

Case Study

Jumeirah Lake Towers

Solution: District Cooling

Market: Hospitality, Retail & Commercial

Design: Modular

Scope: Turnkey/EPC



CHALLENGE

As the Dubai, UAE region underwent a massive construction boom in the early 2000s, there was strong demand for efficient cooling solutions that could save both energy and space. Jumeirah Lake Towers (JLT) is a prestigious residential and commercial development on Dubai's mainland comprised of 64 skyscrapers. The development is home to more than 50,000 residents, 160 retail outlets, and two hotels. With real estate at a premium, the development required an efficient, effective, scalable and space-saving way to cool the immense space.



SOLUTION

Stellar Energy provided turnkey engineering, procurement and construction (EPC) of a district cooling solution for Jumeirah Lake Towers. Designed and executed in phases, the plants have a combined delivery of 105,000 tons of refrigerated water (TR). Stellar Energy's expertise in modular construction was a deciding factor for Palm District Cooling, the group that directed the JLT project and ultimately retained Stellar Energy to also handle the district cooling project for Palm Jumeirah Trunk. "We chose Stellar's modular chiller design for their scalability, low initial investment and the company's ability to commission large projects in a short time span while adhering to the highest international quality standards," said Keith Levers, CEO of PDC.

District cooling is the distribution of cooling energy from a centralized plant to several buildings in a district. Centralizing the comfort cooling infrastructure offsets the need for mechanical rooms in each building within the district, saving valuable real estate and improving efficiency up to 40%.

QUICK FACTS

Owner:	Palm District Cooling
Location:	Dubai, UAE
Plant specs:	105,000 TR of chilling capacity
Schedule:	Project delivered in 2008

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Keith Levers
Chief Executive Officer
Palm District Cooling

Stellar Energy is a global leader in the design, fabrication, installation and operations of a range of energy systems, including Turbine Inlet Air Chilling, District Cooling, Central Utility Plants and Combined Heat & Power. Learn more at www.stellar-energy.net.

