

Electrical services

**NSW Public Works acknowledges
that it stands on Country which always
was and always will be Aboriginal land.**

We acknowledge the Traditional Custodians of the land and waters, and we show our respect for Elders past, present and emerging. We are committed to providing places in which Aboriginal people are included socially, culturally, and economically through thoughtful and collaborative approaches to our work.

Artwork: 'On Country', Charmaine Mumbulla, 2022



Electrical services

NSW Public Works' (PW) specialist electrical services team provides a range of technical and advisory services to streamline the design, approval and implementation of the electrical aspects of infrastructure projects.

We are uniquely placed to facilitate engagement between design consultants and supply authorities, ensuring that, where network upgrades are required, design solutions are optimised and costs are reduced. The experience gained on hundreds of sites requiring electrical network upgrades has allowed us to advise on setting up a design process which is estimated to have saved Schools Infrastructure NSW in the order of \$26M by reviewing and challenging power requirements for schools in NSW.

From low voltage solar photovoltaic projects, to high voltage network upgrades, PW has the experience and expertise to assist with the electrical requirements throughout NSW.

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Our expertise

PW has the **breadth** of experience and **state-wide presence** to assist with all your **infrastructure project** electrical servicing requirements.

- Design process management
- Electrical maximum demand reviews
- Electrical drawing and design reviews
- Preliminary options analysis for sites requiring ASP1/3 works
- Stakeholder and Supply Authority engagement
- Energy efficiency advice
- Procurement
- Supply Authority design information reviews
- Validation of Supply Authority directions
- Project and contract management
- Easement advice
- Advice on ASP1, 2 and 3 works
- Solar reviews
- Zone substation planning advice
- Special Activation Precincts planning advice





Baradine Central School

Client: NSW Department of Education	Location: Baradine	Services provided: Technical leadership, project management & contract management
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The original requirements for the network upgrade included replacement of approximately 14km of high voltage lines. Following considerable liaison with the Supply Authority, network requirements were revised with a significantly reduced scope.

This resulted in cost savings in the order of \$6 million and significant reduction in delivery time.



Coffs Harbour High School

Client: NSW Department of Education	Location: Coffs Harbour	Services provided: Technical leadership, project management & contract management
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The original Supply Authority requirements for the network upgrade included a new pad mounted kiosk substation. PW's electrical specialists proposed an alternative solution and negotiated with the Supply Authority for a revision and scope reduction.

This resulted in an estimated cost saving of \$1 million and a significant reduction in delivery time.



School Infrastructure NSW Cooler Classrooms

Canobolas Rural Technology High School

Client: NSW Department of Education	Location: Orange	Services provided: Electrical advisory and network infrastructure scope review
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The Supply Authority had issued a directive in the design information package (DIP) requiring a return to site to examine approximately 600m of overhead cabling approximately 1.5 kilometres away from the school and the replacement of cabling is deemed necessary. PW challenged this directive on the basis that the works should be treated as shared network and upgraded by the Supply Authority if required.

The Supply Authority agreed and re-issued a new DIP at no extra cost.



Air Quality Compound Rouse Hill

Client: Office of Environment and Heritage	Location: Rouse Hill	Services provided: Electrical advisory and stakeholder negotiation services
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PW successfully negotiated dual supplies to site for the Office of Environment and Heritage. Had dispensation not been received the compound would not have been able to be installed at the Rouse Hill site. This would have necessitated the investigation of alternative sites, which would have significantly delayed the projects.



Belmont Mass Vaccination Hub

Client: Health NSW	Location: Belmont	Services provided: Electrical and energy efficiency advisory
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Health NSW engaged PW to advise on a new vaccination hub located at Belmont.

PW provided specialist technical advice on how to reduce power consumption and improve efficiency to gain the best value for money on the hub's internal constructions, thus avoiding the need for a high cost electrical network upgrade.



NSW Rural Fire Service Fire Control Centre Tamworth

Client: NSW Rural Fire Service (RFS)	Location: Tamworth	Services provided: Electrical assessment and advisory
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A detailed electrical assessment by PW of the construction issued electrical documents identified a number of issues. These included an under rated fuse supplying the new centre, and the lack of confirmation of the consumer main pathway with the site designer.

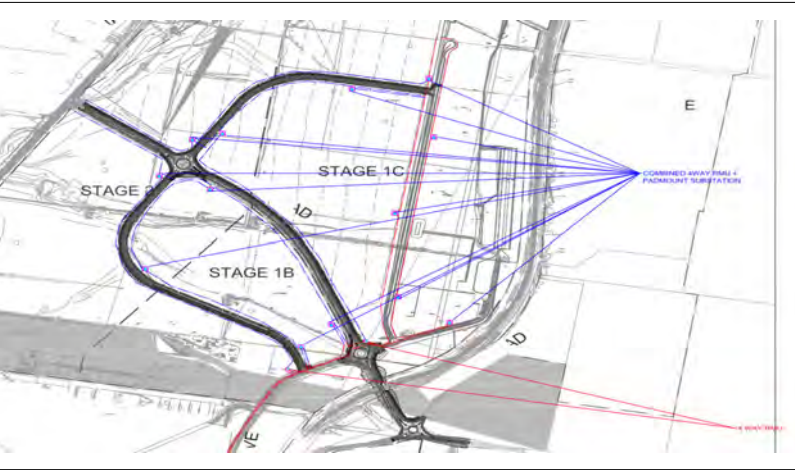
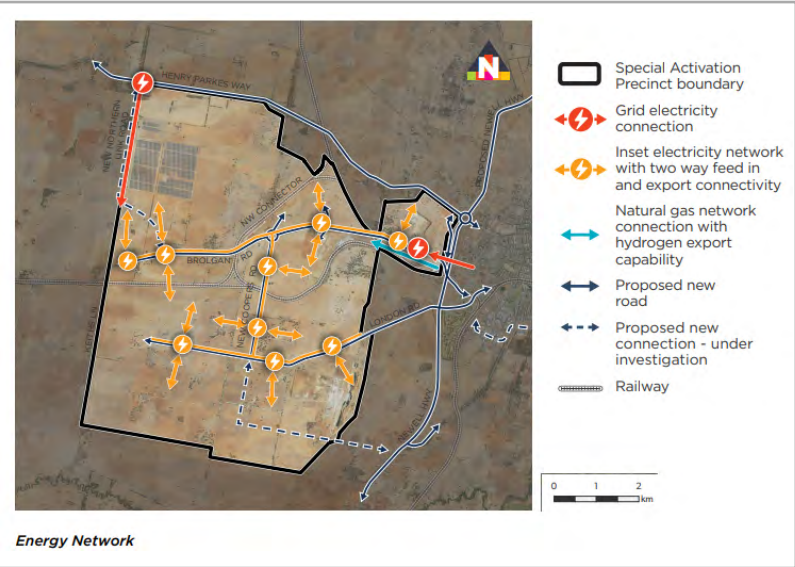
PW led the engagement with the designers and Supply Authority, which led to a design resubmission and rectification at no additional cost to RFS.



