Analytica® Data Center Capacity Planning Tool

The **Analytica® Data Center Capacity Planning Tool** (ADCAPT) enables datacenter planners to rapidly explore and evaluate a comprehensive range of plans to upgrade data centers or build new ones. A powerful combination of easy-to-use software and consulting services will help you to quickly develop your data center strategy that lowers the total cost of ownership, including energy costs as well as the environmental impact of your computing infrastructure.

ADCAPT helps you to:
- Select the right combination of technologies to reduce total cost of ownership (TCO), energy and environmental impact.
- Determine the datacenter capacity needed to meet an uncertain but growing IT load.
- Phase capacity deployment and choose the most cost-effective refresh cycles.
- Prepare for upgrades to future innovations in energy-efficient technologies.
- Provide a collaborative decision framework that helps all stakeholders gain clarity, confidence, and commitment to your plans.

Intuitive User interface and Drill Down into Model
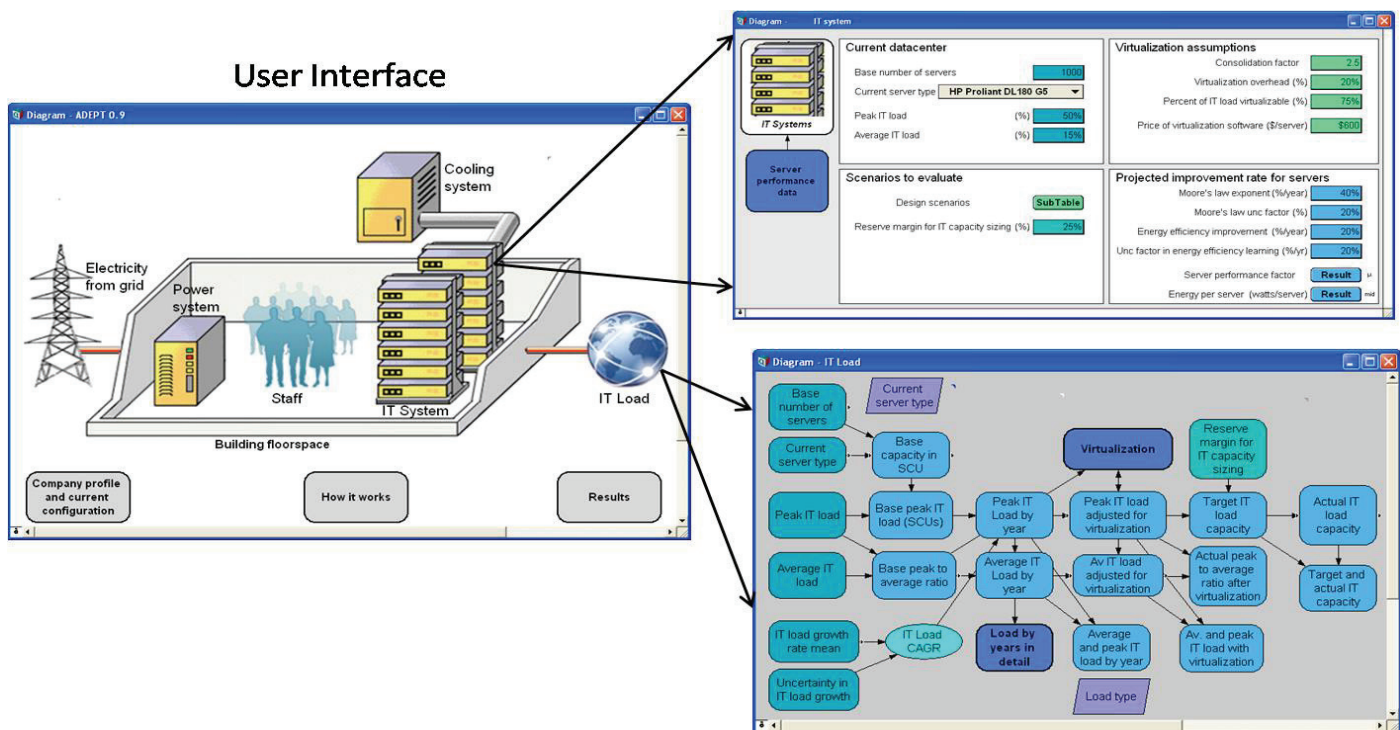
Total Cost of Ownership

