EKVERIFICATION ™ Energy Management System
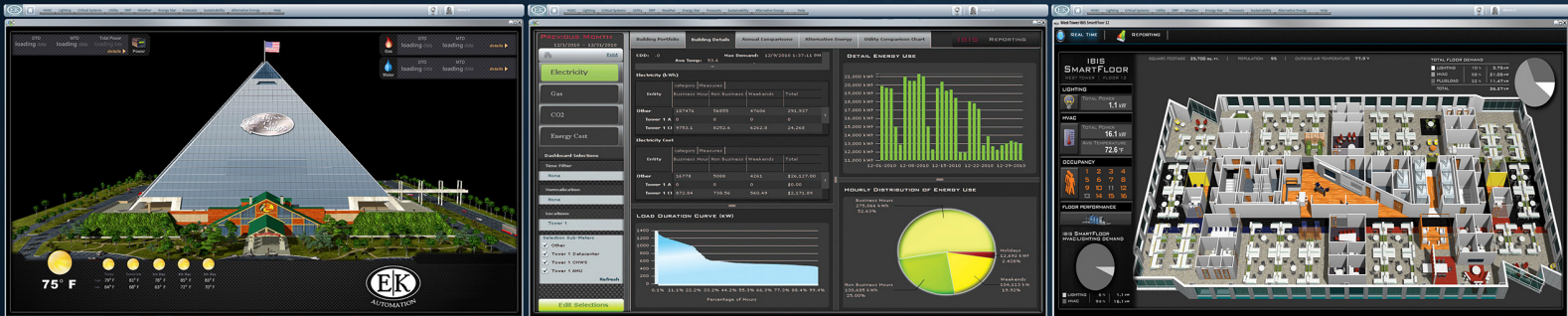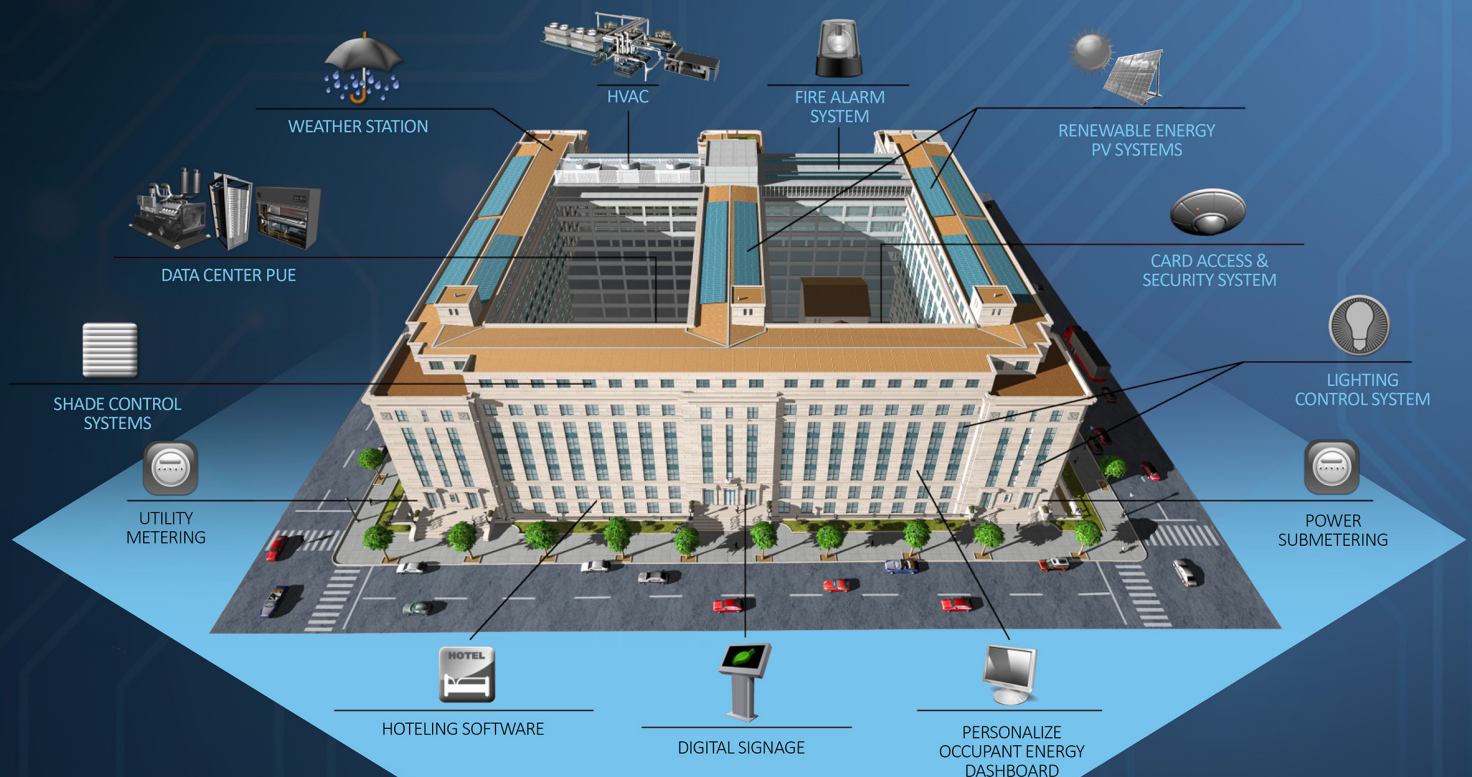
The smart path to smarter buildings.

