

WADDEN SEA FORUM
Thematic Group Energy
First Meeting (TG E 1)

Wilhelmshaven, 27 – 28 February 2003

FINAL MINUTES

AGENDA ITEM 1. OPENING

*Documents: Draft agenda TG Energy (TG E 1-1)
 Composition Thematic Groups (TG E 1-1.1)*

The meeting was opened by the chairperson of the Thematic Group Energy, Mr. Schuhbauer, who welcomed the participants to the first meeting of the TG Energy.

After a round of introduction of the participants the meeting **adopted** the proposed draft agenda, which is in **Annex 1**, without amendments. A list of the participants is in **Annex 2** and a list of all documents for the meeting is in **Annex 3**.

A new list of the composition of all thematic groups and an updated document list were distributed at the meeting (TG E 1-1.1).

Mr Hebbelmann participated as observer of the Ministry of the Environment of Lower Saxony, Ms Mack as observer from the Ministry of Agriculture, Nature Management and Fisheries in the Netherlands, Ms Jensen as observer from the University of Aarhus and Mr Verheij as observer from the TG Policy and Management.

AGENDA ITEM 2. ANNOUNCEMENTS

The secretaries informed the meeting that Dutch representatives from the energy sector could not participate in the meeting because of vacations in The Netherlands, but that there is in any case a high interest in the common work.

A participant list was circulated for the documentation of the signatures.

AGENDA ITEM 3. REPORT TEAM MEETING

The chair briefly informed the meeting of the main results of the team meeting (TM), consisting of the chairpersons of the thematic groups and the secretaries, on 9 January 2003.

Besides the information about the basics of co-financing under the Intereg IIIB North Sea Program, given by Jens Enemark, the chair mentioned further main tasks and subjects of that meeting:

- the composition of the thematic groups
- a short discussion about the draft discussion terms of references of all thematic groups
- the preparation of the first TG meetings, including a general discussion on sustainability and the information strategy in the future
- the role of the general studies

The meeting **noted** the information.

AGENDA ITEM 4. GENERAL DISCUSSION SUSTAINABLE DEVELOPMENT

Document: What is sustainable development (TG E 1-4)

The chairperson briefly introduced this agenda item with the statement that sustainability should be the main task in developing common scenarios for the Wadden Sea Region in which the visions of the thematic groups have to be integrated.

Furthermore, he presented the Brundtland definition of sustainability as a starting point for the further debate and invited the participants to give their views of sustainability. For an additional stimulation of the discussion, he stated that it could be quite possible to explore and exploit natural oil and gas in the Wadden Sea in balance with ecology and economy. The experiences with the used technology could also be exported to developing countries and could lead to improved hydrocarbon exploitation. This fact could also be an additional economical factor and restrictions and obstacles at a first glance could turn out as a positive effect in the future.

Ms. Mack and Mr. ter Horst raised the question on which scale sustainability should be discussed. The main focus will surely be on the Wadden Sea Region, but activities in the North Sea like the construction of off-shore wind parks in terms of sustainability, should lead to a broader view.

To some extent, sustainability will also lead to global views. This was indicated by Ms. Stoop, who addressed climate change and sea level rise as a primary issue to focus on, even for the Wadden Sea Region. A severe sea level rise could result in a disappearance of the Wadden Sea itself, thus all other tasks would be superfluous then.

Mr. Schulz emphasized this view by addressing the energy consumption in connection with climate change. He also linked the issue energy saving with the Wadden Sea Region by promoting the local area as a tourist destination instead of travelling abroad.

Mr. Kaib stated that it is more sustainable to build the wind park off-shore in order to minimize the impact on the landscape. He also mentioned that the off-shore solution is favoured by almost all countries bordering the Wadden Sea, only Lower Saxony is planning near-shore wind parks which will constitute a potential threat to shipping.

Mr. ter Horst argued to build the wind parks in industrial areas, e.g. Delfzijl in The Netherlands, since the energy production from wind parks is basically an industrial enterprise. This would also preserve nature and the landscape.

Mr. Nielsen pleaded for using renewable energy, particularly wind energy, and to reduce the consumption in the frame of a sustainable energy use. In this context, Mr. Schulz stated that the Wadden Sea should be a priority for ecology, because the ecological values are very unique. This should be recognized when discussing the future energy market.

