

A decorative graphic on the left side of the slide, consisting of overlapping, flowing lines in shades of blue and green, creating a sense of movement and growth.

# Reflecting on 2024: Growth, impact, and engagement

Celebrating our progress

# 2024/25 Highlights: Growth, Engagement, and Impact



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# 2024/25 Highlights: Growth, Engagement, and Impact



**11**  
**External events**  
5 in Europe  
4 in North America  
1 in Asia  
1 in Australia



**55.000**  
**Website visitors**

**Top regions:** Europe (61%) and North America (22.4%).

**7**  
**Working Groups**

**3**  
**User Groups**

**9**  
**R&D and Industrial Projects**



**6**  
**R&D Reports**



**11**  
**Technical Webinars**



**2150**  
**Quarterly newsletter subscribers**

**1400**  
**Monthly news subscribers**

**Engagement (TTM):** +17% (QNL) and +12% (MNS)

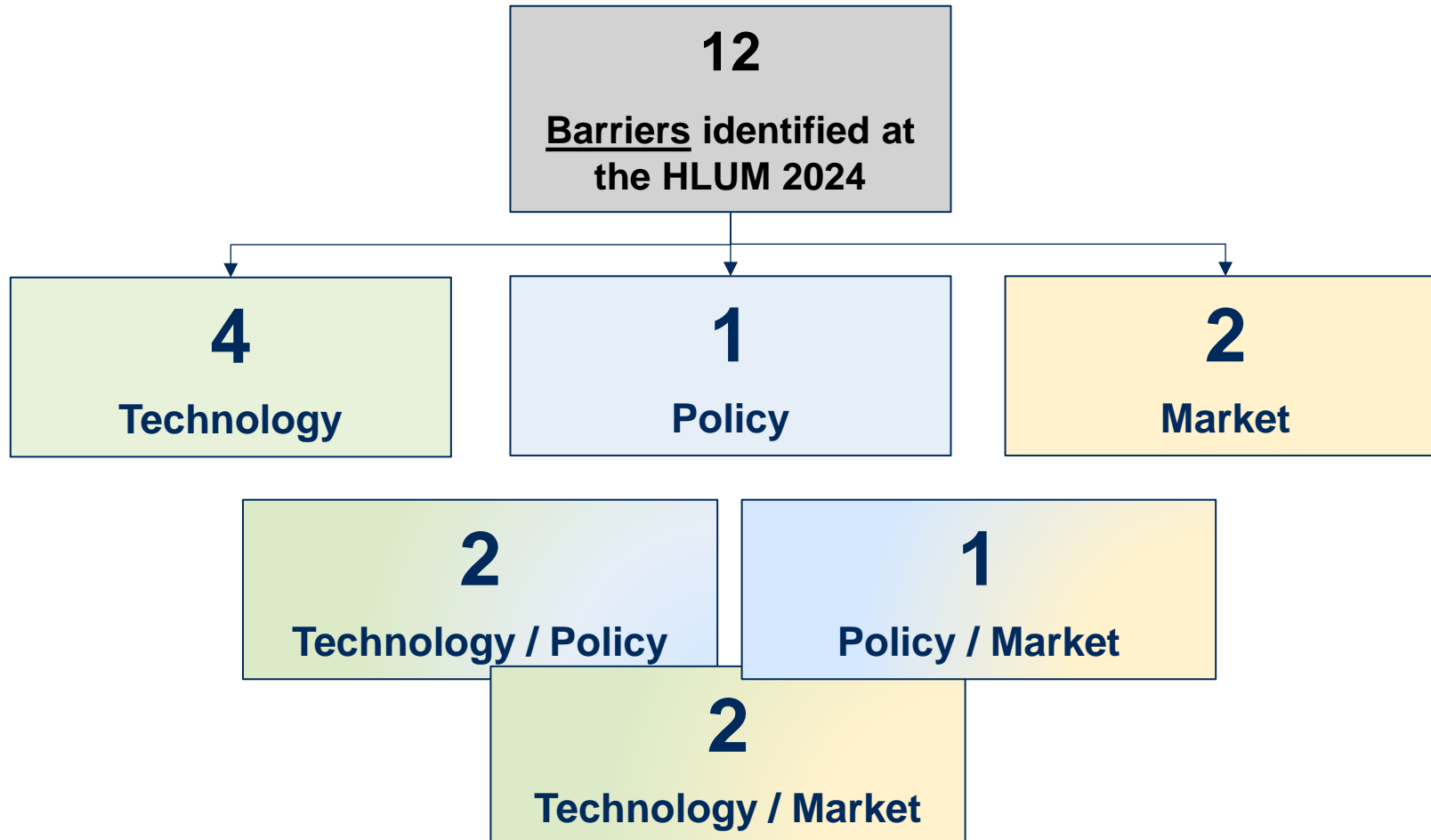
A decorative graphic on the left side of the slide, consisting of overlapping, flowing lines in shades of blue and green, creating a sense of movement and depth.

