



**Wadden Sea Forum**

**13<sup>th</sup> Meeting**

**Fanø, 18-19 November 2008**

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<b>Agenda Item:</b>	<b>8</b>
<b>Subject:</b>	<b>Inventory Wadden Sea Region</b>
<b>Document No.</b>	<b>WSF 13-8-2</b>
<b>Date:</b>	<b>12 November 2008</b>
<b>Submitted by:</b>	<b>WG EII</b>

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Attached is a new version of the inventory list regarding relevant projects in the Wadden Sea Region.

**PROPOSAL:**        **The meeting is invited to take note of the document and to send amendments to the working group via the WSF secretariat.**

## Inventory of Waddensea Energy/Harbour/Industry projects

Project	Theme	Sub-theme	Country	Status	Short description	Location indication	Contact	Website	responsible for update	last update
Moddergat/Lauwersoog	Energy	Gas production	NL	Ongoing	From two locations onshore gas is produced since 2007 from gas fields underneath the Waddensea	North of Lauwersoog	NAM	<a href="http://www.nam.nl/home/Framework?siteId=nam-nl&amp;FC2=/nam-nl/html/iwgen/leftnavs/zzz_1hn9_0_0.html&amp;FC3=/nam-nl/html/iwgen/waddensee/di_r_wad.html">www.nam.nl/home/Framework?siteId=nam-nl&amp;FC2=/nam-nl/html/iwgen/leftnavs/zzz_1hn9_0_0.html&amp;FC3=/nam-nl/html/iwgen/waddensee/di_r_wad.html</a>		
Ameland production	Energy	Gas production	NL	Ongoing	From a location on the island of Ameland and a facility north of Ameland gas is produced since 1987	Ameland	NAM	<a href="http://www.nam.nl/home/Framework?siteId=nam-nl&amp;FC2=/nam-nl/html/iwgen/leftnavs/zzz_1hn9_0_0.html&amp;FC3=/nam-nl/html/iwgen/waddensee/di_r_wad.html">www.nam.nl/home/Framework?siteId=nam-nl&amp;FC2=/nam-nl/html/iwgen/leftnavs/zzz_1hn9_0_0.html&amp;FC3=/nam-nl/html/iwgen/waddensee/di_r_wad.html</a>		
Windmills Afsluitdijk	Energy	Wind Energy	NL	Proposed	125 wind turbines each 5 MW = 625 MW	Between Noord Holland and Friesland		<a href="http://home.wxs.nl/~windsh/parken/Afsluitdijk.html">http://home.wxs.nl/~windsh/parken/Afsluitdijk.html</a>		
Construction Beatrixharbour	Harbours	Harbour works	NL	Planned	is constructed to accommodate logistic companies in the shortsea sector, under construction	Eemshaven	Groningen Sea Ports	<a href="http://www.groningen-seaports.com/developments.nhn">http://www.groningen-seaports.com/developments.nhn</a>	Revier	
