

**MINUTES OF THE BOARD MEETING  
DORKING, 9 FEBRUARY 2011****Present:**

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Bernard Quoix, President (BQ)	TOTAL
Catherine Goy, Vice President (CG)	E.ON UK
Herwart Hoenen, Treasurer (HH)	RWTH Aachen
Jacques Maunand (JM)	EDF
Giovanni Cerri (GC)	University Roma TRE
Uwe Kaltwasser (UK)	MTU
Gary Lock (GL)	Frazer Nash Consultancy
Pericles Pilidis (PP)	Cranfield University
Andy Williams (AW)	Wood Group
André Mom, President Emeritus (AM)	ETN
Christer Bjorkqvist (CB)	ETN
Bernadett Parrag (BP)	ETN

*Apologies:**Roald Skorping**Statoil***Content:**

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1. Welcome
  2. Review and Approval of MoM Aachen December 2010 (BQ)
  3. Review of Actions from MoM Aachen December 2010 (BQ)
  4. Review of ETN Activities
  5. Finances: 2010 Results and Budget 2011 (HH)
  6. Review of ETN Position Papers
  7. ETN Membership
  8. ETN competition compliance clause / guidelines (CB)
  9. ETN AGM and Agenda (CB)
  10. Other Upcoming ETN activities 2011 (CB)

**1. Welcome**

Bernard Quoix opened the meeting and welcomed the Board members. Roald Skorping sent his apologies for not being able to join the Board meeting.

**2. Review and Approval of the MoM December 2010**

The Board approved unanimously the December 2010 Board Meeting minutes.

### 3. Review of Action List from the MoM December 2010

<b>Action (December 2010)</b>	<b>Outcome / Next action</b>	<b>Responsible</b>
CB to check details and costs regarding a possible court procedure against CNRS to collect the membership fee for 2009.	Done/ BQ to send a letter in French to Gokalp Iskender on ETN letterhead.	CB/BQ
CB to follow up on membership with Siemens Fossil Power (Uwe Pagenkopf and Ralph Schneider).	Done but no answer. CB to again follow up before AGM.	BQ/CB
AM to follow-up with Linz AG regarding membership in March / April 2011 again.	To be done.	AM
HH to call the boss of Nico Reuss (MAN) to see if any further information is required to decide about membership.	Raymond Loesch-Schloms was interested and said that Nico Reuss would contact CB 2-3 weeks ago to make the final arrangements, which hasn't happened. HH to follow-up with Raymond Loesch-Schloms.	HH
BQ to set up meeting with RR on 8 February (ahead of the Board meeting) in London.	Meeting took place on 8 February in London. Good initial discussion: main reason for leaving ETN was that there is no R&D in Europe, however RR will again consider membership. CB to send follow-up email to thank for the meeting, and try to press for decision before AGM.	BQ/CB
UK to follow-up on possible membership with Simon Raymond (Volvo) in a few months.	New boss of Simon Raymond at Volvo might be more open to ETN involvement, UK to follow up later this year.	UK
CB to send the contact of the VP of Exxon Mobile to BQ. BQ to resend the info package and copy his contact in.	CB and BQ met Richard Huttington (VP of GTUI) at GE conference in Florence, CB to send the membership package (also CB to update the membership package).	CB/BQ
AM to find out who is the contact in Gasunie for gas quality harmonisation.	AM called Gasunie contact, and talked about the position paper on gas, AM to meet them.	AM
CB to inform GE Oil & Gas about the new competition compliance clause (in the ETN internal rules).	Done.	CB
Follow-up with GE Energy on membership.	BQ to follow-up with GE Energy (Yves Menat).	BQ
New ETN banner to be printed by the AGM in March 2011.	To be done.	CB
UK/BQ to follow up and send package to Tanquy Poline (Air Liquide) regarding	UK sent the package, UK to follow up.	BQ/UK

