

CASE STUDY



Behind-the-scenes backup power for a new 5-star Amman hotel

PURPOSE

To supply quiet and assured standby power to an upscale hotel in Jordan's capital.

SUPPLY

- 1 x Cummins C1675D5A PowerBox diesel generator set
- 1 x Cummins C2750D5B diesel generator set
- 6 x BTPC Bypass Isolation Transfer Switches
- 1 x Air Circuit Breaker (ACB)

WHERE

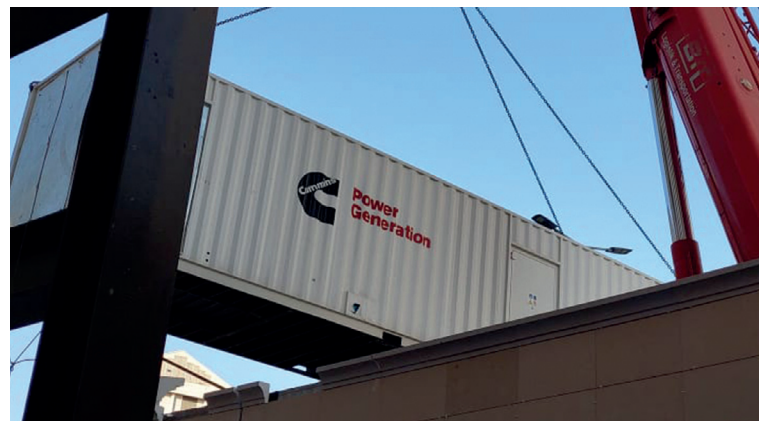
The Ritz-Carlton Hotel & Residences, Amman, Jordan



Amman's Ritz-Carlton luxury rests on quiet and reliable standby power

Opened in 2022, The Ritz-Carlton Hotel & Residences in the exclusive 5th Circle district of Jordan's capital of Amman is one of the Kingdom's most prestigious leisure and business destinations. Consisting of a lavish 5-star hotel with 194 rooms and 34 suites, alongside a 20-storey tower of 90 opulent private apartments, the hotel and residences represent the first Ritz-Carlton accommodations in Jordan and a new milestone in luxury for the country.

The new hotel and residences depend on uninterruptible, 24/7 power to maintain their round-the-clock operations and availability, and support the global Ritz-Carlton reputation for delivering a luxury experience to its guests and homeowners. While both sites source their prime power from Jordan's national utility network, it is essential that they also have dependable standby power as a fall-back in case of grid outage. Critically, both complexes need prime and standby power which operates quietly to help ensure guests and homeowners are undisturbed by noise.





A trusted partner

To provide this quiet and quality power, Ritz-Carlton turned to Amman-based S.E.T.I. Jordan, the country's only authorized Cummins distributor. As a long-time specialist in supplying and servicing Cummins power products, S.E.T.I. was the natural go-to and reliable partner for delivering the right standby power solution. Cummins' strong customer service, one-stop support and maintenance, and Power of One™ principle—in which all major components are manufactured by Cummins for optimum reliability—were also key in winning the contract.

Having consulted with the customer and recognized their need to minimize sound levels, S.E.T.I. engineers specified a Cummins C1675D5A generator set delivering 1675 kVA/1340 kW standby power and a Cummins C2750D5B generator set delivering 2750 kVA/2200 kW standby power. Both units were equipped and installed with a range of noise reduction initiatives. The project saw S.E.T.I. Jordan supply and install these two Cummins diesel generators, and co-ordinate and conduct all relevant engineering calculations, recommendations, dummy load testing and commissioning to meet transient performance as per ISO8528 definitions.

Expert installation

Located outdoors on a site between the hotel and main street, the Cummins C1675D5A was housed within a Cummins factory-manufactured, sound-attenuated PowerBox container. The Cummins C2750D5B open-type generator set, meanwhile, was installed in the hotel basement. Noise control measures here included full wall cladding, acoustical ceiling treatment, anti-vibration isolation hangers and a floating concrete floor system to limit ground-borne noise and vibrations. Sound attenuators were also used to muffle radiator fan and fresh air fan noise.

S.E.T.I. also installed six Cummins BTPC Bypass Isolation Transfer Switches with amp ratings ranging from 225 to 800, 1,000 and 1,600, to enable redundant power transfer and re-transfer capabilities. The C2750D5B generator set was also fitted with a floor-mounted 4,000 amp ACB.

SUCCESS ON SCHEDULE

The work was completed on schedule, meeting the Ritz-Carlton timeframe to ensure the new standby power equipment was operational well before the hotel and residences' official opening dates.



"We met every client expectation and need, from specifying the right generator sets for the required standby power, to minimizing any noise to enable the Ritz-Carlton to sustain the luxury experience it promises its guests and homeowners. We're delighted to have helped give the customer the uninterruptible power which is imperative to their offering in Amman and their wider, global reputation."

SALIM HAKIM,
*Deputy General Manager,
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