Evaluate your data center's TCO by enabling a comprehensive vision of costs for selected configurations. Data center design teams can isolate and compare capital, operations, maintenance, staff, space, power, cooling, and other infrastructure costs for customized data center configurations including configurations that employ virtualization technology.
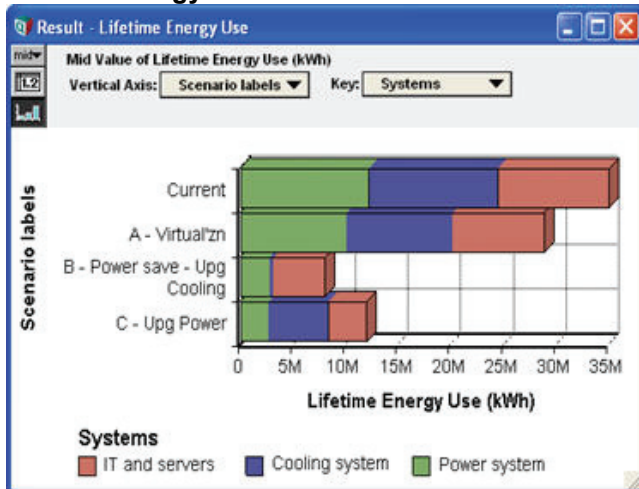
Annualized TCO by Design Scenario
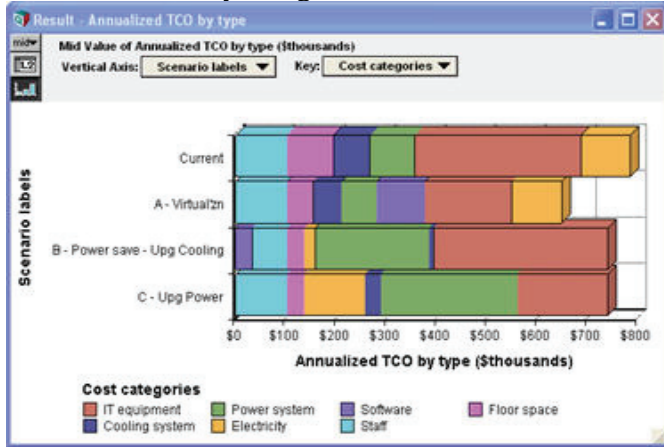
Electric Power Use of Datacenter by Scenario

Graph and evaluate the total energy use by IT equipment, cooling and power infrastructure for current system against user defined scenarios.
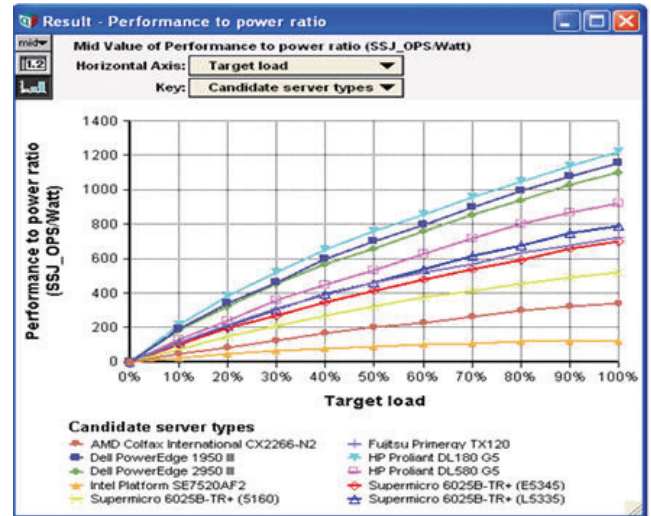
Lifetime energy use

Evaluate Vendors Server Power Use and Performance to Power Ratio

Measurements of power usage (watts) and performance (e.g. server-side Java ops per sec) for selected servers using the SPECpower_ssj2008 benchmark standard. ADCAPT dynamically updates the data from the web, using results published by the Standard Performance Evaluation Corporation (SPEC).

