



Meeting tender Borssele December 2015

15 December 2014

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Ministry of Economic Affairs



Welcome

Content 5th meeting 15th December:

- Progress made so far (quick overview)
- SDE+ subsidy scheme
- Technical Project Description

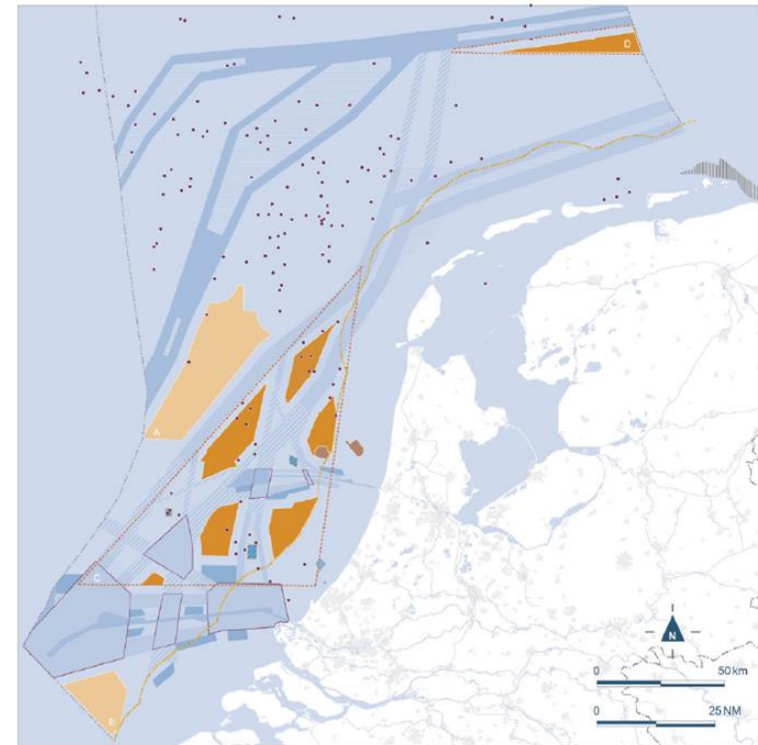
Logistics today

- 12.30 plenary presentations
- 13.45 parallel workshops
- 15.30 report workshops
- 16.30 informal reception



Progress roadmap Offshore wind energy (1)

- September windenergy areas for the Holland Coast area and the area north of the Wadden Islands were officially designated wind farm zones
- December consultation draft National Waterplan 2, e.g. policies for shippinglanes, ecology, mining and probably acces to windfarms for small ships all with respect to offshore wind farms



Aangewezen windenergiegebied	Scheepvaart	Olie- en gaswinning
IJmuiden Ver	Scheepvaartroute	Productieplatform
Borssele	Separatiezone scheepvaart	Begrenzing
Hollandse Kust	Clearways	Nederlandse wateren / EEZ
Ten Noorden van de Waddeneilanden	Te vermijden gebieden	Verdragsgebied Eems-Dollard
Bestaande windparken	Precasioneary area	Grens territoriale zee (12-mijlszone)
Bestaande windparken	Ankergebied	
	Diepwaterroute	

Progress roadmap Offshore wind energy (2)

