

INDUSTRY LEADING EXPERTS

AUSTRALIA'S LEADING PROVIDER OF DEWATERING,
PUMP RENTAL AND ENVIRONMENTAL SERVICES.



PUMPS | POWER | WATER TREATMENT | WATER MANAGEMENT





MEET THE MELBOURNE TEAM

Our Melbourne branch stands out as a leading expert in Bypass Municipal Water management, demonstrating a strong collaborative relationship with various municipal authorities. We understand the critical nature of maintaining water flow while ensuring compliance with regulatory standards.

Our skilled team works closely with local governments and agencies to develop innovative bypass solutions that are efficient, compliant, and tailored to the specific needs of each project. By leveraging our extensive experience and understanding of municipal water systems, we ensure seamless operations and uninterrupted service for our clients, even in challenging situations. This commitment to excellence solidifies our reputation as the go-to partner for bypass water management in the region.

Our Melbourne branch is also the expert in dewatering, pump and generator services. We offer comprehensive, tailored solutions that are customised to fit the specific conditions of your site and environment, ensuring a smooth progression for your project. Our extensive range of solutions consists of:

- Water Management Systems
- Pump Rental & Sales
- Evaporation Systems
- Site Support Services
- Disaster Recovery Management
- Dewatering
- Pipeline & Construction
- Hydromining
- System Audits



Michael Cashion

With a mechanical background and over 7 years of hands-on industry experience, I bring a practical, solution-focused approach to every project. I'm passionate about building strong, positive relationships with our customers, believing that genuine connections are key to truly understanding their needs.

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MEET THE MELBOURNE TEAM



Toni Fernandez

Sales Specialist

I have been working within NPE for almost 2 years now, however have spent my career working in customer focused roles, which have taught me the value of honesty, clear communication, and problem-solving. I am committed to building strong relationships with clients and our passionate team at NPE, and dedicated to continue expanding my knowledge and skills within the industry to ensure we deliver the best results for our clients.

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Philip Ryan

Sales Specialist

I have 25 years' experience in the equipment sales and rental industry and this combined with the wealth of experience and the vast array of equipment within the NPE organisation I aim to offer solutions to customers that exceeds their expectations.

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Aaron Richardson

Sales Specialist

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OUR CAPABILITIES

Industry Leading Knowledge & Experience

NPE's extensive experience and resources ensure we meet environmental legislation while delivering exceptional outcomes, establishing us as a top solution provider in the industry.

End-to-End Project Management

Our expert team manages every aspect of your project—from planning to operational delivery, compliance, and results—ensuring complete and successful execution.

Turn-Key Water Management Solutions

We provide tailored, compliant solutions for various applications, including:

- Water Management Systems
- Pump Hire & Sales
- Evaporation Systems
- Disaster Recovery Management
- Dewatering
- Flood Management
- Water Treatment

Australia Wide Capability

Our services are accessible to projects nationwide, with experience in both regional and remote areas.

Safety & Quality Systems

NPE adheres to the highest standards of Quality, Health, Safety, and Environmental Management for our projects and operations.



Monbulk

24/7 Emergency Response

We offer around-the-clock technical support, maintenance, and emergency response, ensuring rapid mobilization and effective solutions.

On-site Project Facilities

NPE provides on-site staff and facilities as needed to enhance project efficiency and timeliness.

Environmental Compliance & Leadership

We handle environmental applications and management plans, ensuring that all activities comply with legislative requirements and best practices.

Successful Track Record

With a proven history of delivering sustainable water management solutions across various industries, NPE's impact is visible nationwide.

Industry Innovation

We lead the industry in environmental management and project efficiency through ongoing research and dynamic partnerships with global leaders.

OUR CERTIFICATIONS

NPE'S COMMITMENT TO QUALITY, HEALTH AND SAFETY AND ENVIRONMENTAL MANAGEMENT HAS BEEN TESTED AND PROVEN.



Our Integrated Management System has been certified to ISO 9001, ISO 14001, and ISO 45001.

