

# MEMBERSHIP INFORMATION PACKAGE

## European Turbine Network A.I.S.B.L.

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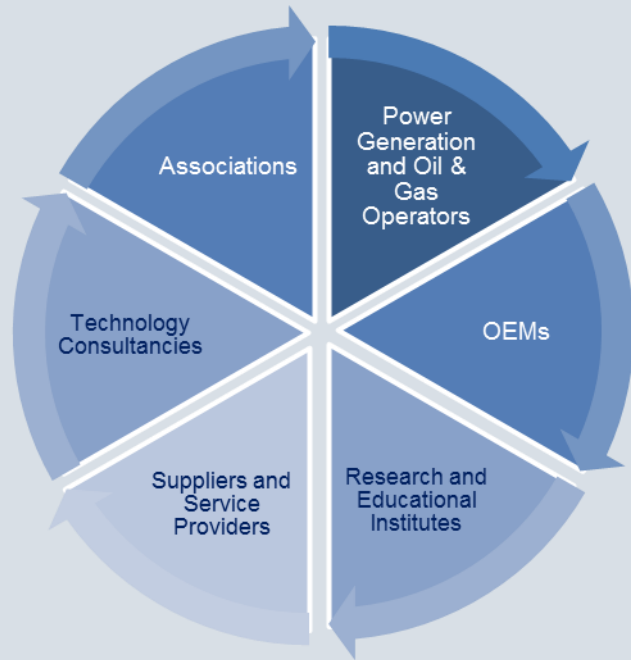
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The European Turbine Network (ETN) is a non-profit European association which brings together the **gas turbine (GT) technology community for power generation and mechanical drive applications in Europe**, representing 74 members from 18 European countries. ETN addresses the main challenges and concerns of the GT users in working groups, composed of experts from the **whole value chain** (Power Generation and Oil & Gas, OEMs, R&D Institutes, Suppliers and Service Providers, Technology Consultancies and Industry Associations).



The objective of ETN is to strengthen the gas turbine industry and users' market in Europe in all its facets. Through cooperative efforts and by optimising GT Research and Technology Development (RTD), the association promotes environmentally sound GT technology with reliable and low cost operation. Besides facilitating and coordinating research effort of different parties and bringing together key stakeholders in the gas turbine community, ETN also presents extensive networking opportunities and acts as **solid platform for the exchange of knowledge and experiences**. ETN performs technology watch, identifies research gaps and influences the EU research agenda and policy-making at an early stage.

Collaboration across the whole value chain creates a **powerful network** with the ability to achieve tangible advances in gas turbine technology. A common strategy and research effort between the stakeholders, along with a supportive European Union policy, will enable the expansion and increased competitiveness of the gas turbine sector in Europe. The ETN Secretariat is located in Brussels, Belgium, at heart of the European decision-making process.



**A Powerful  
European Network  
Promoting  
Environmentally Sound  
Gas Turbine  
Technology with  
Reliable and Low Cost  
Operation**

We would like to welcome you and your colleagues in our network. This information package will provide you with information to maximize the benefit of your ETN membership.

We very much look forward to working with you and your organization and always welcome new initiatives, suggestions, comments and feedback on our activities!

# MEMBERSHIP INFORMATION PACKAGE

## A Platform for Exchange of Knowledge & Experience



### TECHNICAL COMMITTEES & PROJECT GROUPS

ETN has 5 **Technical Committees** (TCs) that define priority research fields and set up research projects. Technical Committee meetings (usually 2-3 times a year) facilitate the exchange of knowledge and experiences. Members can have representatives sitting in more than one Technical Committee.

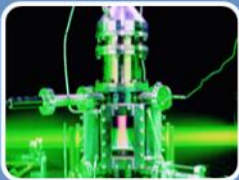
For each Technical Committee, ETN builds up a database of documents and publications of interest, where members' contributions to various technical magazines and selected articles are stored. Members also have opportunities to participate in ETN consortium when bidding for European and international research funding. ETN Technical Committees focus on 5 different technical & research areas:



#### TC1 - CYCLE EFFICIENCY

**Chairman:** Abdunaser Sayma, University of Sussex

**Vision:** Improved performance of gas turbine components and intelligent system integration will enhance fuel efficiency and environmental performance of future power generation units.



#### TC2 - FUEL FLEXIBILITY & EMISSIONS

**Chairman:** Rob Bastiaans, Eindhoven University of Technology

**Vision:** To have gas turbines capable of operating in an efficient, safe and reliable manner utilising a wide range of fuels whilst minimising polluting emissions such as NOx and aiming at zero CO<sub>2</sub> emissions.



