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White Paper August 15, 2022

Two-phase liquid immersion cooling

by [John Major](#) and [Elizabeth Slyziuk](#)

Two-phase liquid immersion cooling (2-PIC) is a data center cooling methodology that provides cooling by submerging racks in a non-conductive liquid in place of traditional air-cooled methods. The following study analyzes two 36 MW data center concepts in the hypothetical project location of Quincy, WA. The two concepts included a traditional direct evaporative air-cooled data center and a 2-PIC data center, and the Page team examined each critical component of data center design: mechanical systems, electrical systems, hardware, and physical space.

This white paper includes:

- A case study
- A rich review of distinct elements of each concept, including architectural, mechanical, electrical, and telecom topologies
- A construction cost analysis
- Key takeaways regarding the savings of a 2-PIC hyperscale data center

Click [here](#) to download the white paper.