



Revolutionize the way you run your Facilities



Interval Data Systems (IDS) offers a revolutionary approach for the business of facilities operations. An approach that enables facilities leaders to effectively increase their budget. This “found money” provides new budget to direct operations to do what you want to do.

You’ll find additional budget by reducing energy consumption, design engineering labor, and commissioning time. You’ll also be able to reallocate labor for HVAC technicians, IAQ technicians, field mechanics, mechanical/electrical technicians, etc. Construction managers get to reallocate budgets, as mechanical systems costs are reduced because of more optimal design.

Major Advancements in Access to Operational Data

How does IDS enable significant business productivity increases? By providing major advancements in access to operational data from control systems, metering systems, utility systems, and space planning systems. IDS typically improves access by *two or three orders of magnitude*. That means big productivity gains for many day-to-day tasks in facility operations. No other facilities vendor focuses on your business problems like IDS.

To quantify the financial benefits, IDS provides a five-year Total Cost of Ownership model, which quantifies both direct expense savings and funds made available for reallocations. Additionally, there are many non-financial benefits to IDS’s approach. To list just a few:

- Increase customer satisfaction
- Provide new ways to show departmental credibility
- Enhance processes for preventative maintenance, handling hot/cold calls, etc.
- Improve engineering design quality
- Enable operations to far better exploit capabilities in the control and metering systems

Solving Business Problems Requires More Understanding, Not More Control

While control companies have continuously upgraded their product lines, migrated to newer technologies, and started embracing Information Technology (IT) standards, the products remain

control systems (increasingly complex applications). Collecting and managing system data to meet user needs is a different business issue and separate technical challenge.

Applying IT standards isn’t enough—you have to embrace *information*, not just technology. Information, and the understanding it provides, allows you to take an entirely new approach to managing facilities operations. Everything changes—priorities change, decisions change, and existing plans are replaced by new plans based on engineering facts previously unavailable.

Interval Data Systems conceived and designed EnergyWitness™ for the purpose of collecting *all* operational data into a **EnergyWitness™** centralized warehouse Data. Collect It. Use It.

for the purpose of understanding, in detail, how HVAC and building systems actually operate, and using that information to solve many business problems that confront facilities organizations today.

Converting Raw Operational Data into Actionable Information

EnergyWitness collects data from every point available within the facility on a 15-minute basis. This can exceed 100,000 points for large buildings/campuses. The data is collected from the control system, meters, utilities, space planning systems, and external weather sources. Users interact with the data, which is presented in informative trend charts and graphs showing operational details and cost data.

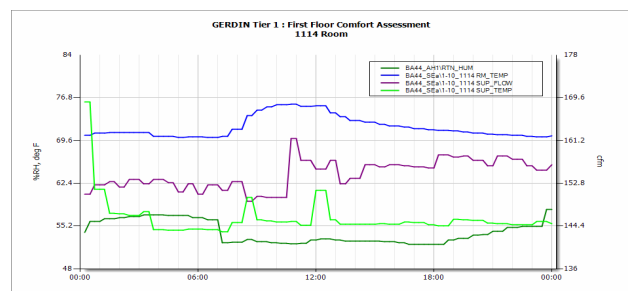


Figure 1: Trend chart showing Room Comfort Assessment (supply air temp, room temp, humidity, air flow)

Building	Control Point	Eng Unit (0)	Eng Unit (1)	Time of Last Change	Value
GERDIN	BA44_AH1IRF1_STS	Off	On	8/14/2005 12:45 PM	On
GERDIN	RETURN FAN STS-ct	Off	On	8/14/2005 12:45 PM	On
GERDIN	BA44_AH1ISF1_STS	Off	On	8/14/2005 12:45 PM	On
GERDIN	SUPPLY FAN STS-ct	Off	On	8/14/2005 12:45 PM	On
GERDIN	BA44_AH2IRF1_STS	Off	On	8/17/2005 11:30 PM	Off
GERDIN	RETURN FAN STS-ct	Off	On	8/17/2005 11:30 PM	Off
GERDIN	BA44_AH2ISF1_STS	Off	On	8/17/2005 11:30 PM	Off
GERDIN	SUPPLY FAN STS-aux	Off	On	8/17/2005 11:30 PM	Off
GERDIN	BA44_AH3IRF1_STS	Off	On	8/17/2005 6:00 PM	Off
GERDIN	RETURN FAN STS-ct	Off	On	8/17/2005 6:00 PM	Off
GERDIN	BA44_AH3ISF1_STS	Off	On	8/17/2005 6:00 PM	Off
GERDIN	SUPPLY FAN STS-aux	Off	On	8/17/2005 6:00 PM	Off