Mr. Nielsen pointed at another energy source. He pleaded for supporting the use of solar energy, particular in tourist centers. Solar collectors could be used during summer time, the holiday season, to provide the people with electricity and hot water. Mr. Schulz stated that the fossil energy sources should be kept for the future generations and not to waste these sources in an irresponsible way.

The chairperson replied that there is for the time being no alternative to substitute fossil energy by renewable energy. This would need more time, at least two more generations, but he agreed that it is an important task to save energy as much as possible and to extend the use of renewable energy sources.

The chair invited the participants to take the society and the economy also into consideration, sustainability should not be only a task of nature.

Mr. Kaib referred to the financial support of wind energy by the governments and argued that it would be much better for the local economy to promote and financially support the insulation of houses which will be a contribution to a sustainable energy use.

Mr. Kurbjuhn answered that wind turbine manufacturers play an important role in the economy of Schleswig Holstein and Mr. Nielsen said that tourism is the substantial sector for the Wadden Sea Region, with its rich natural and cultural landscape.

The chairperson wanted to consider sustainable development with broader spectrum of tasks. The Wadden Sea Region should be seen as an entity, including the economy and the people. The people could be made aware of the importance of a balanced economy and ecology, and the sustainable gas and oil exploitation in the Wadden Sea could be used as an illustrative example.

Then he asked the meeting to come up with suggestions, as to which contributions could lead to a sustainable economy and energy market.

Ms. Stoop stated that energy saving and new techniques will play the most important role in the future. Besides the task of energy saving, Mr. Schulz mentioned the sea level rise as one of the main problems of the future. Mr. ter Horst wanted to stop the exploration of gas fields in the Wadden Sea because there is too little knowledge about its possible impacts.

In conclusion it could be said that the meeting argued primarily from an energy issue point of view. But it was clear from the discussion that the meeting also took into consideration the needs of the broader society and of the people living in the area. Many sustainability issues were seen under a Wadden Sea priority but others were linked to a more global view of sustainability.

Based on a reliable energy supply e.g. oil and gas, it was emphasized that energy saving is one of the most important topics for a sustainable energy system in the future. Energy saving addresses various topics in the energy sector and its impacts like climate change, new technologies, exploration, exploitation and transport.

AGENDA ITEM 5. Draft Terms of Reference

*Documents: Draft Terms of Reference (TOR) of the TG Energy (TG E 1-5.1)
Terms of Reference (TOR) of the TG Energy (TG E 1-5.1 rev.)
Terms of Reference WSF (TG E 1-5.2)
Rules of Procedure WSF (TG E 1-5.3)*

The chair briefly introduced the document TG E 1-5.1, Terms of Reference of TG Energy and asked for comments regarding the specific tasks listed in the document.

The meeting **agreed** on all listed subjects and, after a short discussion, wanted to add the following items:

- CO₂ compression
- thermal energy
- insurance matters
- absence of policies instead of only lack of policies
- energy saving should not just be an option
- energy connected with mobility

Finally, the meeting **agreed** to a revised version of the Terms of reference of the TG Energy (TG E 1-5.1 rev). The TOR of the TG Energy is in **Annex 4**.

The secretary briefly introduced the Terms of Reference of the Wadden Sea Forum (TG E 1-5.2) and, particularly the objectives and tasks with the approach of building scenarios. The meeting **noted** the information.

The secretary also referred to the Rules of Procedure of the Wadden Sea Forum (TG E 1-5.3) and pointed out that in chapter 6.iii a mistake had been made. The correct sentence is as follows:

iii. Material to be discussed at the meeting should be submitted to the secretariat 5 weeks prior to the meeting.

The participants **noted** the information.

AGENDA ITEM 6. WORKING SCHEME

6.1 Scenario approach

Document: Intro Scenario Planning for the WSF (TG E 1-6.1)

The chair briefly introduced the agenda item and stated that scenario building is a tool to be used for the TG work in order to develop future perspectives.

The floor then was given to Ben Römgens, CIBIT, the expert in scenario methodology, who was hired to support the scenario approach. He informed the meeting on the advantages of scenario developments for the work of the TGs, including the basic requirements for the scenario buildings.

The contents of the presentation is summarized in the paper "Intro Scenario Planning for the WSF", which was distributed at the meeting.

