

Workshop
October 26, 2021

Offshore Wind Energy in the Netherlands



Programme

- 15.00 Welcome by Ruud de Bruijne
- 15.10 Offshore Wind Energy Policy by Joost Vermeulen and Eva de Leede
- 15.35 Site Characterization and Offshore Grid by Matté Brijder and Tiemen Govers
- 16.00 Tenders Hollandse Kust (west) Wind Farm Zone by Camiel van der Hout and Emelie de Wagt
- 16.20 Q&A round
- 16.30 Closing

A photograph of an offshore wind farm with several white wind turbines on yellow foundations in a blue sea under a clear sky. The image is framed by large orange geometric shapes on the left and right sides.

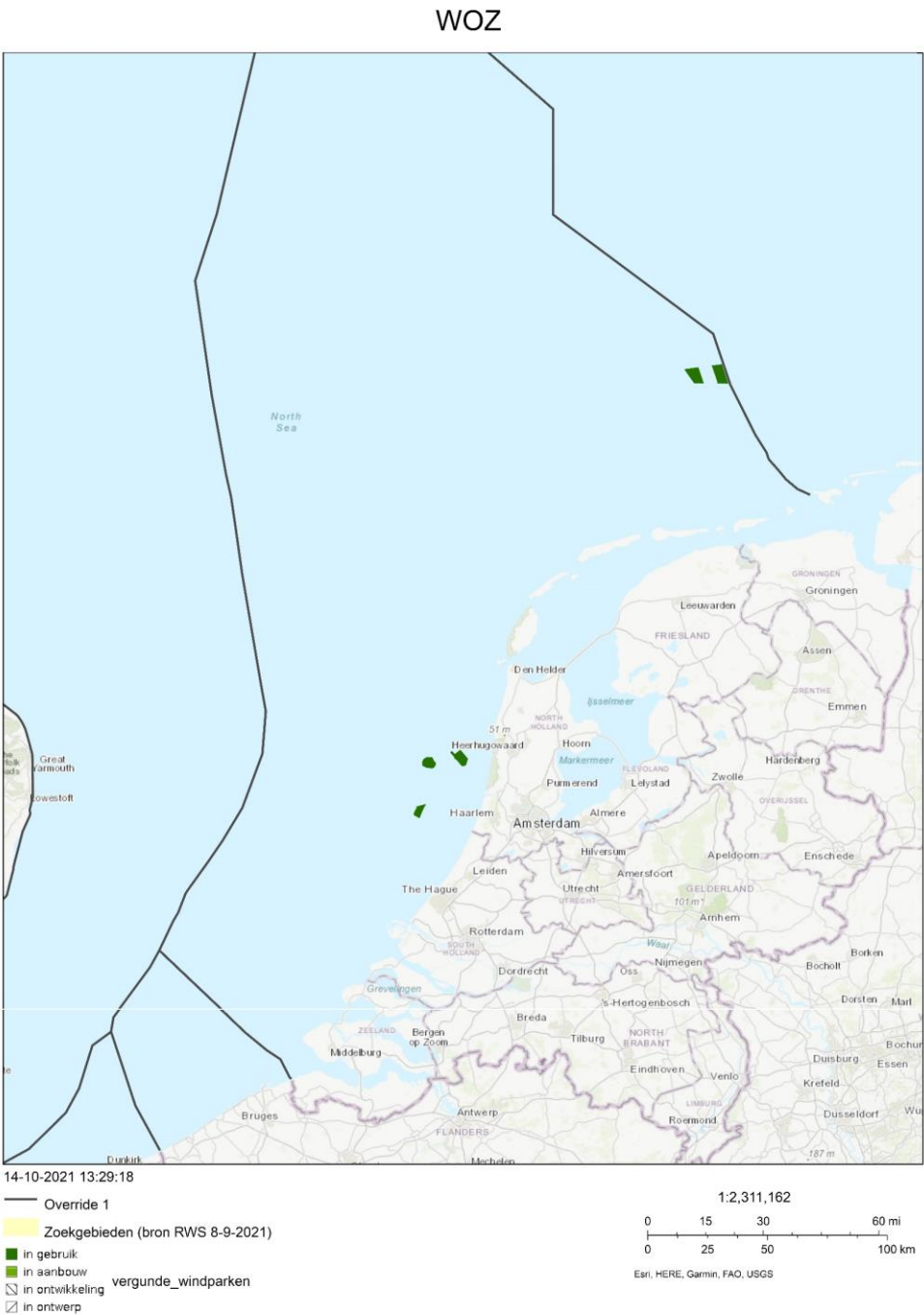
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water
works

