

DON'T COMPROMISE.

reliable power management
& environmental control



Racktivity

.don't compromise

As your customers are becoming more demanding and ask for strong SLA's with regards to uptime, reliability, security and billing accuracy, it becomes necessary for you and your business to implement proactive plans to mitigate and eliminate faults, failures and downtime.

In addition, corporate social responsibility guidelines ask for detailed reporting on power consumption, carbon footprint and green performance benchmarks.

Moreover, as your workload increases and your business expands, your ability to match the resources to your current business needs is seriously challenged.

Racktivity enables you to measure, manage, monitor, optimize and automate power and environmental settings of your infrastructure, empowering you to increase your customer loyalty without the need to compromise.



Uptime & reliability

Clean, continuous and uninterrupted power is the main artery of any data center. Downtime equals lost credibility, lost revenues, or even worse: lost customers. Therefore, you need continuous uptime.

Working with the most modern techniques is simply not enough to ensure full, flawless and continuous operation of your data center.

It's important that you have the right tools at hand, empowering you to monitor, analyse and – when and where necessary - (pro-actively) modify your data center assets.

Accuracy

The numbers tell the tale.

The better you measure, the better you are informed and the wiser your decisions will be. Having the capability to measure your power usage and power quality in the most accurate way possible, will give you the right tools at hand to correctly bill your customers.

Not only the accuracy but the speed at which we deliver accurate measurements are of utmost importance in a data center. Our PDUs are equipped with fast electronic fuses on the outlet level, preventing an entire rack to go down in case of one of the servers short-circuiting.

Our solutions protect your data center against downtime and maximise your reliability.

Savings

The rising cost of energy and the increased awareness for carbon footprint reductions causes many organisations to re-evaluate their data center energy efficiency.

By using the right tools to measure and understand the power usage of your servers and its applications you can identify server inefficiencies, tackle the issues and consequently reduce your energy consumption.

Also, having an accurate and tighter control over temperature and humidity results in less power required to cool your data center, reducing costs and carbon footprint.

The advanced tools for monitoring and management of equipment in remote locations allows you to reduce, diagnose and solve issues in a much faster way avoiding in most occasions expensive truck rolls and onsite visits.



Power to the people

Measure, monitor and manage your entire telecommunication infrastructures, data centers, campuses, builds, pods, rows, racks or any other type of physical infrastructure design.

.data centers

When running a data center, your biggest concerns are uptime and energy consumption. Racktivity has the solutions to help you manage these daily challenges.

Knowing what devices are consuming most of the energy and finding out where you can [save on energy](#), has a direct impact on your bottom line and [your carbon footprint](#).

With the right tools, you can identify the worst performing servers and appliances and find out where temperature is too low, enabling you to reduce your power consumption and to get a firm grip on your electricity bill.

Next to reducing your power consumption, it's equally important to be able to provide your customers with [correct billing information](#). Accuracy is a key value here.

In order to [maximize your uptime](#), Racktivity devices are equipped with unique features such as electronic fast fuse and inrush current protected relays to prevent complete racks to go down in case of a short circuit. The devices will also provide you with back-up access to your servers in case you lose your prime management connection.

Thanks to our DCPM - Our Service Provider Infrastructure & Data Center Performance Management System - you get [full visibility](#) across connected local and remote infrastructures, down to server-level.

Depending on your specific needs, our platform can provide [detailed analyses](#) such as carbon footprint, power capacity management, PUE, power consumption of each individual server, aggregated data across multiple servers/appliances and even complete data centers.

.service providers (telco operators, mobile operators, cable operators, satellite operators...)

As a telecom service provider you are concerned about [uptime of the service you offer your customers and the operational cost it takes to run your service](#). Next to this, you are most likely challenged by corporate social responsibility guidelines to [reduce your carbon footprint](#) and your total energy consumption as well as to rank high within international benchmarks with regards to [green IT](#). Racktivity provides the solutions to face and manage those challenges.

