

✉ saudiprojects@tpg.media (mailto:saudiprojects@tpg.media)

☎ +971 58 683 3224 (tel:+971586833224) 📍 Jeddah, Kingdom of Saudi Arabia



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Advancing Data Centre Efficiency in Saudi Arabia

ADVANCING DATA CENTRE EFFICIENCY IN SAUDI ARABIA



Insights from Waleed Okasha on cooling and sustainable operations.

Delivering up to 38% optimization potential in cooling energy use, supporting Tier IV redundancy, and enhancing performance through intelligent pumping and real-time system control.

Rapidly expanding data centre industry, adopt smart, energy-efficient systems

Waleed Okasha ([https://www.linkedin.com/in/walid-okasha-mba-93481013b?](https://www.linkedin.com/in/walid-okasha-mba-93481013b?utm_source=share_via&utm_content=profile&utm_medium=member_ios)

utm_source=share_via&utm_content=profile&utm_medium=member_ios), Sales Manager in Commercial Building Services at Grundfos Saudi Arabia, is a recognized regional voice in advanced engineering. He plays a critical role in helping mission-critical sectors, particularly the rapidly expanding data centre industry, adopt smart, energy-efficient systems.



Waleed Okasha, Sales Manager in Commercial Building Services at Grundfos Saudi Arabia

As Saudi Arabia accelerates its Vision 2030 ambitions, data centers are becoming the backbone of the Kingdom's digital economy, supporting cloud services, artificial intelligence, and large-scale digital transformation initiatives.

According to Waleed Okasha, a primary challenge for operators is managing energy consumption within cooling systems, which account for a substantial share of total energy usage. As processing densities rise, maintaining precise thermal control without escalating operating costs is essential.

End-to-End Intelligent Cooling via Distributed Pumping Systems (DPS)

To address this, Waleed Okasha highlights a shift from conventional centralized designs to fully integrated, decentralized systems. Grundfos enables this through Distributed Pumping Systems (DPS), which replace traditional central pumping and throttling valves with intelligent pumps that provide precise control at each load point.



By combining pumps, controls, sensors, and analytics into a single platform, DPS eliminates throttling losses. For mission-critical facilities, this architecture enhances redundancy and directly supports Tier III and Tier IV reliability requirements.

Data-Driven Performance Optimisation

Grundfos solutions move beyond static design conditions towards continuous, active system optimization. By leveraging real-time monitoring and advanced digital controls, operators can transition to data-driven performance management. The infrastructure adapts dynamically to changing thermal loads and operational demands, ensuring peak efficiency throughout the cooling system's lifecycle.

