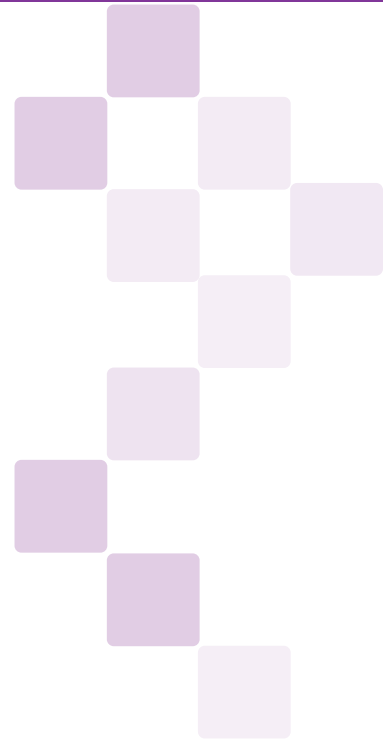


EBOOK

5 Ways DCIM Software Supports EU Green Deal Compliance



Sunbird[®]

DCIM that's easy, fast, and complete

Introduction

In the face of climate change, the European Green Deal aims to transform the EU into a leading example of sustainability in which economic growth is uncoupled from resource consumption.

The European Commission has recently approved a set of proposals with the goal of reducing EU greenhouse gas emissions by at least 55% compared to 1990 levels by 2030. Additionally, they aim to make Europe the first climate-neutral continent by 2050.

Data centers are one of the world's leading consumers of energy. As regulations like the EU Green Deal, EU Code of Conduct for Data Centers, and EN 50600 gain momentum around the world, data centers must actively contribute to a greener future by reducing their energy consumption.

Organizations are now required to report on their data center energy consumption, develop an energy reduction plan, and implement measures to achieve energy savings and sustainability goals, and many data center managers don't know where to start.

However, there is a path forward with Data Center Infrastructure Management (DCIM) software.

Modern DCIM software supports many of the requirements of these regulations and offers ancillary benefits including:

- Real-time monitoring
- More efficient facilities
- Reduced energy consumption
- Compliance reporting
- Cost savings

If your organization must comply with the EU Green Deal or other sustainability initiatives, keep reading to learn why DCIM software is an important tool for the next generation of green data centers.

1. Real-time monitoring

Power and environmental measuring and monitoring lays the groundwork for sustainable data center operations. Monitoring serves as the eyes and ears of your data center so you can know what's happening in any site without leaving your desk. It transforms your raw data into actionable insights, drives smarter decision-making, and makes energy reporting easy.

Modern DCIM software is designed to monitor the granular data generated by outlet-metered intelligent rack PDUs with sensors. It can collect 500 data points per rack per minute and is field-proven to collect more than 11 billion data points a day to give you the information you need to comply with regulations.

DCIM software meets EU Green Deal requirements by providing:

- **Energy metering.** Metering incoming energy and IT energy consumption is required by the EU Green Deal. DCIM software automatically collects the live measured readings from your rack PDUs, RPPs, floor PDUs, branch circuits, busway tap boxes and end feeds, UPSs, and building meters. It then stores that information for long periods of time for reporting and analysis purposes. You can also understand energy consumption at all the key points in the power chain where people make decisions to reduce energy consumption.
- **Environmental monitoring.** DCIM software monitors critical environmental parameters such as temperature, humidity, and airflow. Setting thresholds and automatic alerts on environmental sensors enables you to rapidly detect deviations from optimal conditions such as overcooling, hot spots, a humid environment, or inadequate airflow. You can then proactively remediate any issues before they cause additional problems like reduced equipment lifespan or energy waste.

“Currently monitoring over 1k devices/sensors across the United Kingdom with ease.”



John H., Data Centre Specialist

 FROM THE EXPERTS:

“Data center team knows more about the rooms, climate, and power consumption than our facility management.”



Dirk Schröder, System Engineer

2. More efficient facilities

Recovering stranded capacity and getting the most out of your existing facilities drive sustainability by reducing resource waste and deferring expansions. Building and maintaining a data center is energy-intensive. Deferring building your next data center, potentially indefinitely, provides a significant reduction in your overall carbon footprint.

DCIM software helps you maximize resource utilization of existing capacity via:

- **Automatic device power budgeting.** “Auto Power Budget” is a machine learning algorithm that enables you to deploy more servers in your existing cabinet resources. With live data from outlet-metered intelligent rack PDUs, it automatically calculates and updates a highly accurate power budget number for each server instance based on its actual load in your environment. Using this feature, Comcast was able to get 40% more utilization out of their existing resources. [Read the case study.](#)
- **What-if analysis.** Simulate one or more projects to determine the impact that adding new equipment or changing existing configurations will have on your rack space and power capacity. This predictive modeling lets you know if you can leverage existing resources for your next project instead of purchasing more.
- **Intelligent capacity search.** In seconds, find the optimal cabinet to deploy new equipment in. Simply search for the model you’re deploying and get a list of all the cabinets with the available space, power, and connectivity capacity for it. Then, you can easily reserve those resources all at once.
- **Correlated capacity reporting.** Get a holistic 2D or 3D view of rack capacity across multiple parameters including space, power, and cooling. Visualize where resources are underutilized or unevenly distributed to help make more informed decisions to redistribute workloads, consolidate servers, or reconfigure equipment layouts to maximize energy efficiency.
- **Zero-configuration analytics.** Pre-configured capacity dashboards with real-time gauge charts by resource type let you know your available capacity at a glance.
- **Built-in power chain intelligence.** Understand the power load and capacity at every hop in your power chain to ensure you can deploy more equipment without tripping a breaker upstream.

“From an ROI perspective, [Auto Power Budget is] massive for us. We’re getting 40% more usage out of our facilities and power sources.”



Michael Piers, Senior Manager DCIM/Tools

FROM THE EXPERTS:

“With Sunbird’s DCIM software we now have an up-to-minute picture of capacities in all our data centers in terms of power, space, networking, and cooling. As a result, we are able to track our data center capacity more accurately and assess our infrastructure needs for the future.”



Joe Keena, Manager of Data Center Operations

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