

# CORROSION IN RENEWABLE ENERGY

## OUR SOLUTIONS

EN Consulting's Corrosion Engineering group is the leading provider of corrosion engineering services in the renewable energy market. Our engineers have more experience with corrosion control in the solar and wind industries than any other corrosion company in the nation. We provide corrosion surveys, third-party design life reviews, material selection processes, coatings evaluations and recommendations, and custom mitigation solutions for leading solar manufacturers and wind producers all over the world.

Our experienced engineers ensure that clients' design life criteria are met prior to construction and deployment of assets by evaluating current



material specifications and the environmental conditions in which the assets will be deployed. We perform third-party reviews, taking all the data into consideration to determine the expected life cycle of the assets. In addition, our engineering professionals design custom, state-of-the-art corrosion control methods for solar and wind equipment deployments.

## CHALLENGES

- Atmospheric corrosion of above ground structures
  - » Panels
  - » Post & beams
- Premature failures of underground components
  - » Buried posts
- Product warranties

## EN CONSULTING SERVICES

- Atmospheric corrosion risk analyses
- Cathodic Protection (CP) designs/specifications
- Cathodic Protection (CP) evaluations/troubleshooting
- Coating analyses/specifications
- Custom corrosion mitigation solutions
- Corrosion rate measurement studies
- Failure analyses
- Soil/water corrosivity testing
- Corrosivity surveys and analyses
- Corrosion rate testing
- Life expectancy estimates
- Design reviews for material compatibility and corrosion resistance capability
- Corrosion protection recommendations and designs

