

A nighttime photograph of the Dubai Mall and Burj Khalifa. The Burj Khalifa is the tallest building, illuminated with lights. The Dubai Mall is a large, modern building with a facade of lights. In the foreground, there is a fountain with water spraying upwards, illuminated with blue lights. The sky is dark blue.

Addressing the
unpredictability of
energy metering &
invoicing at the
Dubai Mall

**CASE
STUDY**

ENETRIC
Insights • Intelligence • Integration



Largest mall in the world by total land area

26th largest by gross leasable area

5.9 Million square feet of internal floor area

1,200 Shops

54 Million visitors each year

22 cinema screens, 120 restaurants and cafes

14,000 parking spaces across 3 car parks

Need

Remove unpredictability of metering & invoicing by:

- Monitoring power consumption of over 1200 stores centrally
- Predicting the amount of power required to match supply with demand
- Deducing the when, where and the amount of maximum power consumption during any given day
- Allocating the right electricity charges to the individual stores



Implementation Constraints

Shutdown time of
electricity in the shops

High security to enter
the mall

Locating the Sub Main
Distribution Boards



Solution framework

Formulating an energy management program that could coordinate the HVAC and lighting control systems together with an equipment maintenance program by setting up:

- Centralised monitoring station with Johnson Control's customized software
- Smart metering dashboard
- Server with capability to store consumption data for 6 months

With:

- 10 Supervisory Controllers
- PMU meters with CTs



Benefits/Results



Users can now

- Check the utility of PMU in each shop
- Generate report and billing
- Deduct unusual changes in readings
- View logs and history
- Set up and manage alarms
- Perform advanced searches
- Manage networks easily



Thank
Get Enetrified.
You!