

H&M RETAIL CASE STUDY

H&M partnered with 75F to increase energy-efficiency across 10 stores in 8 cities. Within two months of installation at Kolkata store 75F solution has provide 11.9% of energy saving.



THE BACKGROUND

H&M Hennes & Mauritz AB (H&M) is a Swedish multinational retail-clothing company known for its fast-fashion clothing across the globe. Today, H&M Group is a global fashion and design leader with 58 online markets and 4,465 stores in 78 countries. H&M Group's corporate sustainability goal includes reducing its greenhouse gas emissions by 56% by 2030. A major part of this will be achieved by using sustainable energy sources and a special focus on energy-efficiency across its retail store facilities.

THE CHALLENGE

In India, The H&M facility management team manages more than 52 stores across the country. They needed a unified energy management platform to provide insights across key energy parameters for their portfolio of stores. Control and monitoring of HVAC operations was a prime requirement along with lighting control. The 75F team piloted their solution capabilities at a H&M's Bengaluru store. During the course of the pilot, 75F's IoT-based BMS successfully delivered 23.9% overall energy savings for the HVAC system, resulting in the Client choosing to deploy 75F's solutions across 10 stores in 8 cities.

AT A GLANCE

Location	10 Stores across 8 Cities
Building Type	Retail Stores
Area	1,94,131 Square Feet
75F® Solutions	DCWB, DAB, IAQM, Lighting Controls, and EMS Number of Hyperstats: 268 Number of CCUs: 75
Turnaround Days	7 days per location

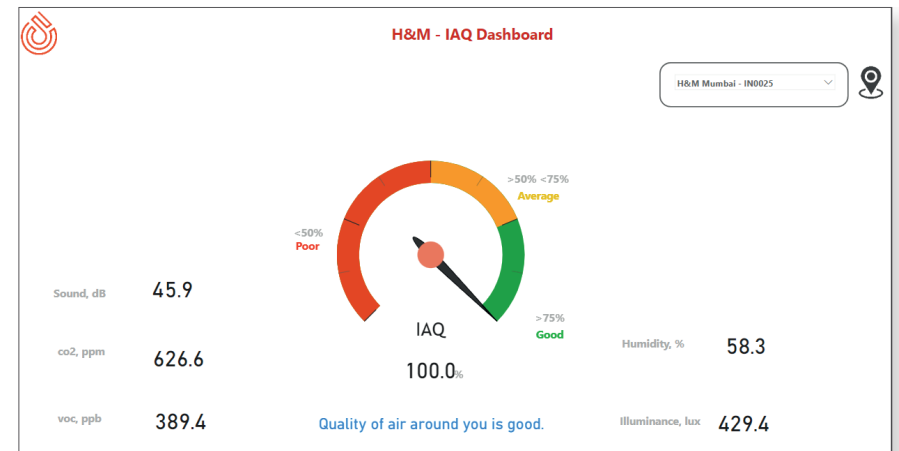
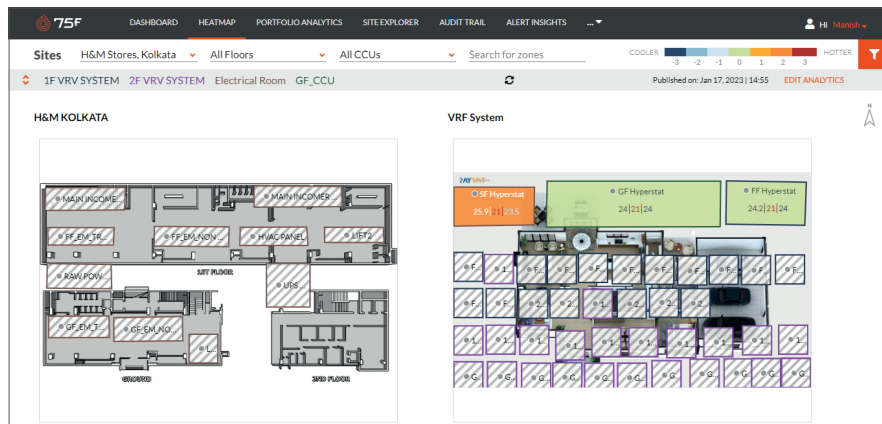
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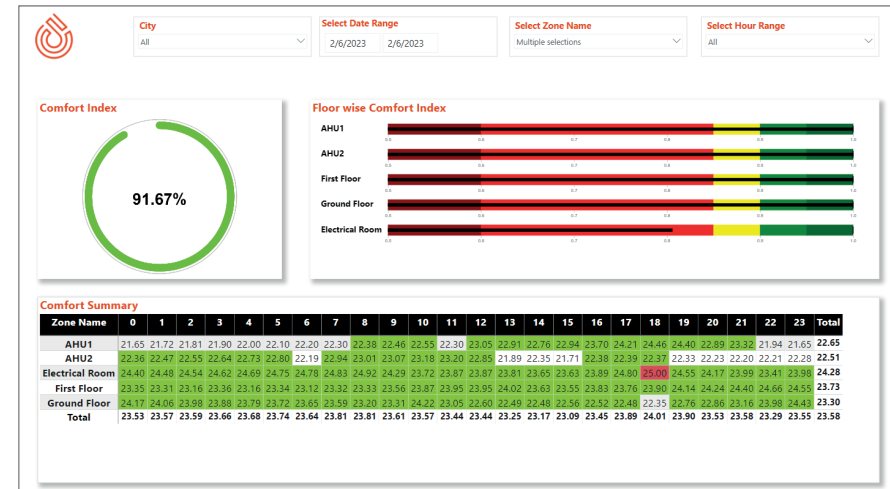
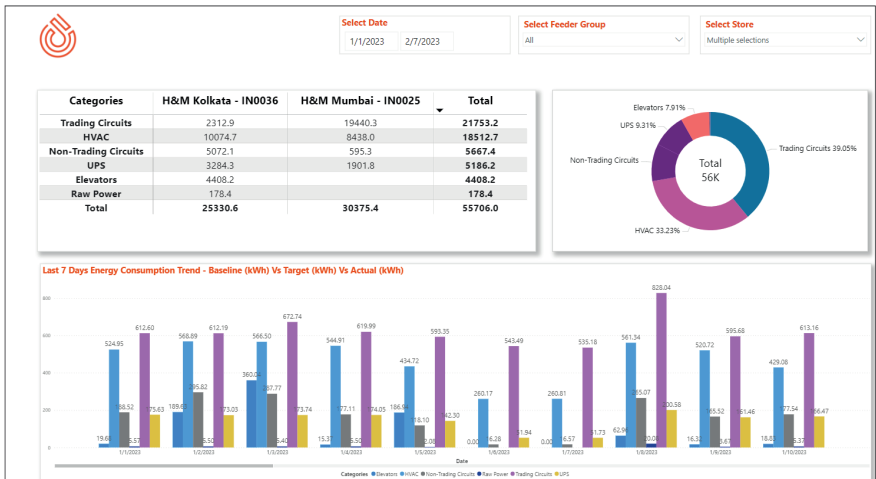
THE SOLUTION