Offshore wind policy update

Joost Vermeulen and Eva de Leede,
Ministry of Economic Affairs and Climate Policy

2019

Wind farm	MW
OWEZ	108
Amalia	120
Luchterduinen	129
Gemini	600
Total	957



2023

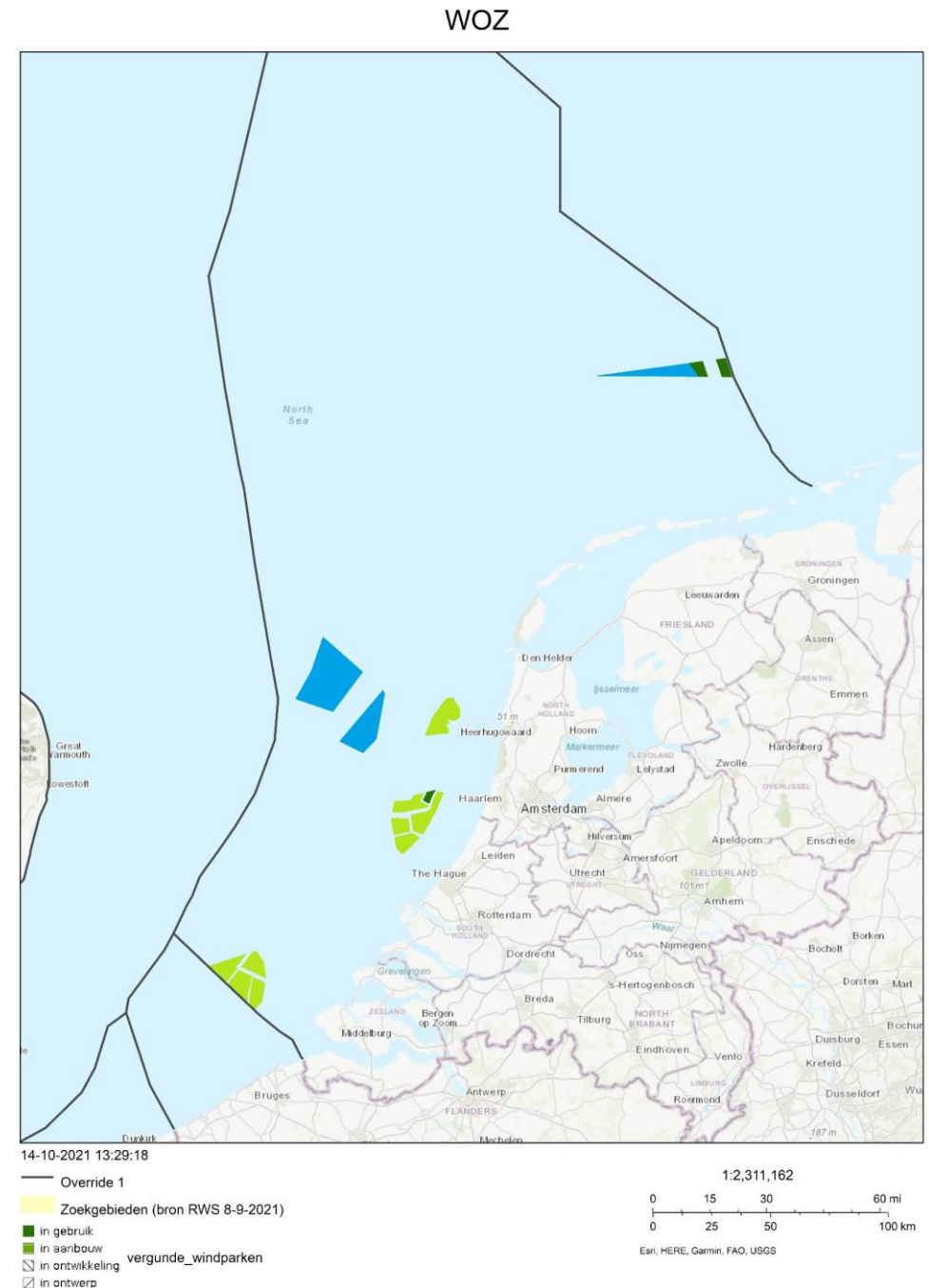
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Borssele	1502
Hollandse Kust (zuid)	1520
Hollandse Kust (noord)	759
Total	4738