Figure 2: Binary data report showing fan status (on/off) for all fans in the building

The reports and graphs in Figures 1, 2 & 3 show three of the standard data presentations—trend data, a report for binary values (on/off, normal/alarm, occupied/unoccupied, etc.), and hourly operating cost data from a chiller plant.

Warning: don't try this with your control system—it is not designed to give you information, it is designed to control. EnergyWitness is designed to give you information, two or three orders of magnitude faster than any other way. You can't achieve tangible business gains unless you can access the data that fast.

Unprecedented Access to Data

There are several important concepts to understand with IDS's definition of "access to data," they are:

1. All the data must be available all the time. This includes analog measurements (temperature, pressure, flow, power), set points, percentages, binary points (on/off status, forward/reverse, clean/dirty, occupied/unoccupied, etc.), dollars, and descriptions/specifications.

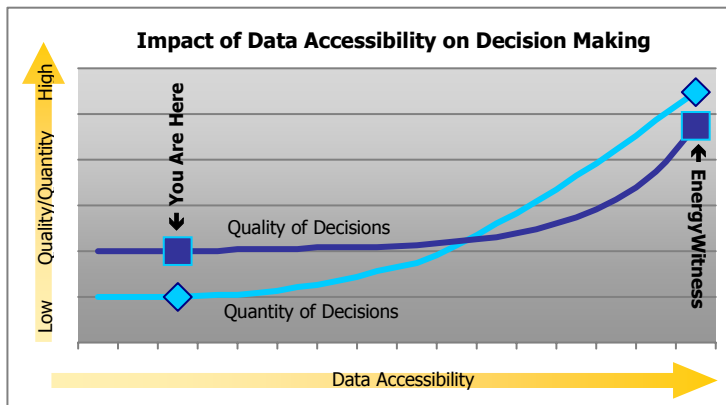


Figure 4: As data accessibility increases, engineering decision quality and quantity rise. Data accessibility means that all of the data is available, organized, and can be retrieved within seconds of when the user needs it.

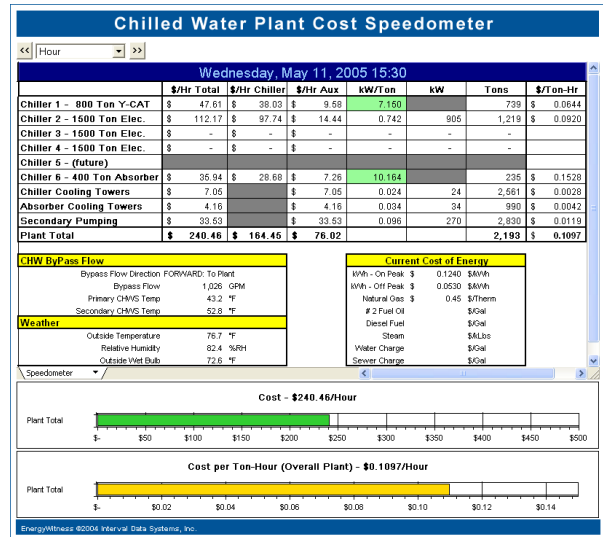


Figure 3: Chiller plant cost speedometer provides hourly operating costs whole plant and each component

2. All the data must be organized in hierarchical structures, with multiple views to serve a large population of users within facilities and outside of facilities.
3. Users must be able to display the data they want in a few seconds.

If the system does not meet these three requirements then users will not use the information in their decision making process. Figure 4 shows how access to data affects both the quantity and quality of decision-making. "You Are Here" is where the current technology stands for BAS and metering systems. The facilities world simply does not have enough access to operational information to make better decisions or to act as quickly as required by evolving business needs.

IDS can put you back in control of your facilities by making the information available to change how you operate, create new budget, and enable you to accomplish those things you've always wanted to do.



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