

Power Usage Effectiveness (PUE) Site Assessment

The Modius PUE Site Assessment provides an on-site audit of all power generation and distribution equipment and defines a plan for data collection so an accurate PUE measurement of the data center can be reported.

Why you need to know your PUE!

With a mandate to reduce data center spending by \$1.36B over the next 3 years and Executive Order #13693 calling for a reduction in greenhouse gas emission by 40% over the next decade, the Federal government is serious about the impact of its 11,700+ data centers.

Every agency is now required to install instrumentation to measure PUE in every data center not subject to closure. All remaining data centers must have a PUE lower than 1.5 by September 2018.

Managing and assessing energy performance requires the use of PUE metrics, and metering is needed to provide the data. Tracking and managing data can inform decision makers in the following ways:

- It helps organizations identify abnormally high or low energy usage and potential causes.
- It allows organizations to quantitatively assess and benchmark data center performance.
- It helps organizations track and manage energy costs, verify energy bills, and prioritize, validate, and reduce energy costs.
- It helps organizations develop and validate energy-efficiency strategies and identify opportunities to improve usage.
- It provides energy performance metrics which can be used to detect faults in physical systems and diagnose their causes.

A PUE Site Assessment will help data center owners and operators plan the implementation of a metering system that allows their organizations to gather the necessary data for required OMB Reporting and energy-efficiency improvements.

The end result of the PUE Site Assessment is a Implementation Report providing detailed, step-by-step instructions for implementing metering to gathering the data need to produce mandated PUE metrics for the data center.

Why use Modius for a PUE Assessment?

Our service personnel have decades of experience designing equipment integration strategies for every make and model of power generation and distribution equipment. This experience provides the following benefits:

- Faster plan generation for an affordable price
- Comprehensive, vendor agnostic recommendations
- Least cost approach to achieving mandated PUE reporting
- Optional Implementation support after assessment audit

PUE Assessment Deliverables



Audit and Assess Metering Strategy for all Power Generation/Distribution Infrastructure



Audit IT Power Consumers and Assess Power Metering



"How To" Guide for implementing PUE Metering

PUE Assessment Purchasing Details

Modius will provide an on-site assessment to determine the appropriate instrumentation approach to achieve PUE L1C metrics.

- **Site Audit** - Verification of network connectivity and device specific data for metering integration. (Verification of Electrical One-lines, Make, Model, Serial #, Comm Options, Site Analysis, Gap Analysis)
- **Customer Deliverables** - Research and Documentation of Target Devices, Design Recommendations for PUE Monitoring, Detailed Gap Analysis, Implementation Report for PUE Metering in the facility, Inventory of Infrastructure relevant to PUE, PUE Point Inventory with Source, Green Grid Formula for converting Power to Energy, L1C and L2C Evaluation, DCEP Certification
- **Price** - Call for Pricing

Additional Products & Services

Modius provides GSA mandated DCIM software and services

OpenData Enterprise Edition - SaaS or On-Premise

- Real-time Device Monitoring
- Asset Management
- Power Capacity Management
- Environmental Management
- Multi-Site Installations
- Advanced Analytics
- Control system integration
- Networked & serial devices

Professional Services:

- Pre-implementation Site Assessments
- Solution Technical Architecture Design
- Controls Network Design
- Hardware Agnostic Device Integration
- Software Installation and Configuration
- Training
- Post-implementation site analysis

Past Performance



Client: **Wells Fargo**
Project: Global roll-out of centralized monitoring and analytics solution for 28 Data Centers.



Client: **Cologix**
Project: 27 Site roll-out of data center infrastructure management for co-location operations.



Client: **365 Data Centers**
Project: OpenData solution provides real-time power monitoring and metering for customers of this co-location provider

Company Profile

Founded in 2004, Modius, Inc. is a leading provider of management information systems for optimizing data center and facility infrastructure and operations. Modius develops and commercializes real-time monitoring and analytic solutions that enable unified visibility and better control over the critical facility infrastructure, including power, cooling, and network equipment. Modius' mission is to simplify the operations of increasingly diverse and complex facilities and IT environments, while markedly improving performance efficiencies.

The Modius flagship product, *OpenData*, monitors all power-distribution, cooling and environmental sensor equipment from a single console, providing comprehensive Real-time Operational Intelligence (RtOI) for unified performance analysis and metrics. OpenData captures and stores device health, environmental and energy-consumption data from a broad range of site infrastructure devices and sensors, providing real-time monitoring for building and facility infrastructure, data centers, call centers, server closets and mechanical yards.

Codes & Certifications

DUNS Code - 148414126

NAICS Codes – 541511, 541512, 541519, 541350, 238210, 518210, 511210

CAGE Code - 5CJ70

SAM.gov website registered

Veteran Owned Small Business (VOSB)

Core Competencies

Modius provides software and services designed to help data centers and facilities operate more efficiently.

- Infrastructure Monitoring
- Asset Management
- Big Data Analytics
- Capacity Planning
- Environmental Management
- Internet of Things (IoT)

Contact your Modius representative for more information about how a PUE Site Assessment can accelerate the steps needed to improve energy efficiency in your data center and comply with mandated PUE reporting.

Modius Inc.
71 Stevenson Street #400
San Francisco, CA

sales@modius.com
www.modius.com
(888) 323-0066