September

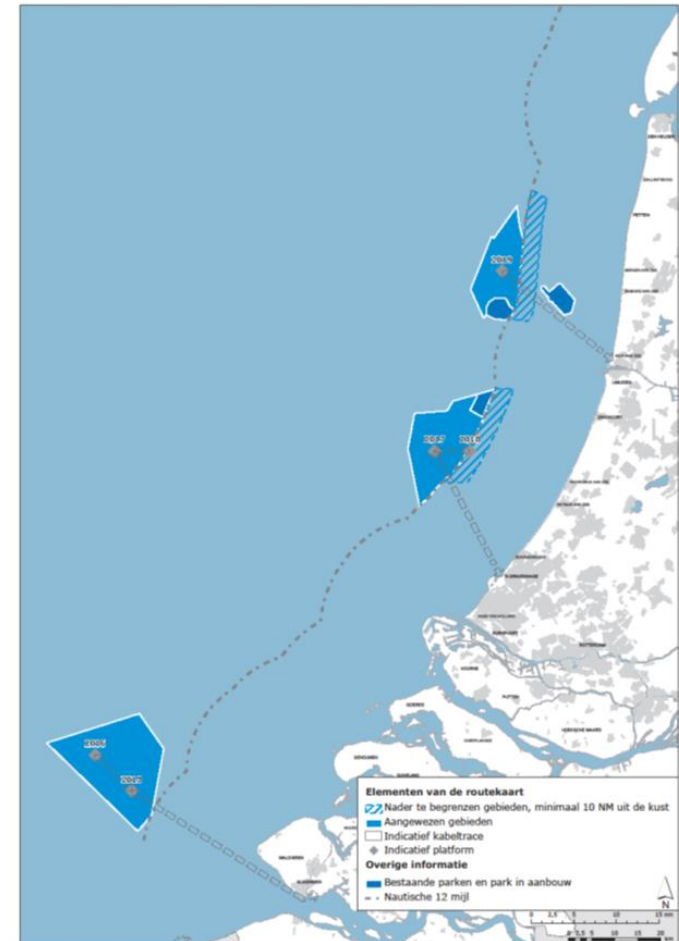
2015: 2 x 350 = 700 MW Borssele

2016: 2 x 350 = 700 MW Borssele

2017: 2 x 350 = 700 MW Zuid-Holland

2018: 2 x 350 = 700 MW Zuid-Holland

2019: 2 x 350 = 700 MW Noord-Holland





Progress offshore wind energy bill / general rules

1. March internet consultation offshore wind energy bill → wind farm site decision and prepare offshore grid
2. September internet consultation general rules
3. 16th of October bill to House of Representatives of the Netherlands
4. This month Ministers answer questions of representatives
5. February 2015: internet consultation (small) ministerial regulation offshore wind energy
6. All into force: 1th of July 2015

Tweede Kamer der Staten-Generaal

2

Vergaderjaar 2014–2015

34 058

Regels omtrent windenergie op zee (Wet windenergie op zee)

Nr. 1

KONINKLIJKE BOODSCHAP

Aan de Tweede Kamer der Staten-Generaal

Wij bieden U hiernaevens ter overweging aan een voorstel van wet houdende regels omtrent windenergie op zee (Wet windenergie op zee). De memorie van toelichting, die het wetsvoorstel vergezelt, bevat de gronden waarop het rust.
En hiermede bevelen Wij U in Godes heilige bescherming.

Wassenaar, 16 oktober 2014

Willem-Alexander

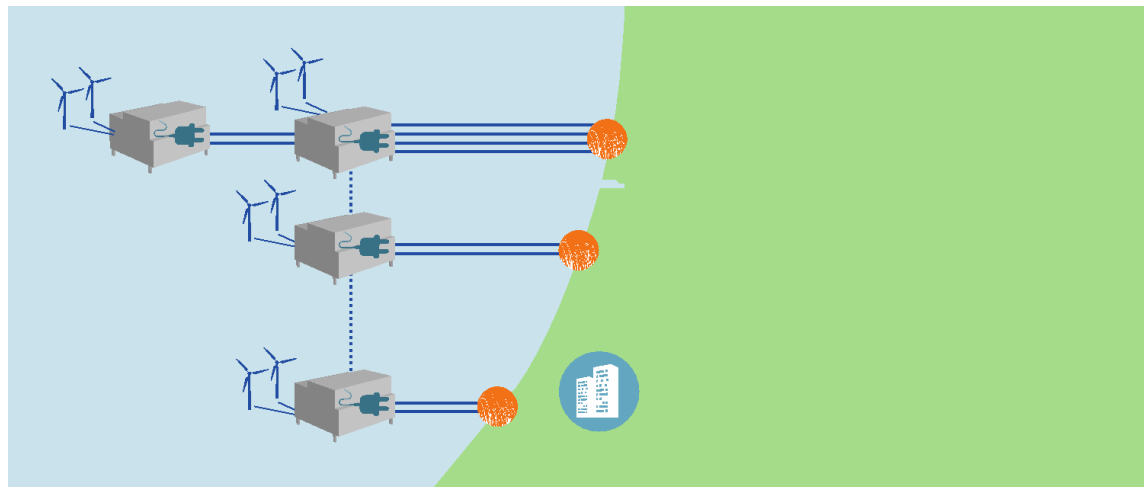
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Tweede Kamer, vergaderjaar 2014–2015, 34 058, nr. 1