These certifications formally acknowledge the policies, practices and procedures put in place by NPE to ensure consistent standards of excellence in the provision of products and services to our Clients.

Quality

Service, Equipment, Systems and People are the core of NPE's management. We have a tested-and proven track record operating in the general construction, civil engineering, government and mining industries.

All direct employees and subcontractors engaged on a NPE project are fully engaged in our quality systems and are made aware of their responsibilities through company and project inductions, toolbox meetings, Safe Work Method Statements (SWMS's) and Job Safety Assessments (JSA's).



Geelong



Spotswood



Port Melbourne



OUR SERVICES

Cardinia

At NPE, we offer high-quality pump equipment for bypass works, including silenced diesel units and electric submersible pumps, ensuring effective performance.

As a leader in the water and wastewater industry, we specialise in bypass systems that maintain sewer operations during repairs. We collaborate with clients for detailed project reviews, including flow gauging and risk analysis.

Water Treatment and Environmental Management

Our services include site surveys, sampling, monitoring, remediation, training and environmental management. NPE can provide assistance in project design and management, including risk management and the auditing, monitoring and assessment of environmental assets.

Our total water management processes are continuously improving as we develop new industry-leading water table management methodologies and technology.

Our national team is experienced in guiding project managers through the complex array of compliance requirements to meet specific project outcomes and comply with all relevant legislation. NPE Environmental services are bolstered by a series of strategic alliances with leaders in the environmental field.

Key Services

- Groundwater Remediation
- PFAS Treatment
- Hydrocarbon Removal
- Metals Removal
- Chemical & pH Dosing
- Sludge Processing
- Effluent Management
- Monitoring and Reporting
- Research & Development
- Hydrology Investigations
- Dewatering Management
- Surface Water Management
- Nutrient and Irrigation Management Plans
- Acid Sulphate Soils Investigation
- Due Diligence Investigations
- HAZMAT Investigations
- Contaminated Sites Remediation
- Environmental Land
- Vegetation Assessment and Clearing
- Composting and Soil Amendment

OUR SERVICES

Geelong

Dewatering

NPE provides comprehensive dewatering services for the civil, construction, and mining industries across Australia. We offer turn-key solutions for projects of all sizes, managing your site's water needs with expertise.

Our end-to-end project management includes tailored dewatering management plans, obtaining licenses, risk management, and the installation and operation of various dewatering systems. We ensure compliance with environmental laws through detailed reporting for local, state, and federal governments.

Having designed, drilled, and installed numerous dewatering systems, we specialize in:

- Wellpoint dewatering
- Sump dewatering
- Deep well dewatering
- Open pit dewatering
- Horizontal dewatering

Bypass

At NPE, we provide top-quality pump equipment for bypass works, including silenced diesel-driven units and electric submersible pumps. Our expertise ensures effective performance every time.

As a leading provider in the water and wastewater industry, NPE specializes in bypass systems that maintain sewer service operations during repairs. We conduct detailed project reviews and collaborate closely with clients to address all aspects, including flow gauging and risk analysis.

We prepare pump system duty reviews and flow management plans that meet Shire or Council requirements. Our sewer bypass systems feature online telemetry and SMS alerts to a 24/7 monitoring team, ensuring immediate response and resolution of unexpected issues.

Flood & Disaster Management

At NPE, we provide fast and reliable solutions for disaster management. With our experienced team and extensive equipment fleet, we ensure efficient and effective responses to emergencies. We eliminate the need for you to purchase and maintain expensive equipment that may sit idle. Our wide range of high flow pumping equipment and generators, supported by our technical expertise, guarantees optimal solutions for your situation. Trust NPE to be your flood and disaster management experts.