#### TC3 - MATERIALS DEGRADATION & REPAIR TECHNOLOGIES

**Chairman:** Ron van Gestel, Chromalloy

**Vision:** To extend the ultimate life and repair interval for key hot section components by 30%.



#### TC4 - CONDITION MONITORING, INSTRUMENTATION & CONTROL

**Chairman:** Chris Dagnall, Cogsys, UK

**Vision:** 25,000 hours of gas turbine operation without intervention.



#### TC5 - ASSET MANAGEMENT

**Chairman:** Pascal Decoussemaeker, Alstom, Switzerland

**Vision:** Optimisation of the over-all gas turbine power plant equipment effectiveness, by a systematic coordination of all activities and an optimum use of the knowledge embedded in the organisation.

### PROJECT GROUPS

ETN also has more specific **Project Groups** (PGs) resulting from initiatives by Technical Committee members, that react to the current needs of the market. Examples include: Exhaust System Project Group and the GT for Concentrating Solar Power PG.

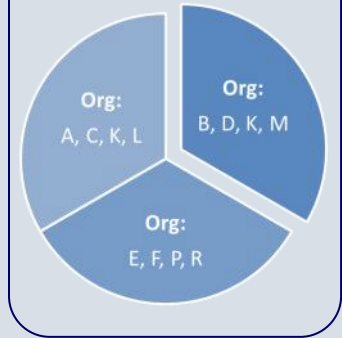
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## A Platform for Project Initiation



1-2 page Description and Foreseen Outcomes

Identify interest and expertise among ETN members



### THE DEVELOPMENT OF NEW IDEAS

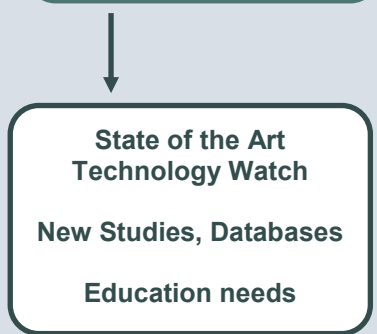
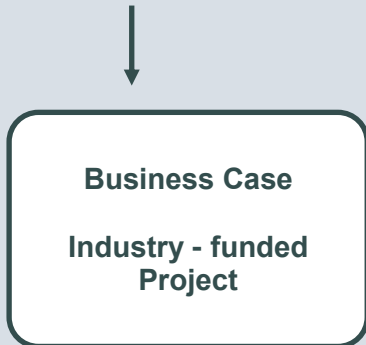
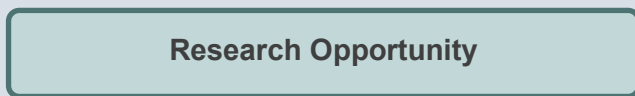
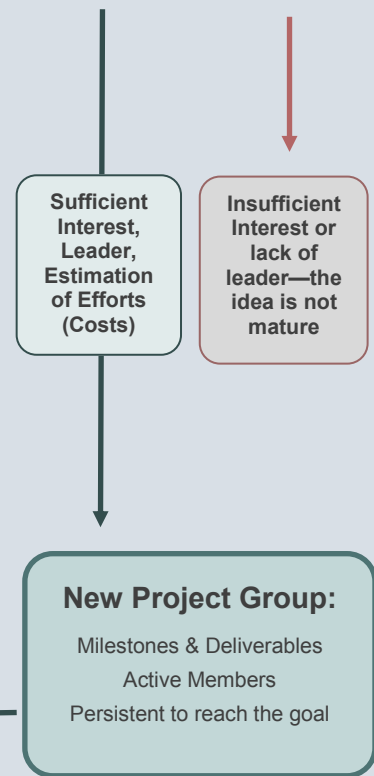
ETN has 5 **Technical Committees** which perform technology watch and serve as a platform where members can present new ideas for the gas turbine industry for discussion with other members. The technical committees meet annually, and provides the opportunity for the leader of any forthcoming idea to present an issue. It is then determined whether solutions already exist within the network.

If considered necessary a **State of the Art Technology Watch** is prepared to establish whether solutions are already available on the market, or if research is already taking place to address the issue. Where further work is required, and if there is sufficient interest among the ETN members for additional efforts, a **Project Group** is launched and a chairman is elected, with the objective of initiating a project.

The **ETN Secretariat** provides support to both the chairmen of the Technical Committees and the Project Groups. ETN strives to ensure that our members' resources are utilised in the most efficient way thus the **Board** of ETN monitors the progress of each new initiative closely.

