







Full end-to-end data center infrastructure modeling and simulation

Given the sheer pace of change, sometimes you just need some straight answers to your key data center questions including...

- How can I predict and maintain optimal performance across my full infrastructure?
- What equipment do I need to replace- and when?
- What spaces can I use for high-density loads such as AI?
- Where are my capacity bottlenecks for increasing IT loads?
- What would be my best cooling strategy?
- What impact could changing environmental conditions have on my estate?

Zero in on the right decisions with accuracy levels of 99% plus

That's where EkkoSim can help. EkkoSim is the only Digital Twin solution that provides comprehensive grey space modeling and simulation across your full, end-to-end data center infrastructure.



EkkoSim helps you zero in on the right decisions, enabling you to draw on first principles maths and physics models. You can then create the data center industry's most precise cooling, power and capacity simulations, with accuracy levels running at 99% plus.

EkkoSim extends beyond the white space to incorporate full site power and cooling distribution systems. This lets you carry out 'what-if' analysis, track the performance of your capital investments, simulate extensions to your existing capacity, or plan an entire new build!

So whether you're a CFO validating investments, a CIO seeking additional performance, or data center management wanting to optimize your facilities, EkkoSim can unlock the answers you need.

Unlimited simulation scenarios

EkkoSim allows multiple scenarios to be created, tested and analyzed in the platform, such as: addition of new plant; increased IT loads; failover scenarios; reconfiguration of cooling systems, and viability of new power distribution systems.

The EkkoSim interface clearly displays the capacity for each unique asset class based on the provisioned (maximum) and utilized (existing) site loads. EkkoSim also integrates with the award-winning EkkoSoft Critical 3D platform, drawing on our 50 billion point data lake to provide live Actual vs. Expected performance data in order to review operation performance against OEM specifications.

Request a free demonstration and bring the power of award winning EkkoSense Al to your critical facilities

Key EkkoSim benefits

- Reduce capital investments
 By accurately analyzing and
 predicting the most suitable
 designs
- Analyze the performance of critical capital purchases By triaging assets that would most benefit from configuration assessments
- Decrease operating expenses
 By continually analyzing
 metered data against
 predictive models
- Track Total Cost of Ownership (TCO)
 Calculate data center equipment and power TCO

Quick and Advanced scenario generation

EkkoSim offers a broad range of additional simulation options, including:

- Quick Simulations
 Using Quick SIM to make changes to the IT load, adjust the number of assets or test site performance under different external conditions
- Graphical Analysis
 EkkoSim can run these for periods up to three years, with KPI analysis including energy usage, seasonal PUE, CO2 emissions, costs and capacity
- Configuration
 Created for electrical and mechanical systems based on performance design data from manufacturers
- Alternative Cooling
 Configurations
 Simulating cooling configurations
 such as chilled water, split DX
 units, air-cooled chillers, liquid
 cooling IT racks, and air
 economizers
- Resilience Testing
 Supporting N+R and 2N+R
 resilience testing for both shared or staged loading, with power and cooling distribution circuits able to split and combine to simulate performance under failure scenarios



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