

MUMBAI STATE CENTRE

Breakfast with Light 14

July 28, 2013, Mumbai

*Subject:* KNX for Lighting Controls & Energy Conservation - A Case Study of Delhi Airport

*Speaker:* Mr. Bhavesh Doshi, CEO, Entelechy Systems.

Whether in a single-family house or in an office complex, the demand for comfort and versatility in the management of air-conditioning, lighting and access control systems is growing. At the same time, the efficient use of energy is becoming increasingly important. More convenience and safety, coupled with lower energy consumption can however only be achieved by intelligent control and monitoring of all products involved. In order to transfer control data to all building management components, a system is required that does away with the problems of isolated devices by ensuring that all components communicate via one common language: in short, a system such as the manufacturer and application domain independent KNX Bus - the Worldwide Standard for Home and Building Control. The speaker presented a case study of Terminal 3 - Delhi International Airport where KNX has been used to provide an efficient lighting system consisting of 100,000 light fittings which are switched and dimmed in perfect coordination using light sensors, brightness sensors, presence sensors, logic control components and central management with visualisation thus providing energy conservation, safety and comfort. Terminal 3, which has a handling capacity of over 10,000 passengers per hour, posed a lot of unforeseen challenges due to the dynamic nature of various zones but these were successfully met with a final energy saving of around 25%.