



Earth Circle Solutions  
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## **Completed ECS Projects**

**Feasibility Study** – 1.8 MW Wind Farm at Maharishi University of Management, Fairfield, IA. ECS conducted a feasibility analysis for a wind farm for MUM. In addition to basic levels of analysis we considered multiple sites based upon superior wind regimes, and different horizontal and vertical axis turbine technologies.

**Feasibility Study** – 615 MW Offshore Windfarm in Gulf of Mexico. ECS worked with team members to analyze the potential for an offshore wind farm in the gulf region contaminated by the BP oil spill. Our team examined various offshore and deep water technologies based upon suitability to hurricane level winds.

**Feasibility Study** – 1 MW Solar Parking Lot Central Grid Project in Brockville, Ontario. ECS worked with team members to conduct feasibility analysis for a solar parking lot project for a mall in Ontario; examining dual and single axis tracker technologies, as well as a fixed mounting array scenario.

**Feasibility Study** – 20 kW Solar Array for Amy Ram Building in Fairfield, IA. ECS conducted analysis of a hybrid roof top/parking lot Solar PV project for a 3 story office building. We compared different systems sizes (20 kW and 60 kW), as well as different inverter options (micro inverters, string inverters, and central inverters).

**Feasibility Study** – 1 MW Grid Connected Solar PV Project for Rockwell Collins Headquarters. ECS conducted feasibility



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analysis of roof mounted Solar PV system for Rockwell Collins at their headquarters for fixed and dual axis tracker scenarios. We also investigated measures to reduce energy consumption and demand such as cool roofs, and auto demand response programs to reduce the base load and improve the project returns.