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**Storage of Carbon Dioxide Streams-OSPAR related documents  
OSPAR Convention for the Protection of the Marine Environment  
of the North-East Atlantic**

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**OSPAR CONVENTION FOR THE PROTECTION OF THE MARINE ENVIRONMENT  
OF THE NORTH-EAST ATLANTIC**

MEETING OF THE OSPAR COMMISSION

OSTEND: 25-29 JUNE 2007

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**Amendments of Annex II and Annex III to the Convention in relation to the  
Storage of Carbon Dioxide Streams in Geological Formations**

**RECALLING** the general obligations in Article 2 of the Convention for the Protection of the Marine Environment of the North-East Atlantic;

**BEING SERIOUSLY CONCERNED** by the implications for the marine environment of climate change and ocean acidification due to elevated concentrations of carbon dioxide in the atmosphere;

**EMPHASISING** the need to further develop renewable and low carbon forms of energy generation and use;

**RECALLING** that carbon dioxide capture and storage is not a mandatory obligation for the Contracting Parties to the Convention but an option which the individual Contracting Parties can choose to allow the use of;

**RECOGNISING** that carbon dioxide capture and storage is one of a portfolio of options to reduce levels of atmospheric carbon dioxide, and that it represents an important interim supplement to measures for the reduction or prevention of carbon dioxide emissions and should not be considered as a substitute for other means to reduce carbon dioxide emissions;

**NOTING** that, since the adoption of the Convention, developments in technology have made it possible to capture carbon dioxide from industrial and energy-related sources, transport it and inject it into sub-seabed geological formations for long-term isolation from the atmosphere and the sea;

**NOTING ALSO** that regulating such activity is within the scope of the Convention;

**WELCOMING** the work of the Intergovernmental Panel on Climate Change and in particular its Special Report on Carbon Dioxide Capture and Storage;

**EMPHASIZING** the need for the storage of carbon dioxide streams to be environmentally safe;

**WELCOMING FURTHER** the adoption of the amendment to include carbon dioxide streams from carbon dioxide capture processes for sequestration in sub-seabed geological formations in Annex I to the 1996 Protocol to the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 (London Protocol);

**RECOGNISING** the work of the Intersessional Technical Working Group on Carbon Dioxide Sequestration of the Scientific Group established under the London Convention and its Protocol and its conclusions, as set out in its report LC/SG-CO2 1/7;

**RECOGNISING ALSO** the work of the Offshore Industry Committee, the Biodiversity Committee and the Intersessional Correspondence Group on the placement of carbon dioxide in sub-seabed geological formations;

**DESIRING** to regulate under this Convention the storage of captured carbon dioxide streams in sub-soil geological formations to ensure protection of the maritime area;

**RECALLING** Article 15 and Article 17 of the Convention relating to the amendment of annexes to the Convention;

**CONFIRMING** that these amendments are restricted to the storage of carbon dioxide streams in geological formations;

**STRESSING** that such amendments may not be interpreted as legitimising the disposal of any other waste or other matter for the purpose of their mere disposal;

**RECOGNISING** that a regulatory framework and guidance on the storage of carbon dioxide streams in geological formations will contribute to the short-term and long-term protection of the maritime area. Recognizing the need for rules to be developed to establish clear rights and responsibilities relating to access to the property and that clarify the responsibilities during pre- and post-closure. The guidance will be integral to the subsequent pursuit of activities relating to the storage of carbon dioxide streams in geological formations;

**The Contracting Parties to the Convention for the Protection of the Marine Environment of the North-East Atlantic adopt the following amendments of the Annexes II and III to the Convention:**

**IN ANNEX II ARTICLE 3 PARAGRAPH 2 A NEW SUB-PARAGRAPH “F” IS ADDED AS FOLLOWS:**

- f. carbon dioxide streams from carbon dioxide capture processes for storage, provided:
  - i. disposal is into a sub-soil geological formation;
  - ii. the streams consist overwhelmingly of carbon dioxide. They may contain incidental associated substances derived from the source material and the capture, transport and storage processes used;
  - iii. no wastes or other matter are added for the purpose of disposing of those wastes or other matter;
  - iv. they are intended to be retained in these formations permanently and will not lead to significant adverse consequences for the marine environment, human health and other legitimate uses of the maritime area.

**IN ANNEX III ARTICLE 3 NEW PARAGRAPHS 3 AND 4 ARE ADDED AS FOLLOWS:**

- 3. The prohibition referred to in paragraph 1 of this Article does not apply to carbon dioxide streams from carbon dioxide capture processes for storage, provided
  - a. disposal is into a sub-soil geological formation;
  - b. the streams consist overwhelmingly of carbon dioxide. They may contain incidental associated substances derived from the source material and the capture, transport and storage processes used;
  - c. no wastes or other matter are added for the purpose of disposing of those wastes or other matter;

d. they are intended to be retained in these formations permanently and will not lead to significant adverse consequences for the marine environment, human health and other legitimate uses of the maritime area.

4. The Contracting Parties shall ensure that no streams referred to in paragraph 3 shall be disposed of in sub-soil geological formations without authorisation or regulation by their competent authorities. Such authorisation or regulation shall, in particular, implement the relevant applicable decisions, recommendations and all other agreements adopted under the Convention.