# Shaping the Future: From Barriers to Actions

## Our Roadmap for 2025 and Beyond

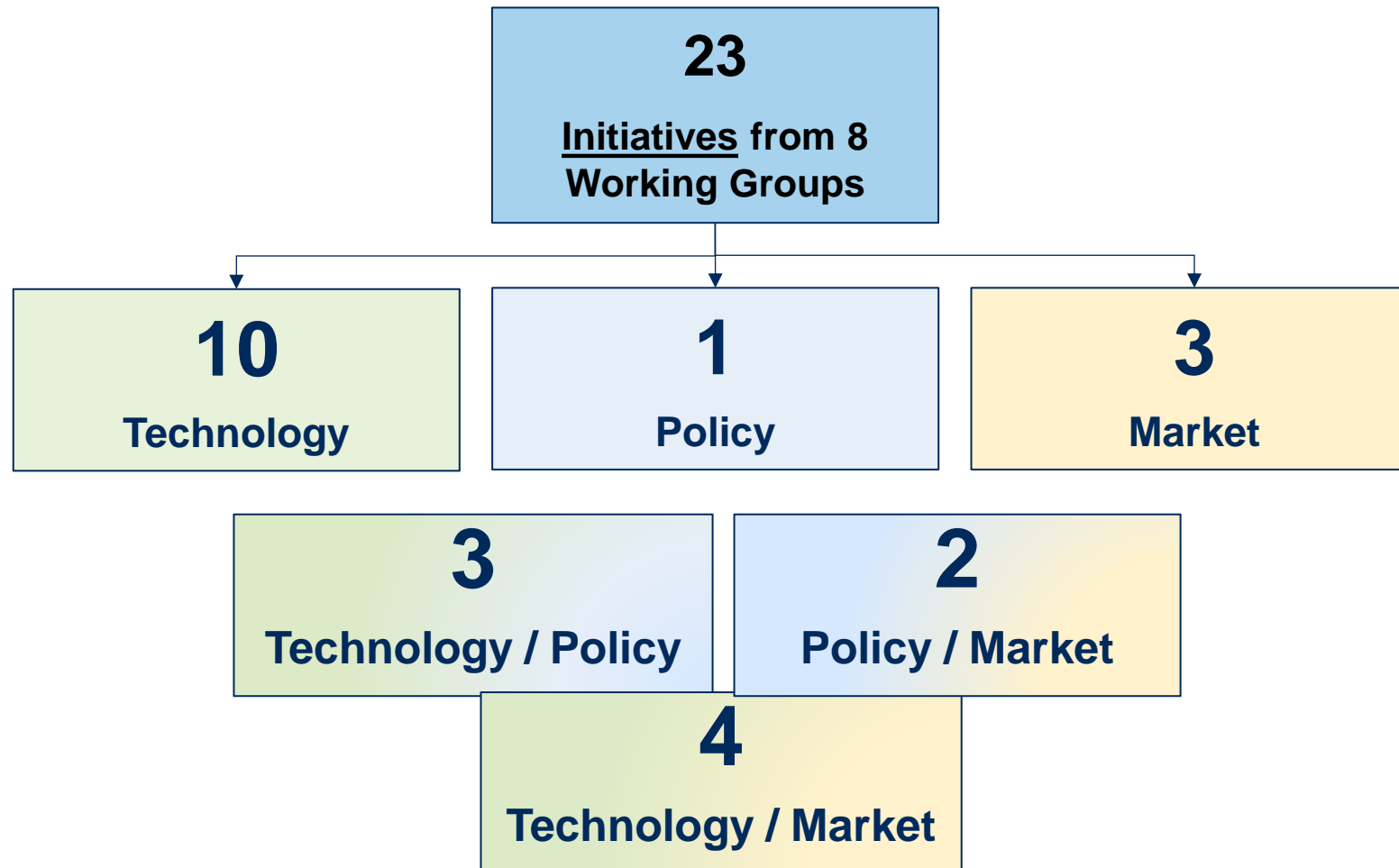
# Turning Barriers into Opportunities – 2024 HLUM