Compared to data centers, service providers have an additional challenge: remote facilities (PoP's, interconnection Points, Mobile Tower Stations, Terrestrial Transmitter Station, HUBs, Head-Ends...) not only have AC powered appliances but also DC powered appliances.

The Racktivity solutions are composed of their own developed hardware and firmware to [measure, monitor and control both AC and DC power systems as well as environmental parameters](#).

Racktivity's DCPM completes these solutions, allowing you to measure, monitor and manage your PoP's, Optical Nodes, HUB's and many other critical service locations in a centralised way.

Alongside this, integration with third party equipment gives you [full visibility on your power consumption, available capacity, temperature, potential alarms, CO footprint and indicate areas for potential savings and improvements](#).

.enterprises (banks, academic world, hospitals, industrial companies...)

Your services matter. A lot.

Data is growing at an exponential rate and more than ever, we need IT systems to deliver instant and continuous access to this information.

Therefore, 100% functional availability of your services and data is your number one priority...

Let's face it: [downtime is unacceptable](#).

Our solutions allow you to measure, monitor and control your electrical power distribution and environmental parameters within your data center in order to save on energy, protect against downtime and increase reliability of your assets.

Our DCPM software solution gives you [full visibility](#) on your electrical and environmental parameters deployed across any connected infrastructure, [down to server-level](#).

Thanks to our intelligent tools, you can [measure and visualize power](#) to help you meet your evolving targets on [power savings and carbon footprint reduction](#) as part of your corporate social responsibility.

Depending on your specific needs, our platform also provides you with detailed analyses regarding the power consumption of each individual server and appliance in a rack or data center, [allowing you to know the exact cost per application](#).

.system integrators

Every day you are being challenged to deliver green, user-friendly, reliable and most of all cost-efficient solutions to your customers.

Racktivity offers you [unique hardware components and management software](#) which integrates Racktivity's power and environmental components alongside leading third party products.

Our tools allow you to measure, monitor and manage data within your customer's infrastructure.

But where others usually stop, Racktivity continues:

Thanks to our knowledge and flexibility, we can build you dedicated hardware, firmware and software solutions allowing you to solve complex requirements within the field of power and environmental monitoring.

These unique solutions [save on power and help you deliver green, but most of all reliable solutions to your customers](#).

A close-up, angled view of a server rack. The rack is filled with blue fiber optic cables. Each server unit has a control panel with a small LCD screen displaying various graphs and data. The screens show power usage, temperature, and other metrics. The brand name 'Racktivity' is visible on the front of the units. The overall lighting is blue and white, creating a high-tech atmosphere.

Take control

A series of smart devices and one software.
A complete power management & environmental control solution for
your data center and/or telecom environment.

Racktivity offers an unrivalled set of products and features. Alongside environmental and electrical power parameters, our products continuously [measure the efficiency of your CPU and memory usage](#), indicating which servers are used efficiently versus the power they consume.

Racktivity products are composed of our own hardware components, software and firmware and integrated third party components to complete your solution and deliver [capabilities regarding visibility, monitoring and improvement across your entire infrastructure](#). Our technology platforms combined with our operational flexibility deliver a complete solution to meet the critical requirements of our global customer community.

EnergySwitch Smart PDU's

Racktivity EnergySwitch Smart PDU's equips your data center with the industry's most advanced metering and switching capability. All Racktivity EnergySwitch smart PDU's are built upon Racktivity's real-time operating system, EnergyOS™ to provide the highest degree of granular real-time PowerQuality type metrics. EnergyOS™ implements the hardware-related portions of Racktivity's EnergyDNA™ technology to [provide real-time remote PDU-level and outlet-level true RMS monitoring of current \(A\), voltage \(V\), power \(VA, W\), power factor \(%\) and energy consumption \(kWh\) with +/- 1% accuracy](#).

All of this allows you to work with current, relevant and actionable power utilization data to [make informed decisions on load balancing and managing IT assets based on event triggers and energy consumption to lower total cost of ownership](#).