Server Power Usage as a function of IT load
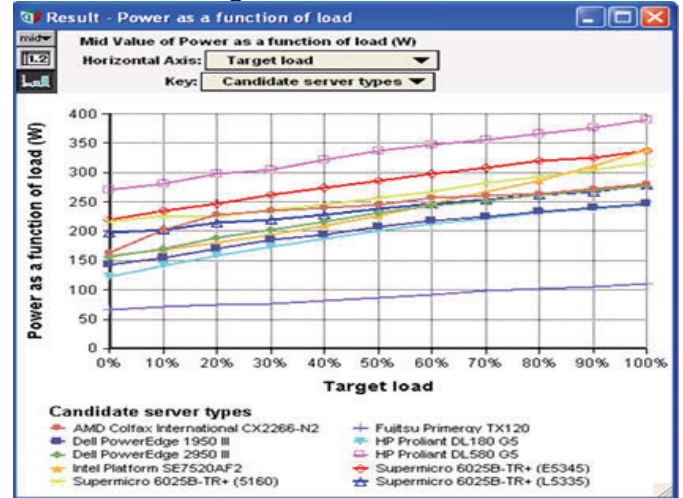
Server Computational Performance to power use ratio as a function of IT load

Adaptive Capacity Sizing

ADCAPT enables data center design teams to evaluate phased deployment strategies that incorporate future server upgrades with increased performance and efficiency to meet increased peak demand without a proportional increase in power usage. It lets you optimize your refresh cycle for upgrading equipment.

Adaptive capacity sizing (also known as "right-sizing") means adding capacity (IT, cooling, or power conditioning) periodically to meet expanding demand from users. In this way, they can adapt to uncertain future demand dynamically while minimizing excess capacity.

Demonstration

ADCAPT enables you to develop cost-effective plans to build or add data center capacity with unprecedented ease and clarity. It provides a clear breakdown of energy use and total cost of ownership of key alternatives to obtain understanding and buy-in by your entire team.

We invite you to let us show you how ADCAPT could assist you in your next capacity-planning project. For a demonstration or for more information please contact KC Mares at 650-212-1212 or via email kcmares@lumina.com.

Adaptive capacity sizing by Kilowatts (KW)
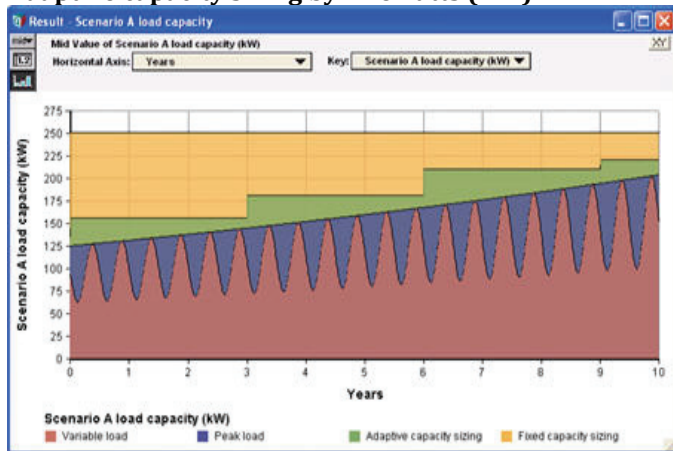
Adaptive capacity sizing by Standard Computing Units (SCU)
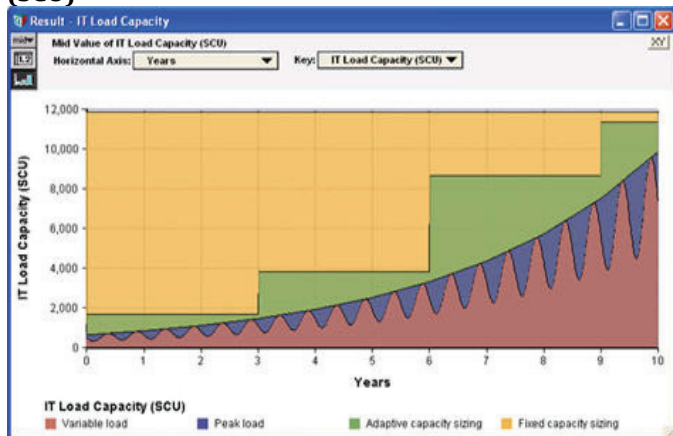
Bringing clarity to green decisions
For further information and demo contact KC Mares at 650-212-1212 or kcmares@lumina.com