Barriers driven by Technology / Policy / Market challenges



# From Opportunities to Actions – 2025/26 Initiatives

Initiatives addressing Technology / Policy / Market challenges

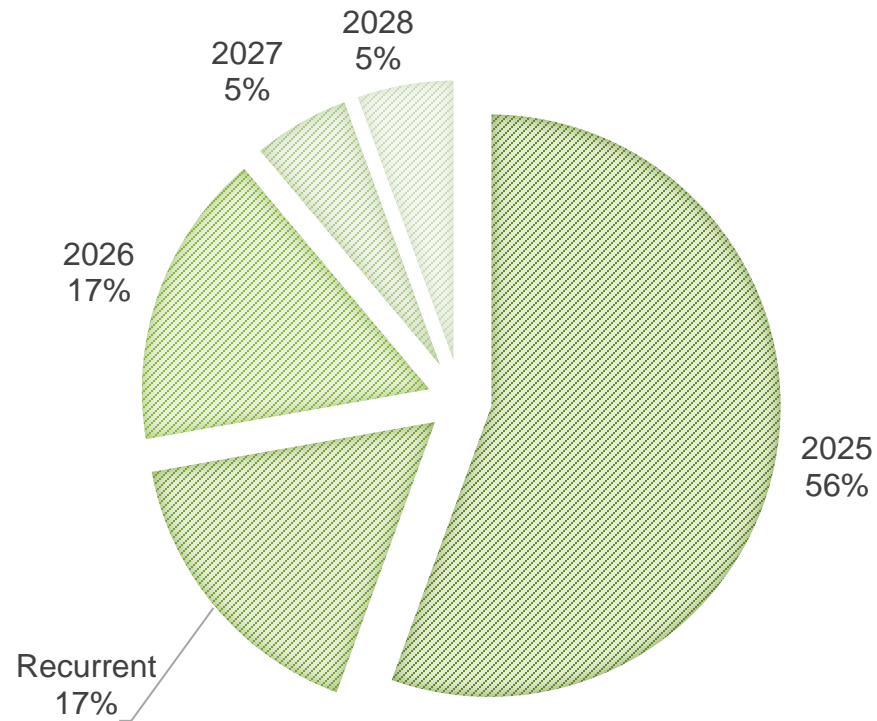




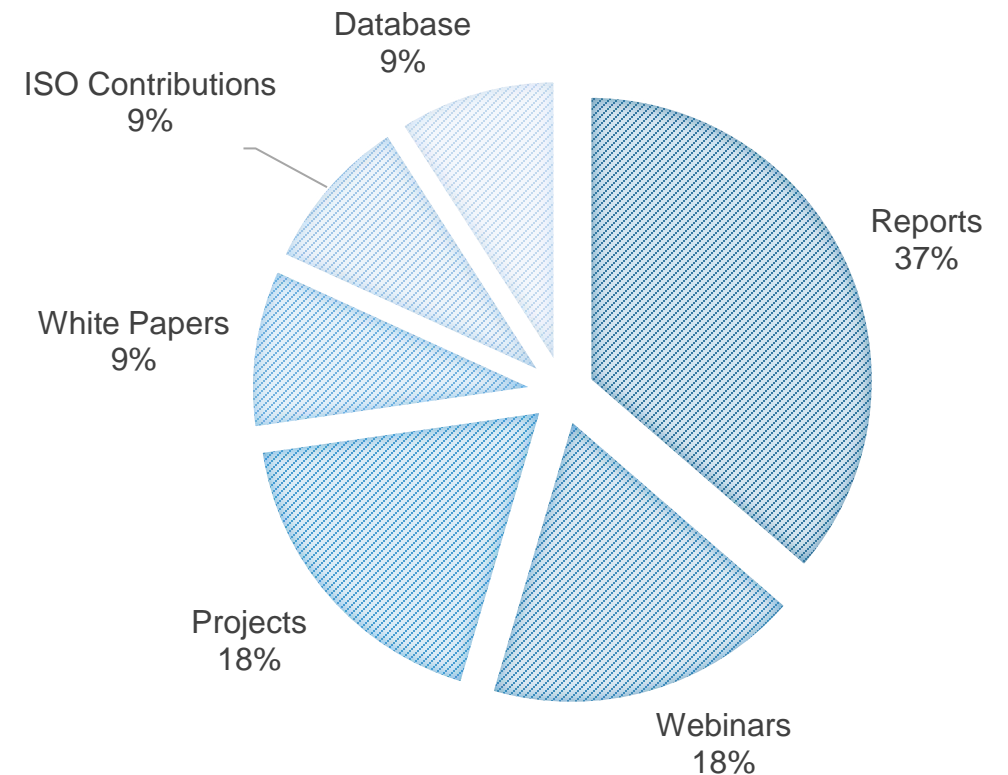
