



# 80 MW Tamworth Solar Power Plant Hydrological/Hydraulics Study

McDowall Affleck

CONSULTING ENGINEERS | PROJECT MANAGERS

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Enel Green Power

## Overview

In November 2019, Enel Green Power engaged McDowall Affleck to undertake a Hydrological/Hydraulics Study of the 220 hectares site located on Soldiers Settlement Road, Tamworth, NSW 2340, which had been identified for the development of a 80 MW solar farm. The Hydrological/Hydraulics Study is required to identify the flood risk areas within the site. McDowall Affleck's alliance partner, Studio Techné, conducted an independent verification to validate the results of the study.

## Type of Engineering Work

Civil Engineering - Hydrological/Hydraulics Study

## Work Timeframe

November 2019 - January 2020

## Contract Value

Commercial in Confidence

## McDowall Affleck Contact

Alberto Puccini

## Scope of Work

To analyse the Solar Power Plant area in its pre-development condition, to determine the future plant layout including site characterisation and catchment area evaluation. Processing of the rain data and IDF and DDF curves, producing critical hyetographs for the 1 in 100 ARI storm event and maximum flow rates captured within the site.

## Project Challenges

Extremely tight time constraints, findings needed to be verified independently whilst meeting the client's expectations for delivery.

## How we managed this

McDowall Affleck liaised with Studio Techné throughout the entire project, allowing verification of the studies results as they were calculated. This allowed the projects delivery date to be met whilst providing an accurate Hydrological/Hydraulics Study.

## Value Engineering

McDowall Affleck worked with Enel Green Power and Studio Techné to produce a Hydrological/Hydraulics Study that was independently verified within the limited timeframe allowing Enel Green Power to confirm the viability of the project and include the results of the analysis in the tender package for the bidders.