After a comprehensive discussion about the methodology and its understanding, the meeting brainstormed about the future of the Wadden Sea Region. The participants were invited to formulate what they considered the most critical questions in terms of energy (questions to an oracle). The questions are summarized in the following table:

Energy needs/economy	Energy techniques	Threats and impacts
How can we secure energy supply	What kind of energy do we need	What is the trend in climate change
Has energy to be transported	Are there new kinds of energy generations	Did the big oil spill occur
How much energy do we need	When will we have another energy system, like hydrogen	Has shipping become safe?
How will a H ₂ energy system influence the economy	Is solar energy competitive	Could the Wadden Sea be protected from impacts
What is the price and supply of oil and gas like in 2020	Can we store energy	How will wars and political tensions influence energy supply
How can we recover the required energy	To which extent is fossil energy usable	
How can we develop sustainable jobs	Is wind energy still an important source	
At what scale will the new techniques be subsidised	Will houses be built in being prepared to use solar energy	
Do we discuss the energy market seriously on a scientific basis		
Does the Wadden Sea Region have its own closed energy system		

As a result, it could be stated that the meeting rose questions in the sense of sustainability. In a further step, Mr. Römgens asked the participants to contribute by identifying important decisions or policies for the energy sector as well as specific trends which will shape the future of the sector. The result is shown in the table below.

Decisions and policies for the sector	Specific trends for the sector
Sustainable energy system for the developing countries	New technologies
Minimizing energy use for heating	New policies regarding climate change
Regulations of energy use, saving in all sectors	New energy policies in general
Prevention of landscape destruction (wind mills)	Liberalization of the energy market
Decisions on off/on-shore wind parks	Decentralization of energy production
Energy available for everybody	Usage of natural gas in the Wadden Sea
Coordination of energy cable projects	More activities – less energy use
Moratorium for gas exploration in WSR	Energy saving
Enable energy production in WSR	Reduction of energy use
Increase of tug-boat capacity to prevent oil spills	
Economic use of WSR in a sustainable way	
Sustainable solutions of energy production	
Decisions on export of energy	

Following of the discussion about specific trends and decision within the energy sector, Mr. Römgens started with a first trend analysis as an exercise for the participants. The trends were analyzed under the aspects of high impacts and high uncertainties because only such trends will be important driving forces, which enforce the power of several trends.

The meeting concluded some examples which fit in this scheme, as there are:

- oil spills
- new technologies
- energy production
- political tension
- political decisions

Analysing these examples and referring to the generic trends (see document TG E 1-6.1) it was made clear that generic trends can have much more impact on economy, society and environment than what specific trends can. Examples are e.g. life style or economic growth.

With these results, the meeting started with building scenario axes and focussed on high/low political stability for one axle and on high/low technology for the other one. Furthermore, some trends which fit in the quarter of high political stability and high technical innovation were defined, e.g. :

- economic growth
- liberalization
- competition

With this first introduction about scenario building, the meeting has got a good impression of the different steps and the future work within the TG energy.

6.2 Time schedule

*Documents: Draft work schedule (TG E 1-6.2)
Draft work schedule (TG E 1-6.2 rev.)*

The secretary briefly explained the revised draft work schedule, which was distributed at the meeting. The main work for the period to come until the next TG would be to initiate the external studies, write the generic trend reports, and collate information on the specific sector trends. The next TG would have the task to discuss and assess the generic trend reports and establish a first scenario skeleton. Since it was vital that this would be a common exercise of all TGs, the chairpersons of the TGs had agreed to arrange a common meeting on **June 23-24, 2003** in the Netherlands.

The meeting **adopted** the work schedule in **Annex 5**.

Besides the already fixed second joint meeting of all TGs on 23./24.06.03, the TG Energy agreed on the dates of the 3rd and 4th meetings.

The 3rd TG meeting Energy will take place on 2-4 September 2003 (2 days) in Hamburg and the 4th TG meeting Energy on 4-5 December 2003.

AGENDA ITEM 7. ROLE OF EXPERT STUDIES AND EXPERT CONSULTANTS

*Documents: Draft Terms of Reference Expert Consultants Energy (TG E 1-7)
TOR socio-economic study (TG E 1-7.1)*

The chair briefly introduced the draft terms of reference for experts on energy issues. He stated that expertise should be made available if it becomes necessary for the work of the TG. In general, the knowledge of the TG and the involved institutions and organizations should be used to collate the necessary information.

The secretary informed the meeting about the call for tenders of the two basic studies on socio-economy and policy/management. The latter one is an issue of the TG Policy and Management, who will deal with the study in the framework of the TG tasks.

The TOR of the socio-economic study was distributed at the meeting. The meeting noted the information and agreed to the Terms of Reference. It is planned to make the two studies available for the 2nd TG meeting in June 2003.

