

Case Study



Power Solution for Neom ADIT 3N & West Portal Access Tunnel



When: 2022 - 2024 **Where:** ADIT 3N Access Tunnel & West Portal, Neom, KSA

Client Brief: The Neom Authority oversees the development of Neom, a groundbreaking megaproject in Saudi Arabia, which includes The Line, necessitating extensive logistics like access tunnels.

Power Plant Capacity: Byrne supplied a 7 MW installed capacity at two locations, complete with power transformers, distribution boxes, and a robust fuel system to meet the project's demanding energy needs.

Challenge: Byrne was tasked with providing a reliable power solution to support the logistics and construction of the ADIT 3N Access Tunnel and West Portal. This required high power availability and continuous operational support to prevent delays during tunnel drilling.

Solution: Byrne's comprehensive approach included:

- **High-Capacity Power Supply:** Installed 7 MW to fulfill the energy demands of drilling operations, ensuring stable power distribution via reliable generator sets and distribution boxes.
- **Robust Power Infrastructure:** An integrated fuel system ensured uninterrupted power generator operation, while advanced distribution boxes facilitated efficient power management across the construction site.

- **Operational Support:** Continuous maintenance and support services were provided, employing proactive strategies to minimize downtime and swiftly address any challenges.

Operational Efficiency and Reliability: The integrated power infrastructure functioned efficiently, enabling seamless construction operations. Byrne's on-site maintenance team ensured reliability through proactive servicing and real-time monitoring, preventing disruptions.

Result: Byrne's power solution for the Neom ADIT 3N Access Tunnel successfully delivered continuous and reliable power for tunnel drilling, minimizing downtime and achieving high client satisfaction. This project highlights Byrne's capability to provide dependable power solutions in complex construction environments, positioning the company as a trusted partner for future transformative initiatives like Neom.

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