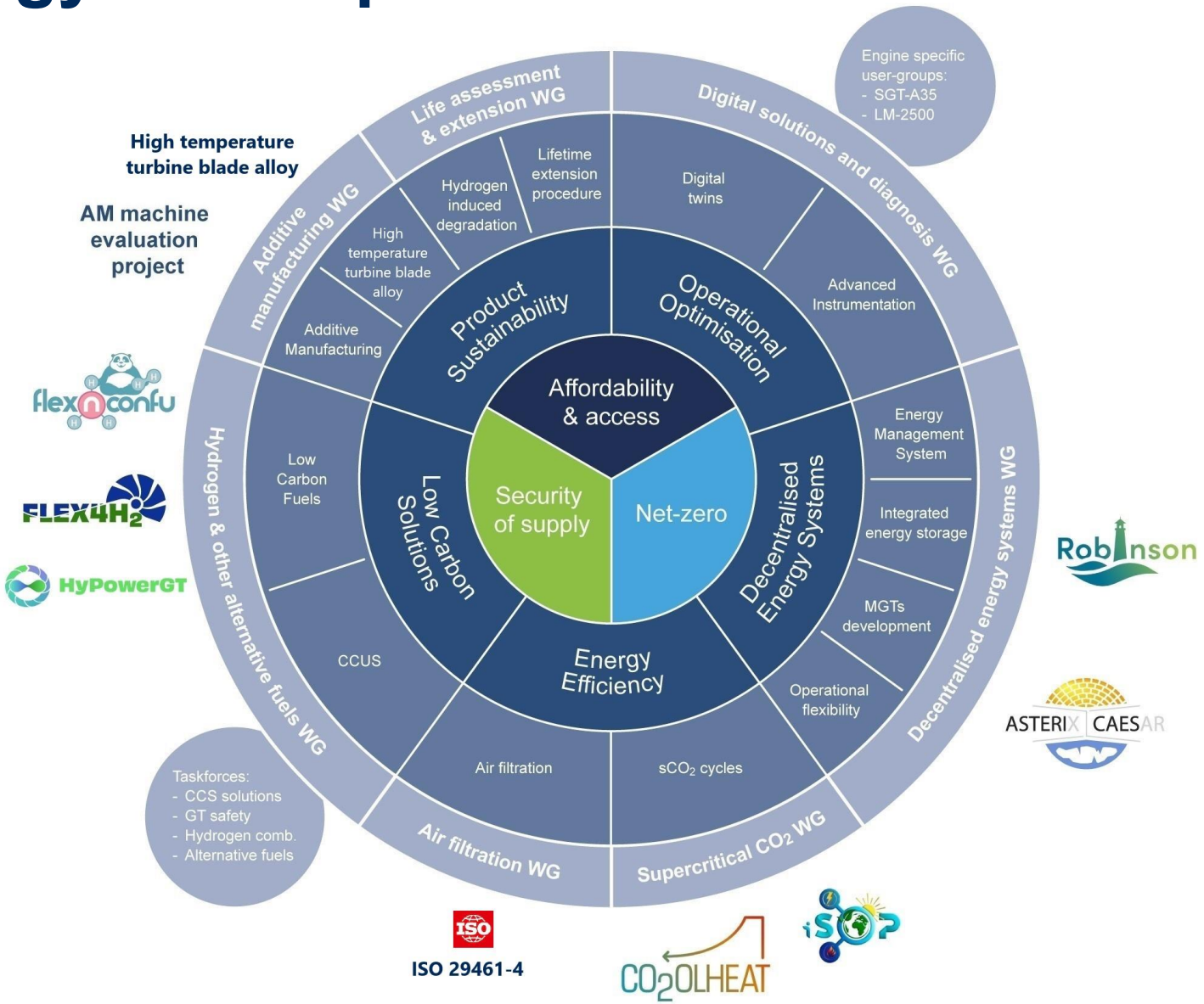
Key objectives

Key topics

Issues

Working Group's

ETN Projects



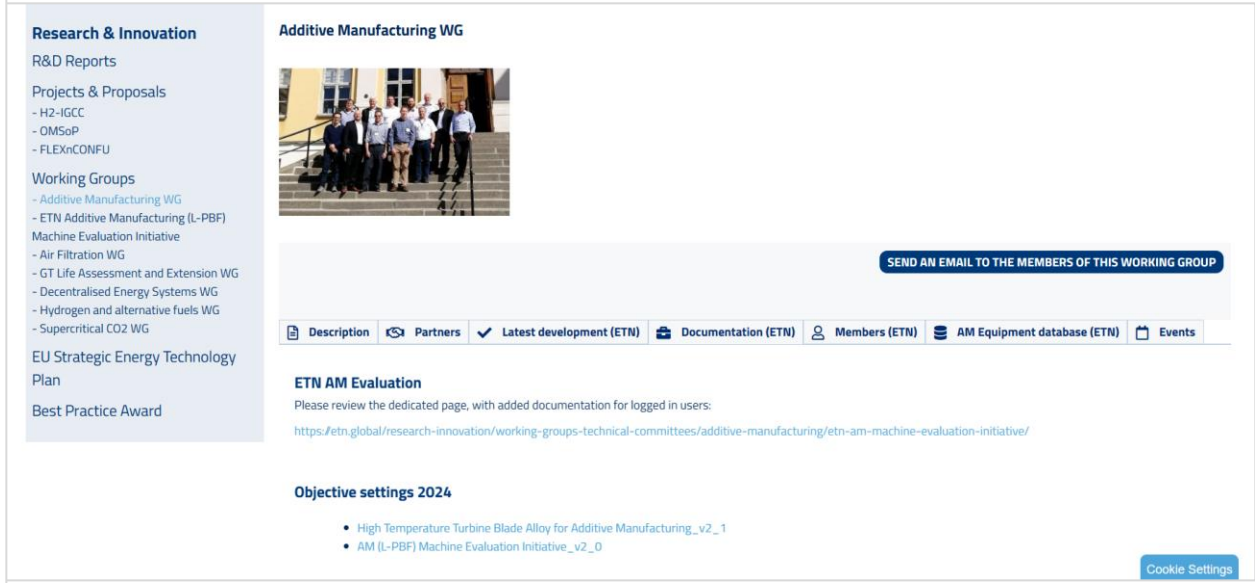
Managing the innovation cycle

From needs to actions

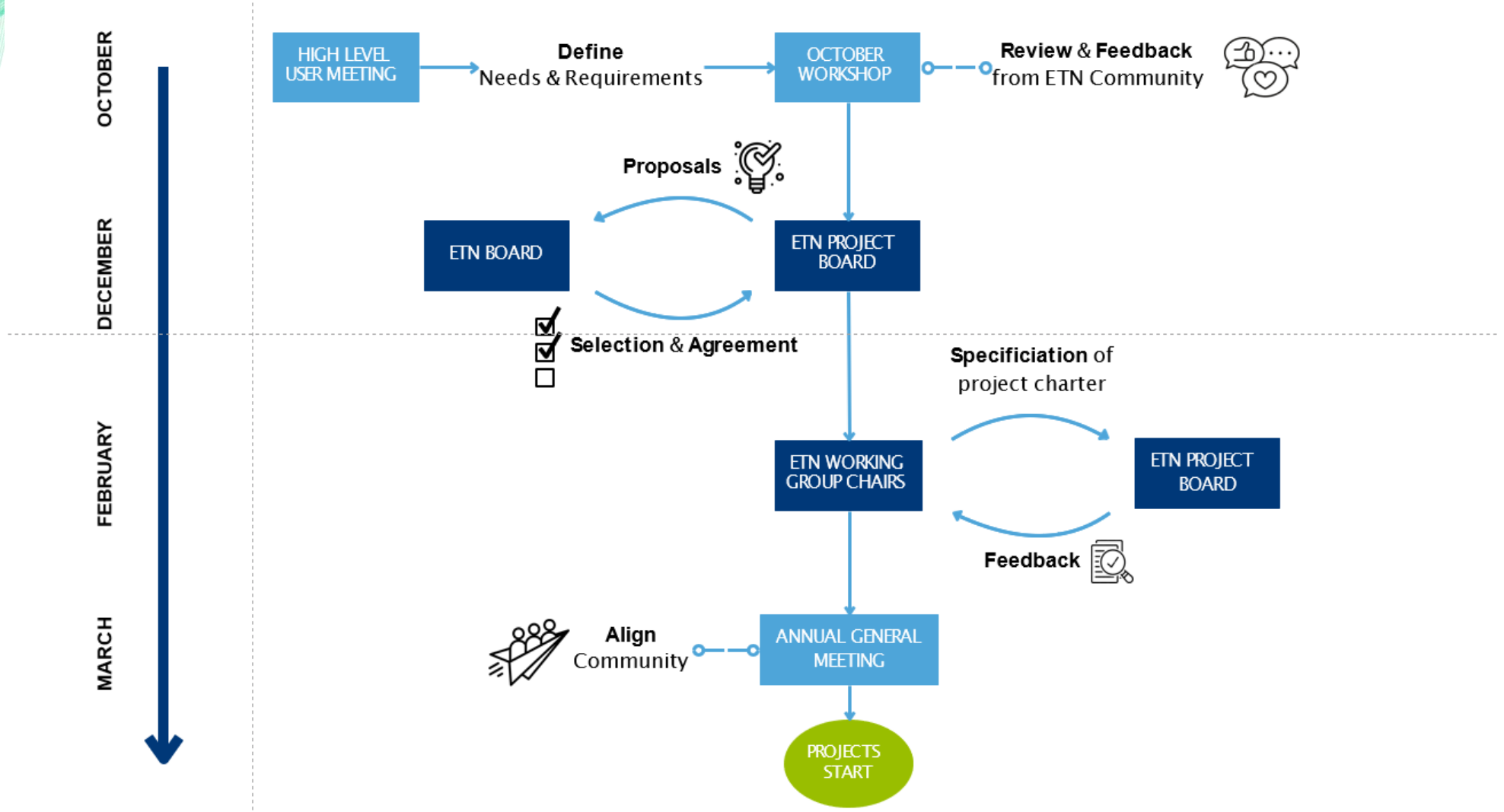
- Need for a better-defined project charter that identifies the scope, timeline, objectives and contributors
- Definition of reviews moment in initiation and progress of initiatives
- Provide full transparency of all the initiatives for all members
- Demonstrate our follow up in all project activities