membership.		
CB to offer Neste Oil to host either the October 2011 Workshop or the AGM in 2012.	To be done.	CB
CB to ask Birendra Nath for a summary of his presentation at the IGTC-10, which can be presented to the OEMs at the next ETN workshop for discussion and reaction.	Done, but no response. CB to contact Irene di Martino. AW to contact Birendra Nath, and ask him to prepare a summary of key issues from his IGTC-10 presentation for AGM.	CB/AW
CB to prepare a display (poster) of the outcomes of the IGTC-10 creative session for the AGM 2011, to set up in the coffee area.	CB had a meeting with Peter Childs, details under section 9.	CB
CB to contact Peter Childs to discuss how to take the outcomes of the IGTC-10 creative session further. Suggestions included a separate session during the AGM on long-term vision; and perhaps with more specific guidance.	CB had a meeting with Peter Childs, details under section 9.	CB
AM/CB to contact Dick van der Vecht and Dieter Krapp about the summary of their presentations, and then prepare MoM/ draft position paper to circulate to the participants of the High-level User meeting.	Two position papers are being drafted, details under section 6.	AM/CB
CB/AM to redraft the project development guidelines incorporating the Board's comment ahead of the next Board meeting. Board members to comment on guidelines. CB to finalise the guidelines to be presented at the AGM (perhaps using the Exhaust System WG as an example).	AM helped revising, covered under section 9.	AM/CB
CB to research already existing video material among ETN members, and check potential costs, also considering hiring an art student to make a GT video as a thesis work. CB also to explore if social media could be further used within ETN.	Not yet done, however social media tools will be kept in mind for future ETN activities where it can be useful.	CB
CB to ask TC leaders to collect short courses within their TCs. AM offered to share the VGT website links on short courses.	CB to request TC leaders to do so ahead of the AGM.	CB/AM
AM to contact Ed Stokkentreef to clarify payment situation of Turbocare for 2010.	Payment received. Turbocare (Italy) resigned for 2011. BQ to contact the Turbocare (NL) whether they could join in their own right.	BQ
CB to follow up the debt collection process	Payments received from Score. RR agreed to	CB

with RR and Score Energy	pay for 2010.	
CB to circulate call for new board members 3 months ahead of the AGM.	Shell has been approached to be candidate in the board, possibly Jonathan Clarke  Other options include: Neste Oil, Exxonmobile, Gasunie, GDF Suez Research centre (Rudolf Libosvar)  If the Board position remains vacant, someone could be invited as an observer.	CB
CB to update external events section on the ETN website.	Done	CB
CB to update list of potential members, perhaps reorganise to see gaps (sectors, countries, big users/OEMs).	Done	CB
CB to seek approval from lawyer with regard to the new ETN competition compliance guidelines and after approval incorporate the clause in to ETN's Internal Rules.	Done	CB

#### **4. Review ETN activities**

The Board took note of the update on ETN activities circulated ahead of the meeting by the ETN Secretariat.

#### **5. Finances: 2010 Results and Budget 2011 (HH)**

HH circulated the finance report ahead of the Board meeting. The Board commented that the IT costs are too high.

**Action:** CB to consider alternative options for WIKI hosting, and try to use Skype for tele-meetings when possible.

#### **6. Review of ETN Position Papers**

##### ***The technological impact on power plant operation of an increasing amount of renewable energy being added to the grid***

As a follow-up to the High-level User meeting Dick van der Vecht and Andre Mom have drafted a new ETN position paper on *The technological impact on power plant operation of an increasing amount of renewable energy being added to the grid*. The Board gave a very positive feedback, and made some suggestions about including more specific wording on electricity storage.

The next step is to circulate the draft position paper to the user members of ETN for their comments.

When the position paper is final, it should be circulated to the relevant European Commission, European Parliament and other Brussels contacts. For this purpose a 1-page summary should be

prepared with the key messages on R&D needs from the position paper as well as fitting it into an EU context (information about other EU projects/data, feeding into the upcoming EU policy initiatives).

**Action:** GC to add a sentence to clarify electricity storage.

**Action:** GL to send data from electricity storage studies in the UK.

**Action:** CB to add further information about CCS R&D projects and EU policy context (storage and smart grids).

**Action:** CB to circulate position paper on *The technological impact on power plant operation of an increasing amount of renewable energy being added to the grid* to the users for comments.