The H&M facility management team expected savings on HVAC and Lighting energy consumption, monitoring of Indoor Air Quality (IAQ), and automation coupled with remote manageability of its HVAC and Lighting Systems. The 75F Team implemented the necessary solutions across stores using the most appropriate configurations while allowing the H&M team to access customized dashboards to view data on emissions, energy consumption and energy spend.

Execution

H&M stores were primarily divided into two configuration types with respect to their cooling systems. The first configuration type was a complete set up of AHUs and Chillers, whereas the second configuration type had a Variable Air Volume (VAV) system. The kolkata store comes under second category. Based on the number of Direct Expansion Cooling Units (Cassette Type/Ducted system) on any floor in any store, the 75F Team created clusters of 2-3 groups per floor. 75F HyperStats were installed to control DECU groups allowing for maintenance of temperature levels of any particular floor. This strategy allowed for a modular approach to switch on or off cooling units based on the difference in actual temperature levels versus the set point. 75F also provided a single Central Control Unit (CCU) for each floor to communicate with HyperStats, work as a master control, and serve as a cloud gateway. The installed HyperStats have 8 or more sensors on board to monitor parameters such as Temperature, CO2 levels, VOC, PM2.0, and Occupancy Levels which were used to monitor the indoor air quality. Also additional CCU was provided to capture energy meter data for energy consumption analysis.





THE RESULTS

Energy Savings

The H&M Kolkata store was the first commissioned site in the month of October 2022. H&M integrated 75F's technology and has saved 8,103 kWh of energy in just the first two months, the equivalent of a 11.9% reduction in energy consumption.

Fast and Easy Installation

The commitment and support of the 75F team translated into rapid installation, at zero downtime. It took just 7 days for the installation and commissioning for a single H&M store.

Portfolio Analytics and Dashboard

75F's Managed Services Team delivered customized dashboards to the H&M facility team thus providing visibility into key performance energy metrics at the store-level.

Managed Services

75F's Managed Services Team was responsible for the site after it was commissioned making sure the site operated at peak energy-efficiency levels.

