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Ava Response to 7122024 RFI Deep-Water HVDC SS for OSW in 23-ERDD-01

Ava appreciates the opportunity to provide responses to the CEC's RFI gathering information on critical challenges and research needs related to offshore transmission and grid integration of floating OSW resources.

Ava provides responses to select questions as listed below:

2. From the non-developer energy buying perspective, and related to supply chain elements of the resource's development, operations, and maintenance, critical consideration factors include (a) development timelines, (b) supply sourcing and delivery logistics, and (c) weather-related delay-duration risks. Research and development (R&D) would help energy buyers (whether or not these are also resource developers) gain experience and clarify expectations for commercial operation date (COD) feasibility and maintenance scheduling. R&D would also allow energy buyer and seller agreements to be informed by R&D as a baseline for developing key contract provisions. Of course R&D would adjust as more demonstration information surfaces.

3. Specific economic data critical to understanding the viability and success would be (a) cost metrics of catastrophic oceanic events and their potential range of impact, (b) recreational based vandalism to specific components, (c) longevity and replacement expectations of equipment and components, (d) wind speed thresholds for turbines, and (e) regulatory/legislative risks as it relates to changing maritime rules.

5. Other challenges that should be considered include the affect of sea level rise, wear on components exposed to dynamic and static forces from ocean wave action, cyclical oceanic water composition (e.g., variable ocean salinity and acidity), as well as how seasonal weather extremes may affect the operation and maintenance of necessary facilities.