



CIVIL | WATER | ENVIRONMENT

RENEWABLE ENERGY CAPABILITY STATEMENT

With you all the way.

COMPANY OVERVIEW

WMS Engineering is a specialist engineering consultancy firm providing high quality solutions to hydraulic design, water resources, stormwater and floodplain risk management problems. We are flexible, reliable and passionate about what we do. Our mission is to be the consultant of choice for the engineering solutions we offer and to continue building our portfolio of successful projects and satisfied clients

TECHNICAL SERVICES

We offer the following floodplain risk management services to assist in gaining approval for wind, solar and pumped hydro development projects:
Due diligence assessments to identify flood constraints early on;
Flood assessments to confirm planning levels and mitigate impacts;
Documentation for approvals;
Plain-English summaries for stakeholders.

RECENT PROJECTS

WMS has recently completed (or is currently completing) flood assessments and approvals for the below projects:

- Yarranlea Solar Farm (103 MW)
- Whittingham Solar Farm (90 MW)
- Witmack Road Solar Farm (150 MW)
- Dulacca Solar Farm (100 MW)
- Chinchilla Solar Farm (100 MW)
- Kingaroy Solar/Wind Farm (64 MW)
- Avonlie Solar Farm (200 MW)
- MacIntyre Wind Farm (1000 MW)

WHY CHOOSE WMS?

- We are design and approvals focused – we ensure all assessments are fit for purpose and not overcomplicated;
- We understand the stop-start nature of renewables projects, and we're with you every step of the way;
- We understand that these projects are often on-sold and that our IP needs to go with the sale;
- We strive to build partnerships with companies developing renewables projects, streamlining delivery of services.
- With offices in Brisbane, Sydney, Melbourne and Toowoomba, we are familiar with planning requirements and approvals processes across the eastern seaboard.



CONTACT US

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YARRENLEA SOLAR FARM DEVELOPMENT

Development of a solar farm was proposed at Yarranlea on the Darling Downs in Queensland. Due to concerns of the potential impact of the development on the behaviour of two identified overland flow paths in the region, a flood impact assessment was required.

GAYNDAH WIND ENERGY FLOOD ASSESSMENT

Mainstream Renewable Power Australia (Mainstream) have proposed the development of the onshore 500MW+ Gayndah Wind Energy Facility. WMS was commissioned to conduct a comprehensive flood risk assessment, crucial for informing the wind farm design and road layout. The flood assessment played a pivotal role in the placement of critical infrastructure, including turbines and substations. WMS worked along Mainstream to develop the road layout and optimised the scale of power to be generated on the site. A notable achievement involved the implementation of advanced data extraction methodologies. This innovative approach seamlessly captured peak flows from reporting locations within the hydraulic model, eliminating the need for manual extraction. WMS worked along Mainstream to develop the road layout and optimised the scale of power to be generated on the site. A notable achievement involved the implementation of advanced data extraction methodologies.

CAPTAINS MOUNTAIN WIND FARM FLOOD ASSESSMENT

iCubed, on behalf of Captains Mountain Wind Farm Pty Ltd, is developing a wind farm project near Millmerran in the Toowoomba Region of Queensland. The wind farm is anticipated to generate approximately 380 MW. WMS was engaged to undertake an existing conditions flood assessment for the site with, with the objective of identifying modelled peak flow estimates at potential culvert locations. The windfarm and associated infrastructure extended across numerous catchments, with public road upgrades required to allow for the transportation of turbine blades and construction equipment.

“The team at WMS are a pleasure to work- reliable, transparent, professional, and willing to go the extra mile to get the most value out of your project goals. Their high quality and detailed flood modelling assessments have allowed us to mitigate flood risk on our projects, proving time and time again they are a highly valued partner to have in your court during the design and engineering process.”

Dannie O'Brien, Design Manager at iCubed

