# Immersion Cooling is Crucial for Driving Future ICT Growth in the Middle East

Years ago, certain technology services were nothing but a fantasy, except thanks to the continuous technical innovations, it became reality. There is no doubt the nonstop technological evolution has changed our lives to a degree that technology has become indispensable in most if not all areas of life.

## How Liquid Immersion Cooling Benefits Sustainability

Cooling a data center never used to be this hard. But IT and data center professionals have watched the thermal design power (TDP) of chips rise almost 50% in the last decade, generating more heat and using more power than ever before. Rack density has grown. And hot GPUs are becoming the weapon of choice for tackling high-performance computing (HPC) requirements.

# Upgrading Air-Cooled Data Centers to Immersion Cooling is Simpler Than You Think

Upgrading an air-cooled data center to an immersion cooling solution is a lot simpler—and less stress-inducing—than most people imagine.

## Data Center Capacity Planning — An Alternate Approach

When it comes to accurately and reliably undertaking a capacity planning initiative, the challenge can be daunting. Do you recall how much planning, effort, and time went into your last attempt? You needed to forecast the necessary compute to meet your mid-term business needs, as well as project your long-term growth requirements, while trying to keep budgets in line. Skillfully and successfully doing all this is no simple task.

## Simpler (and Better) Than You Think Demystifying Immersion-Cooled Data Centers

When two pioneering, forward-looking companies team up with the right mindset, great things are sure to happen. That's definitely the case when it comes to our recent collaboration with monster chip-maker NVIDIA. To be sure, one of our premiere projects is already having a huge impact — one that promises to benefit mankind.

# The Plane Truth About Environmental/Data Center Sustainability

Amid concerns about global warming and the issue of environmental sustainability has moved to the forefront of boardroom and conference room conversations around the world. It has certainly become a hot topic in air travel and data centers.

## Air-Based Cooling vs. Liquid-Based Cooling — Newly Updated

At the end of every great action movie, hero and nemesis face each other for a final battle to prove that good triumphs over evil. At least that's what we hope. Well, while we think single-phase immersion cooling is more than pretty good, we hardly believe air cooling is evil. ('Aggravatingly exhausted' might be a better term.)

#### Data Center Cold Wars — Part 4: Single-Phase Immersion Cooling Versus Rear-Door Heat Exchangers

Things are really heating up out there. Even conventional computing operations are frequently pushing the 30 kW/rack barrier now. HPC apps like AI are becoming commonplace. And because IT is such an integral part of business growth, IT execs are under renewed pressure to have a fail-proof game plan for scaling up.

# Data Center Cold Wars — Part 3: Single-Phase Immersion Cooling Versus Cold Plate

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#### When Does Liquid-Immersion Cooling Make Sense? Part 3

The third installment of our "When Does Immersion Cooling Make Sense?" blog series focuses on edge deployments, integrating high-density racks, and adding more capacity to your data center when you can't move to the cloud.