Launch a one-pager to define the initiatives and install a process to monitor initiation and progress

AM (L-PBF) Machine Evaluation Initiative					
WG Name	**Additive Manufacturing**	**Chair**	**Ulli Klenk (Siemens Energy)**	**Co-chair**	**Jan De Roos (Shell)**
Project lead	**Stian Saltnes Gurrik (DNV)**				
Core team	Sarah Myerscough (DNV); Mikkel Pedersen (Oerlikon); Ludo Bautmans (Oerlikon); Scott Lockyer (Uniper); Jon Runyon (Uniper); Yogiraj Pardhi (Sulzer); Charles Soothill (Sulzer); Steve Nardone (Engie); Ulli Klenk (Siemens Energy); Vladimir Navrotsky (Siemens Energy); Jan De Roos (Shell); Gisle Rørvik (Equinor); Bobby Noble (EPRI); John Scheibel (EPRI)				
ETN officer	Rene Vijgen, Nicolò Cairo				
Initiative description					
Scope definition ETN has hosted a consortium to carry out a study of Additive Manufacturing (AM) machine producers (machine OEMs) to better understand the capabilities and boundaries of the technology.					
Objective setting The study intended to investigate similarities and differences between execution and results when several AM producers were asked to manufacture the same parts, all using the same powder feedstock as basis.					
Expected outcome The involved manufacturers will be manufacturing parts with Nickel Alloy 718 powder, according to specifications defined in collaboration with members of the ETN Additive Manufacturing Working Group. The parts to be produced include features of specific interest to the energy sector, such as thin walls and cooling channels. Performance, quality and productivity are key elements that will be evaluated.					
Implementation of the activities					
Project execution DNV is assigned as the project manager. The consortium members actively contribute to the consortium. The consortium is organised under the ETN embralla. .					
Project finances The project (165 kEURO) is funded by the participating members of the consortium					
Meeting schedule and dissemination Within the consortium all Documentation is transparently distributed via share point. A full report will be issued to the consortium members only (restricted) A synopsis of the report will be issued to ETN members and is public available					
Deliverables & Milestones					
Deliverable 1	Final consortium Report		**Timing**	28-02-2024	
Explain briefly.					
Deliverable 2	Public report		**Timing**	19-03-2024	
Explain briefly.					
Milestone 1	Project start		**Start date**	xx-07-2021	
Explain briefly.					
Milestone 2	Project end		**End date**	28-02-2024	
Explain briefly.					



New initiatives



Ongoing initiatives