# From Opportunities to Actions – 2025/26 Initiatives

Broad range of initiatives

## End-dates for initiatives



## Deliverable type



## **ETN GLOBAL VISION**

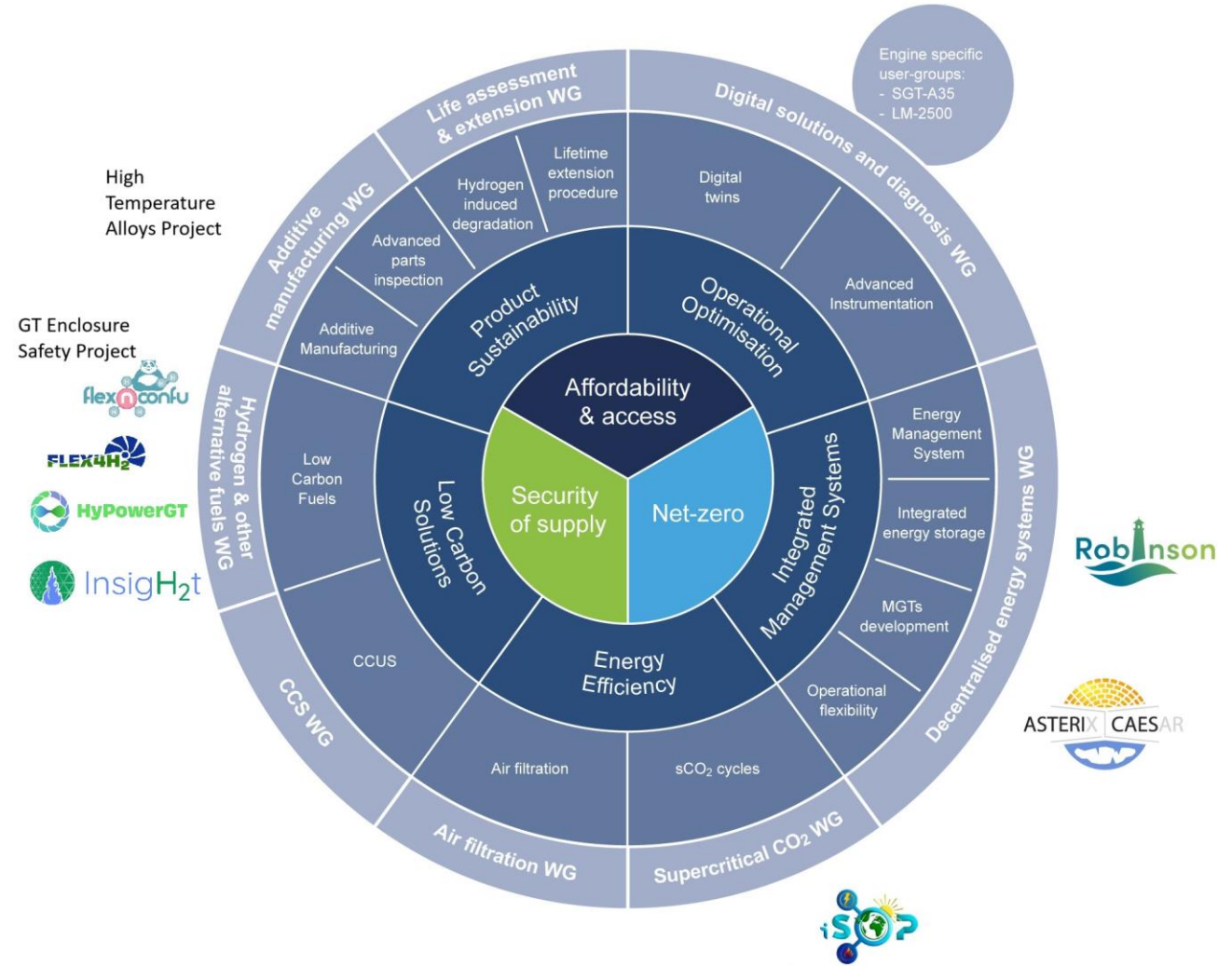
*Safe, secure, affordable  
and dispatchable carbon-  
neutral energy solutions.*