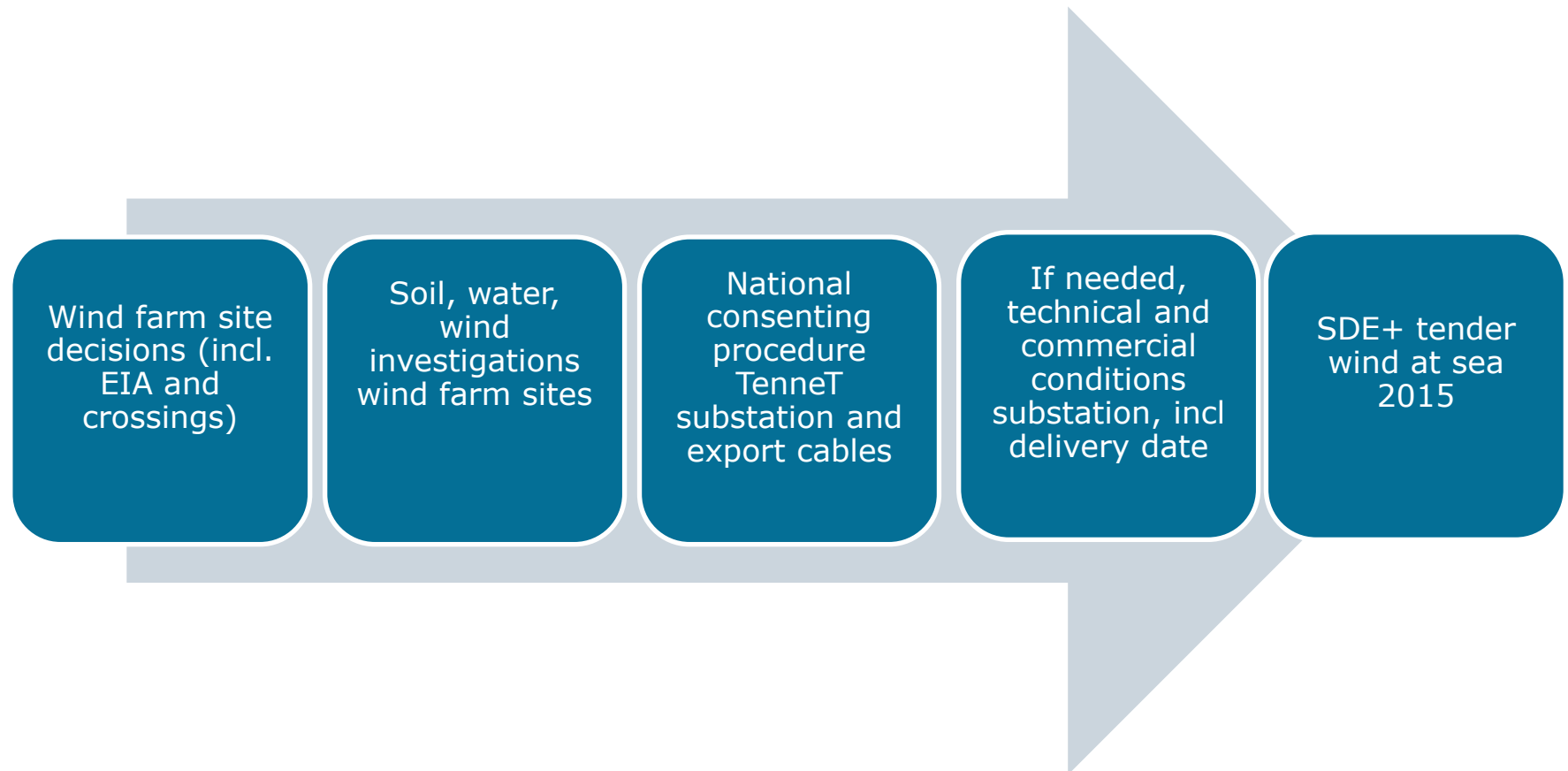
Progress Electricity and gas bill (STROOM)

1. August internet consultation Electricity and gas bill → TSO can build and operate offshore grid and responsibility / liability
2. March 2015 bill to House of Representatives of the Netherlands
3. March 2015 internetconsultation ministerial regulation (details responsibility / liability)
4. All into force: 1th of January 2016 (published earlier)





Progress first tender Borssele december 2015





Progress wind farm site decisions Borssele (1)

1. Workshop 15th July
2. October memorandum scope and level of detail EIA published
3. 9th December positive advise independent Netherlands Commission for Environmental Assessment





Progress wind farm site decisions Borssele (2)