Special Activation Precincts

PW is uniquely placed to help with the following aspects of Special Activation Precincts (SAP)

- Early planning advice
- Working with clients to determine load predictions for large precincts for loads greater than SMVA
- Proposing method of supplies to Supply Authorities to obtain value for money solutions
- Location and suitability of zone substations and pad mounted kiosk substations
- Supply Authority design information reviews
- Verification of Supply Authority assessments
- Upstream restrictions/supply constraints from TransGrid
- Verification of contestable works/non-contestable works

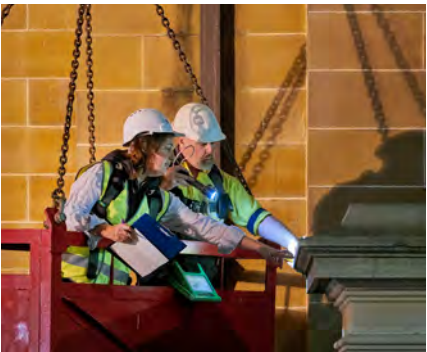


Why choose NSW Public Works?

With more than 400 dedicated staff across our network of 17 regional offices, we are able to quickly and efficiently take on new projects or programs, tailoring the approach to achieve optimal outcomes for the client.

➤ Accredited for planning and delivery of capital works

PW is accredited under the NSW Government Agency Accreditation Scheme for Construction to manage the planning and delivery phases of construction and capital works procurement. NSW State and Local Government entities can directly engage the services of PW under the provision of NSW Government Procurement Board Direction PBD 2021-04 and Section 55 of the Local Government Act 1993, providing efficiencies and cost savings.



➤ Strong focus on quality, environmental and safety management

PW operates under triple certification for quality, work health and safety (WHS) and environmental (QSE) management systems. These systems and processes provide the foundation for delivering quality projects and a continuous improvement culture, that embraces QSE leadership at all levels and integrates QSE into all activities. PW's Project Management Framework is the backbone of our quality system and is used to manage our projects and ensure we deliver to agreed requirements.



➤ State-wide resources

Regional clients benefit from our state-wide network of offices enabling them to source expert project management personnel familiar with the conditions and construction industry issues in their area. This proximity reduces servicing costs, facilitates improved stakeholder communications and enables us to respond quickly to your needs, providing a single point of contact for all services.



➤ Government relationships and knowledge

Successful delivery of complex infrastructure projects relies on effective interaction with stakeholders and regulatory government agencies. PW's unique position within NSW Government enables us to bridge the gap between our clients and Government stakeholders to ensure necessary consultations and approvals are undertaken efficiently and effectively.



➤ Managed risks

We place considerable emphasis on advising clients of their risks on projects, including the options and costs to manage these risks. Wherever possible, risks are identified early and inform our planning and procurement strategy development processes. Risks are continuously monitored and updated as projects progress and discussed and managed with clients and contractors.

Working across NSW



Hunter North West Region

- Newcastle**
117 Bull Street
Newcastle West NSW 2302
- Tamworth**
155-157 Marius Street
Tamworth NSW 2340
- Armidale**
85 Faulkner Street
Armidale NSW 2350
- Dubbo**
209 Cobra Street
Dubbo NSW 2830
- Broken Hill**
Level 1, 32 Sulphide Street
Broken Hill NSW 2880

Greater Sydney & Central West Region

- Parramatta**
6 Parramatta Square
10 Darcy Street
Parramatta NSW 2150
- Sydney CBD**
52 Martin Place
Sydney NSW 2000
- Bathurst**
Level 1, 346
Panorama Avenue
Bathurst NSW 2795

South Coast Riverina Region

- Wollongong**
Level 3, Block E
84 Crown Street
Wollongong NSW 2500
- Moruya**
66 Campbell Street
Moruya NSW 2537
- Queanbeyan**
257 Crawford Street
Queanbeyan NSW 2620
- Wagga Wagga**
4 Coleman Street
Wagga Wagga NSW 2650
- Griffith**
200 Murray Road
Hanwood NSW 2680
- Dareton**
1998 Silver City Highway
Dareton NSW 2717

North Coast Region

- Lismore**
120 Dalley Street
Lismore NSW 2480
- Coffs Harbour**
359 Harbour Drive
Coffs Harbour NSW 2450
- Port Macquarie**
Level 2, 41-47 Horton Street
Port Macquarie NSW 2444

NSW Public Works

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