2030

Wind farm	MW
Luchterduinen	129
Gemini	600
Borssele	1502
Hollandse Kust (zuid)	1520
Hollandse Kust (noord)	759
Hollandse Kust (west)	1500*
Ten noorden van de Wadden	700*
IJmuiden Ver	4000*
Total	10710*

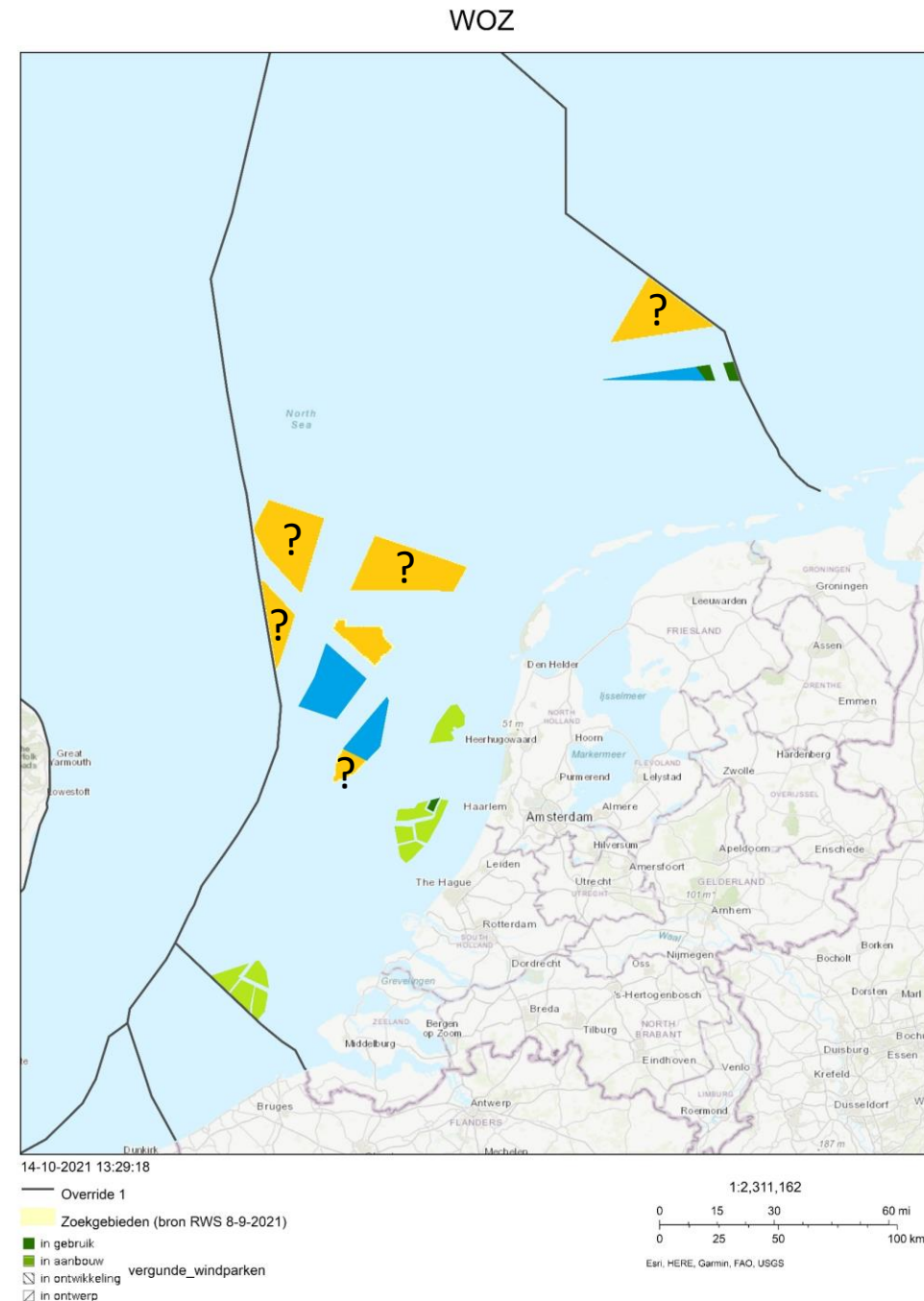
* estimate



2030+

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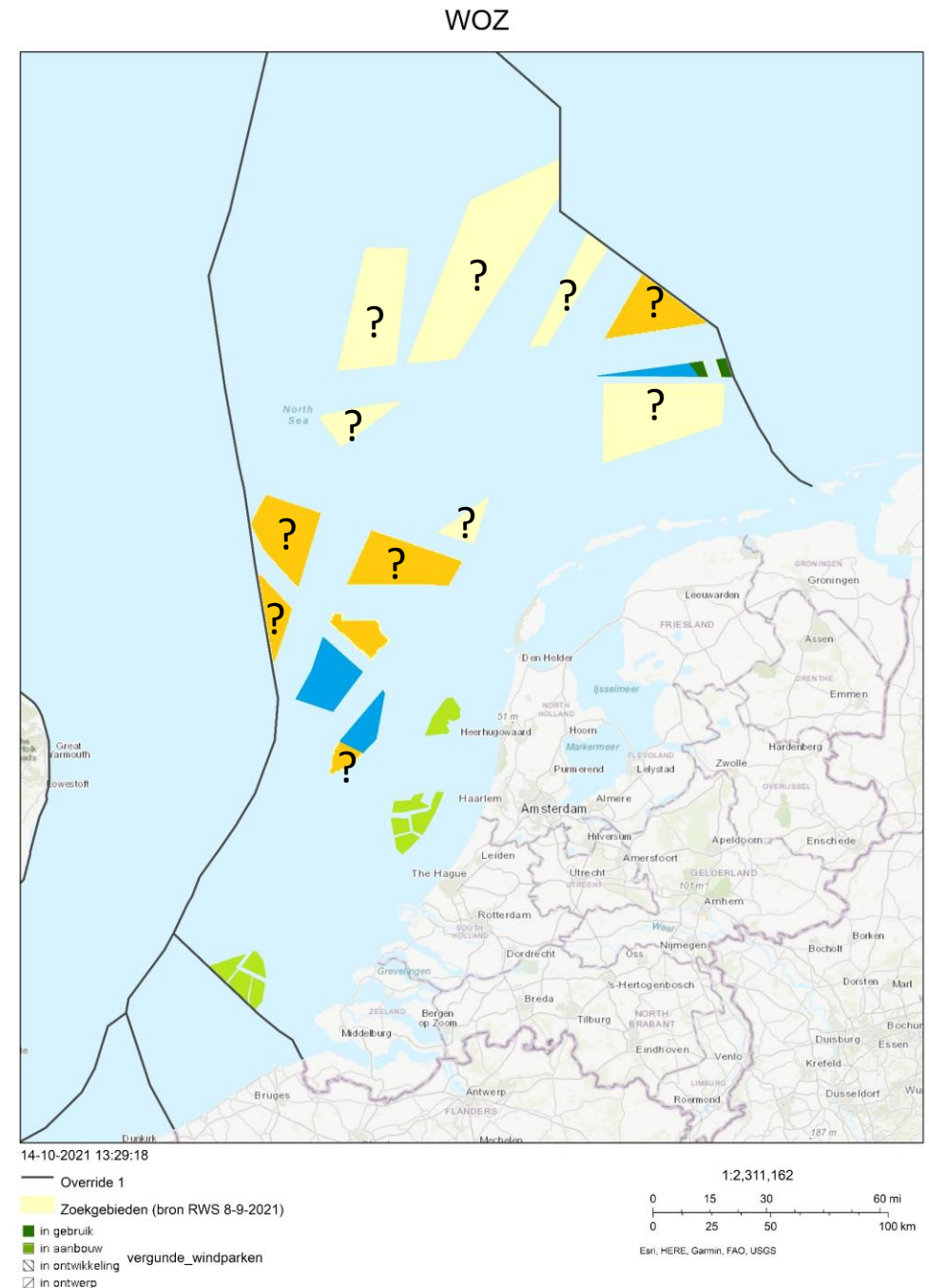
+ 10 GW?



2040

Wind farm	MW
Gemini	600
Borssele	1502
Hollandse Kust (zuid)	1520
Hollandse Kust (noord)	759
Hollandse Kust (west)	1500*
Ten noorden van de Wadden	700*
IJmuiden Ver	4000*
Total	10581*

+ 27 GW



Legislation update

Amendment of Offshore Wind Energy Act

- > Adopted on 29 June 2021
- > Expected into force in November 2021

Decree compensation offshore grid

- > Open for internet consultation in November 2021
- > www.internetconsultatie.nl

Tweede Kamer der Staten-Generaal

2

Vergaderjaar 2018–2019

35 092

Wijziging van de Wet windenergie op zee
(ondersteunen opgave windenergie op zee)

Nr. 2

VOORSTEL VAN WET

Wij Willem-Alexander, bij de gratie Gods, Koning der Nederlanden,
Prins van Oranje-Nassau, enz. enz. enz.