Each Project Group require committed members, which strives to deliver the best possible outcome to the benefit of the participating members. The first task of a Project Group is to develop a business case and a roadmap consisting of clear goals, milestones, deliverables and well-defined tasks.

The purpose of this process is to provide an effective platform for collaboration as well as exchanging knowledge and information, and to initiate projects on new and relevant issues.



# MEMBERSHIP INFORMATION PACKAGE

## ETN Events & Activities

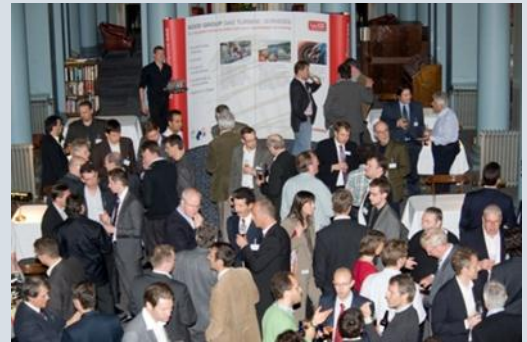
ETN organises several members-only meetings each year, as well as a biennial International Gas Turbine Conference (IGTC) on The Future of Gas Turbine Technology. These events provide excellent networking opportunities and a chance for members to increase their organisations' visibility within the European and international gas turbine community.

### MEMBERS-ONLY MEETINGS

ETN members meet yearly to discuss progress and the future ETN strategy during the **Annual General Meeting (AGM)**. The AGM also elects the ETN Board for a period of one year.



The **Annual Workshop** is organised primarily for the Technical Committees and Project Groups to evaluate progress and to discuss new initiatives. Workshops often include guest speakers from outside of ETN to share ideas for possible cooperation in energy research. Additional **Project Group Meetings** are organised when considered necessary by the Chairmen of the groups.



*Networking opportunities*

### IGTC - INTERNATIONAL GAS TURBINE CONFERENCE: THE FUTURE OF GAS TURBINE TECHNOLOGY

The International Gas Turbine Conference - Future of Gas Turbine Technology is organised biennially by ETN in Brussels.

The conference brings together delegates from the international GT community, including European GT users, OEMs, suppliers and service providers, research institutes and consultancies as well as Asian, North American and Middle Eastern GT-related associations, research organisations and government.



ETN members have the opportunity to be involved in the Conference Advisory Board that advises on the conference programme, speaker invitation and reviews the technical presentations.

ETN members are given priority in sponsorship opportunities, conference reservation and reduced participation fees. Further information is available on the ETN website.



### PROMOTE YOUR GT EVENTS AND ORGANISATION

Members can promote their own organisation by sponsoring ETN activities: hosting the annual workshop or working group meetings, receptions, dinner debates and other networking opportunities. ETN members can also disseminate information about GT-related events organised by their organisation through the ETN tools (such as newsletters and email alerts) as well as on the ETN website. Members have display opportunities at selected ETN-organised events, which are effective channels to promote events and reach wider audience in the GT industry.

## ETN Events & Activities



### EU ENERGY AND RESEARCH AGENDA

ETN advocates the role of gas turbine technology in realising zero emissions in power generation. It aims to identify the research gaps and to influence the EU research agenda and policy-making at an early stage. ETN **monitors and alerts** members of GT-related events and the European Union policy developments in energy, industrial emissions, research, and funding opportunities on the “News” section of the ETN website as well as in the monthly news summary.

Coordinated **position papers** on policy and technical issues are prepared by ETN, to influence the EU’s decisions and legislative framework with the aim of creating a favourable innovation environment for gas turbine technology. ETN Position Papers are disseminated and debated with EU policy makers, and are published on the ETN website. Examples of these include the Position Paper on Gas Turbine Fuel Flexibility for Zero Emission Power Plants and on the Impact of Natural Gas Quality on Gas Turbine Performance.

**Debates** bringing together European Commission officials, Members of the European Parliament, representatives from the European gas turbine user and manufacturer industry, universities and R&D institutes are organised by ETN, to discuss how to ensure safe, secure, sustainable and affordable energy. Research and development is key in delivering the EU’s 20-20-20 targets on greenhouse gas emissions, renewable energy and energy savings. ETN aims to optimize research and technology development through increased cooperation and knowledge sharing in order to advance environmentally sound gas turbine technology with efficient, reliable and low cost operations.