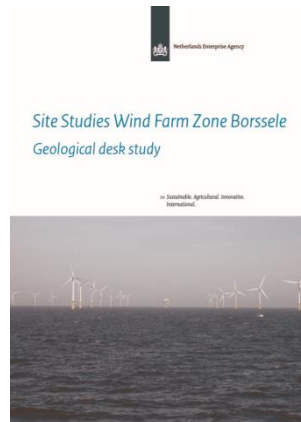
4. April 2015 interim advise independent Netherlands Commission for Environmental Assessment about EIA site II
5. May 2015 pre-concept wind farm site decision II
6. August 2015 official concept both wind farm site decisions

Subject		Bandwidth
Power individual wind turbines		3 – 10 MW
Tip height individual wind turbines		125 – 250 meter
Tip lowness individual wind turbines		25 – 30 meter
Rotor diameter individual wind turbines		100 – 220 meter
Spacing between wind turbines		≥ 4D
Number of blades per wind turbine		2 – 3
Type of substructures		Monopile, jacket, tripole, tripod, gravity based structure
Type of foundations		(Mono)piles, suction buckets, gravity based structures
Installing piles		Vibratory, hammering, boring, suction
In the case of hammering: hammer energy related to turbine type / pile		1,000 – 3,000 kJ, depending on soil conditions and diameter foundation
In the case of hammering: diameter pile(s) and number of piles per turbine:	Jacket	4 piles 1,5 – 3,5 meter
	Monopile	1 pile 4 -10 meter
	Tripod	3 piles 2 - 4 meter
In the case of a foundation without hammering: dimensions at seabed:	Gravity Based	≤ 40 x 40 meter
	Suction Bucket	Diameter bucket: n.t.b.
Electrical infrastructure, voltage level infield cables		33kV or 66kV



Progress soil, water, wind investigations

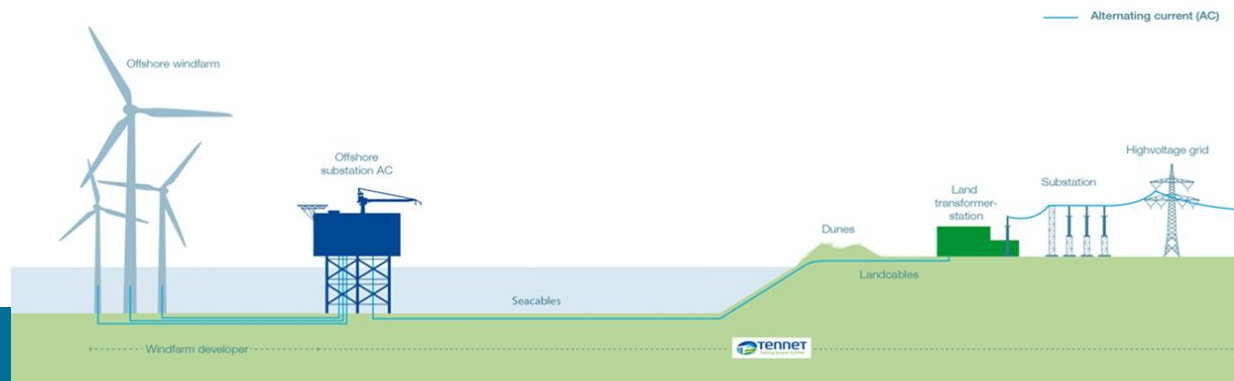
1. July 'Quick scan ECN' and 'Geological desk study'
2. September workshop
3. November presentation desk study morphodynamics
4. Today workshop (technical project description, desk studies)
5. December technical project description
6. September 2015 update technical project description





National consenting procedure TenneT



1. June letter to the House of Representatives of the Netherlands to designate TenneT as system operator of the offshore grid
2. September workshop
3. November workshop, location 'Borssele Alpha'
4. December letter to the House of Representatives of the Netherlands to apply consenting procedure for the offshore grid Borssele
5. February 2015 memorandum scope and level of detail EIA
6. November 2015 EIA and official concept all permits needed





