



Ministry of Economic Affairs



Energy legislation:

- scenario,
- investment plan, and
- compensation scheme

for the offshore transmission system

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Electricity and gas bill (STROOM)

Time schedule

- March 2015: advice Council of State, internet consultation of administrative decree (details)
- April/May 2015: bill to House of Representatives
- Law in force: 1th of January 2016 (published earlier)

Relevant for offshore wind in the Netherlands

- Scenario
- Investment plan
- Compensation scheme





Scenario

Fundamentals

- Why? targets Energy Agreement and dependency of government stimulation ask for government steering
- Objective: to provide a spatial, time and technical framework for development of offshore wind in the Netherlands
- Level of detail: functional (design) requirements (outline)
- Starting point: minimisation of LCOE

Relationships

- Spatial: Road map
- Time: Compensation scheme
- Technical: ATO and REA (legal framework TenneT)

! Work in progress !

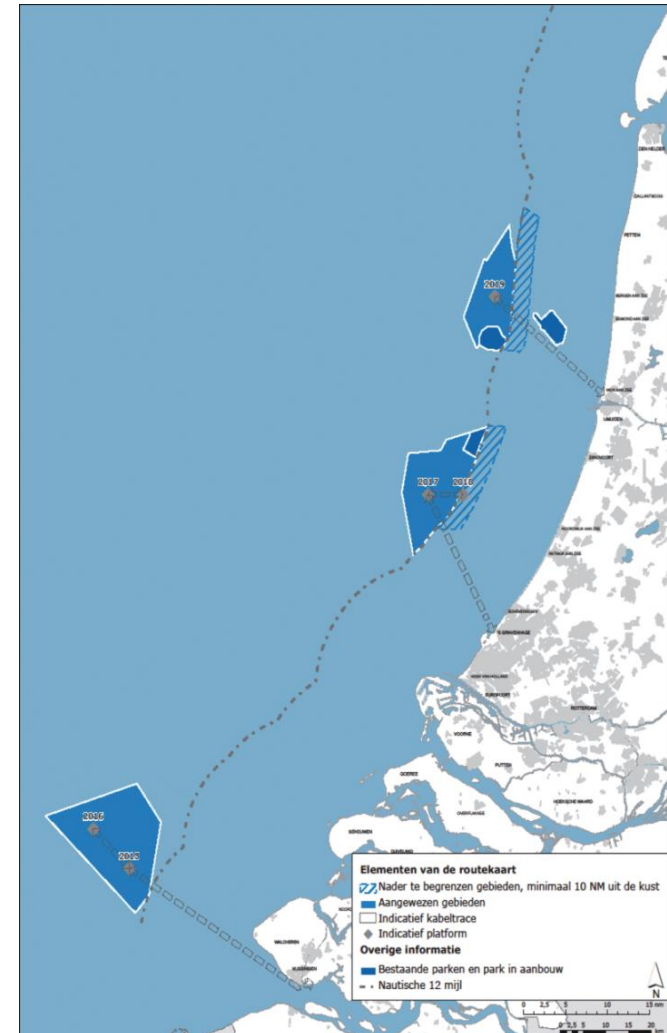


Scenario: contents

Roadmap

Time schedule (preliminary!)

Site	Completion offshore transmission system
Borssele (Site I & II)	Mid 2019
Borssele (Site III & IV)	Mid 2020
Hollandse Kust: Zuid-Holland (Site I & II)	Q1 2021
Hollandse Kust: Zuid-Holland (Site III & IV)	Q1 2022
Hollandse Kust: Noord-Holland (Site I & II)	Q4 2022





Scenario: contents

Functional requirements

! Minister Econ. Affairs decides

- Future proof:
 - modular (add-on) hub functionality
 - no part of (DC) meshed offshore grid
 - life-span: re-powering?

! Regulator (ACM) determines depreciation scheme

- Maximum installed power (overplanting): 380 MW/Lot

! Subject to capacity platform & export cable (study TenneT)

- In-field voltage level: 33 or 66 kV?

! Pending study TenneT and review ministry Econ. Affairs





Investment Plan

Fundamentals

- Why? Large investments needed in transmission infrastructure. IP ensures (return on) timely and efficient investments.
- Objective: to improve clarity about (necessity, how and when of) investments (improved consultation procedure). System operator is obliged to carry out the investments in the IP.
- Time schedule: every even year, starting 2018
! For offshore investment plan: 1 Feb 2016

Importance for offshore wind

- Regulator (ACM) tests necessity and efficiency of investments
- Regulator (ACM) tests if plan meets demands of scenario
- Once approved, necessity of investments is set



Compensation scheme

Objective: to provide clarity, comfort, and avoid pricing in of risks



2 Situations:

1. Late completion of offshore transmission system
 - Wind farm would have been ready for production
 - Deferred revenues & consequential damages
2. Interruption of transport capacity of offshore TS
 - Except maintenance period (# days or % of production)
 - Lost revenues from electricity sales & consequential damages

! Interaction with subsidy (SDE+), still under discussion

! Determination of amount of not transported electricity



End

Feel free to ask questions!