

Sirvis

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INTERACT
ESG | SUSTAINABILITY



SIRVIS INTERACT



Sirvis-interact.com

Advanced analytics software that is proven to reduce the energy costs and carbon footprint of data center servers, delivered as a service by SirviS.

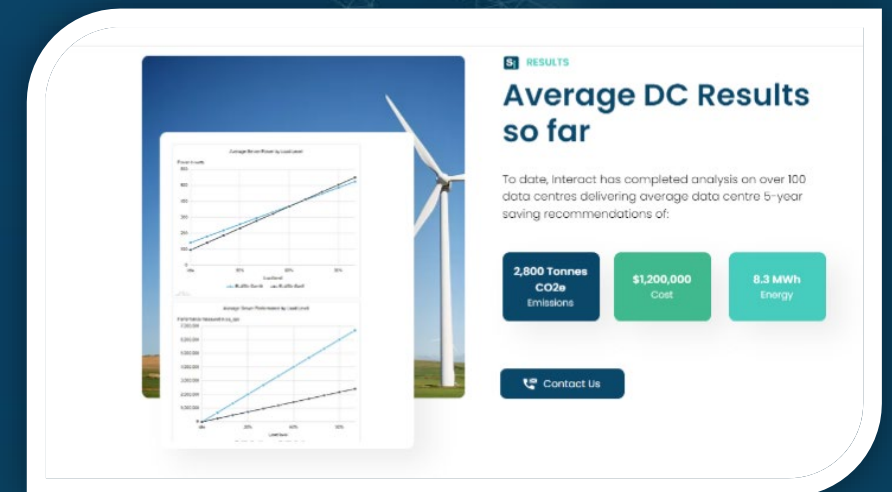
Accelerating business demands and ever-growing data volumes have led to a corresponding increase in data center density. Servers are consuming more power, and organizations are packing in more kilowatts per rack. In many data centers, power is the largest operational cost, and data center managers are looking to reduce power expenses so that they have more budget to spend on innovative services.

Additionally, companies are implementing environmental, social and governance (ESG) initiatives to complement their corporate social responsibility (CSR) programs and address new regulatory requirements. Data center power consumption and carbon emissions have become an executive-level concern.

In order to rein in power consumption and reduce the data center carbon footprint, organizations need to understand how power is used. Because servers represent 65 percent of the average data center energy draw, they are a focal point for this analysis.

SirviS has partnered with Interact to deliver an award-winning analytics tool that accurately measures server energy draw. The Interact tool utilizes machine learning technology that has been "trained" using the world's largest dataset of energy usage metrics. This dataset, combined with more than three years of research, enables SirviS Interact to deliver verifiable analyses of server energy and carbon usage with customized recommendations for cost, energy and carbon improvement.

On average, customers can realize energy savings of 50 percent to 70 percent. A customer with 500 to 2000 servers could save \$1.2 million by following SirviS Interact recommendations.



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How SirviS Interact Works

Most data center power analysis tools use sensors to collect data. In some cases, these tools can be monitored remotely, or the data can be fed into data center infrastructure management (DCIM) platforms. In theory, these tools give data center managers the information they need to better manage power consumption.

However, these tools have a number of drawbacks. First, physical equipment must be installed in the data center and the data collected or transmitted. Second, someone on the IT team must have the knowledge and experience to translate that data into actionable intelligence.

SirviS Interact eliminates those challenges. Nothing is installed in the data center. The customer simply provides basic information about their server environment, which is fed into the Interact tool. The machine learning engine analyzes the information based upon the energy usage dataset. The data can be regionalized to obtain the most accurate cost estimates.

Only the customer's trusted IT partner and the SirviS Interact team have access to the data. The data is anonymized for privacy and security. Authorized users access reports and recommendations through an encrypted portal with an intuitive interface.

The Interact tool conducts a component and rack-level analysis of the customer's server estate to accurately measure server energy usage, total operational energy and server energy efficiency. It also calculates Scope 2 (energy-related) emissions based on location and can estimate Scope 3 (embodied) carbon impact. Energy modeling and cost analyses are based on scientific equations, peer-reviewed and published in an IEEE paper.

Interact provides operational cost forecast for up to 10-year assessment periods, with rack space, operational costs and licensing factored in. More than 700 server models are analyzed to determine the optimal hardware to meet infrastructure and workload needs, with projected energy, cost and carbon emission savings. Interact can also determine which hardware should be replaced to deliver the same compute power to reduce energy usage, cost and carbon emissions.



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Metrics generated by SirviS Interact:

- Total operational energy
- Server energy efficiency
- Scope 2 and Scope 3 carbon footprint
- Refresh recommendations
- ROI and TCO analysis
- Buyback quotes
- Decommissioning and replacement opportunities
- Consolidation and capacity planning

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