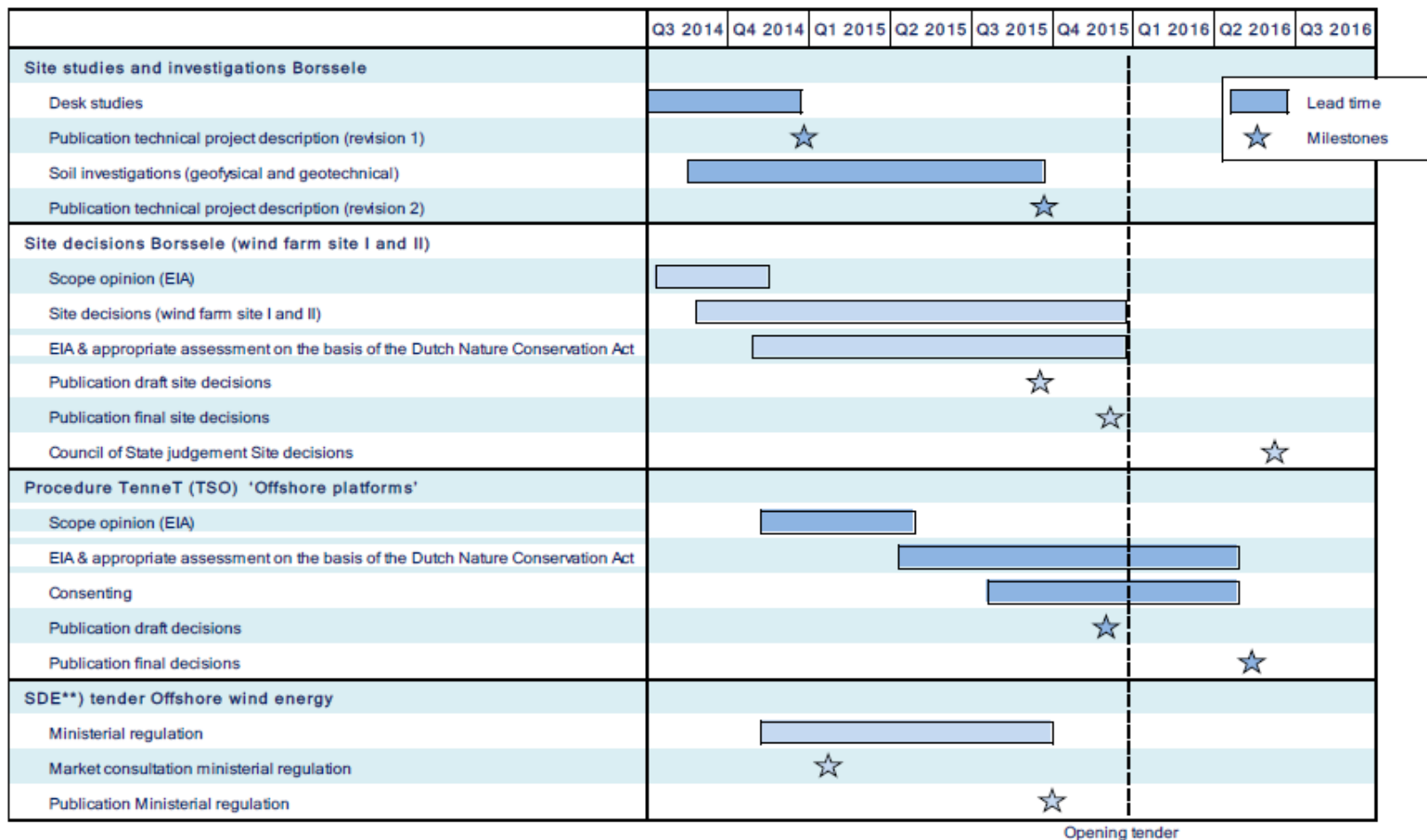
Progress SDE+ tender wind at sea

1. April internet consultation adjustment SDE (RES grant)
2. October workshop
3. November letter to House of Representatives of the Netherlands including information about subsidies
4. Today workshop (zone base amount, step 3)
5. January 2015 adjustment SDE (RES grant) into force
6. February 2015 internet consultation ministerial regulation
7. September 2015 publication ministerial regulation

Step 1 Energy Agreement	Step 2 Subtract the grid costs	Step 3 Zone base amount	Step 4 Site base amount
- based on an average wind farm site and 40% cost reduction -		- ECN calculates the base amount per zone Borssele, HK Z en HK N. -	- ECN calculates base amount per site base of 350 MW ('kavelbesluit') -
2015 14,5			
2016 14			
2017 13,5			
2018 13			
2019 12,5			



Planning Winfarm zone Borssele



More detailed planning



(draft 15/12/2014)