Allen, die deze zullen zien of horen lezen, saluut! doen te weten:
Alzo Wij in overweging genomen hebben, dat het voor het realiseren
van de grotere opgave voor windenergie op zee noodzakelijk is om de
procedures voor de vergunningverlening en de energiedragers die
ontstaan na omzetting van wind uit te breiden;

Zo is het, dat Wij, de Afdeling advisering van de Raad van State
gehoord, en met gemeen overleg der Staten-Generaal, hebben goedge-

voord

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Eureka moment?

Help us find new names for our new wind farm zones.

From November 9th until December 1st 2021

A contest for the Dutch public to help us find new names for our new wind farm zones

Questions



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Site Characterization and Offshore Grid

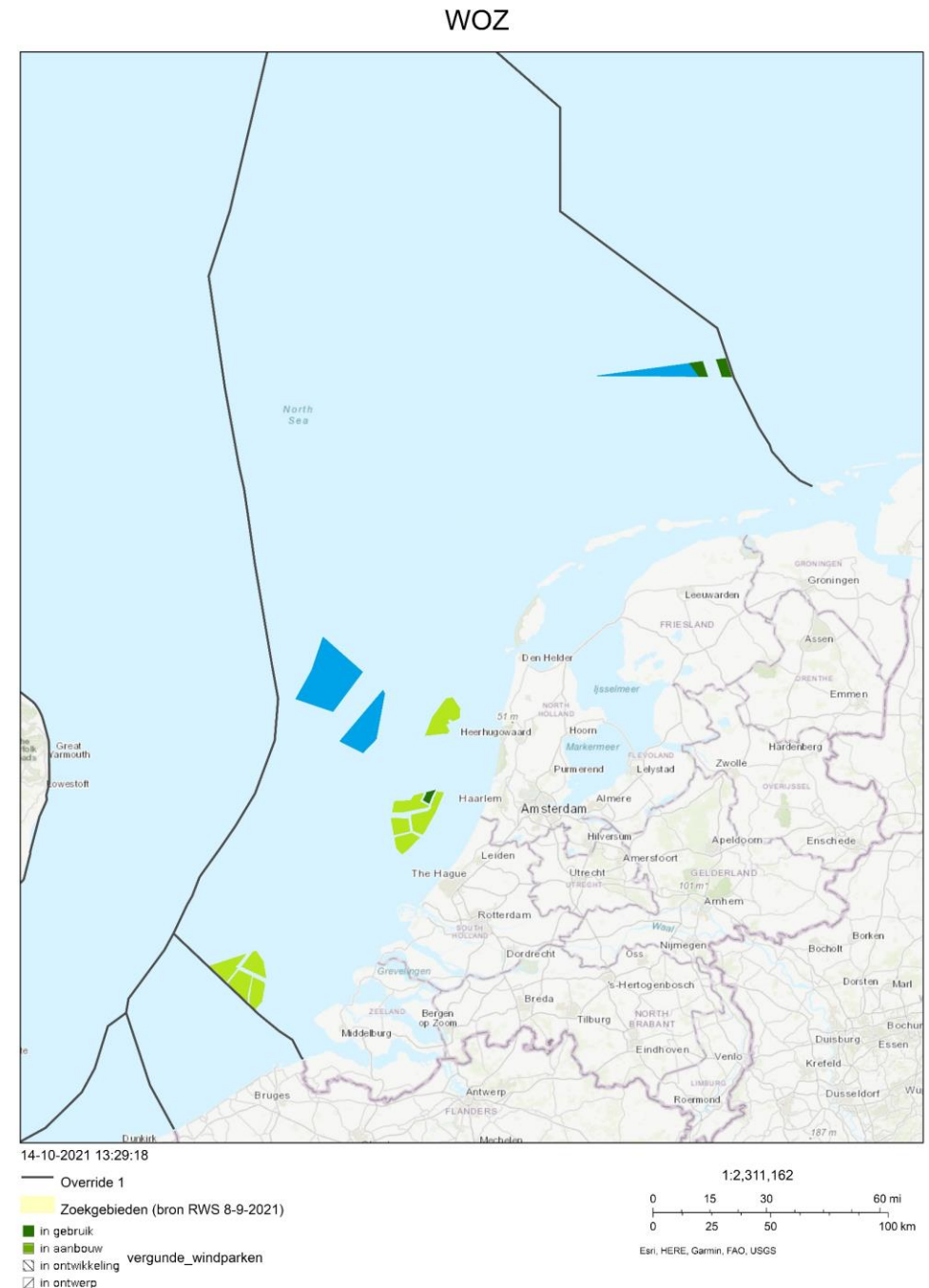
Matté Brijder, Netherlands Enterprise Agency

