

CUSTOMER PROFILE:

- Private company
- International service provider to energy authorities and municipalities

CUSTOMER CHALLENGES:

- Finding quality tower products at a good price
- Subsurface engineering concerns including the potential of old foundations and a high water table
- Equipment needed to be adaptable to site conditions
- Short installation period
- Logistics of installation in remote location

RESULTS:

ARE designed, manufactured and delivered a foundation/tower system that met all challenging project criteria and was installed as planned, on schedule and with ease.



CASE STUDY – AFS 1500 INSTALLATION

OVERVIEW

ARE was employed to provide design consulting, manufacturing, logistics and installation of four patent-pending Assembled Foundation Systems (AFS) with monopoles for a wind power project in coastal French Guiana, South America.

SOLUTION

The ARE design team created an AFS 1500 ballasted foundation that would support a 100 foot wind tower with a 20kW Hummer wind turbine. Due to the unknown soil conditions of the site, the foundation and monopole solution was designed to:

- Utilize flexible, repositionable and re-usable equipment
- Accommodate below grade installation requiring no concrete or cure time
- Leverage local soil fill for ballast
- Exceed the wind requirements for tower and turbine stability

Additionally, the solution was installed and ready for a turbine in one day. Due to limitations of equipment and local labor ARE provided logistics and on-site technical installation support including training a small labor force for future installations.

