

ETN Strategy Vision and Mission

AGM 27 March 2019

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Vision

To promote the operation of environmentally sound turbomachinery technology with high reliability and low cost

Mission

Encourage and facilitate information exchange, research and technology developments in key areas

A successful implementation will ensure a prosperous user community beneficial to the whole turbomachinery value chain



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Strategy

Three Key Pillars

Technical issues
and optimised operations

Market Trends,
Policy, Legislation

Research and
Development



ETN Meetings & Events and Dissemination Activities

Pillar 1

Technical issues and optimised operations



- ❖ Risk mitigation and technical solutions:
 - ✓ To improve energy efficiency and performance
 - ✓ To improve operational flexibility
 - ✓ To improve reliability and availability
 - ✓ To reduce emissions
- ❖ Digitalisation/Condition Monitoring/Life Assessment
- ❖ Standardisation
- ❖ Exchange of best practices





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Pillar 2

Market Trends, Policy, Legislation



- ❖ Promotion of low carbon turbomachinery technologies in future energy and industrial markets
- ❖ Influence energy and research policy
- ❖ Monitor market trends and emission regulations
- ❖ Monitor development and contributions to standards



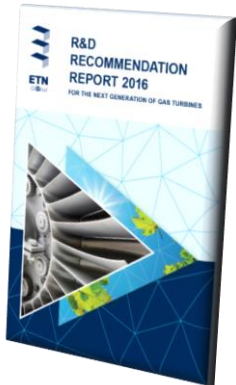
Pillar 3

Research and Technology Development



Development of turbomachinery systems to meet future low carbon market needs

- ❖ Fuel flexibility: hydrogen, ammonia, widen the operability of different fuel compositions
- ❖ Carbon mitigation: CCUS, CSP, Advanced Cycles
- ❖ Storage
- ❖ Digitalisation, Additive Manufacturing
- ❖ Advanced monitoring, component life management

