

COMANCHE SOLAR PROJECT 34.5/230KV SUBSTATION AND INTERCONNECTION



PROJECT TYPE

Substation

SCOPE

Construction of 34.5/230kV substation, 2.5mi of 34.5kV interconnection, and an underground 230kV transmission line

LOCATION

Pueblo, CO

CLIENT

CG Power Solutions USA

START DATE

December 2015

COMPLETION DATE

May 2016

Irby Construction was contracted by CG Power Solutions USA under an EPC agreement to build the Comanche Solar Project substation and a 2.5 mile 34.5kV interconnection between the east and west solar panel fields of the 120MW generating facility. The scope also incorporated the installation of a 230kV underground transmission line from the substation to Xcel Energy's generation plant, Comanche Generation Station.

Irby crews mobilized for construction of the greenfield substation in December of 2015, completing the project just six months later. Irby captured construction of the substation via a live stream camera mounted on our construction trailer. CG Power project management teams had 24-hour access to the site and was able to monitor progress from remote locations.

As one of the largest solar farms in the nation, the Comanche Solar farm generates enough power to energize over 31,000 homes east of the Rocky Mountains. Within its 25 year life, Comanche Solar is estimated to produce more than 6 billion kilowatt hours of clean solar energy and is expected to reduce CO2 emissions by approximately 3.5 million tons. This is the equivalent of taking more than 54,000 passenger vehicles off the road. Irby is proud to be a part of this project.

