



## AVIATOR WIND

### Robert Lee, TX

Fagen, Inc. was the BOP contractor for the Aviator Wind Farm project in Coke County, Texas, near the town of Robert Lee. This 525 MW wind powered electricity generation facility is currently the largest single-phase, single-site wind farm ever built in America. It consists of one hundred thirty-six (136) model GE-116, 2.72 MW Wind Turbine Generators (WTGs), all at 90 meter hub heights, and fifty-five (55) model GE-127, 2.82 MW WTGs, all at 89 meter hub heights. This project sits on 51,977 acres and spans approximately 18 miles from east to west and nine miles from north to south.

Fagen was responsible for the complete engineering, procurement and construction of the balance of plant, including all associated equipment, systems, and structures. This included turbine erection, turbine foundations, access roads, crane pads, drainage, two collection substations, transmission line, electrical collection systems, grounding systems and fiber-optic.

**Notice to Proceed** - August 2019

**Substantial Completion** - July 2020



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# Scope Of Work

## Full BOP EPC Scope Included:

- Clear, grub and rock 407,427 linear feet of roads
- Clear, grub and rock 21 acres of laydown yard for offices, batch plant and storage
- Blast 160 out of 191 turbine areas for excavation and foundation placement
- Excavate and backfill 191 foundations
- Grout void inject 12 turbine foundations
- Pour 78,268 cubic yards of foundation concrete
- Offload and install (136) model GE-116, 2.72 MW wind turbine generators, at 90-meter hub heights
- Offload and install (55) model GE-127, 2.82 MW wind turbine generators, at 89-meter hub heights
- Tower wire all 191 wind turbines
- Supply, install and terminate 108 miles of underground collection cable
- Supply, install and terminate 13.6 miles of transmission line
- Supply, install and terminate all equipment and materials for two substations



## A Challenging Time

One of the major challenges of the project was the COVID-19 pandemic, which came to our nation's attention full force in March, just as our Aviator project was at peak manpower for tower erection and mechanical completions. Fagen implemented unique protocols to keep our employees safe and finish the project on time.

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