How to calculate the liquid usage of an AI server

1 AI data centers use water two ways: directly in cooling towers (evaporation) and indirectly through power plant cooling. Google used 6.4 billion gallons for data centers in 2023. Microsoft used ...

The formula: WUE = total annual site water usage (liters) / IT equipment energy consumption (kWh), yielding a result in L/kWh. A WUE of zero means no water is used for cooling.

For a single training run of Grok 4, independent research group Epoch AI estimates that data center cooling alone used about 750 million liters of ...

As AI data centers adopt liquid cooling, freshwater use is surging--raising environmental justice concerns and straining communities.

The concern is not only about the absolute amount of water usage by AI models, but also about how AI model developers respond to the shared global ...

Our analysis enables impartial comparisons of electricity and water consumption among data centers by proposing several workload-based indicators, including direct server electricity use ...

This calculator provides a clear, browser-based estimate of total energy and associated water use for a single training job using four inputs you can usually obtain from monitoring, vendor specs, or facility ...

In this piece, we"ll explore how this water use is calculated, which companies report it, what they"re doing to lessen the impact, and how it affects humans--using Iowa and Texas as ...

Track real-time estimates of water consumption by AI infrastructure. Understand the environmental impact of artificial intelligence.

The concern is not only about the absolute amount of water usage by AI models, but also about how AI model developers respond to the shared global challenge of water scarcity.

Artificial intelligence systems are thirsty, consuming as much as 500 milliliters of water - a single-serving water bottle - for each short conversation a user has with the GPT-3 version of...

For a single training run of Grok 4, independent research group Epoch AI estimates that data center cooling alone used about 750 million liters of water, or roughly 198 million gallons, on top ...

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