Energy Park Eemshaven	energy	Powerstation	NL	Ongoing	Existing powerplant: 2400 Mw	Eemshaven	Electrabel	<a href="http://www.groningen-seaports.com/energy_park_english.nhn">http://www.groningen-seaports.com/energy_park_english.nhn</a>	Revier	
NorNed	Energy	Powerstation	NL	Ongoing	Via this cable, the longest high-voltage cable in the	Eemshaven	Statnett + TenneT	<a href="http://www.groningen-seaports.com/energy_park_english.nhn">http://www.groningen-seaports.com/energy_park_english.nhn</a>	Revier	
Multifuel power plant	Energy	Powerstation	NL	Planned	Building permit and EIS in procedure 1200 Mw	Eemshaven	NUON	<a href="http://www.groningen-seaports.com/energy_park_english.nhn">http://www.groningen-seaports.com/energy_park_english.nhn</a>	Revier	
Pulverized coal power plant	Energy	Powerstation	NL	Planned	Permits requested, 1600 MW	Eemshaven	RWE	<a href="http://www.groningen-seaports.com/energy_park_english.nhn">http://www.groningen-seaports.com/energy_park_english.nhn</a>	Revier	
Dredging related to new powerplants Eemshaven	Infrastructure	Dredging	NL	Planned	Deepening of channels is necessary for ships carrying coal	Eemshaven	Groningen Sea Ports	<a href="http://www.groningen-seaports.com/developments.nhn">http://www.groningen-seaports.com/developments.nhn</a>	Revier	
LNG terminal	Energy	LNG terminal	NL	Proposed	Liquefied Natural Gas, capacity 5-12 billion m3	Eemshaven	Essent + ConocoPhillips	<a href="http://www.eemshaven-lng.nl/">http://www.eemshaven-lng.nl/</a>	Revier	
Windpark Eemshaven	Energy	Wind Energy	NL	Planned	68 new wind turbines on Energy Park Eemshaven, each 3 MW	Eemshaven	Essent	<a href="http://www.groningen-seaports.com/energy_park_english.nhn">http://www.groningen-seaports.com/energy_park_english.nhn</a>	Revier	
Windpark Delfzijl Noord	Energy	Wind Energy	NL	Proposed	20 wind turbines 80-100 metres	Delfzijl	Millenergy	<a href="http://www.windparkdelfzijlnoord.nl/index.html">http://www.windparkdelfzijlnoord.nl/index.html</a>	Revier	
Blue energy	Energy	Sustainable energy	NL	Proposed	Membrane technology 200MW predicted	Afsluitdijk	Wetsus		Revier	
Dutch Wadden Isles self supporting	Energy	Sustainable energy	NL	Proposed	Ambitions formulated; further research on possibilities				Revier	
Dredging waterways to Harlingen	Infrastructure	Dredging	NL	Planned	Deepening waterways Harlingen - Nroth Sea; Harlingen - Kronwerderzand;	Harlingen	Harlingen		Revier	

