

## Clean Energy Center Meteorological Towers and Wind Turbine Projects – Nevada

Clean Energy Center and Telesto have been collaborating on various Meteorological Tower and Wind Turbine projects in the Northern Nevada areas. These projects consist of installing Met Towers to gather data; analyzing the data and formulating a Wind Turbine design and location that is most efficient for power generation. Once the site location is developed, Geotechnical recommendations are necessary for Met Tower Anchors and Turbine Foundation Designs. Coordination with local agencies, such as Washoe County, is necessary for permitting the installation of meteorological towers and Wind Turbines. Below are some of the tasks associated with these projects:

- Assess Wind Conditions, Calculate the most desirable conditions and elevation of Turbine
- Technology selection, Turbin specifications (selected a technology that is proven in the area)
- Assess site conditions for design of towers (Geotechnical Analysis and Report)
- Foundation Designs
- Structural Calculations
- Pull Test parameters and inspections for tower anchors
- Obtaining building permits for the towers
- Special Inspection for Foundations and Pull Tests

**Desert Research Institute (DRI)** – Clean Energy Center is currently installing a permanent 60m meteorological tower for continuous meteorological data collection and instrumentation maintenance training. Clean Energy Center intends to provide maintenance and data collection training sessions with this tower; however, DRI will manage their own data collection. Clean Energy Center has worked with the Desert Research Institute several times including work on four 50m NRG towers, an 80m radio tower retrofitted with anemometers, and an Atmospheric Systems SoDAR.

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