

**TECHNOLOGY PLATFORM FOR ZERO EMISSION FOSSIL FUEL
POWER PLANTS**

**DRAFT MINUTES OF THE 6TH MEETING OF THE ADVISORY
COUNCIL**

BRUSSELS, 19TH APRIL 2006

PRESENT

AC

Antonio Valero	Fundacion CIRCE
Kurt Hage	Vattenfall AB, Vattenfall Europe (Chair)
Gardiner Hill	BP
Graeme Sweeney	Shell Gas and Power
Philippe Lacour-Gayet	Schlumberger
Bernhard Fischer	E.ON Energie AG
Norbert Koenig	Siemens AG
Jozef Dubinski	CMI
Johannes Lambertz	RWE Power AG
Charles Soothill	ALSTOM Power
Francois Jackow	Air Liquide
Santiago Sabugal Garcia	ENDESA Generacion
Stephan Singer	WWF International
Frederic Hauge	The Bellona Foundation
Harry Lampenius	Foster Wheeler

COMMISSION:

Angel Perez-Sainz	DG RTD
Denis O'Brien	DG RTD
Thomas Schneider	DG TREN
Juergen Lefevere	DG TREN

APOLOGIES:

Olivier Appert	Institut Français du Pétrole rep. by Alexandre Rojey
Niels Peter Christensen	Geological Survey of Denmark and Greenland
Gennaro De Michele	ENEL rep. by Pietro Barbucci & Gianluca Gigliucci
David Falvey	British Geological Survey rep. by Nick Riley
Kirsten Macey	CAN Europe
Iain Miller	Mitsui Babcock
Hakon Mosbech	ENERGI E2 A/S
Arve Thorvik	Statoil rep. Tore Torp
Giuseppe Zampini	Ansaldo Energia S.p.A. rep. by Roberto Garosi
Jean-Michel Gires	Total SA

OBERVERS

Owen-Roe Lemass	Fundacion CIRCE
John Mc Mullan	University of Ulster
Franz Bauer	VGB PowerTech e.V.
Riis Trygve	Research Council of Norway representing MG in place of Brian Morris (apologies)
Nick Otter	Alstom Power
Heinz Bergmann	RWE
Udo Kremer	EUnited Turbines
Patrick Clerens	EPPSA

1. Opening of Meeting (Chairman)

1. Introduction

The Chairman opened the meeting and welcomed the members of the Advisory Council. 15 were present and 5 represented by nominees. Formal apologies had been received from the following: Appert, Christensen, Falvey, Gires, Macey, Miller, De Michele, Zampini, Thorvik, Mosbech. The Mirror Group was represented by its vice-chair Trygve Riis from Norway.

The main objectives of the meeting were (i) to agree the enhanced Vision and its subsequent use in the planned brochure, and (ii) to agree the way forward with the organisation of the General Assembly later in 2006.

2. Adoption of Agenda

The draft agenda that had been circulated prior to the meeting was adopted.

3. Draft Minutes from last Meeting

The draft minutes of the last meeting were approved. It was noted that the attendance record was not correct (Frederic Hauge missing). It was requested that accurate reporting of controversial points should be included in future minutes.

4. Modus Operandi of Advisory Council

Following the previous AC meeting, improvements to the way in which the AC should operate were considered. The following was agreed:

- Calling of an AC meeting should be made no later than 4 weeks before the date, unless there are special circumstances which precludes this.
- Minutes of the AC should be issued within 2 weeks of the meeting
- Papers for a meeting should be available 1 week before the meeting
- Critical comments on papers should be received by the Secretariat within 2 days of issue
- Decisions made should be recorded in a Decision Register. these decisions being made consensus wherever possible, a vote being required in no consensus could be found [this consistent with the AC Terms of Reference]
- Actions should be recorded in an Action Register
- Each WG could have an observer at the AC in order to improve communication.

Decision D6.1 : Agreement of Revised Modus Operandi

2. Enhanced Vision (Charles Soothill)

Charles Soothill outlined the process by which the enhanced vision had been developed. After a detailed discussion a revised draft was agreed, subject to minor tidying up of the text. This would be sent out for formal agreement by the AC.