## Inventory of Waddensea Energy/Harbour/Industry projects

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Harbour extension Harlingen	Harbours	Harbour works	NL	Proposed	Extension is proposed by City council; debate on extension into the Wadden Sea	Harlingen	Harlingen		Revier	
Waste incinerator Harlingen	Industry	Other plant	NL	Proposed	Heat produced by incinerator will be used by salt industry	Harlingen	OMRIN		Revier	
Salt industry Harlingen	Industry	Other plant	NL	Proposed	Debate on salt exploitation under the Wadden Sea	Harlingen	ENSECO		Revier	
Mittelplate	Energy	Oil production	DE	Ongoing	The Mittelplate Drilling and Production Island is used for oil production on Germany's biggest oil deposit	Friedrichskoog	RWE	<a href="http://www.rwe.com/generator.aspx/mittelplate/language=en/id=501946/mittelplate-home.html">http://www.rwe.com/generator.aspx/mittelplate/language=en/id=501946/mittelplate-home.html</a>		
New Energy Production	Energy	Powerstation	DE	Ongoing	800 MW electricity / Coal based electricity unit (construction phase started on 09-19-2008)	Wilhelmshaven	Electrabel	<a href="http://www.electrabel.de/content/erzeugung/projekte_standort_wilhelmshaven_de.asp">http://www.electrabel.de/content/erzeugung/projekte_standort_wilhelmshaven_de.asp</a>	Rothkopf	3.11..2008
Extension Energy Production	Energy	Powerstation	DE	Proposed	500 MW electricity /Coal based/ substitution /revamp/2013	Wilhelmshaven	EON	<a href="http://www.eon.com/de/unternehmen/tdw_19267.jsp">http://www.eon.com/de/unternehmen/tdw_19267.jsp</a>	Rothkopf	07.04.2008
Refinery Wilhelmshaven	Industry	Oil production	DE	Planned	Extension/modernisation of existing refinery	Wilhelmshaven	WRG - Conoco	<a href="http://www.conocophillips.com/CPCmsTemplates/templates/cop/ContentPage.aspx?NRMODE=Published&amp;NRNODEGUID={67838B4A-03A1-46AA-BC04-026DBE0FE96A}&amp;NRORIGINALURL=%2fnewsroom%2fnews_releases%2f2005news%2f11-25-2005.htm&amp;NRCACHEHINT=Guest">http://www.conocophillips.com/CPCmsTemplates/templates/cop/ContentPage.aspx?NRMODE=Published&amp;NRNODEGUID={67838B4A-03A1-46AA-BC04-026DBE0FE96A}&amp;NRORIGINALURL=%2fnewsroom%2fnews_releases%2f2005news%2f11-25-2005.htm&amp;NRCACHEHINT=Guest</a>	Rothkopf	07.04.2008
New Energy Production	Industry	Powerstation	DE	Proposed	New coal based electricity unit 800 MW (on Wybelsumer Polder, starting 2012-2015)	Emden	Dong Energy DK+Nds.Ports	<a href="http://www.welt.de/welt_print/article1650903/Gruenes_Licht_fuer_Kohlekraftwerke_an_der_Kueste.html">http://www.welt.de/welt_print/article1650903/Gruenes_Licht_fuer_Kohlekraftwerke_an_der_Kueste.html</a>	Rothkopf	07.04.2008
Windpark Nordergründe	Energy	Sustainable energy	DE	Ongoing	Windenergy, experimental plant, 5 MW	Wilhelmshaven	Bard		Rothkopf	03.11.2008
LNG Wilhelmshaven	Energy	LNG terminal	DE	Planned	Import/Storage/Gasification of LNG/Extension of exiting jetty	Wilhelmshaven	DFTG / E.ON	<a href="http://www.eon.com/de/investoren/news-show-news.do?id=7316">http://www.eon.com/de/investoren/news-show-news.do?id=7316</a>	Rothkopf	07.04.2008
New Energy Production	Energy	Powerstation	DE	Planned	Coal based electricity unit 1640 MW (production starts 2012)	Hamburg-Moorburg	Vattenfall	<a href="http://www.vattenfall.de/www/vf/vf_de/225583xberx/225613dasxu/225933bergb/226503kerng/226173kraft/649510neuba/index.jsp">http://www.vattenfall.de/www/vf/vf_de/225583xberx/225613dasxu/225933bergb/226503kerng/226173kraft/649510neuba/index.jsp</a>	Rothkopf	03.11.2008