### PROJECT COORDINATION



ETN has extensive experience in facilitating the development of consortiums for EU-funded **research projects**, and also in project management.

ETN is currently the Coordinator of the H<sub>2</sub>-IGCC Project (2009-2013) with a budget of 17.8 million euro, which is co-funded by the European Commission, DG Energy, under the EU’s Seventh Framework Programme (FP7): [www.h2-igcc.eu](http://www.h2-igcc.eu).

### INTERNATIONAL COOPERATION

The biennial **International Gas Turbine Conference (IGTC)**, organised by ETN, strives to give an outlook on future energy policy and market structures that will influence the GT industry, as well as requirements for future technology development. It also provides a networking opportunity that facilitates the exchange of ideas and information, with the goal of stimulating enhanced international cooperation. You can find more details about the IGTC on page 4 or on the ETN website.

ETN has developed close cooperation with the **Gas Turbine Society of Japan (GTSJ)**. Furthermore, it works in cooperation with ASME and exhibits during the ASME Turbo Expo, as well as participating in PowerGen and other GT-related conferences to promote ETN activities. Members of ETN can often benefit from reduced participation fees to events organized by ASME or other partner organizations.



*Christer Björkqvist with Prof. Shozo Kaneko*

ETN is often invited to speak at various international conferences. These include the International Conference on Power Engineering (ICOPE, November 2009, Kobe, Japan), the International Colloquium on Environmentally Preferred Advanced Power Generation (ICEPAG, February 2010, USA), the Industrial Application of Gas Turbines (IAGT) Fall Course (Hamilton Ontario, Canada, October 2011), and the International Gas Turbine Congress (Osaka, Japan, November 2011).

# MEMBERSHIP INFORMATION PACKAGE

## ETN Websites and Information Tools

ETN members are given access to the Members Area of its official website, where they can find database, studies, industrial research and survey results and meeting documents. Members can participate in online discussion forums of different TCs and PGs. Inside the Members Area, members can locate contact details and information about the expertise of all members. Members receive alerts on the latest developments in the regulatory and technical fields in Europe.

### ETN Website – Public area

[www.etn-gasturbine.eu](http://www.etn-gasturbine.eu)

You can find the following information on the ETN website: News, About ETN (Articles of Association, Internal and External Vacancies, Links), Position Papers, Publications, Technical Committees, Project Groups, Events, International Gas Turbine Conference, Membership Benefits.

### ETN Website – Member area

[www.etn-gasturbine.eu](http://www.etn-gasturbine.eu)

Click on Login and enter your username and password

You can register to the Members area of the ETN website by clicking on “Membership Application” and filling out the request form. Following approval by the website administrator, you will have access to the Members Area.

The following sections appear after logging in:

- Technical Committees and Project Group activities, including minutes and background documents;
- Technical studies and databases;
- Member events: AGM and workshops minutes and meeting documents;
- EU policy monitoring reports;
- Members Directory.

### Receive email alerts monthly and newsletters quarterly

Members receive a monthly news summary on the latest GT and EU-related news and events.

ETN also produces and distributes quarterly newsletters to all members.

Newsletters contain information about ETN’s internal and external activities, new members’ profiles and EU policy updates.

All ETN news links and newsletters can be downloaded from the ETN website member area.

# MEMBERSHIP INFORMATION PACKAGE

## ETN Websites and Information Tools



[Mainpage](#)  
[Help](#)  
[List of all members](#)

**Categories**

- [Users](#)
- [OEMs](#)
- [Suppliers & Service providers](#)
- [Universities & Research Centres](#)
- [Consultancies](#)
- [Others](#)

**Search**

**Member-Login**

Username:   
 Password:



ETN Members Directory



### Members Directory:

- ⇒ Search by category
- ⇒ Search by activity
- ⇒ Search by name
- ⇒ Search by TC / PG

Dashboard > European Turbine Network > Home Browse ▾

## Home

1 Added by ETN Admin, last edited by ETN Admin on Nov 02, 2009 (view change)

### Welcome to the ETN Turbine Encyclopedia

### ETN WIKI:

- ⇒ TC / PG activities
- ⇒ Cycle Efficiency & Fuel Flexibility
- ⇒ Materials & Condition Monitoring
- ⇒ Asset Management
- ⇒ Exhaust Systems
- ⇒ GT for Concentrating Solar Power



Welcome to the ETN [wiki](#). The objective is to give a consolidated overview of the results of the different TC groups and at the same time allow members of the working groups, in different locations, to contribute to the team efforts. Please contact the ETN office for login details: <http://europeanturbinenetwork.onconfluence.com>