powered by IBIS

EKVERIFICATION™ powered by IBIS (Intelligent Building Integration Software) is the most advanced Energy Management System on the market.

WEATHER STATION

HVAC

FIRE ALARM SYSTEM

RENEWABLE ENERGY PV SYSTEMS

DATA CENTER PUE

CARD ACCESS & SECURITY SYSTEM

SHADE CONTROL SYSTEMS

LIGHTING CONTROL SYSTEM

UTILITY METERING

POWER SUBMETERING

HOTELING SOFTWARE

DIGITAL SIGNAGE

PERSONALIZE OCCUPANT ENERGY DASHBOARD

GSA

GSA Headquarters
1800 F Street, Washington DC
Smart Building Powered By IBIS

ibis

The business of managing buildings has never been more complex. You've got multiple systems from a myriad of vendors, each with its own set of communication protocols, monitoring, controls and reports. You're tracking utility meters, data centers, HVAC, lighting, plug loads and occupancy - in one building or in a dozen buildings around campus or across the country. And the stakeholders in your company need you to provide real-time reports of information that will help them achieve their mandates - all of which are different. The whole thing is enough to get you lost in a forest of spreadsheets.

A picture is worth a thousand spreadsheets. Introducing EKVERIFICATION powered by IBIS, the smart path to smarter buildings. View your entire enterprise's global real-time energy usage in one exquisite graphic - or zoom in and check the plug load in a single office. Collaborate with colleagues around the globe, communicating information in dazzling visuals that get everyone on the same page quickly. Customize EKV to your needs, building out at your own pace as your enterprise and budget grow, with a variety of modules that show you exactly what you need to know when you need to know it. Receive notification of costly energy anomalies the minute they happen - and fix them from wherever you are, even if you're halfway around the world. And confidently showcase your minimized footprint and savings with reliable, verifiable data.

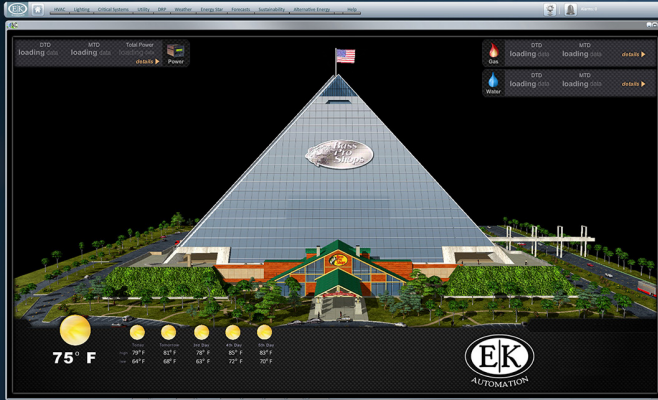# It all begins with the Base Energy M&V Platform:

Energy Dashboard in Real-Time

Energy Distribution

Continuous Measurement & Verification

Weather Station
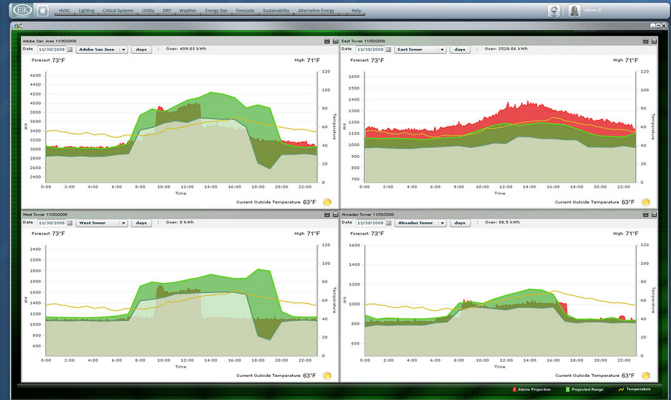
Energy Reporting and Analytics

EKVERIFICATION™ powered by IBIS - Base Energy M&V Platform
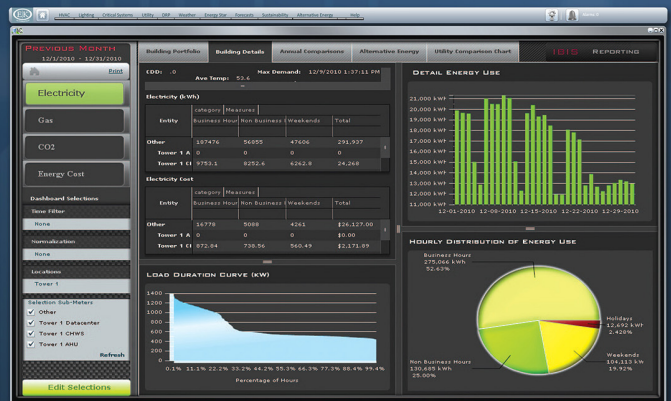
ENERGY DASHBOARD IN 'REAL TIME"

CONTINUOUS COMMISSIONING

ENERGY DISTRIBUTION MODULE

ENERGY REPORTING & ANALYSIS

Get started on the path.

The first step on the path is Base Energy M&V Platform, which includes all the browser-enabled tools you need to understand the real-time operation of your facility today and predict its performance tomorrow. EK VERIFICATION Base Energy M&V Platform provides the critical information necessary to optimize operations – powerful trending, fault detection-based alerting, weather normalization and building performance and reporting – and identify immediate opportunities for savings.

EK VERIFICATION's Base Energy M&V Platform is easy and affordable, with tiered pricing for multiple buildings. All you need to begin gaining control of your energy consumption is one real-time meter. Don't have one? We can arrange for cost-effective purchase and installation. As your needs, budget and/or enterprise grows, tailor EK VERIFICATION powered by IBIS to your strategic mandates either by adding on additional Base Energy M&V Platform to other buildings or campuses, or by picking and choosing from among our ever-growing number of modules.

EK VERIFICATION powered by IBIS is an integrated system of modules that enable users to monitor and control various pre-set and user-defined parameters. Save money on a package that meets your needs, or mix and match individual modules. Add some now and others later. It's up to you.

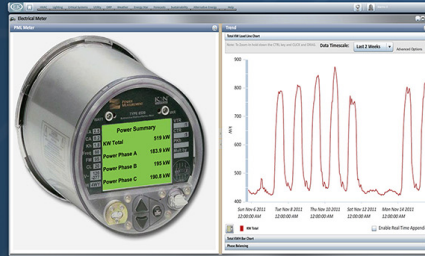# The Smart Floor Module

ENERGY

LIGHTING

HVAC

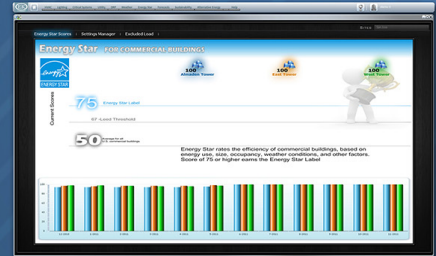# EKVERIFICATION™ powered by IBIS - Additional Modules
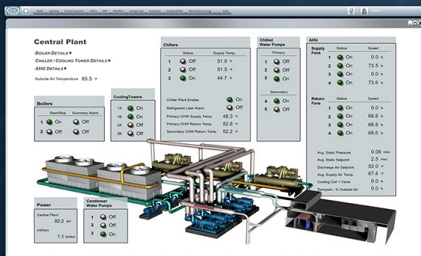
Smart Floor