**Action:** AM/CB to draft a 1 page summary with the key messages of the position paper as well as fitting it into an EU context (feeding into the upcoming EU policy initiatives).

### ***The Role of Gas as a Transit Fuel for Meeting Future Emissions Targets***

As a follow-up to the High-level User meeting Dieter Krapp and Andre Mom have drafted a paper on *The Role of Gas as a Transit Fuel for Meeting Future Emissions Targets*, which compares CCS application in Combined Cycle Gas Turbine (CCGT) power plants, and in Super Critical (SC) Coal power plants.

The Board found the technical comparison interesting, but ETN is representing members who are interested in both gas and clean coal with CCS. Therefore it was agreed not to be appropriate to advocate one technology over the other. The technological issues raised in the paper may however be better used for other platforms than the EU, for example the IEA.

**Action:** CB to prepare a 1-page document outlining the general purpose in key points raised about CCGT with CCS technology, challenges and pros & cons of the two technologies, as well as the political aspects of the two sources of energy should be prepared.

**Action:** CB to contact Kat Cheung (IEA) about the gas & coal CCS technology comparison. CG can also help to contact IEA.

**Action:** AM to contact Netherlands Research about the gas & coal CCS technology comparison.

## **7. ETN Membership**

This Board meeting mainly focused on Membership issues, including new members, reasons for resignation of old members, potential members and new strategies to recruit members, especially users. The Board emphasised the importance to reach out to less active members, and find out what their interests are, so these can be brought to the ETN platform.

In addition to electricity and oil & gas companies, industrial users such as the paper industry or the ~~the~~ car industry may be targeted as well. Their main concern is smooth running of their gas turbines, energy efficiency and low emissions.

**Action:** BQ and AW to provide list of gas turbines users, for example from the participating organisations in user conferences and workshops (e.g. 6B user group/VGT).

It was suggested that ETN creates a presentation specifically aimed at recruiting users, summarising the benefits of ETN membership.

**Action:** CB to draft presentation slides specifically aimed at recruiting users, summarising the benefits of ETN membership.

It was agreed that when an organisation is interested or is in the process of joining, the ETN brochure and Membership Package should be sent to them, including a link to the AoA and the Internal Rules comprising the Competition Clause. In order to register online, to become an ETN member, a tick box need to be ticked to prove acceptance of the ETN rules.

**Action:** CB to check IT options to include a tick box for online web registration.

### **8. ETN competition compliance clause / guidelines**

Based on EC recommendations and requests by ETN members to have a competition clause in place to avoid any potential misuse of the platform, the Board finally accepted the previous suggested competition clause which now also had been approved by ETN's lawyer. It was suggested to add a reference to Art 101 AEUV (ex A.81EG) of the Lisbon Treaty in this respect.

**Action:** CB to include competition compliance clause / guidelines in the Internal Rules of ETN.

### **9. ETN AGM and Agenda (CB)**

The Board discussed the draft AGM and Workshop agenda.

<b>Action for the AGM:</b>	<b>Responsible</b>
To prepare ETN feedback session for AGM (to identify the benefits of ETN and areas for improvement)	GL
To include the Membership Package and the new competition guidelines in the AGM Conference package.	CB
To invite ETN members' Hungarian sister companies and potential members: EON Hungary, MOL, Metem Europe, etc.	CB/BP
TCs to discuss new ideas with the aim to set up new project groups and projects	CB/ TC Chairmen

### **10. Upcoming ETN activities 2011 (CB)**

Board meeting	28-29 March 2011	Budapest
AGM & Workshop	29-30 March 2011	Budapest, Flame Spray
Board meeting	5-6 July 2011	TBC, suggestions: <ul style="list-style-type: none"> <li>- GE oil &amp; gas, Florence</li> <li>- E.ON/Siemens demo plant in Irsching, DE</li> <li>- Solar Turbines, Gosselies, Belgium</li> <li>- Madrid, Endesa/Iberdrola</li> </ul>
Workshop	11-12 October 2011	TBC: Helsinki (Neste Oil?) / London (Imperial College)
Board meeting	Nov/Dec 2011	TBC

