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Cohuna, VIC

Tempo Engineering - Cohuna Solar Power Plant

Overview

In December 2018, Tempo Engineering engaged McDowall Affleck to undertake the detailed design of the civil works for the 80 hectares site located on Leitchville Kerang Road, approximately 8km south of Cohuna, Victoria 3568, which had been identified for the development of a 34 MW solar farm by Enel Green Power. When fully operational, Cohuna Solar Farm will boast approximately 87,000 bi-faced panels that harness sunlight on both sides to achieve improved efficiency in energy generation. With 34 MW of installed capacity, the plant will be able to generate 77 GW/h per year and decrease CO2 emissions by approximately 70,200 tonnes over 12 months.

Type of Engineering Work

Civil Engineering - Hydrological/Hydraulics Study

Work Timeframe

December 2018 - May 2019

Contract Value

Commercial in Confidence

McDowall Affleck Contact

Alberto Puccini

Scope of Work

Civil works design including:

- Hydrology/Hydraulics study
- PV panel layout optimisation
- Drainage design
- Road and inverter pad design

Project Challenges

- Extremely tight time and budget constraints
- Demanding Development Approval conditions
- Global EGP specifications do not match Australian Standard practice

How we managed this

McDowall Affleck and its Italian partner Studio Techné assisted Tempo Engineering in clearing Development Approval conditions and liaised with Enel Green Power to obtain relaxation of their global specifications to better reflect Australian Standard practice.

Value Engineering

McDowall Affleck and Studio Techné worked with Tempo Engineering and Enel Green Power to deviate from Enel Green Power global specifications to optimise the design without compromising the performance requirements. Such approach was possible due to the trusted long term relationship with Enel Green Power and allowed Tempo Engineering to meet their budget expectations.