Tenant Utility Billing

Energy Star Module

Central HVAC Plant

Auto Demand Response
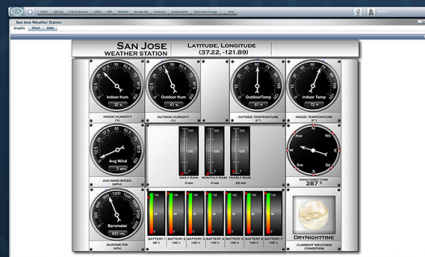

Lighting Module

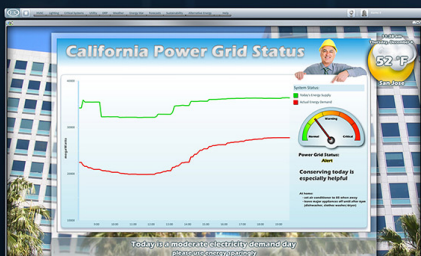
Occupancy Floor

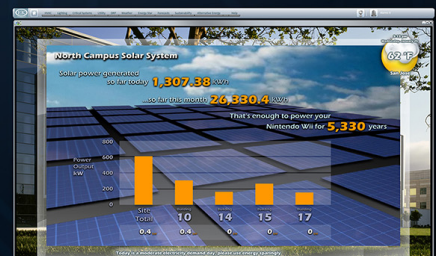## Weather Station

Data Center Module

Green Awareness

Carbon Emissions

Renewable Grid Tracking

The Smarter Classroom

CAMPUS DASHBOARD

GREEN AWARENESS

CLASSROOM OCCUPANCY

EK**VERIFICATION**™ powered by IBIS - Integrates to Existing & Future Systems

SOLAR ENERGY	SCHNEIDER	MOM	ALERTON	AUTOMATED LOGIC	EATON
SIEMENS	JOHNSON CONTROLS	NOVAR	DELTA CONTROLS	ABB	LUTRON
TRANE	ALBER	HONEYWELL	ALERTON	DATA AIRE INC.	NAGIOS	LIEBE
WATT STOPPER	KOHLER	BLOOM ENERGY	CUMMINS	TREND	TRIDIUM

Integrate your systems. Improve your vision.

EK Verification is a holistic, comprehensive suite of modular software and expert services that integrates all your existing and future systems and provides you with real-time, easy-to-understand visual overviews of your enterprise's energy usage. It streamlines the information you need and takes automated commissioning to a whole new level. EK Verification is designed as an open-protocol, vendor- and technology-agnostic software platform. This means we can integrate your entire systems portfolio. The result? Improved productivity and opportunities for big savings. Fast.

The antidote to complexity.

Whether you have one building or 20 campuses spanning the globe, EK Verification streamlines your energy systems' management and reporting. It provides building commissioning and gives you real-time actionable information in a graphically rich, intuitive interface – no more wading through spreadsheet after spreadsheet of extraneous data from disparate systems. Startup is fast and affordable, and you can immediately begin seeing opportunities for savings. As your enterprise and budget grow, choose from a wide variety of macro-to-micro and need-based modules and build out at your own pace.
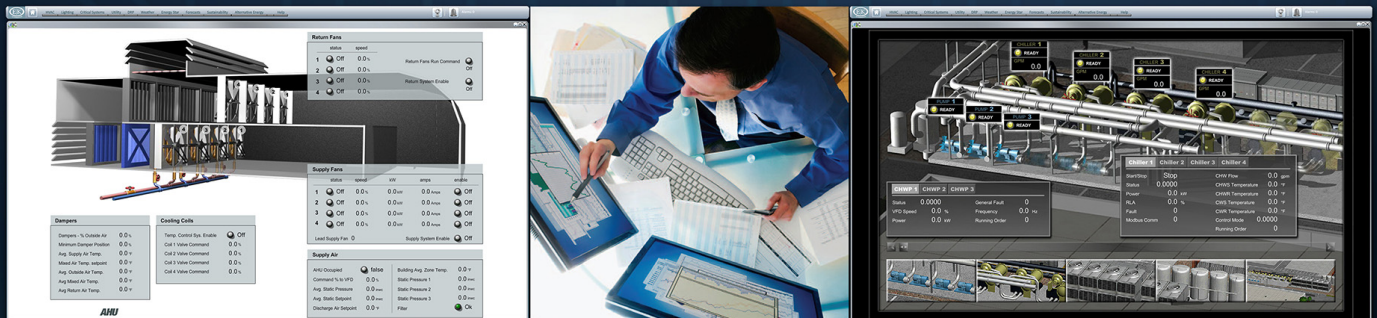
We Make **Buildings Work.**™

