



Case study

Inwi scales cooling performance at Technopolis site with Vertiv's chilled water offering



Background

Africa's fast-growing digital economy depends on reliable data centres to power cloud services, mobile networks, and digital innovation. In Morocco, Inwi, a leading telecommunications provider, plays a key role in this infrastructure.

Vertiv has partnered with Inwi on multiple projects, starting with advanced thermal management solutions at its Marrakech and Settat data centres to improve efficiency and stability.

Most recently, Inwi engaged Vertiv to expand its Technopolis Rabat facility, focusing on cooling efficiency, redundancy, and resilience. This case study highlights how the collaboration supports Morocco's digital growth and the continent's broader transformation.



Company profile:

Inwi is a leading telecommunications company in Morocco and a major Internet service provider in the country.

Industry: Telecommunications

Region: North Africa

Challenge

The expansion of the Technopolis Rabat site focused on upgrading cooling capabilities using advanced chilled water systems and precision cooling units, building on the proven performance delivered at the Marrakech and Settat facilities.

This phase of the project brought with it a unique set of technical challenges:

- Maintaining optimal cooling efficiency in high ambient temperatures, which can exceed 45°C during summer months.
- Integrating new cooling systems with the existing infrastructure without disrupting ongoing operations.
- Improving energy efficiency to align with Inwi's environmental responsibility goals.





Solution

Vertiv's solution: Enhancing cooling performance with scalable, energy-efficient systems

For the Technopolis Rabat expansion, Vertiv deployed air-cooled chillers (715 kW) in an N+1 redundancy scheme and modular CRAH units installed in phases to keep systems online while scaling capacity. A free-cooling mode reduces energy use and costs, advancing Inwi's efficiency and sustainability goals.

See the breakdown of Vertiv™ solutions below:

Chilled water systems:

- Vertiv™ Liebert® AFC air-cooled chiller, 715 kW cooling capacity, designed with integrated free cooling capabilities and configured for N+1 redundancy.

Precision cooling units:

- Vertiv™ Liebert® PCW CRAH unit with chilled water cooling, designed for IT rooms to maintain consistent temperature and humidity.
- Integrated with Vertiv™ Liebert® iCOM™ control systems for real-time performance optimisation and efficient temperature management.

Services:

- **Installation and commissioning** of the cooling infrastructure.
- **Technical consultancy** to design a cooling system that aligns with Inwi's operational requirements.
- **Ongoing maintenance and support** for optimal system performance.

Outcome

This trusted partnership, focused on performance and customisation, delivered the following outcomes:

- **Reliability:** Chilled water and precision cooling systems safeguard uptime and stability.
- **Efficiency:** Free-cooling features cut energy use and reduce operating costs.
- **Resilience:** N+1 redundancy maintains availability during component failures.
- **Scalability:** Modular design supports future growth without disruption.



“By implementing advanced chilled water and precision cooling solutions at our Technopolis Rabat site - building on previous projects in Marrakech and Settat - Vertiv has played a key role in our strategic initiative to upgrade and modernise Inwi's data centre facilities, enabling us to meet the growing demands for data processing and storage,”

— **Abdelilah Idrissi,**
*Head of Datacenters Design
& Operations at Inwi.*