# Project Board

# Project Board 1 - Wheel



# Project Board - Initiatives

WG	Proposed Objectives for 2025/2026	Leader
AM	High temperature turbine blade alloy for additive manufacturing	Yogiraj Pardhi (Sulzer)
	Productivity, quality, and transferability in additive manufacturing	Katrin Wudy (TU Munich)
AF	Best practices document for air intake maintenance and inspection	Luke Thompson (AAF)
	ISO standard on pulse systems	TBD
	ISO 29461-4-Air intake filter systems for rotary machinery Part 4: Test methods for static filter systems in coastal and offshore environments	Daniel Iggander (Camfil)
	Test methods for measuring the effect of soot and hydrocarbons on filter performance	Joshua Kohn (Camfil)
CCS	CCS CapEx and OpEx	TBD
	CCGT efficiency penalty	TBD
	Database on the CCS-gas turbines projects	Peter Jansohn (ETN Emeritus)
	Master thesis on “Uncovering the economic tipping point between H2-based GTs and CCS-enhanced GTs”	Jean Bériot (Umons)
	Report on CO2 optimal transportation for CCS-GT	TBD
	CCS taskforce webinar series	Nicolò Cairo (ETN)
DES	To be replaced by “Energy Integration” WG (Steering committee being established)	Peter Breuhaus (NORCE)

# Project Board - Initiatives

WG	Proposed Objectives for 2025/2026	Leader
DIG	Disseminate state of the art and best practices of digital solutions for rotating machinery for power industry	TBD
LTAE	Rotor Lifing (Engine Specific)	TBD (it will be temporarily led by Antonio Escamilla (ETN) and Siavash Pahlavanyali (RINA))
	Impact of service aging on ductility of IN718, IN706 and Nimonic 901 rotor superalloys	Siavash Pahlavanyali (RINA)
	TBC life assessment of service exposed F-J-H class engine parts	Luc Gooren (ENGIE)
	Interpretations of parts inspections – Series of Webinar	Antonio Escamilla (ETN)
H2	Hydrogen enclosure safety task force – project proposal Hydrogen readiness	Chris Dagnall (DNV)
	Hydrogen readiness	Jan Van Den Auweele (ENGIE) (TBC)
	The role of gas turbines in the future energy system / urgency and positioning	TBD
sCO2	White paper on sCO2 European large demonstrator	David Sanchez (Uni Sevilla)
	CAPEX estimation for an sCO2 offshore application	Matteo Baggiani (Sime)
	sCO2 webinar series	Marco Ruggiero (BH)
EXT	Profitability of Thermal Assets	TBD