



THE NORWEGIAN WIND
ENERGY ASSOCIATION

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Offshore wind – perspectives and regulation

E-worksop on the regulatory framework for the
development of offshore wind in Greece

Daniel Willoch – NORWEA
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The Norwegian backstory



Motivating factors in OW



The Norwegian system



The mission statement: A lesson

The starting point is consequential



 **FAKTA**

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Dybde og kompliserte bunnforhold gjør havvind i Norge dyrere enn i Europa

Energiavdelingen - Ann Myhrer Østenby

Regjeringen har foreslått å åpne to områder for bygging av havvind: Sandskallen-Sørøya nord, som passer for både flytende og bunnfast teknologi, og Utsira nord som bare passer for flytende. I tillegg er det bedt om innspill på åpning av et tredje område, Sørlige Nordsjø II.

Så å si alt av havvind som er bygget ut eller som er under utbygging i verden i dag er bunnfast. NVEs analyser viser at det koster mer å bygge bunnfast havvind i Norge, enn det som er gjennomsnittskostnaden for de områdene hvor det bygges bunnfast havvind i Europa i dag. En av de viktigste grunnene til det er at de norske havområdene er dype og har kompliserte bunnforhold. Dybde er den enkeltfaktoren som bidrar mest til å øke kostnadene for bygging av havvind. På grunn av havdybden er det største potensiale for havvind i Norge i form av flytende havvind. Flytende havvind er imidlertid vesentlig dyrere enn bunnfast havvind.

"The depths and complicated bottom conditions make Norwegian OW more expensive than in the rest of Europe"

Important motivating factors

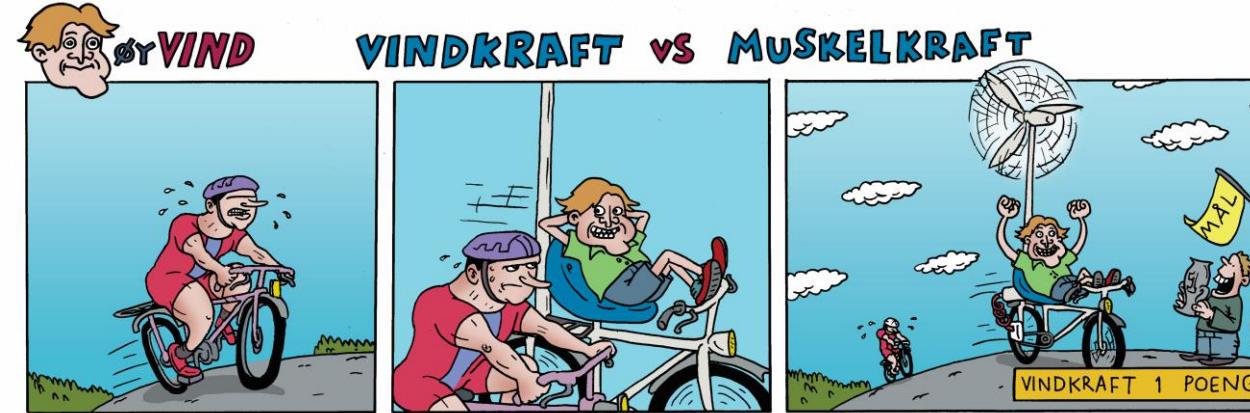
- ▶ High innovation focus
 - ▶ Building in a mature market should mean industry driven innovation
 - ▶ Power system integration increasingly important part of project development
- ▶ Longevity and universal application of the system
 - ▶ No-one can make certain predictions about costs and solutions ahead in time – the system design should reflect that
 - ▶ The Norwegian experience; both floating and bottom fixed – diverse challenges
- ▶ Fair competition, transparent processes