Tiemen Govers, TenneT

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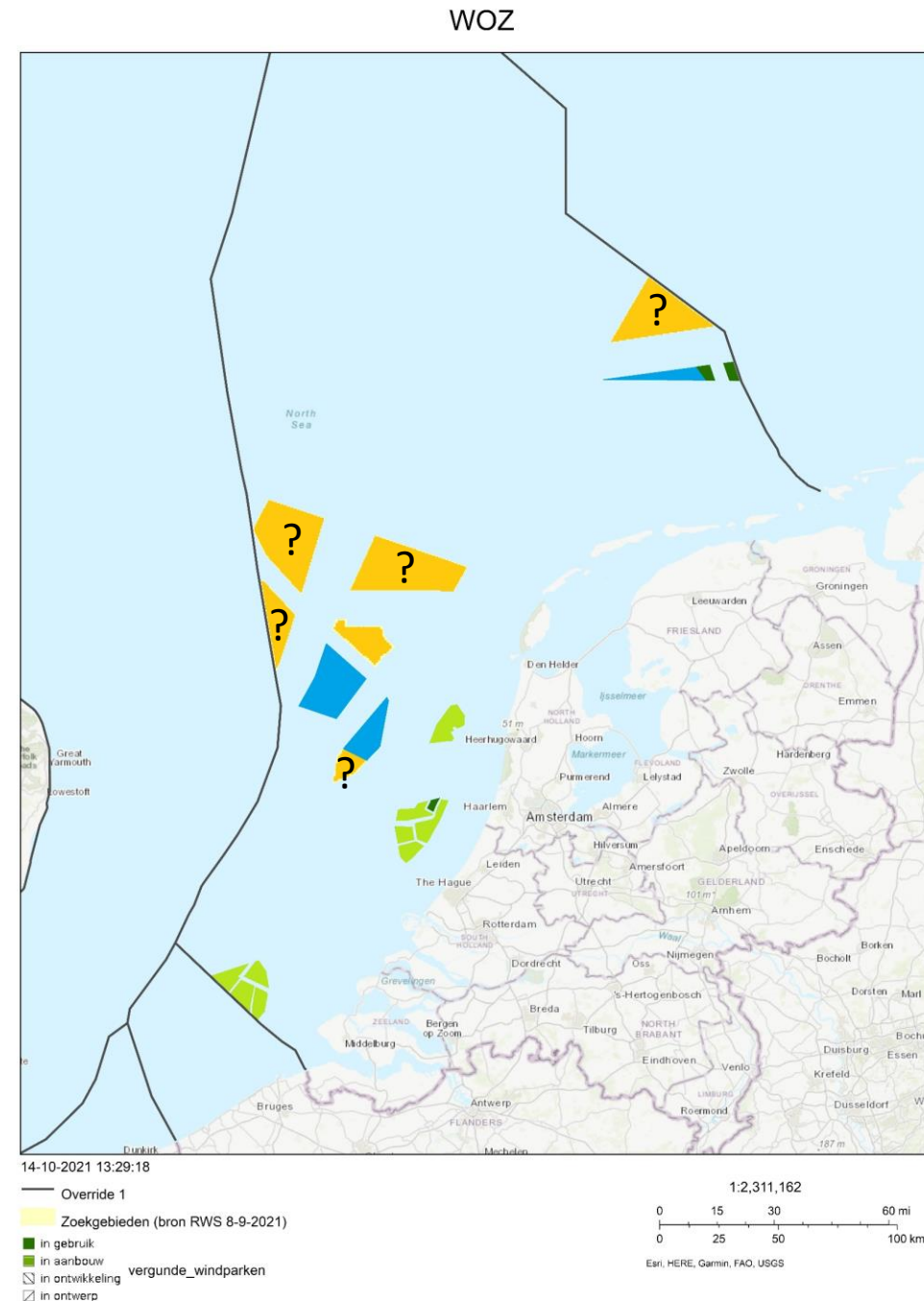
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+ 10 GW?



