

# ColdLogik

## CASE STUDY



Zajil Telecoms, Kuwait

New Build Colocation Data Centre

2013

**USystems**  
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## The Client

Zajil is a leading Information and Communications Technology (ICT) Service Provider in the Middle East & North Africa (MENA) region. Established in the State of Kuwait since 1991, Zajil is Kuwait's first Internet Service Provider and the region's leading MPLS Service Provider.

Zajil is a major Data Centre Services player operating multiple data centres in Kuwait, KSA, UAE, Bahrain, Jordan, and UK. Zajil also offers a broad range of Cloud & Managed Services wherein customers rely on Zajil's expertise to manage their ICT infrastructure.

By partnering with global telecom and technology leaders, Zajil provides end-to-end Connectivity, Cloud and Managed Services.



Zajil Telecoms is a major data centre services player operating multiple state of the art data centres in Kuwait.

## The Brief

In 2013 Zajil International Telecoms were designing their new colocation data centre and required a low energy cooling solution which would be able to expand alongside their growing requirements.

They required a phased deployment of cabinets and cooling to keep their capital costs down. The data centre would eventually comprise 80 racks with up to 160kW cooling capacity. With an initial 20 racks and 8 rear ColdLogik Rear Door Coolers with cooling to be added as load increased.



## The Cooling Solution

The specification required that the cooling solution would work efficiently on part load. The ColdLogik team designed a modular system which allows for a gradual roll out program. The initial solution required 20 x USpace ColdLogik compliant cabinets with an initial 8 x ColdLogik CL20 C8 Rear Door Coolers. This was supported by three chillers with a water supply temperature of 16°C.

This modular approach allows for a growing installation requirement which has been expanded twice within 18 months of the initial installation as their customer base increased.

Aside from its modularity, the ColdLogik solution was chosen above a cold aisle solution as this was too restrictive in its layout and space utilisation and was not as energy efficient and modular as the customer required. The data centre is currently running at 160kW cooling capacity with an N+1 redundancy rating.



A second data centre is planned to utilise the same ColdLogik solutions - Today, Zajil operates two data centres in Kuwait, and one in Saudi Arabia, UAE, Bahrain, and Jordan, as well as a presence in the UK. Its customers are mainly large enterprises and include Kuwait Oil Company and “all major banks in Kuwait”.

Zajil see up to 50% energy savings over their existing (similar duty) data centre even in the 50-60°C ambient temperature in Kuwait

## Project Summary

### Energy efficiency and cost savings

- Low CAPEX and fast ROI
  - Low PUE
  - Year on year energy savings
  - Low carbon
  - Reduced footprint
  - 50% energy savings on their existing data centres
- ### Security and control
- Modbus monitoring and control into Zajil's own BMS
  - Tier 3 (N+1) redundancy

“The cutting edge design of our new data centre enables us to address the multi-point connectivity needs in the global economy, where connecting geographically dispersed offices, resources and stakeholders is critical, Zajil now has the delivery capability to include international connectivity for our high-speed data customers which is able to grow with our business and has an amazingly low running cost.”



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