

TCO CASE STUDY

Wind Farm

Up-Tower Generator Repair Saves this Wind Farm Thousands in Repair Costs.

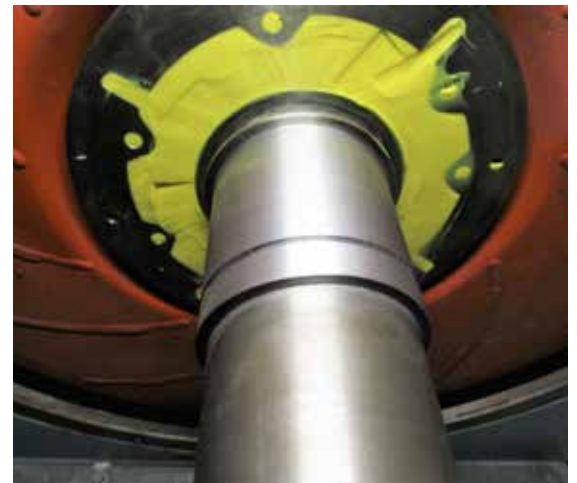
THE CHALLENGE

A wind farm was experiencing frequent bearing failure on generators located on their wind turbines, the failures resulted in journal damage which often led to exchanging the generator unit out. Due to the limited amount of unique spare generators, it was difficult to keep the wind turbines up and running.

THE SOLUTION

IPS was able to machine and sleeve the generator shaft up-tower, eliminating the need for cranes and extended downtime for in-shop repair. This resulted in significantly lower repairs costs and lower lost revenue due to shorter down times.

IPS field service teams are equipped with extensive, portable electrical testing equipment, and can perform component level testing and repair on your generator, similar to what we do in-shop, saving you lots of money on crane costs and turbine downtime. We can handle heavyweight couplings, end bells, and slip rings, and do precision machining inside the nacelle. We know and service every brand and size of wind turbine, delivering one standard for safety, quality, and repairs across North America.



RESULTS

An in-shop repair would have cost the customer an estimated \$86,500; this includes crane costs, transport, and in-shop repair. The IPS solution cost \$33,500. Saving the customer \$53,000 per turbine

TOTAL SAVINGS
PER TURBINE
\$53,000