

# Enterprise Insights resource planning

MAY 2018

ERP Solutions for Smart Enterprises

## COZY INFOSYSTEMS

APPLYING  
PROGRESSIVE  
SOFTWARE FOR  
IMPRESSIVE  
RESTAURANT  
MANAGEMENT

### IN MY OPINION

Gaurav Burman,  
VP & Country President,  
India, 75F

### CEO INSIGHTS

Shantanu Kwatra,  
Founder,  
3Dexter

JAYAGOPAL THERANIKAL  
FOUNDER & CEO



# Employee Productivity and the Smart Building

By Gaurav Barman, VP & Country President, India, 75F

Gaurav Barman spent 20 years of his life in Sales and worked with companies like PCL, IBM, L&T, APC, and Schneider Electric and then moved to marketing. A Civil Engineering graduate from The Thapar Institute, Patiala, Gaurav holds MRA in Marketing from XLRI, Jamshedpur and he was recognized as one of the 50 Most Talented CMOs in India in 2013, and one of the 100 Most Talented CMOs in the World by the US-based CMO Council.



Every day I talk with facility heads and facility managers from different companies. We talk about their plans and aspirations for their facilities. We talk about bottlenecks in achieving these goals and the possible resolutions. We talk about making the shift from investment-led on facility management to contributing to the company's bottom line.

One topic that comes up over and over again with most of these facility managers is 'building a work environment that makes employees productive and healthy.'

As Mr. Mahesh Ramamuraj, President and Chief Executive Officer at U.S. Green Building Council, aptly summarized at the Green Building Conference in Beijing, "There is no deep mystery about how to create healthier spaces. But it does require diligence and attention to detail: the key components of healthy space have everything to do with creating space not for itself, but for people." I couldn't agree more! Employees have to be at the heart of how a building operates, and a healthy, productive workplace is one that is consistently monitored, managed and controlled.

A healthy office environment has many dimensions; from the ever-changing environment-based attributes such as good indoor air quality, thermal comfort, lighting and sound to static attributes such as high-quality views, location and amenities. Studies show that each of these aspects significantly impacts employee health, cognitive abilities, problem-solving capabilities, concentration, and ability to innovate. For e.g. as US Green Building Council points out, "Studies show that small changes such as improved ventilation will boost the productivity of workers by 11% while better lighting will spark a whopping 23% jump in efficiency."

But how does today's already-stretched, short-on-resources facility manager keep track of so many resources? How does he/she ensure that each aspect of the facility is continuously monitored, managed, and controlled?



## Energy Consumption in Commercial Buildings



40% of the world's energy is consumed by buildings. 67% of the energy consumed in buildings is wasted.

## The energy crisis



## Smart savings



Saves up to 40% on energy bills

## Smart Systems That Impact Work Output

Enter Smart Workplaces. A smart workplace can optimize all the various dimensions of the workplace keeping the employee at the heart of the strategy. Smart workplaces take the benefits of IoT to a whole new level, providing and consuming information efficiently.

Take for instance how 75F's Building Intelligence System uses IoT and smart algorithms in the cloud to not only monitor energy consumption, but uses the input from these sensors to proactively adjust HVAC and lighting settings for maximum employee efficiency and increased energy savings. Sensors detect which part of the building gets the most amount of sunlight in real time and directs the HVAC system to improve the cooling in those areas. Similar sensors can tell if a room is flooded or if it is unoccupied. Based on these inputs, the system can decide which areas need more or less cooling.

The birth of IoT and cloud computing allow us to build predictive, proactive systems that make commercial buildings intelligent enough to keep employees more comfortable and productive.

Using existing HVAC machines and conduits, 75F's system can be layered on top to optimize maximum efficiency. Sensors placed in and around the building can plug into weather forecasts and real-time scenarios to send feedback to the system about which areas require more or less cooling due to external conditions.

Our system learns a building within a week, and proactively knows when lights should come on or when to cool the building, or merely a part of it.

## The Boost in Employee Productivity

It's a well-accepted fact that a healthy, happy workforce is a crucial component of a productive, successful business. With 90% of businesses' operating expenses typically assigned to employee costs (including salaries and benefits), it follows that a modest difference in employee health and productivity can have significant financial implications for the business.

## Thermal Comfort & Productivity

Did you know nearly 80 percent of the employees complain about temperatures at their workplace and approximately 29

percent have confessed to taking longer breaks just to escape uncomfortable temperatures? As per a recent study, if your office is too cold, your employee output comes down by nearly 50 percent and if your office is too warm, the attendance drops by 18% and project turnaround times increase by 13 percent.



## Optimal Lighting for Happy Employees

Studies have shown that lighting has a huge impact on circadian rhythms, which is why your employees might not be as efficient as you'd like. A slight tweak in your workplace's lighting and getting it to coordinate with the day part could reduce drowsiness, improve an employee's ability to focus, improve the mood of the workplace and most importantly improve employee concentration by nearly 37%.

## The cost of improved air quality

Air is a basic human need, but it's really the quality of air that is vital. It's common knowledge that poorly ventilated offices could be causing your employees to be sluggish, unproductive and sick? In other words, poor air quality could be diminishing your business' bottom line!

## In conclusion

The birth of IoT and cloud computing allow us to build predictive, proactive systems that make commercial buildings intelligent enough to keep employees more comfortable and productive. Whether, it's one facility or hundreds, it's important to understand how a building behaves. One cannot manage what is not monitored. A smart system enables the facility manager to see into the building from anywhere on the planet, thanks to cloud computing and IoT. After all, a well monitored, managed, and controlled workplace translates in to a productive, happy workforce. ERP