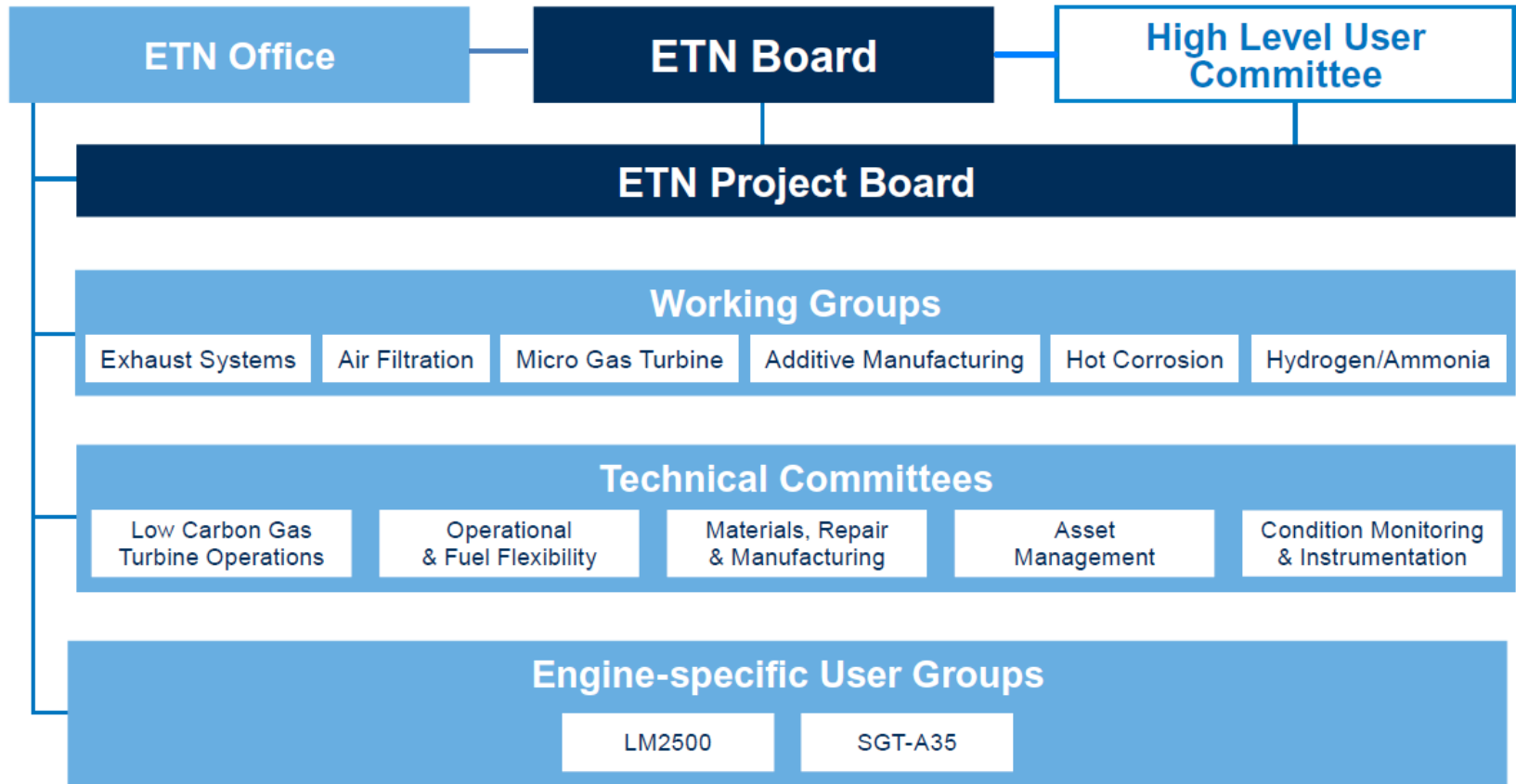


Details in ETN's R&D Recommendation Report

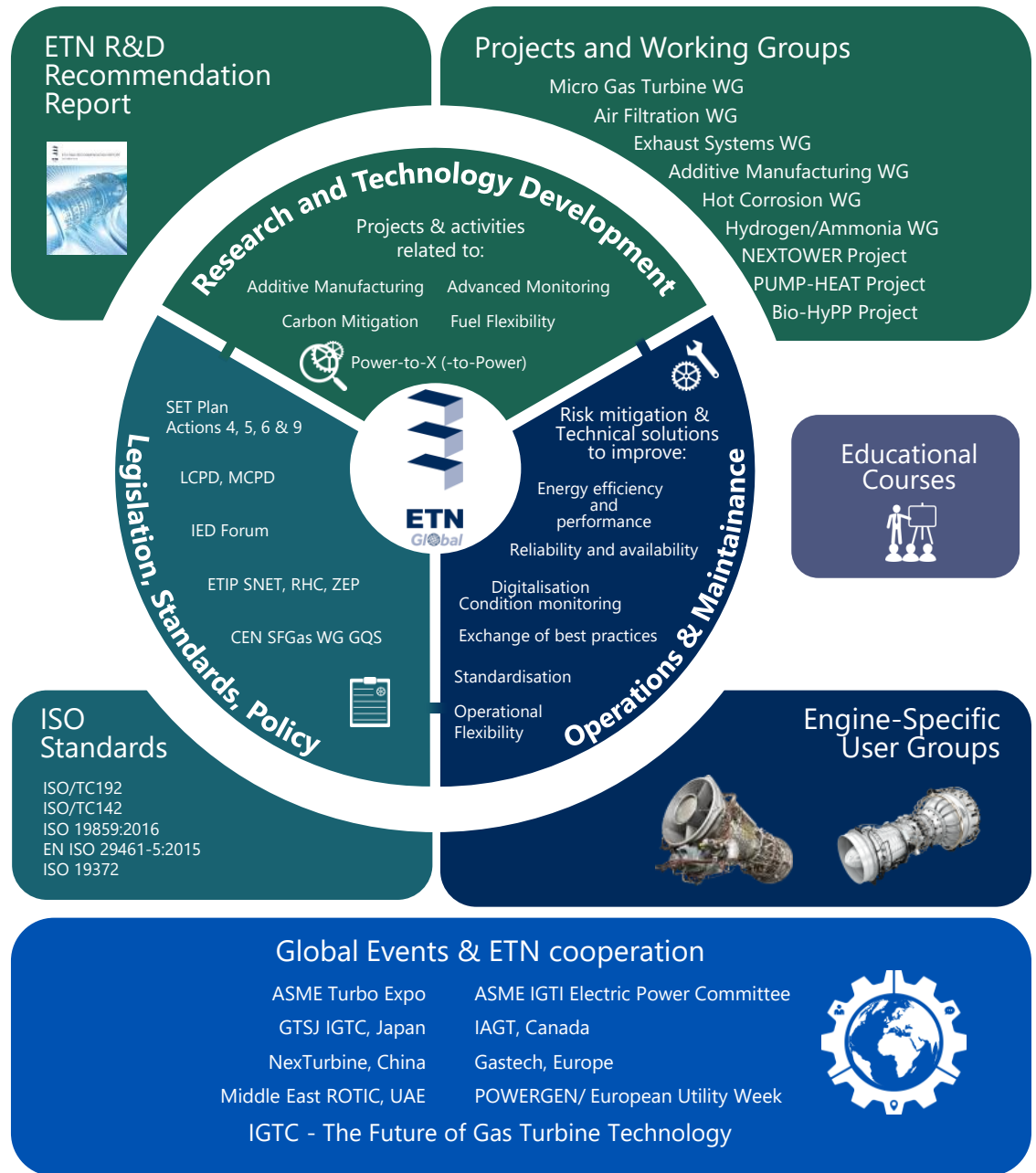


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Organisational Structure



Summary Activities 2018-2019



Important steps to reach our vision



- ❖ Continue to widen the user community
- ❖ Highlight:
 - The important role of our technology can play in the energy transition to a low/zero carbon 2030 and 2050 scenario
 - R&D needs to enable a successful transition
- ❖ Follow up on development opportunities in key areas and take cooperation to a new level
- ❖ Strong leadership (Board and Project Board)
- ❖ Active members



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Questions?

