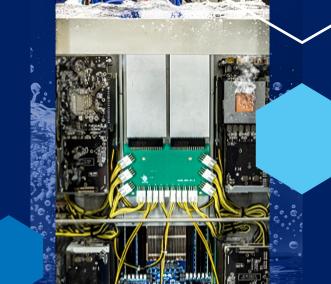


Next Generation Data Center Cooling:

Unlocking Efficiency, Enablement, and Savings



Advanced cooling technologies in data centers can generate up to¹



17% lower energy consumption²



16% reductions in capital expenditure²

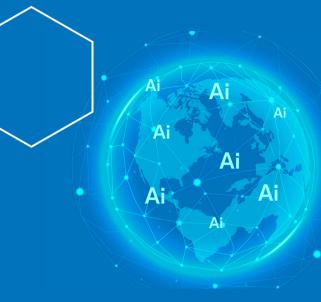


reduction in facility-related operational costs²



lower Total Cost of Ownership²

In a world driven by AI and high-performance computing, data centers face increasing challenges in cooling demands from next-generation processing chips and operational efficiency.





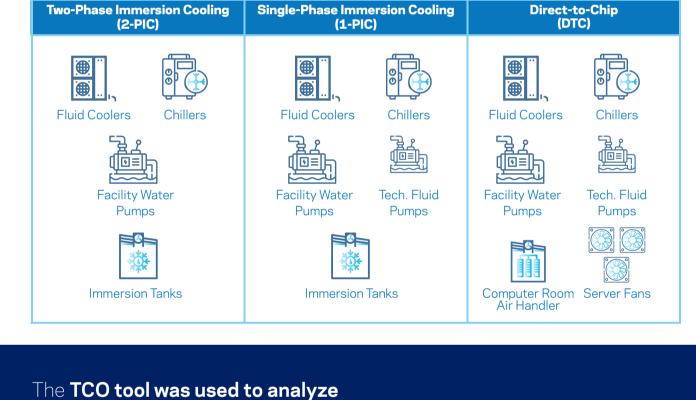
Industry leaders in data center cooling have collaborated on a new Total Cost of Ownership (TCO) tool to evaluate next-generation cooling technologies that have shown promise in addressing industry challenges.

These advanced cooling technologies significantly lower energy and water usage, optimizing cost and space across diverse climates.

The TCO tool uses a foundation of established data, ensuring transparency and reliability in every calculation.

including individual design requirements by technology.

A joint study applied data center design best practice for cooling systems



climates. In the US location study results 2-PIC demonstrate a lower:

• Power Usage Effectiveness (PUE) Up to

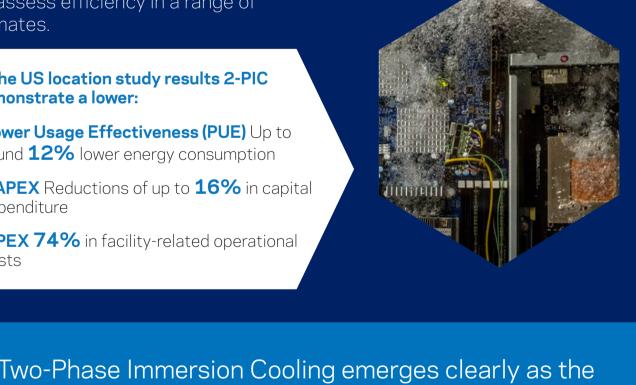
impacts on energy, water, and costs

to assess efficiency in a range of

around 12% lower energy consumption CAPEX Reductions of up to 16% in capital

expenditure

- OPEX 74% in facility-related operational costs



total cost of ownership across global climates.2 Access the full report and explore how these insights can

optimal solution, offering unrivaled energy efficiency

plus power, water usage effectiveness and the lowest

optimizing Data Center efficiency

Learn about



drive your operations toward

efficiency and sustainability.



A breakthrough high-performing fluid for Two-Phase Immersion Cooling



cooling-related water consumption.2



³ Compared to traditional air-cooling technologies.







footprint by nearly



- $^{\rm 1}\,$ When compared to single phase immersion and single phase direct to chip. ² Analysis results in 4 global locations; US, UAE, Denmark and Singapore from the study Comparison of Server Liquid-Cooling Technologies, Syska Hennessy Group, Inc.