

PG&E Humboldt WaveConnect™ Pilot Project Overview

Project Description

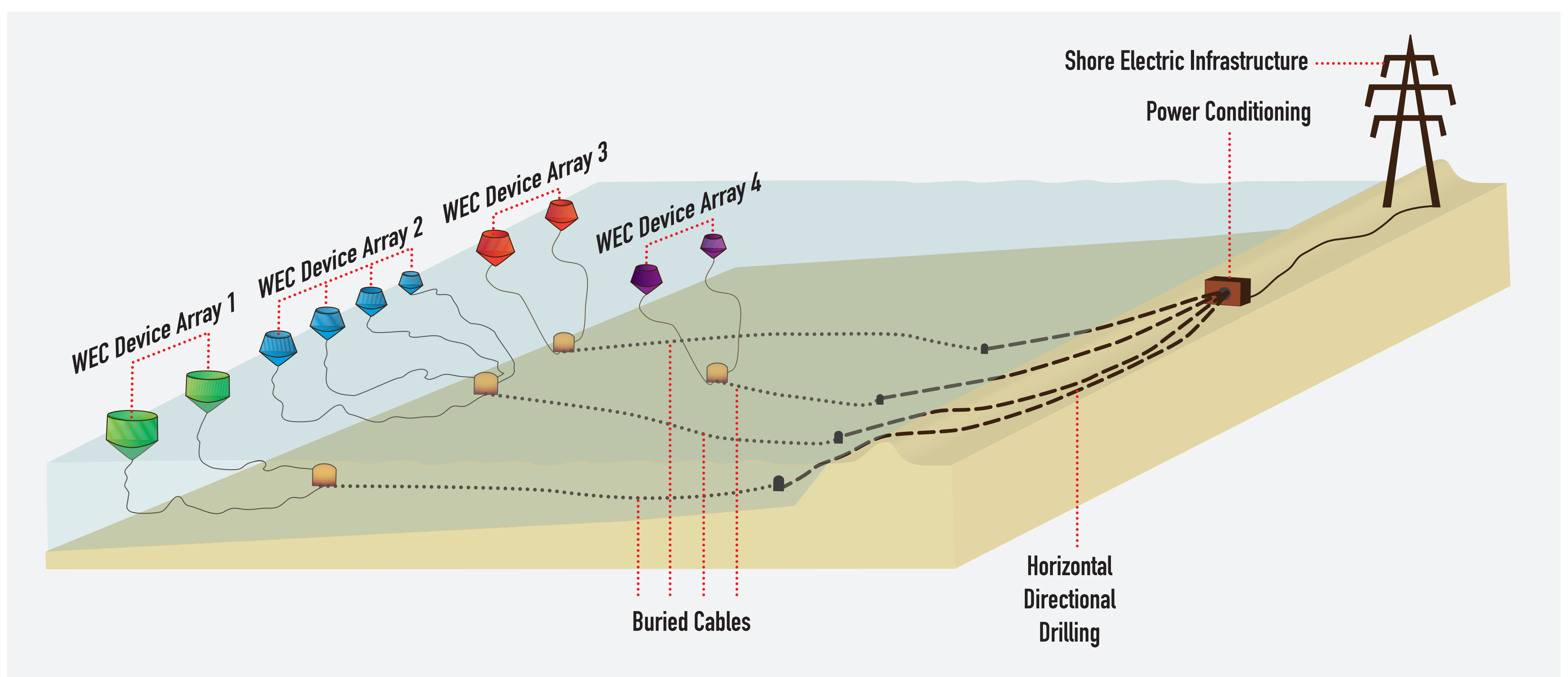
In March 2008, PG&E received a preliminary permit from the Federal Energy Regulatory Commission (FERC) to study the feasibility of siting a wave energy pilot project off the coast of Humboldt County. The preliminary permit allows PG&E to study the offshore environment to determine whether the location is appropriate for a small wave energy test facility. PG&E is currently conducting these initial studies and plans to file with FERC a draft pilot project license application in late February 2010, and a final application this fall. If granted, a FERC pilot project license would allow PG&E to develop a **five megawatt (5 MW), five-year demonstration wave energy project** that will be removed at the end of the five-year operation.

Project Benefits

Wave Energy has the potential to become a major contributor to California's renewable energy supply. Studying the potential of ocean wave energy in Humboldt County will provide the renewable energy industry with important insight on how best to harness the approximately 5,500 MW of potential **renewable, carbon-free wave energy** that exists off the California coastline.

Local Benefits

An integral part of this wave energy demonstration project is identifying the community benefits. PG&E is partnering with local environmental and engineering firms on various aspects of the project. Additionally, **PG&E is committed to working with a broad range of stakeholders in the Humboldt County area** to assure that local interests, including fishing community, are understood and addressed, to the extent possible. Central to this is the **Humboldt Working Group (HWG), a local, community-selected stakeholder group that provides regular input on the project** (*learn more about this group at the Public Involvement Station*).



Wave energy conversion (WEC) devices capture the ocean's energy. The energy is transmitted through an undersea cables to land, where the energy is conditioned and fed to the electric grid.

