

## Nominee: Green Mountain

---

### Nomination title: Green Peak by Green Mountain

Green Mountain sets the green standard being the most energy efficient datacenter in the market with 100% renewable energy and close to zero CO2 footprint. To strengthen this position we have developed a DCIM-tool both to enable our customers to optimize energy efficiency of their use of the datacenter and at the same time improve transparency and automate internal processes.

- What was the driving force behind the project – what business or technology challenge needed to be addressed?
  - o Strengthen our profile as the greenest and most energy efficient datacenter in the market (e.g. enable customers to data for energy optimizing, calculation of CO2 footprint)
  - o Increase transparency (e.g. realtime view to customer of state of their DC-environment, access to DC-Environment data for trend and capacity analyzes)
  - o Automation of current manual work processes (e.g. reporting to customer, trend and capacity analyzes, power consumption invoicing)
- How did the solution address the challenges and were there any particularly innovative aspects that made it stand out?
  - o Analytic capabilities for customers of energy consumption down to PDU-level for energy optimizing
  - o Analytic capabilities for customers of temperature, cooling and other environment data for energy optimizing
  - o Automation and real-time view and at the same time keeping all data secure
  - o Calculation of CO2 footprint (CO2 accounting)
- What major challenges were faced during the project and how were they overcome?
  - o Balancing user interface performance with integration of enough data to give customer the needed benefit. Involving end-customer in both functionality and performance testing throughout the project.
  - o Balancing user functionality with (user) security. Strong collaboration between solution developers and security through the project. Thorough testing of performance, functionality and security in parallel.
- What tangible benefits has the organisation seen as a result of the project's implementation?

- o Customer reporting delivered faster and with less manual work
- o Customer has access to operational data enabling more efficient optimizing of IT-equipment setup, energy consumption.
- o Customer gets calculation on CO2 footprint that they can use in their internal CO2 Accounting.

Green Peak offers customers access to real time and historical data about the data centre environment with 100% transparency.

### **Solution**

Green Peak builds on standard software that integrates with the data centres management system, presenting data to the customers via a standard web user interface.

### **Dashboard**

Green Peak Dashboard gives the customer real time view of the environment in the data centre. The customer can see its data centres measured PUE, temperature, humidity and O2-level.

### **Analytics**

Through Green Peak, the customer gets access to detailed historical data about the data centres performance. Data can be viewed as graphical trend data on different timeframes or as tables. With this analytical capability, customers can analyze performance data about;

- Power consumption, availability and capacity utilization
- Power Usage Efficiency (PUE)
- CO2 footprint
- Environment (room and rack temperature, humidity, O2 level)

### **Reporting**

Monthly report module automatically creates and presents a SLA-report for the data centre services delivered to the customer. Customer gets an overview of last month, and historical, performance data against SLA, making it possible to create customized reports with trends on different periods.

### **Why nominee should win**

**As the factories of the digital age, data centre colocation customers need insight to the data centres environment and performance to continuously improve efficient utilization of the data centre infrastructure.**

**Through Green Peak, Green Mountain facilitates a comprehensive analytics suite for real time location and infrastructure monitoring. The aim has been to give customers a transparent view of the data centre performance in real time, facilitate analytical capabilities, and at the same time automate processes connected to reporting and cost allocation.**