OUR SERVICES

Generator Hire & Power Solution Packages

NPE operates from 13 locations across Australia, servicing the wider Pacific region. NPE's strengths are focused on the following:

- Custom built equipment designed to withstand harsh environments and extreme climate conditions
- Project management, including contractual and construction supervision
- Electrical power systems, including generation, distribution, high & low voltage installations, protection and control
- An extensive power generation fleet that can be rapidly mobilised by land, sea, or air
- Technical support personnel for on-site construction supervision, commissioning and training services and maintenance support
- NPE can offer load bank packages which are as easily mobilised as our generator fleet. Our load banks are equipped with a computerised control system for full data capture of the power system under test.



NPE's QAC TwinPower™ Generator Range Dual Power, Built for Demanding Sites

Part of NPE's high-performance fleet, the QAC TwinPower™ delivers two independent generators in a single 20-foot container.

Designed for flexible operation in parallel or standalone modes, it supports both 50Hz and 60Hz frequencies with prime and standby capability.

Enhanced Capabilities:

- Smart Load Management: Built-in Power Management System optimises fuel use and reduces emissions by up to 40%
- Continuous Availability: One unit stays online during maintenance, ensuring uninterrupted power
- Rapid Deployment: Compact design with high output density - up to 1450 kVA

With proven reliability, advanced emissions control, and scalable output, NPE's QAC TwinPower™ units are powerful assets for projects that demand efficiency, resilience, and environmental responsibility - delivering consistent performance across diverse industries, reducing operational costs, and supporting sustainability goals without compromising on power.

OUR SERVICES



Borefield Pump Hire Services

NPE offers a full range of bore pump hire equipment for borefield pumping, pipeline services, and monitoring in Australia's mining, construction, and agriculture industries. We have the expertise, products, and people to provide solutions that meet your needs.

Our partnerships with recognized pump suppliers and manufacturers ensure you get quality products and parts to complete your job.

NPE provides complete Borefield Pump Hire solutions, from design and construction to installation, maintenance, operation, and decommissioning. Our borefield services include:

- Abstraction and re-injection equipment
- Installation, testing, and commissioning
- Licensed electrical services
- Complete head works packages
- Customised full system design
- Monitoring and maintenance
- HDPE pipeline and component design, supply, and installation



Pipelines & Construction

NPE provides complete solutions for design, construction, installation, and maintenance, including transport and decommissioning. We have one of the largest fleets of HDPE welding machines in Australia, featuring manual, electric hydraulic, and remote-controlled units for different pressure needs.

Our equipment includes pipe racking systems, tracstar welding machines, generators, excavators, teleporters, skid steers, and crane trucks. We are Heavy Vehicle Accredited, allowing us to transport over-length pipe deliveries. NPE can customize solutions for your project.

Assisted Evaporation Systems

NPE are Australia's assisted evaporation systems experts, providing innovative and effective assisted evaporation solutions and services to Australia's mining and construction industry. We are the largest assisted evaporation system hire supplier in Australia, with over 300 evaporation system units.

Mechanical Dewatering

State-of-the-art mobile centrifuges, hydraulic pumps and separation equipment. Our team has engineered specialised pumping and recirculation systems designed for the efficient emptying of digester. Hydraulically powered, our cutting-edge equipment is specifically built to effectively remove materials such as rags, grits and biosolids from the hazardous environments within an anaerobic digester.

OUR EQUIPMENT



Our pump rental fleet is one of the largest in the country, catering to a variety of applications in construction, civil engineering, government, and mining.

Dewatering Pumps:

Diesel: Silenced and self-priming.

Electric: Includes silenced units.

Trailer Mounted: Lightweight and road-registered, suitable for towing.

Sewer & Wastewater Pumps:

Available in diesel and electric, ideal for sewer bypass with telemetry and SMS alarms for monitoring.

Remote Pontoon & Transfer Pumps:

Expertly designed solutions for floating electric and diesel pumps.

Submersible Pumps:

Durable options for sewer bypass, construction dewatering, and mining.

High Head Pumps:

Compressor-primed for contract mining, construction dewatering, and irrigation.

Centrifugal Pumps:

Includes silenced units for construction and mining.

Bore Pumps:

Perfect for rural irrigation, mining, construction, and potable water supply.

NPE offers a comprehensive range of water treatment equipment tailored to exceed project compliance requirements through our environmental expertise.