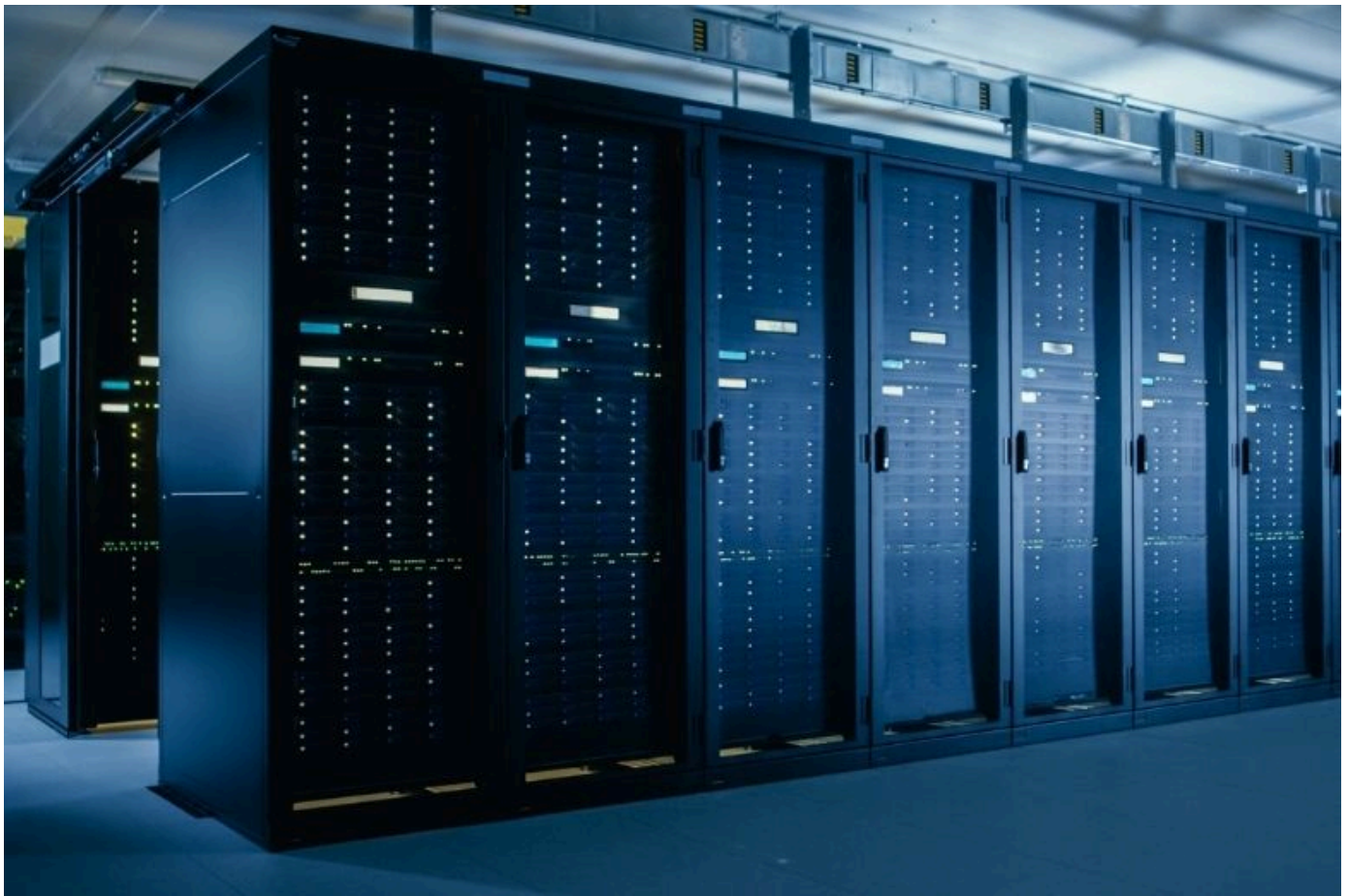


Local Innovation Aligned with Vision 2030

Operating in Saudi Arabia presents distinct environmental challenges, including high ambient temperatures and water scarcity. Waleed Okasha emphasizes that Grundfos leads by developing localized cooling concepts tailored to the Kingdom. These high-performance solutions focus on water efficiency and reuse strategies, supporting Vision 2030 sustainability targets while ensuring long-term operational resilience.

Future-Ready Infrastructure Partnerships

Grundfos combines a strong local presence with global technical expertise, collaborating closely with consultants, contractors, and operators from design and engineering through to commissioning and ongoing optimization.



Looking ahead, Waleed Okasha (https://www.linkedin.com/in/walid-okasha-mba-93481013b?utm_source=share_via&utm_content=profile&utm_medium=member_ios) stresses that selecting the right cooling and water management solutions early in the development process significantly impacts long-term operational efficiency, cost performance, and sustainability. As Saudi Arabia's digital evolution progresses, adopting these intelligent, future-ready systems is essential to supporting the Kingdom's ambitions.

FOR MORE INFORMATION:

Visit Grundfos Product Selection on Website (<https://product-selection.grundfos.com/sa/industries/data-centers?tab=Explore>)

Call +966 11 829 3700

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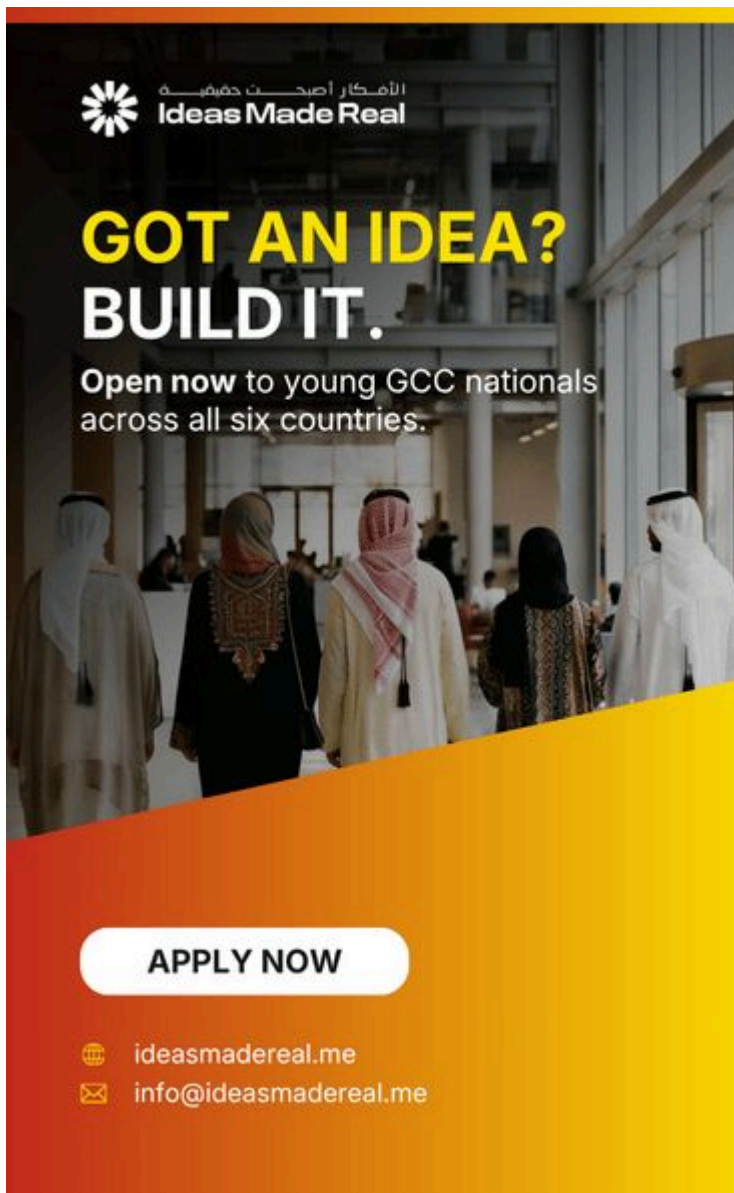
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Saudi Projects

TPG Media Ltd

United Kingdom - United Arab Emirates - Kingdom of Saudi Arabia

Email: saudiprojects@tpg.media (mailto:saudiprojects@tpg.media)

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