Consultation end users

Conclusions

Effective and efficient site characterization package
Contributes to level playing field and goal achievement
Developments on the right track

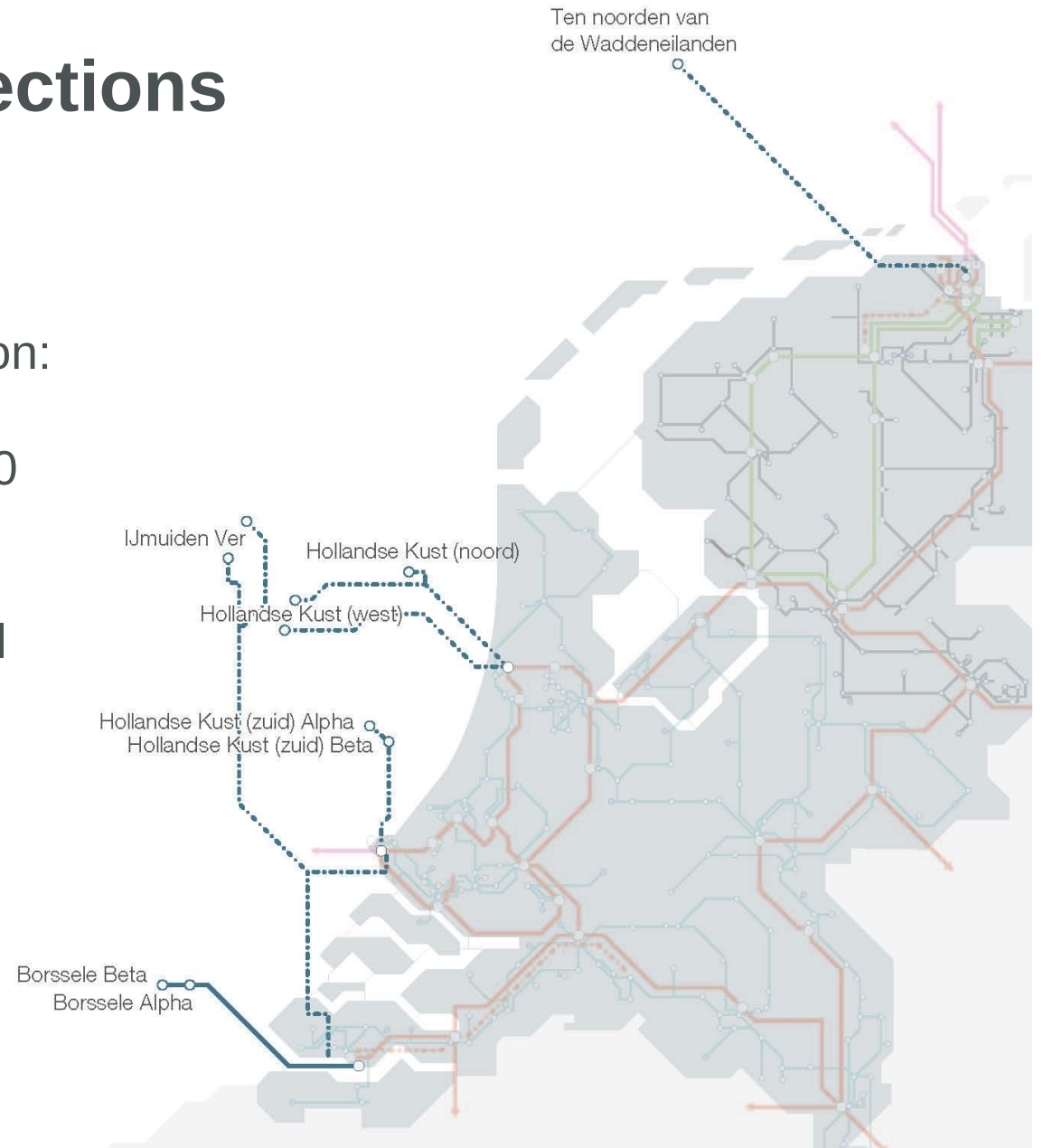
Netherlands Enterprise Agency (RVO)