Decision D6.2 : Agreement on Enhanced Vision Document Text

Action A6.1 : Revised Enhanced Vision to be circulated to all AC Members by Charles Soothill for formal acceptance - 5May06

The topic of Hydrogen production was discussed in the context of zero emission plants from fossil fuels. It was agreed to continue to focus on the power generation issues (ie be

consistent with the title and remit of the Platform) but not to ignore synergies where they exist and to record them. WG3 (Infrastructure and Environment) undertook to embrace this issue.

3. Discussion of Brochure and Decision on its Structure (Antonio Valero)

Following the discussion concerning the need to promote the Platform at the 5th AC meeting, an editorial team had been established under the leadership of Antonio Valero to take forward the production of a brochure for the ZEP Platform featuring the enhanced Vision. This team comprised representatives from the 3 main industrial sectors within the Platform (Equipment Supply/Nick Otter of ALSTOM Power, Oil&Gas/Philippe Lacour-Gayet of Schlumberger, Generation/Heinz Bergmann of RWE) plus Research/Alexander Rojey of IFP and Denis O'Brien and Vasilios Kougiannis of EC DG/RTD. They would be assisted in the drafting of the text by members of the EC POWERCLEAN Network (John McMullan and Andrew Minchener). It was agreed that the team should be augmented with representation from the NGOs if possible. Bellona agreed to consider whether they could help.

Decision D6.3 : Agreement on the Brochure Task Force

The outline structure described by Antonio Valero was accepted as a good basis for the brochure, using the enhanced vision as the heart of the document. A document of ~20 pages was agreed as being desirable.

The following issues were raised and agreed to be included in the first draft under preparation:-

- there should be a link in the introduction to the EC Green Paper on Energy recently issued
- reference needed to be made to the ECCP Review currently underway

As regards timing, the document needed be ready for the GHGT conference in Trondheim in June 2006. This meant that a robust draft needed to be ready for the end of April 2006 ready for layout preparation, including graphics, by the end of May 2006. This timeframe would be consistent with the EC contract in place to assist in the production of the brochure.

Decision D6.4 : Agreement on the approach being taken to produce the Brochure

Action A6.2 : Brochure Editorial Team to take the responsibility for the production of the document with the aim of having a robust draft by the end of April 2006 that could be sent to the AC and Mirror Group for any comments to be supplied within a week.

4. Preparation for the General Assembly

1. Organising Committee

The Organising Committee for the General Assembly was agreed and comprised Kurt Haege, Philippe Lacour-Gayet, Paal Frisvold, Nick Otter, Heinz Bergmann, Alexander Rojey and Denis O'Brien plus a representative from the Mirror Group (Finland would be approached as they would have the EU Presidency in the second half of 2006).

2. Timing and Structure

Denis O'Brien presented current thinking on the General Assembly. Planning is focussing on a date towards the end of September 2006 and this had been put forward to the office of Commissioner Barosso to seek his personal involvement.

A 1.5 day event was proposed, starting early afternoon on the first day, a dinner in the evening, and followed by a full second day where the emphasis would be on the promotion of the SRA and SDD documents. Case studies of recently announced projects were also felt to be desirable; also the possibility of having a talk by a high level climate change scientist. A target number of ~400 people was suggested. Financing of the event needs to be addressed.

Decision D6.5 : Agreement on the shape and structure of the General Assembly and the Organising Committee.

Action A6.3 : Organising Committee to establish a plan of action. Suggestions for speakers and special invitees from the AC required - 12th May 2006.

3. Logo

Various designs of logo were considered and agreed that the one following should be adopted using ZEP with the words "Zero Emission Fossil Fuel Power Plants" underneath but also incorporating the "EU Stars".



Decision D6.6 : Agreement on adoption of logo and ZEP as a title.

5. Report of Co-ordination Group Activities, Structure of SRA and SDD (Nick Otter)

Nick Otter presented the current status of the planning and actions being undertaken to produce the SRA and SDD, robust drafts of both being targeted by the end of May 2006. At the last CG meeting on 22nd March 2006 it had been agreed that each WG would provide contributions (through named "scribes") to both documents by the end of April 2006 when the various contributions would be integrated into 2 documents. Editors for the SRA (Olivier Appert) and SDD (Gardiner Hill) would have this responsibility. Next meeting of coordination group in Brussels 12.05.2006. The SRA/SDD should be ready to feed into the FP7 process by June.