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Windpark Nordergründe	Energy	Sustainable energy	DE	Planned	Windenergy 18 units with 5 MW each. Delivery early 2009. Planned to start producing by end 2009.	in the 12-Seamile-Zone at eastern Weser river mouth, 15 km northeast of Wangerooge, north of Wilhelmshaven. To coast of Wursten 22 km.	Repower AG+Energie Kontor AG	<a href="http://www.ofw-online.de/index.php?id=nordergruende">http://www.ofw-online.de/index.php?id=nordergruende</a>	Secretariat	27.10.2008
Windpark Riffgatt	Energy	Sustainable energy	DE	Planned	Windenergy 44 units. Start of delivery 2011. Planned to start producing by end 2012	15 km northwest of Borkum	Enova + EWE	Artikel in NWZ vom 04.11.2008	Secretariat	04.11.2008
New Energy Production	Industry	Powerstation	DE	Proposed	Coal based electricity unit + steam and gas power station	Stade	Dow Chemical + EnBW	<a href="http://www.enbw.com/content/de/presse/pressemitteilung/2008/01/PM_20080129_cu_mw01/index.jsp">http://www.enbw.com/content/de/presse/pressemitteilung/2008/01/PM_20080129_cu_mw01/index.jsp</a>	Secretariat	23.09.2008
New Energy Production	Energy	Powerstation	DE	Proposed	Coal based electricity unit 800 MW	Brunsbüttel	Electrabel	<a href="http://gruenes-klima.de/aktion/drei-neue-kohlekraftwerke-in-brunsbuttel-burger-sagen-nein">http://gruenes-klima.de/aktion/drei-neue-kohlekraftwerke-in-brunsbuttel-burger-sagen-nein</a>	Secretariat	23.09.2008
New Energy Production	Energy	Powerstation	DE	Proposed	Coal based electricity unit 800 MW	Brunsbüttel	Südwest-strom	<a href="http://gruenes-klima.de/aktion/drei-neue-kohlekraftwerke-in-brunsbuttel-burger-sagen-nein">http://gruenes-klima.de/aktion/drei-neue-kohlekraftwerke-in-brunsbuttel-burger-sagen-nein</a>	Secretariat	23.09.2008
New Energy Production	Energy	Powerstation	DE	Proposed	Coal based electricity unit 2*800 MW	Brunsbüttel	GETEC	<a href="http://gruenes-klima.de/aktion/drei-neue-kohlekraftwerke-in-brunsbuttel-burger-sagen-nein">http://gruenes-klima.de/aktion/drei-neue-kohlekraftwerke-in-brunsbuttel-burger-sagen-nein</a>	Secretariat	23.09.2008
New Energy Production	Industry	Sustainable energy	DE	Proposed	Industrial combined heat and power station for garbage incineration plant	Brunsbüttel	Bayer Material Science Brunsbüttel	<a href="http://gruenes-klima.de/aktion/drei-neue-kohlekraftwerke-in-brunsbuttel-burger-sagen-nein">http://gruenes-klima.de/aktion/drei-neue-kohlekraftwerke-in-brunsbuttel-burger-sagen-nein</a>	Secretariat	23.09.2008
Offshore Windpark Q7-WP	Energy	Sustainable energy	NL	Proposed	23 km from the shore in deep water (20-25 mtr), 60 Vestas V80 each 2MW		E-Connection + ENECO	<a href="http://www.e-connection.nl/?lang=en&amp;nav=projecten&amp;pag=ofshoreq7">http://www.e-connection.nl/?lang=en&amp;nav=projecten&amp;pag=ofshoreq7</a>	Secretariat	26.09.2008
Rivierduintocht Windpark	Energy	Sustainable energy	NL	Ongoing	a initiative of six farmers from Swifterbant in the province of Flevoland, the Netherlands, 7 Vestas V66 each 1650 MW, production startet 1999	Swifterbant		<a href="http://www.e-connection.nl/?lang=en&amp;nav=projecten&amp;pag=wprivierdtocht">http://www.e-connection.nl/?lang=en&amp;nav=projecten&amp;pag=wprivierdtocht</a>	Secretariat	26.09.2008

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Windpark Hagenwind	Energy	Sustainable energy	NL	Proposed	11 local farmers cooperation, In the Bestuursvereenkomst Landelijke Ontwikkeling Windenergie (BLOW) the Province of Gelderland has agreed to enable the realisation of 60 MW of wind energy by 2010	Windpark Hagenwind is located inland, between the villages of Aalten en Lichtenvoorde, approximately 10 km from the German border in the eastern part of the Netherlands		<a href="http://www.e-connection.nl/?lang=en&amp;nav=projecten&amp;pag=hagenwind">http://www.e-connection.nl/?lang=en&amp;nav=projecten&amp;pag=hagenwind</a>	Secretariat	26.09.2008
Biodiesel factory	Energy	Sustainable energy	NL	Ongoing	new biodiesel factory of Biovalue	Bulk quay, Eemshaven	Biovalue	<a href="http://www.groningen-seaports.com/developments.php">http://www.groningen-seaports.com/developments.php</a>	Secretariat	26.09.2008
Recycling plant	Energy	Sustainable energy	NL	Planned	recycling plant of Theo Pouw	Bulk quay, Eemshaven	Theo Pouw	<a href="http://www.groningen-seaports.com/developments.php">http://www.groningen-seaports.com/developments.php</a>	Secretariat	26.09.2008