Energy Transition

Call for offshore wind and onshore solar farm Solutions

CONTEXT

Energy systems are changing at varying rates and degrees of complexity around the globe. This change is driven by growing energy demand and an urgent need to curb emissions. A growing population with rising living standards will need more energy. At the same time, the world must find ways to reduce greenhouse-gas emissions and improve air quality. One way to do this is by changing the mix of electricity generators.

Electrifying our energy system will require a mix of solutions, including renewable sources such as wind and solar, to help meet rising energy demands with fewer emissions.

WHAT WE ARE LOOKING FOR

We seek safe and cost-competitive technologies to further reduce the costs of renewable energy sources, increase the utilization of renewable assets, and ensure a stable grid offtake.

IN SCOPE

- Maintenance solutions for offshore wind and onshore solar farms that reduce the need for human intervention.
- Cost-effective local storage solutions for base load power from offshore wind and onshore solar farms to mitigate the intermittency of renewable power sources.
- Solutions for offshore wind farms at very low speeds (<2m/s) and onshore solar farms during low light intensity.
- Reliable daily weather forecasting solutions.

OUT OF SCOPE

- Concentrating solar power
- Manufacturing solutions for turbines and panels
- Li-ion and lead-acid battery concepts, flywheels
- Concepts integrating hydropower
- Blockchain solutions
- Specific smart apps

HOW TO SUBMIT YOUR PROPOSAL

- This Call for Solutions was part of a collaboration between Shell GameChanger, the Chamber of Commerce and the Global Entrepreneurship Summit (June 4 – 5, 2019).
- For questions contact GameChanger-Solutions@shell.com

WE APPLY THE FOLLOWING CRITERIA FOR CONSIDERATION:

1. Novel – Is the idea fundamentally different and unproven?
2. Valuable – Could the idea create substantial new value if it works?
3. Doable – Is there a plan to prove the concept quickly and affordably?
4. Relevant – Is the idea relevant to the future of energy?