## **ACTION LIST**

<b>Action</b>	<b>Responsible</b>
BQ to send a letter in French to Gokalp Iskender (CNRS) on ETN letterhead.	CB/BQ
CB to follow up on membership with Siemens Fossil Power (Uwe Pagenkopf and Ralph Schneider) before AGM.	BQ/CB
AM to follow-up with Linz AG regarding membership in March / April 2011 again.	AM
HH to follow-up on ETN membership with Nico Reuss boss Raymond Loesch-Schloms, MAN	HH
CB/BQ to follow-up on the meeting with RR that took place 8 Feb in London regarding membership and try to press for decision before the AGM.	CB
UK to follow up with the new boss of Simon Raymond at Volvo later this year as he might be more open to ETN membership	UK
CB and BQ to send an updated membership package to Richard Huttington, Exxon Mobil (VP of GTUI) whom they met at the GE conference in Florence.	CB/BQ
AM to set up a meeting with Gasunie, to discuss the ETN paper on gas and potential ETN membership	AM
BQ to contact GE Energy (Yves Menat) to follow up on potential membership.	BQ
CB to arrange for new ETN banner to be printed before the AGM in March 2011.	CB
UK to follow up with Tanquy Poline, Air Liquide on the previously sent membership package.	UK
CB to set up meeting with Helsingin Energy (Sauri Makinen) and Neste Oil. CB also to offer Neste Oil to host either the October 2011 Workshop or the AGM in 2012.	CB
AW to contact Birendra Nath, and ask him to prepare a summary of key issues from his IGTC-10 presentation for AGM. CB to contact Irene di Martino.	CB/AW
CB to ask TC leaders to collect short courses within their TCs ahead of the AGM. AM suggested to contact the DGTA as they have website links on short courses (in Dutch, needs translation).	CB/AM
BQ to contact Ed Stokkentreef, Turbocare (NL) to see whether they could join in their own right as Turbocare (Italy) resigned for 2011.	BQ
CB to investigate alternative less costly options for WIKI hosting, and try to reduce telephone costs.	CB
CB to prepare draft sponsorship package for the Board to consider by July 2011 meeting.	CB
To provide list of gas turbines users, for example from the participating organisations in user conferences and workshops (e.g. 6B user group/VGT).	BQ/AW
Draft presentation slides specifically aimed at recruiting users, summarising the benefits of ETN membership	CB
Check IT options for web registration with tick box for AoA and IR	CB
Include competition compliance clause / guidelines in the Internal Rules of ETN.	CB



Include the Membership Package and the new competition guidelines in the AGM Conference package	CB
GL to prepare ETN feedback session for AGM (to identify the benefits of ETN and areas for improvement)	GL
Invite potential Hungarian member organisations and sister companies of ETN members: EON Hungary, MOL, Metem Europe, etc.	CB/BP
TCs to set up a detailed agenda for the AGM workshop with the aim to set up new project groups and projects.	CB/ TC Chairmen
<b><u>ETN Position Paper:</u> The technological impact on power plant operation of an increasing amount of renewable energy being added to the grid</b>	
Add a sentence to clarify electricity storage.	GC
Send data from electricity storage studies in the UK.	GL
Add further information about CCS R&D projects and EU policy context (storage and smart grids).	CB
Circulate position paper on <i>The technological impact on power plant operation of an increasing amount of renewable energy being added to the grid</i> to the users for comments.	CB
Draft a 1-page summary with the key messages of the position paper as well as fitting it into an EU context (feeding into the upcoming EU policy initiatives).	CB
<b><u>ETN Position Paper:</u> The Role of Gas as a Transit Fuel for Meeting Future Emissions Targets</b>	
Prepare a 1-page document outlining the general purpose in key points raised about CCGT with CCS technology, challenges and pros & cons of the two technologies, as well as the political aspects of the two sources of energy.	AM/CB
Contact Kat Cheung (IEA) about the gas & coal CCS technology comparison. CG also offered help with contacts at IEA.	CB/ CG
Contact Netherlands Research about the gas & coal CCS technology comparison.	AM