DISTRIBUTED RENEWABLE ENERGY
FOR COMMUNICATION TOWERS
DELIVERING COST-EFFECTIVE RENEWABLE ENERGY SOLUTIONS TO A GROWING COMMUNICATION TOWERS INDUSTRY

For the owners and tenants of remote communication towers, reliable, cost-effective, and clean energy solutions are essential to supporting critical network requirements and growing organizational goals to combat climate change. Around the world, wireless providers, government agencies, utilities, tower infrastructure owners, and third parties are approaching XZERES for wind energy solutions to reduce diesel genset usage and/or address unstable or costly grid scenarios.

In many cases, wind turbines are combined with solar PV systems, creating hybrid renewable energy solutions. Our proven wind turbine technology can integrate directly into or beside communication towers, powering critical telecom and broadcast equipment (antennas, transceivers/radios, lighting, etc.), without vibration or interference.

In most cases, typically off-grid or tied to poor-grids, XZERES turbines lower site operating expense (OPEX). In on-grid situations, XZERES turbines can also help tower owners to more easily secure land or zone new towers, thereby retaining or attracting new tenants.

- RELIABLE ENERGY SOLUTIONS THAT SUPPORT 24/7 COMMUNICATION REQUIREMENTS
- COMPLEMENTARY WITH SOLAR PV, DIESEL/GAS GENERATORS, AND/OR THE GRID FOR BALANCED POWER SUPPLY
- PROVEN TECHNOLOGY THAT REDUCES FUEL AND LIFE-CYCLE COST ASSOCIATED WITH STAND ALONE DIESEL/GAS GENERATORS
- COMPACT DISTRIBUTED DESIGN ALLOWS FOR MOUNTING ON COMMUNICATION TOWERS OR WITHIN LIMITED LAND AREAS
- FINANCIAL AND CONFIGURATION MODELING TO PREDICT ROI FOR SYSTEM OWNERS
- CLEAN AND RENEWABLE POWER THAT REDUCES CARBON FOOTPRINT OF COMMUNICATION SITES

ON-GRID SITES
Lower tower OPEX by reducing dependence on high-cost utility power, or as a backup battery charging system in areas with unstable electric grids.

OFF-GRID SITES
Minimize costly and polluting diesel consumption while complementing solar PV and other clean energy systems.
WIND AND SOLAR ARE COMPLEMENTARY TECHNOLOGIES

XZERES possesses the capability to quickly qualify remote sites for renewable energy integration, and design the most appropriate configuration of wind, PV, storage, grid, and/or back-up generation. Analysis and system design are driven by specific customer site information, in conjunction with renewable resource data and best-in-class modeling. The result is a proposed energy solution and ROI estimate with which to base a go-forward decision.

WIND-SOLAR-DIESEL TELECOM SYSTEM