Action A6.4 : Nick Otter to circulate WG contributions to the SRA and SDD to AC and Mirror Group for information purposes - 5th May 2006.

6. Report from the Mirror Group

Trygve Riis, vice chair of the Mirror Group, gave an update on the activities of the Group. The last meeting had been held in Oxford, UK on 10th March 2006. Meetings continue to be well attended with over 12 countries represented/interested.

The following points were noted:-

- Interdependence of AC and MG was being formulated; communication remains a key issue.
- Close link to the FENCO initiative established
- MG representatives would like to have early visibility of the SRA and SDD drafts to comment on from national country perspectives
- MG representatives now starting to be observers to WG meetings
- The MG would name its representative on the General Assembly Organising Committee

The next meeting is scheduled for 10-11th May 2006 again in Oxford. It would be helpful if the first drafts of the SRA and SDD could be made available for this meeting.

7. Reports on On-Going Initiatives

1. EU Climate Change Programme Review

Jurgen Lefevre of DG/ENV described the current status of the ECCP review, especially that part pertaining to ZEPG and CCS. The strong interaction between this and that of WG4 of the Platform was welcomed, both activities working to the same timescale and with the aim of having common outputs. The final ECCP CCS report is due towards the end of May/early June 2006 with possible EU legislative proposals in mid 2007.

2. Reports on New Projects - RWE

Johannes Lambertz presented RWE's strategy towards clean fossil fuel generation, focussing on plans for a 450MW coal fired IGCC with CO₂ capture and storage in Germany by 2014.

2. Reports on News Projects - Shell/Statoil

Graeme Sweeney described the recently announced Shell/Statoil CO₂-EOR initiative in the North Sea involving an 860MW power plant at Tyeldbergodden.

3. CSLF

Nick Otter gave a verbal update on the Carbon Sequestration Leadership Forum (CSLF) held in Delhi 2-4th April 2006. The meeting was well attended with almost all the 22 member nations represented. Presentations had been made on the ZEP Platform. The general level of activity worldwide reported by the different countries and various stakeholders indicated a rapid expansion over the last year with now 17 CSLF-approved projects and a number of recently announced commercial size actions (including Germany, Norway, UK as well as in Australia and the USA). Norway will now have the Chair of the Technical Group.

8. Miscellaneous

1. Next Meeting of AC

The next meeting will be held on 22nd June 2006 at Trondheim in Norway, starting at 0900.

POST MEETING NOTE

It should be noted that 25 rooms have been reserved for the night of 21st June 2006 at the Rica Hell Hotel, Arkitekt Ebellsv 10, 2005 Trondheim. This has been done by Tore Torp of Statoil who needs to confirm the number of rooms actually required a month before the date (ie by 21st May 2006) and subsequently to provide names two weeks before (ie by 7th June 2006). The hotel is within walking distance of the airport at Trondheim.

Individuals requiring rooms at this hotel need to inform Tore Torp at email : TAT@statoil.com

DECISION REGISTER 19th April 2006

- D6.1** : Agreement of Revised Modus Operandi
- D6.2** : Agreement on Enhanced Vision Document Text
- D6.3** : Agreement on the Brochure Task Force
- D6.4** : Agreement on the approach being taken to produce the Brochure
- D6.5** : Agreement on the shape and structure of the General Assembly and the Organising Committee.
- D6.6** : Agreement on adoption of logo and ZEP as a title.

ACTION REGISTER 19th April 2006

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- A6.2** : Brochure Editorial Team to take the responsibility for the production of the document with the aim of having a robust draft by the end of April 2006 that could be sent to the AC and Mirror Group for any comments to be supplied within a week.
- A6.3** : Organising Committee to establish a plan of action. Suggestions for speakers and special invitees from the AC required - 12th May 2006.
- A6.4** : Nick Otter to circulate WG contributions to the SRA and SDD to AC and Mirror Group for information purposes - 5th May 2006.