Chemical Dosing Units (CDU): Automated pH correction systems for groundwater, customizable and available in solar-powered options.

Metal Removal Modules (MRM): Custom systems to eliminate excess iron and other heavy metals, ensuring safe discharge of groundwater.

Sandtraps and Clarifiers: Efficient systems that enhance sediment settling, suitable for flow rates up to five litres per second with remote monitoring capabilities.

Sludge Presses: Units for maximizing water recovery from liquid sludge, reducing waste and disposal costs while compact enough for standalone or integrated use.

pH Dosing Units (PDU): Compact units for precise pH control, ideal for space-restricted sites, equipped with emergency eye wash stations.

PFAS Treatment: Proven decontamination solutions utilizing a specialized filtering process for PFAS compounds and waste management.

Hydrocarbon Removal Solutions: Modular or custom-designed systems for hydrocarbon removal, particularly when PFAS is present.



NPE BYPASS SOLUTIONS FOR SEWERAGE SYSTEM UPGRADES IN GEELONG VICTORIA

A need for NPE bypass solutions arose due to essential maintenance and upgrades of the sewerage system in the Geelong region. NPE was responsible for designing, supplying, installing, and maintaining five bypasses in Geelong West, Geelong South, and Breakwater to facilitate the upgrade works.



These bypasses featured a variety of setups, such as submersible pumps and silenced canopy pumps, along with telemetry controls, hoses, valves, and other necessary equipment. Our experienced crew handled all installation and maintenance. Our approach is built on experience and innovation. We aim to deliver technical design support, turn-key solutions, durable and reliable equipment, and effective project management within the project's budget and timeline.

RELIABLE BYPASS SOLUTION ENABLES MONBULK PUMP STATION UPGRADE

NPE delivered a temporary potable water bypass system during major upgrades at Monbulk pump station, ensuring uninterrupted supply for the local community.

In partnership with AMS and Melbourne Water, NPE designed and installed custom electric centrifugal pumps powered from the decommissioned site. Water was redirected via a 400m, 450mm pipeline from the Upper Yarra-Silvan line, through the treatment plant, and to McCarthy Road tanks.

The complex switchover from Cardinia to the NPE bypass was completed within one shift, requiring coordinated electrical, control, and pipeline works.





SEAMLESS BYPASS SUPPORTS CRITICAL MONBULK SHUTDOWN

To enable diving works and upgrades at Monbulk Pump Station, NPE reverse-pumped water from Cardinia Reservoir to Kalista Pump Station - overcoming a 125m static head and allowing both Monbulk and the Silvan main line to be taken offline.



NPE ensured continuous potable water supply to Melbourne's eastern suburbs, installing pressure relief and sustain valves to protect assets and maintain control between pump stations.

With 24/7 support throughout the six-month operation, NPE and AMS, in partnership with Melbourne Water, successfully delivered a strategic and efficient dual bypass solution.

EMERGENCY STORMWATER BYPASS ENSURES CONTINUED OPERATION DURING PUMP FAILURE

NPE was contracted to carry out an emergency stormwater bypass installation due to the pump station experiencing multiple pump failures, which reduced pump station capacity. New replacement pumps had been ordered for the pump station, but there was a substantial lead time for the replacement pumps' arrival. It is even more critical to have a temporary bypass system installed if any of the remaining pump station pumps fail or to cover any major weather events while waiting on the replacement pumps.

We had limited area to work with as we had to keep clear access into the building from the street for future new pump replacement works. We utilised one of the existing pump station discharge pipes to discharge our temporary bypass.





ADELAIDE | BRISBANE | DARWIN | KALGOORLIE | MACKAY | MT ISA
MELBOURNE | NEWCASTLE | PERTH | PORT HEDLAND | SYDNEY

National Pump & Energy branch network is strategically positioned to service all parts of Australia. These hire branches are supported by a team of NPE representatives and field service crews so that every part of Australia has access to the best equipment and service, regardless of location.

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