The Racktivity PDU's provide you with a powerful system for energy and capacity optimisation with reliable IT asset protection, all in one unit.



.DC²Sensor and AC²Sensor

To give a total overview of your power consumption, Racktivity has complemented its product line with a new family of power meter and monitoring devices.

Our DC²Sensor and AC²Sensor can be installed at the (AC and/or DC) power distribution board or in distributed remote locations such as PoPs, base stations, and head ends.

The units both feature a DIN rail mountable design and Ethernet connectivity and supports multiple inputs for current measurements. They also support our E²Sensor range to offer a granular set of environmental monitoring including temperature, humidity and motion sensing as well as smoke detection, water leak detection under raised floors and dry contacts for rack door intrusion detection.

The sensors are [fully compatible with our DCPM, a Service Provider Infrastructure & Data Center Performance Management System](#), allowing you to [remotely monitor and manage power and critical environment metrics](#) in your data centers and/or smaller distributed infrastructures.



The sensors provide you with the missing element for a complete power monitoring solution, and solves your issues with large or distributed estates of AC and/or DC powered equipment.

With this addition, Racktivity can now provide you a complete view of the power capacity usage and gives you the tools to [analyze, simulate and reduce your carbon footprint](#).

.E²Sensor

Racktivity developed the E²Sensor Family to give you [visibility of the environmental situation](#) of your data centers and remote infrastructure.

Whether you are looking to [monitor temperature, humidity, water leakage, movement, smoke detection or other parameters](#) we have the E²Sensor available to fit your needs. The E²Sensor is designed to work with any Racktivity product featuring an R-BUS connector which includes the EnergySwitch smart PDUs, AC²Sensor and DC²Sensor.

The E²Sensor is a compact environmental sensor of 5cm (2 inches) that comes equipped with an OLED display. Deployment is simple via the standard RJ45 daisy chain connections and features multiple rack mount options. A simple push button allows instant control of all available metrics such as temperature, humidity, leak detection, motion detection, rack door close sensor, smoke indication...

The sensors are fully compatible with our DCPM, our Service Provider Infrastructure & Data Center Performance Management System, allowing you a complete monitoring and management solution of critical environmental metrics in your data centers and/or smaller distributed infrastructures.



.DCPM



Monitor and maximize your power & environmental efficiency by implementing Racktivity's DCPM.

DCPM, our [Service Provider Infrastructure & Data Center Performance Management System](#), is the [ultimate software to monitor, visualize, control and automate power and environmental parameters](#) with the goal to increase the reliability and [uptime](#) of your data center and telecom infrastructure while at the same time [reducing your opex and carbon footprint](#).

Our in-house developed software solution offers you a complete and comprehensive framework including an extensive data model to [analyse and control power and operational behaviors in real time](#).

The tight integration between the DCPM and the other Racktivity products allows you to take full advantage of a vast range of power management capabilities.

DCPM includes a highly interactive web-based user interface offering a single pane of glass across an entire estate. The platform offers you a global view allowing you to drill down to the individual power outlet or sensor and everything in between. DCPM manages entire telecommunication infrastructures, data centers, campuses, builds, pods, rows, racks or any other type of physical infrastructure design.

As of now, you have [a central, clear and complete view of your energy usages across both physical and logical groupings](#).



A photograph of a server room with rows of server racks on both sides of a central aisle. The racks are filled with server units, many of which have colorful indicator lights (red, green, blue, yellow) glowing. At the end of the aisle, there is a white door with a green exit sign above it. The ceiling has recessed lighting fixtures. The overall lighting is dim, with the primary light source being the server lights and the exit sign.

Optimise

Link power statistics with CPU statistics to identify & eliminate inefficiencies, potential hazards and demand response automation capabilities.

Contact

+32 9 324 20 90 (CET time)
info@racktivity.com
www.racktivity.com

Antwerpsesteenweg 19
9080 Lochristi
Belgium