First recommendations implemented for future sites
(certification ground model, wind gradient, 3D seismic)
Continue and further develop the current approach of
site characterization

TenneT offshore grid connections The Netherlands

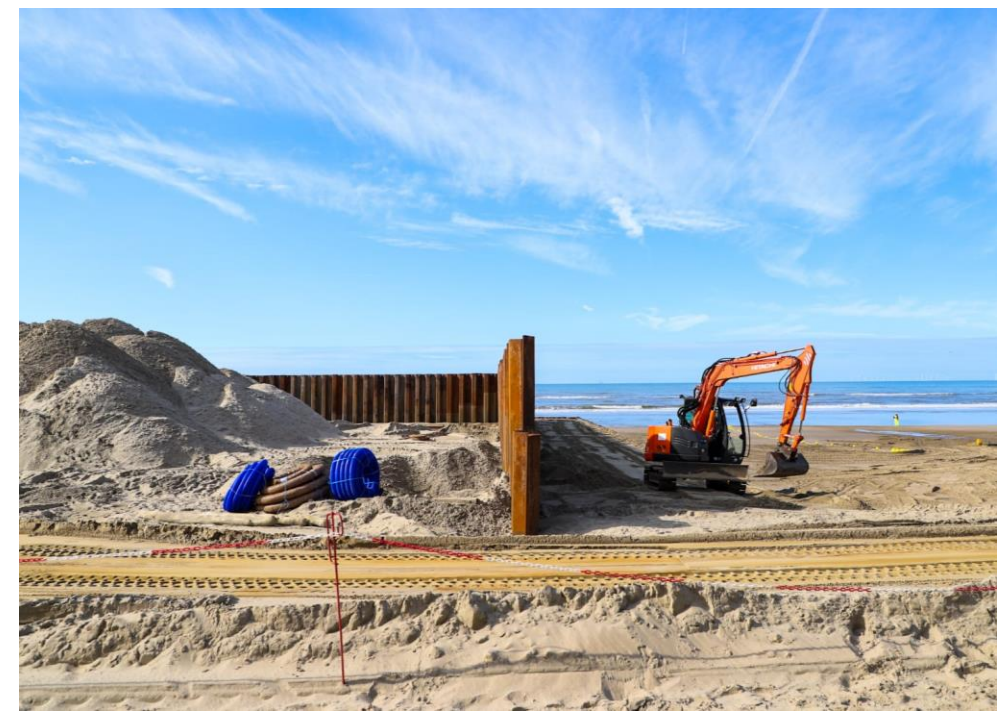
In operation / under construction / preparation:

- Eight AC grid connections with total 5,600 MW
- Three new DC grid connections with total 6,000 MW





Hollandse Kust (noord)
Hollandse Kust (west)



IJmuiden Ver Alpha+Beta+Gamma 2GW HVDC

- Alpha to Borssele via Veerse Meer and Beta and Gamma to Maasvlakte
- Planning: Draft permits and draft spatial plan for consultation end 2021 (Beta) / beginning of 2022 (Alpha). Final permits and spatial plan expected mid 2022
- Project Gamma has started Q1 2021
 - No irreversible steps will be set; Northern part of wind energy area IJmuiden Ver must be reconfirmed in North Sea Program
 - Public consultation draft scoping document (NRD) September 17 to October 28, 2021
 - Gamma follows the same route as Beta (and offshore partly as Alpha) to the Maasvlakte
 - Synergy and acceleration by combination of routes





<https://offshore-documents.tennet.eu/nl/> 2 GW and TenneT HKW documentation

Questions



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Tenders Hollandse Kust (west) Wind Farm Zone

Camiel van der Hout and Emelie de Wagt,
Ministry of Economic Affairs and Climate Policy



Luchterduinen Wind Farm



OWEZ – Offshore Wind Farm Egmond aan Zee



Prinses Amalia Wind Farm



Gemini Wind Farm

Communication

Available online

Project and Site Description Hollandse Kust (west)
Draft Wind Farm Site Decisions VI and VII
Hollandse Kust (west)

Available online soon

All questions and answers of the workshops
26 October and 30 June 2021
Letter to Parliament 13 October 2021 and the
appendices 1 and 2 of the Ministerial Order for
permitting offshore wind energy

www.rvo.nl/windenergie-op-zee

<https://offshorewind.rvo.nl>

Contact us

Email: woz@rvo.nl



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