All company names, brands and trademarks are the properties of their respective owners.

Dynamic HVAC Graphical Interface

CENTRAL PLANT

3D ANIMATED GRAPHICS

SMART FLOOR ZONING

EKVERIFICATION™ powered by IBIS - Can Help you Qualify for up to 36 LEED EB Points

LEEDing the way. EK Verification powered by IBIS is at the forefront of sustainable technology, both in achieving a world in which businesses are smarter about energy and in leading-edge research about smart buildings. NASA chose IBIS to be part of Sustainability Base, one of the greenest buildings in the U.S. Federal government. IBIS is an integral part of building operations and control as well as the government's research into creating smarter buildings.

Adobe is partnering with IBIS to research smart-building technologies, including monitoring and control of zone-level energy cost centers, improving natural resource utilization, and developing tools to encourage corporate clients to practice energy conservation. In addition, Vantage Data Centers has chosen IBIS as its energy management system of choice for its next-generation LEED Platinum data centers.

"IBIS visually and analytically provides operational transparency from the utility power down to the applications our customers rely on. IBIS allows us to understand and share our aggressive energy efficiency optimizations in an intuitive yet granular manner." – Jason Green Director, Vantage Data Centers

EKVERIFICATION™ for Facilities is Customizable, Scalable & Expandable

MODULES	BASE ENERGY M&V PLATFORM	MASTER EK VERIFICATION
Building Energy Dashboard	☀	☀
Sustainability Reporting	☀	☀
M&V (Measurement & Verification) Reporting	☀	☀
Weather Station	☀	☀
Building Performance	☀	☀
Utility Metering	☀	☀
Smart Floor		☀
HVAC		☀
Lighting		☀
Plug Load		☀
Demand Response		☀
Energy Star		☀
Critical Systems		☀
Green House Gas Reporting		☀
Alternative Energy		☀
Green Awareness Dashboard		☀
Occupancy Based HVAC Metrics		☀
Tenant Energy Allocation Billing		☀

EK VERIFICATION powered by IBIS is designed to meet or exceed industry standards, including LEED & Energy Star.

A Greener Planet

CARBON EMISSION REPORTING

RENEWABLE TRACKING

North Campus Solar System

Solar power generated
so far today **1,307.38** kWh

...so far this month **26,330.4** kWh

That's enough to power your
Nintendo Wii for **5,330** years

5:13 pm
Wednesday, January 25
62 °F
San Jose

| | Site Total | Building 10 | Building 14 | Building 15 | Building 17 |
| Power Output kW | **0.4** kw | **0.4** kw | **0** kw | **0** kw | **0** kw |

Today is a moderate electricity demand day, please use energy sparingly

ENERGY STAR MODULE

Energy Star Scores | Settings Manager | Excluded Load

Sites San Jose

Energy Star FOR COMMERCIAL BUILDINGS

ENERGY STAR

Current Scores

100 Almaden Tower

100 East Tower

100 West Tower

75 Energy Star Label

67 -Leed Threshold

50 Average for all U.S. commercial buildings

Energy Star rates the efficiency of commercial buildings, based on energy use, size, occupancy, weather conditions, and other factors. Score of 75 or higher earns the Energy Star Label

Get on the right path towards a Smarter Building today.

Contact us to learn more about EK Verification powered by IBIS and schedule a live demonstration.

From our Command Central in Hernando, MS we can show you in "real-time" some of the world's

smartest most energy efficient buildings.

E|K
AUTOMATION

We Make Buildings Work™

INTEGRATION | MOBILIZATION | VERIFICATION

901.654.2394 | ekautomation.com