AGENDA ITEM 8. INFORMATION STRATEGY

The chairperson outlined the information strategy. Considering the huge amount of available information, the Team meeting agreed that the secretariat would elaborate and continuously update a list of available documents, to provide abstracts of the most important papers and to put the relevant information on the WSF web site.

For the TG meetings in principle only documents directly related to the meeting will be distributed. If members would like to provide the TG members with background documents, the secretariat will be informed and will announce such documents in a list which is sent out together with the meeting documents. On the basis of this list, individual members can request documents from the secretariat, download them from the WSF site or pick them up during the meetings.

The secretary informed the meeting that relevant documents for the TGs and the WSF would be available on the WSF-web site www.waddensea-forum.org. The website also encompassed other relevant information, such as member lists etc.

AGENDA ITEM 9. COMMUNICATION STRATEGY

As already announced in the annotated agenda in the coming months, a draft communication strategy will be elaborated by Mr. Römgens together with the secretariat and presented to WSF and TGs.

The intention of the communication strategy is to assist the members of the TGs and the WSF in involving a broader community in the work than the members and support them in their communication with the sectors.

The meeting **welcomed** the approach regarding the communication strategy and it was emphasized that the communication with the population is very essential to get acceptance of the aims and work within the Wadden Sea Forum project.

It was also mentioned that the regional conferences should be held earlier than planned. This would be an opportunity for the people in the countries to contribute to the outcome of the project. It also would demonstrate that the people are taken seriously, being involved in the project implementation.

The TG asked the secretariat to provide them with the press releases regarding the WSF, which have been published to date.

AGENDA ITEM 10. FINANCIAL/ADMINISTRATIVE MATTERS

The WSF project is financed through both, the EU Interreg IIIB program and contributions of participants. The latter are mainly in the form of working hours invested in the project and costs for travel and accommodation.

The secretary informed the meeting that 50% of the total budget has to be financed by the members, mainly through work hours and travel costs. Therefore it is important that all members document their work effort which is calculated on the basis of their salary.

Twice a year, a financial report has to be sent to the Interreg IIIB secretariat in Viborg. The secretary explained how to fill in the provided excel sheets with some examples. If necessary, the secretariat will provide support for the financial statements on request.

AGENDA ITEM 11. ANY OTHER BUSINESS

None.

AGENDA ITEM 12. CLOSING

The chair thanked all participants for coming and their cooperation and closed the meeting at 12:30 hours on Friday, 28 February 2003.

WADDEN SEA FORUM

Thematic Group Energy

First Meeting (TG E 1)

Wilhelmshaven, 27 – 28 February 2003

Agenda

- 1 Opening (welcome, introductory round, adoption agenda)
- 2 Announcements
- 3 Report Team meeting
- 4 General discussion on expectations, what is sustainable development
- 5 Draft Terms of Reference
- 6 Working scheme
 - 6.1 Scenario approach
 - 6.2 Time schedule
- 7 Role of expert studies and expert consultants. Draft TORs expert consultants
- 8 Information strategy
- 9 Communication strategy
- 10 Financial and administrative matters
- 11 Any other business
- 12 Closing

Annex 3

LIST OF DOCUMENTS TG E 1

doc. no.	contents	Delivered		
		by	date	How
agenda item 1: Opening of the meeting and adoption of the agenda				
TG E 1-1	Draft agenda TG Energy	CWSS	10/02/03	e-mail No.1
TG E 1-1.1	List of composition TGs	Chair	10/02/03	e-mail No.1
TG E 1-1.1 rev.	List of composition TGs, revised version	Chair	27/02/03 on the meeting	
agenda item 2: Announcements				
agenda item 3: Report Team meeting				
agenda item 4: General discussion on expectations, what is sustainable development				
TG E 1-4	What is sustainable development?	CWSS	10/02/03	e-mail No.1
agenda item 5: Draft Terms of Reference				
TG E 1-5.1	Draft Terms of Reference (TOR) of the TG Energy	CWSS	10/02/03	e-mail No.1
TG E 1-5.2	Terms of Reference WSF	CWSS	10/02/03	e-mail No.1
TG E 1-5.3	Rules of Procedure WSF	CWSS	10/02/03	e-mail No.1
agenda item 6: Working scheme				
agenda item 6.1: Scenario approach				
TG E 1-6.1	Intro Scenario Planning	CIBIT	27/02/03 on the meeting	
agenda item 6.2: Time schedule				
TG E 1-6.2	Draft work schedule	CIBIT	14/02/03	e-mail No.3
TG E 1-6.2 rev.	Draft work schedule, revised version	CIBIT	27/02/03 on the meeting	
agenda item 7: Role of expert studies and consultants. Draft TORs expert consultants.				
TG E 1-7	Draft TOR expert consultants	CWSS	14/02/03	e-mail No.3
TG E 1-7.1	TOR study socio-economy	CWSS	27/02/03 on the meeting	
agenda item 8: Information strategy				
agenda item 9: Communication strategy				
agenda item 10: Financial and administrative matters				
TG E 1-10	Financial matters (+4 extra Excel files)	CWSS	13/02/03	e-mail No.2
agenda item 11: Any other business				

