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Initiative OSW3

I am lead of research and development at Principle Power, designer of the WindFloat platform. We are based in Emeryville, CA.

Our own technology roadmap does not include integrating wave energy systems with floating offshore platforms. The inclusion of wave energy systems is costly, complex and actually anathema to the design of floating offshore wind platforms. While we seek to minimize the effects of waves in the design of our platform, wave energy device designers seek to maximize this effect. Ultimately, the loads from the waves will be transferred to the floating platform.

Furthermore, if wave energy devices are co-located with floating wind turbines, this can also lead to greater complexity in terms of permitting and siting.

Our technology roadmap for the WindFloat investigates the inclusion of energy storage onboard a floating platform. We are looking into many different sources of energy storage that are mentioned in the document including: batteries, hydrogen production, compressed air energy storage and also other solutions such as compressed liquid storage.

We recommend that you modify OSW.3 to be "Integrate Energy Storage Systems with Floating Offshore Platforms" and link the initiatives that described in ESS.1, specifically around longer storage duration concepts. Floating offshore platforms are ideal places to locate energy storage technologies because there is substantial deck space and void spaces which can house technologies directly next to the sources of generation.