Werkplanning windenergie op zee

INTERN/VERTROUWELIJK

	Product	nov-14	dec-14	jan-15	feb-15	mrt-15	apr-15	mei-15	jun-15	jul-15	aug-15	sep-15	okt-15	nov-15	dec-15	jan-16		
Gebieden en kaders	Wijzigen NWP2 vooraanvulling gebied Hollandse Kust	Planning nog te bepalen																
	Ontwerpproces mijnbouw	Ontwerp-NWP2 ter inzage (6 mnd)															NWP 2	
	Afw kader medegebruik en doorvaart	Ontwerp-NWP2 ter inzage (6 mnd)									Testen						NWP 2	
	Kader ecologie en cumulatie (KEC)	Sessie onder-watergeluid	Ontwerp-NWP2 ter inzage (6 mnd)															NWP 2
Tender Borssele	Kavelbesluiten I en II Borssele	24/10 - 4/12 NRD ter inzage								Ontwerp-kavelbesluiten ter inzage (6 wk)			Definitieve kavelbesluiten ter inzage (6 wk)					
		11/11 stakeholderbijeenkomst								Inloopbijeenkomst								
		11/11 inloopbijeenkomst								OIM								
	Afstemming met marktpartijen in werkateliers	*17/11 werkatelier sector	*15/12 werkatelier sector	Werkatelier sector		Werkatelier sector												
	Kabeltracé land en zee (RCR-procedure)				NRD ter inzage (6 wk)			BRO overleg icm horen gemeenteraad en PS						Ontwerp-besluiten ter inzage (6 wk)				
	Onderzoeken grond, water en wind	Publicatie technische project-beschrijving obv bureaustudies															Publicatie update technische project-beschrijving obv bodemonderzoeken	
Regeling SDE +			Stakeholders-sessie	Consultatie MR		Concept MR gereed								Publicatie MR	* 1/10 in werking	* openstelling tender		
Wetten en regels	Wet windenergie op zee	Verslag Tweede Kamer	Nota n.a.v. verslag	Plenaire behandeling en stemming Tweede en Eerste Kamer (= gewenste planning, afhankelijk van besluitvorming Tweede en Eerste Kamer)						* 1/7 in werking								
	Regeling windenergie op zee				Internet consultatie (4 wk)								* 1/7 in werking					
	Algemene Regels windparken op zee (wijziging Waterbesluit)										Publiceren algemene regels		* 1/7 in werking					
	Elektriciteits- en gaswet (STROOM)	Advisering Raad van State			Nader rapport en indiening bij Tweede Kamer		Behandeling en stemming Tweede Kamer (= gewenste planning, afhankelijk van besluitvorming Tweede Kamer)						Behandeling en stemming Eerste Kamer (= gewenste planning, afhankelijk van besluitvorming Tweede en Eerste Kamer)		Publiceren elektriciteits- en gaswet		* 1/1 STROOM in werking	
	Lagere regelgeving (STROOM) (aansprakelijkheidsregeling net op zee)	Overleg met sector		Overleg met sector		Internetconsultatie (4 wk) en verwerking				Juni/juli voorhang Tweede en Eerste Kamer		Advisering Raad van State						Publiceren regeling

Formele inspraak
Afstemming marktpartijen
Afronding product
Afstemming stakeholders
Overige mijlpalen



Next workshops

- 2nd March 2015?
Suggestions: progress, shipping, scoping EIA offshore grid, geotechnical survey
- April or May?



Websites

- <http://english.rvo.nl/topics/sustainability/offshore-wind-energy>
(English):
publications, meeting reports and presentations, technical project description
- <http://www.rvo.nl/subsidies-regelingen/wind-op-zee-kavels-borssele> (Dutch):
formal procedure wind farm site decisions ('kavelbesluiten') and (later) offshore grid
- <http://www.rijksoverheid.nl/onderwerpen/duurzame-energie/windenergie/windenergie-op-zee>
General public, wind offshore policy in general
- <http://www.noordzeeloket.nl/en/functions-and-use/wind-energy/>
Users North Sea



Logistics today

- Parallel workshops : 13.45 – 15.15 h
- 2 groups:
 - SDE+ (subsidy scheme)
room: Lange Voorhoutsalon
 - Technical Project Description
room: Binnenhofsalon
- Plenary wrap up 15.30- 16.30 h
room: Lange Voorhoutsalon
- Informal reception 16:30 h
room: de bar