

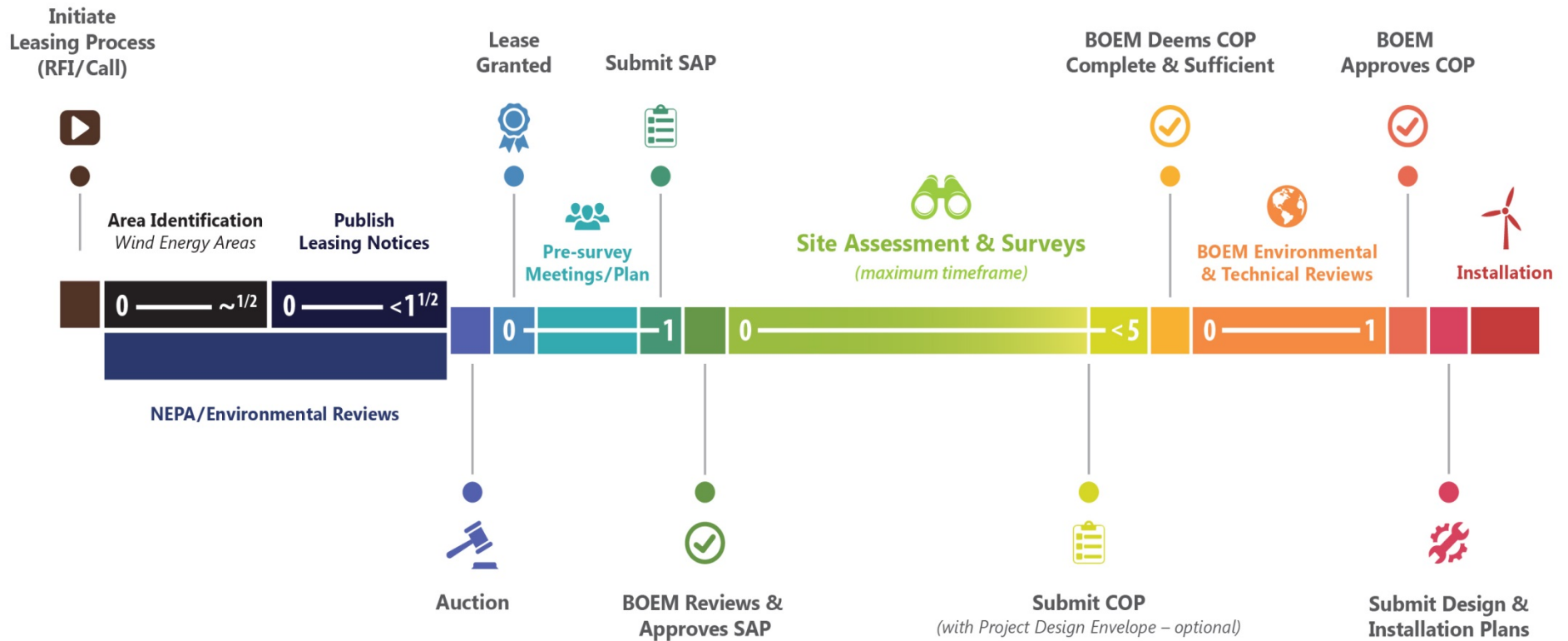
January 31, 2018

Draft Guidance on the Use of Project Design Envelopes

For Construction and Operations Plans

BOEM
BUREAU OF OCEAN ENERGY MANAGEMENT

Offshore Wind Development Process



Project Design Envelope (PDE)

- Standard approach for considering offshore wind facilities in Europe
- Reasonable range of project designs
- Flexibility for developers
- Allowance for advancements in technology between approval and construction
- Tool to present phased development

PDE Example Parameters

- **Turbine:** range of number and sizes (e.g., 8 – 9.5 MW)
- **Schedule:** construction in one or multiple phases (e.g., one 900 MW phase or two 450 MW increments)
- **Foundation:** multiple types (e.g., all monopile and/or combination of gravity-based); range of disturbed area; possible scour protection
- **Transmission:** potential locations of landfall and cable route
- **Vessels:** range of vessel types
- **Ports:** list of potential ports

Development of Guidance

- Result of long standing request by industry
- BOEM completed a one-year study (August 2017), which included input from lessees and European regulators
- Additional review of European policies, guidelines, and other documents and discussions with our regulatory counterparts (particularly United Kingdom and Denmark)
- Coordination with DOI's Office of the Solicitor and other federal agencies through the Offshore Wind Permitting Subgroup

www.boem.gov/Draft-Design-Envelope-Guidance/

Environmental Review of a PDE

- Examines maximum impacting parameters by environmental resource
- Avoids pausing or restarting environmental review due to project changes
- Reduces or eliminates the need for subsequent environmental reviews as project is refined/revised after approval
- If lessee's Facility Design Report and Fabrication and Installation Report deviate substantially, a revision to the lessee's COP and additional environmental review and consultations may be required.

Compliance with Regulations and Recent Orders

- PDE approach is not a new concept
- Council on Environmental Quality and BOEM regulations do not preclude (or require) the use of the PDE
- Environmental streamlining efforts (e.g., *Executive Order 13807* and *Secretarial Order 3355*)

Additional Considerations

- Requires developers coordinate early with BOEM and other agencies
- Adds complexity to environmental review and consultation process
- Needs to be:
 - Detailed (clear bounds)
 - Realistic rather than overly broad (cumulative impacts)
- Impacts timing of surveys
- Affects public/stakeholder perception

Next Steps

- Review draft guidance at: www.boem.gov/Draft-Design-Envelope-Guidance/
- Provide comments via email to Algene.Byrum@boem.gov by March 1, 2018
- BOEM will:
 - Address comments in final Design Envelope Guidance
 - Finalize guidance later this year
 - Update guidance as needed

Questions and Comments?

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