Annex 4**Draft Terms Of Reference (TOR) Thematic Group Energy****1. Overall objective**

Thematic Groups are installed by the Trilateral Wadden Sea Forum (WSF) with the aim of preparing background material for consideration and further elaboration of the plenary meetings of the WSF.

2. Tasks

The thematic groups have the following overall tasks

- To collect relevant information in the thematic fields and to analyze and assess this information with a view to elaborate various sustainable development scenarios based on the information collected and analyzed, and on different forecasts, expectations and visions;
- To develop, on the basis of an assessment of the various scenarios, proposals for the most appropriate scenarios;
- To elaborate recommendations and proposals for strategies for the implementation of selected scenarios, as well as general recommendations for visions and strategies on sustainable development in the Wadden Sea region;
- To commission, if necessary, studies and analyses for the work of the groups and invite, if necessary, experts to support its work;
- To ensure the necessary dialogue with the organizations not represented in the WSF, both nationally and locally, regarding analyses, proposals and recommendations in the work field of those organizations;
- To deliver, upon request of the WSF, further input to the work of the WSF.

More in particular the Thematic Group on Energy will address:

- discussion and elaboration of a sound work plan
- actual energy situation: e.g. resources, production, structure, market, policies, CO₂ compression
- impacts of sector energy on other sectors
- weakness of actual energy structure from the view the energy sector
- significance of renewable energy market (solar, water, wind, biomass, thermal energy)
- decentralization of energy production (combined heat and power, CHP)
- future technologies of energy storage (hydrogen?) and importance to the market
- relevance of spatial planning for the energy sector (e.g. wind energy on- and off-shore)
- lack and absence of policies, responsibilities and insurance matters (off-shore, transport)
e.g. AWZ in Germany (exclusive economy zone in the North Sea)
- integrated solutions for a sustainable energy market
- energy saving
- responsible entrepreneurship within the energy sector
- energy and mobility

remark: the list of specific subjects is not final and will be expanded if necessary

3. Composition

Chairperson:	Mr. Schuhbauer (HH)
Representatives of the sectors:	
Energy:	Mr. Groenendijk (NL) Mr. Harms (NdS)
Tourism:	Mr. Engelsman (NL)
Nature:	Ms Stoop (NL); Mr. Schulz (Nds)
Harbor/Industry:	Mr. Berweger (SH) or Mr. Kurbjuhn (SH)
Local Government:	Mr. Nielsen (DK); Mr. Salverius (Nds) or Mr. Kaib (Nds)
Regional Government:	Mr. Ter Horst (NL)
Secretaries:	Mr. Vollmer; Mr. Enemark (CWSS)

4. Time schedule

Each Thematic Group will deliver its final report, including proposals for recommendations, by March 2004 ultimately.

The meetings of the Thematic Groups will be prepared by the chairperson of the thematic group and the secretariat. The first meeting of the thematic group energy will take place on 27-28 February taking account of the available secretarial resources.

5. Reporting

The Thematic Groups will deliver to the WSF2 meeting a work plan for its work including a specification of its tasks and deliveries, to be approved by the WSF.

The Thematic Groups report to the WSF-meetings.

6. Facilitation

The Thematic Groups are facilitated by the WSF secretariat.

7. Composition and Address List Thematic Group Energy

Mr Werner K. Schuhbauer (chair)	Mr Wim P. Groenendijk
Mr Heiko Harms	Mr Steef Engelsman
Mr Joke Stoop	Mr Rainer Schulz
Mr Kjeld Nielsen	Mr Wim A. ter Horst
Mr Frank Kurbjuhn	Mr Reinhard Kaib
Manfred Vollmer, secretary	Jens A. Enemark, secretary