The objective of this platform is improve collaboration across geographic regions and at the same time allow members of the working groups, in different locations, to contribute to the team efforts. Please contact the ETN office for login details: <http://europeanturbinenetwork.onconfluence.com>

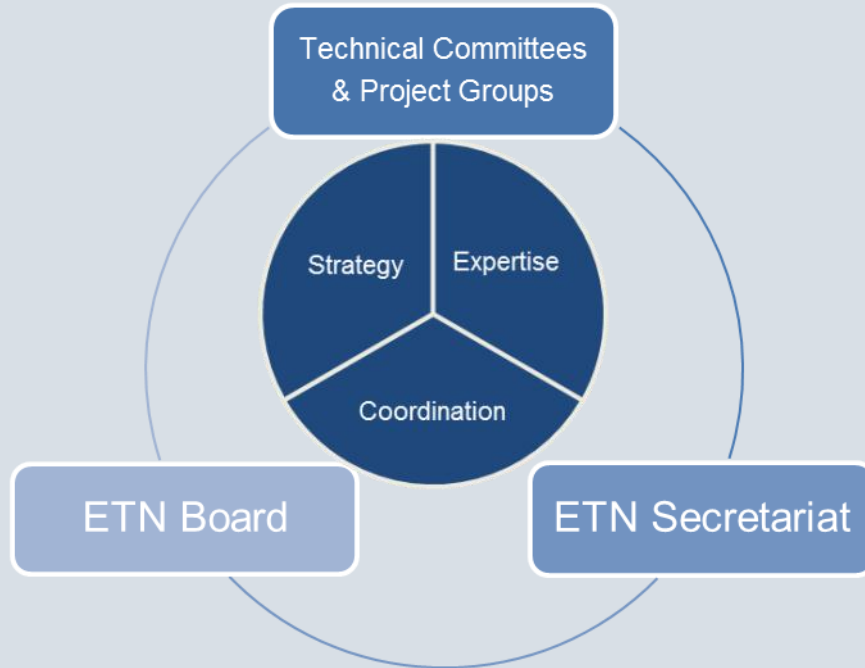
A Wiki is a recent technology that makes it possible for everyone to contribute to the team efforts. Please contact the ETN office for login details: <http://europeanturbinenetwork.onconfluence.com>

<b>ETN WIKI</b>	The objective is to give a consolidated overview of the results of the different TC and at the same time allow members of the TC, in different locations, to contribute to the team efforts. Please contact the ETN office for login details: <a href="http://europeanturbinenetwork.onconfluence.com">http://europeanturbinenetwork.onconfluence.com</a>
<b>Members Directory</b>	The Membership Directory contains an overview of the activities and services of ETN members, also indicating their main areas of expertise and interest as well as their main contacts. Please contact the ETN office for login details to add your information: <a href="http://www.etn-portal.eu/members_dir">www.etn-portal.eu/members_dir</a>
<b>Gas Turbine Project Database</b>	A comprehensive database of past EU-funded GT-related research projects. Please contact the ETN office for login details: <a href="http://www.ist.rwth-aachen.de/ETN_Projekte">www.ist.rwth-aachen.de/ETN_Projekte</a>
<b>ETN Web album</b>	You can find pictures of ETN events here: <a href="http://picasaweb.google.com/etnpicasa">http://picasaweb.google.com/etnpicasa</a>

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## The ETN Set-up

The **ETN Board** consists of 10 representatives from 5 member categories. It is responsible for preparing and presenting the strategy of ETN to the Annual General Assembly (AGM) for final approval. The Board is elected by the General Assembly annually, and has 4 meetings every year, hosted by the individual Board members. You can read more about the Board on the ETN website. The current **President** of the Board is Bernard Quoix of Total.



The **ETN Technical Committees and Project Groups** have elected chairmen, who coordinate the technical aspects of the group activities and the research initiatives. The ETN Secretariat provides project management and coordination support to the chairmen. The **ETN Secretariat** is located in Brussels, Belgium. Christer Björkqvist, Managing Director and co-founder of the European Turbine Network, dedicates his work to bringing the research community and industry closer together, resulting in increased cross-border research collaboration and exchange of knowledge in Europe.

The ETN team is always at your disposal for support and requests for ETN-related activities and suggestions:

Tel: +32 (0)2 646 15 77

[info@etn-gasturbine.eu](mailto:info@etn-gasturbine.eu)

[www.etn-gasturbine.eu](http://www.etn-gasturbine.eu)

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