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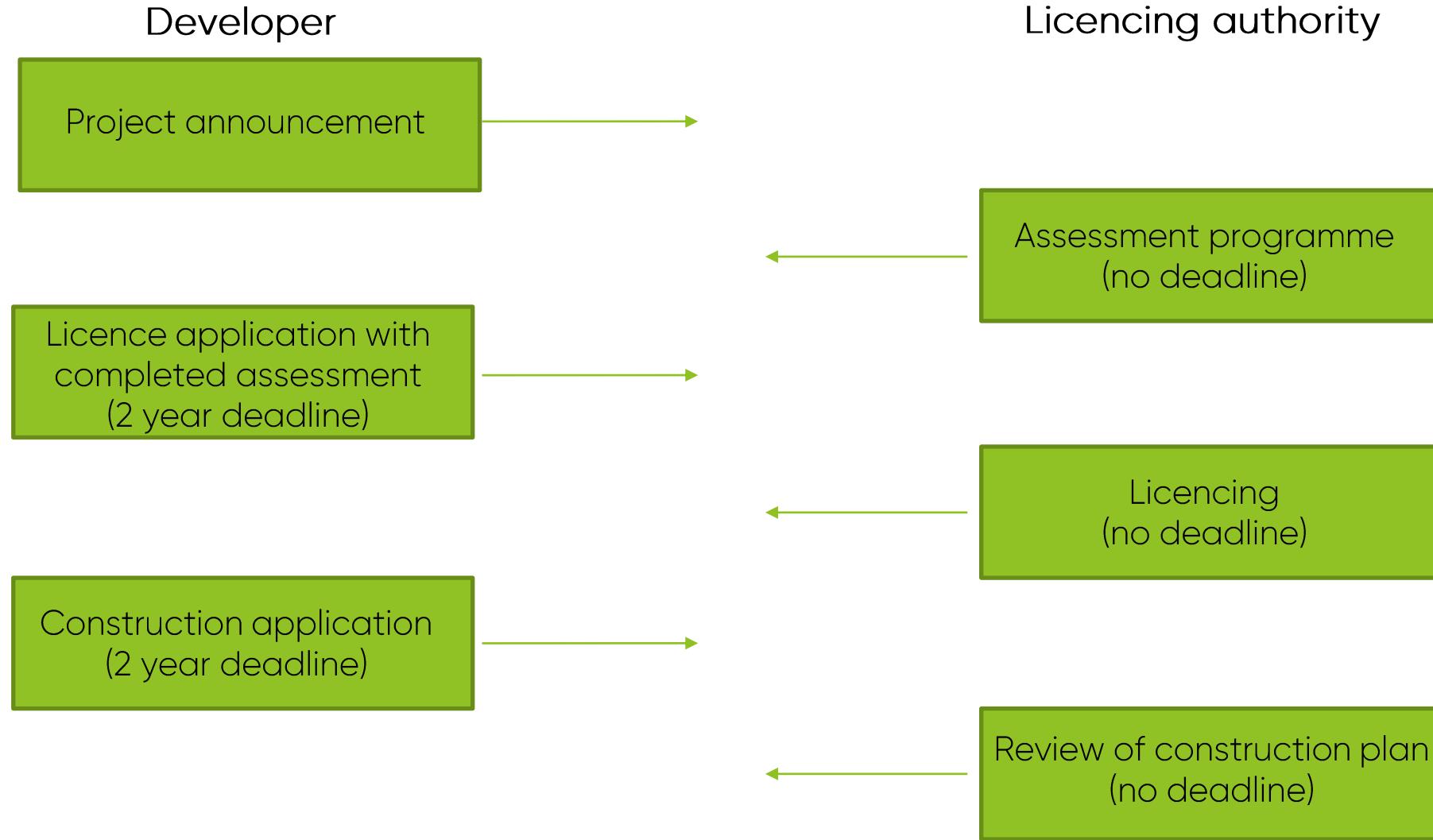
The system: an overview



The Norwegian system

- ▶ Licence area given to one party for development
- ▶ 2 + 2 + 3 year deadline to clear hurdles
 - ▶ Open for 2-year extensions
- ▶ Comments by industry actors on too short timeframes
- ▶ Specifically commissioning deadline being questioned
- ▶ NORWEA and others suggested "work-programmes"
 - ▶ + Greater flexibility for developers
 - ▶ + Greater control by authorities over individual projects
 - ▶ - More complexity in ensuring against land-grabbing
 - ▶ - higher maintenance on the part of licencing authorities

An asymmetric licencing process



The Norwegian regulation

- ▶ «Black-box» challenge for applications, concering
 - ▶ Sorting and prioritizing between applications
 - ▶ The lack of a strict timeline for the authorities' own assessments
 - ▶ On what grounds changes may be made to projects
- ▶ A call from the industry for high degree of transparency on the side of the authorities
- ▶ Strict timelines for building processes warrant high degree of trust and mandates open dialogue between authorities and licence holders
- ▶ We are lacking a common grounds of understanding on issues related to other industries and environmental issues

The mission statement (lessons learned)

- ▶ Great differences between Greece and Norway
 - ▶ For Norway the power construed as (unfortunate) by-product of offshore wind
 - ▶ Greece has distributed power deficit – perfect
- ▶ There is still a lesson:
- ▶ The licencing system needs to help fulfil the objectives of the state
- ▶ A clear mission statement helps distinguish and prioritize between projects
- ▶ Competition on known parameters helps attract developers
- ▶ Clear mission statement(s) invites innovation

Thanks for listening!



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