OSPAR CONVENTION FOR THE PROTECTION OF THE MARINE ENVIRONMENT OF  
THE NORTH-EAST ATLANTIC  
MEETING OF THE OSPAR COMMISSION (OSPAR)  
OSTEND: 25-29 JUNE 2007

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### **OSPAR Decision 2007/1 to Prohibit the Storage of Carbon Dioxide Streams in the Water Column or on the Sea-bed**

RECALLING the general obligations in Article 2 of the Convention for the Protection of the Marine Environment of the North-East Atlantic;

BEING SERIOUSLY CONCERNED by the implications for the marine environment of climate change and ocean acidification due to elevated concentrations of carbon dioxide in the atmosphere;

EMPHASISING the need to further develop renewable and low carbon forms of energy generation and use;

RECOGNISING that carbon dioxide capture and storage is one of a portfolio of options to reduce levels of atmospheric carbon dioxide, and that it represents an important interim supplement to measures for the reduction or prevention of carbon dioxide emissions and should not be considered as a substitute for such measures;

NOTING that, since the adoption of the Convention, developments in technology have made it possible to capture carbon dioxide from industrial and energy-related sources, transport it and inject it into geological formations for long-term isolation from the atmosphere and the sea;

HAVING AGREED to amend Annexes II and III to the Convention to facilitate the long-term safe storage of carbon dioxide streams in geological formations and NOTING that regulating such activity is within the scope of the Convention;

CONVINCED that carbon dioxide storage in the water column or on the sea-bed is not a sustainable storage option, is likely to result in harm to living resources and marine ecosystems and is thus neither a viable solution with regard to mitigating climate change nor compatible with the aims of the Convention;

CONCERNED that in international fora ocean storage of carbon dioxide in the water column or on the seabed is nevertheless still under consideration;

NOTING Article 1(g)(i) which excludes from the definition of dumping the disposal of wastes or other matter incidental to, or derived from, the normal operations of vessels or aircraft as defined in Article 1(n) or offshore installations as defined in Article 1(l);

NOTING FURTHER Article 1(g)(ii) which excludes from the definition of dumping the placement of matter for a purpose other than the mere disposal thereof;

#### **The Contracting Parties to the Convention for the Protection of the Marine Environment of the North-East Atlantic decide that:**

The placement<sup>1</sup> of carbon dioxide streams in the water column or on the seabed is prohibited, unless it results from normal operations as described in Article 1(g)(i) of the Convention or is for a purpose other than the mere disposal thereof as described in Article 1(g)(ii) of the Convention and is in accordance with the relevant provisions of the Convention.

This Decision enters into force on 15 January 2008.

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<sup>1</sup> For the purpose of this Decision, the term “placement” encompasses the term “disposal”.

**OSPAR CONVENTION FOR THE PROTECTION OF THE MARINE ENVIRONMENT  
OF THE NORTH-EAST ATLANTIC**

*MEETING OF THE OSPAR COMMISSION*

*OSTEND: 25-29 JUNE 2007*

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**OSPAR Decision 2007/2 on the Storage of Carbon Dioxide Streams in  
Geological Formations**

RECALLING the general obligations in Article 2 of the Convention for the Protection of the Marine Environment of the North-East Atlantic;

RECALLING Article 21 of the Convention on procedures for consultation between Contracting Parties;

RECALLING ALSO the adoption of the amendments of Annex II and Annex III to the OSPAR Convention relating to the storage of carbon dioxide streams in geological formations ;

EMPHASISING the need for the storage of carbon dioxide streams to be environmentally safe and to ensure net reductions of carbon dioxide emissions;

RECALLING that carbon dioxide capture and storage is not a mandatory obligation for the Contracting Parties to the Convention but an option which the individual Contracting Parties can choose to allow the use of;

RECOGNISING the need for authorisation or regulation by the competent authorities of the Contracting Parties to effectively control the storage of carbon dioxide streams in geological formations;

RECOGNISING that guidance on the storage of carbon dioxide streams in geological formations will contribute to the short-term and long-term protection of the maritime area;

WELCOMING the finalisation of the OSPAR Guidelines for Risk Assessment and Management of Storage of CO<sub>2</sub> Streams in Geological Formations;

BEING AWARE of the fact that scientific knowledge of the environmental risks of storage of carbon dioxide streams in geological formations is in development and that the Guidelines for Risk Assessment and Management of Storage of Carbon Dioxide Streams in Geological Formations, including the Framework for Risk Assessment and Management, will be evaluated and reviewed as this knowledge progresses;

**The Contracting Parties to the Convention for the Protection of the Marine Environment of the North-East Atlantic DECIDE:**

## 1. Definitions

### 1.1 For the purpose of this Decision:

‘geological formations’

means geological formations in the sub-soil of the OSPAR maritime area, including sub-seabed geological formations;

‘carbon dioxide streams’

means those streams that consist overwhelmingly of carbon dioxide from carbon dioxide capture processes for storage in geological formations in the sub-soil of the OSPAR maritime area. Provided that no wastes or other matter are added for the purpose of disposing of those wastes or other matter, the carbon dioxide streams may contain incidental associated substances derived from the source material and the capture, transport and storage processes used;

‘operator’

means companies operating or controlling the operations of installations used for the process of capture and storage of carbon dioxide streams in geological formations.

## 2. Purpose and scope

2.1 The purpose of the Decision is that by application of the OSPAR Guidelines for Risk Assessment and Management of Storage of CO<sub>2</sub> Streams in Geological Formations, authorities shall ensure that carbon dioxide streams, which are stored in geological formations, are intended to be retained in these formations permanently and will not lead to significant adverse consequences for the marine environment, human health and other legitimate uses of the maritime area.

This Decision shall be applied to any regulatory action, such as the granting of permits or approvals by the competent authorities concerning the storage of carbon dioxide streams in geological formations.

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