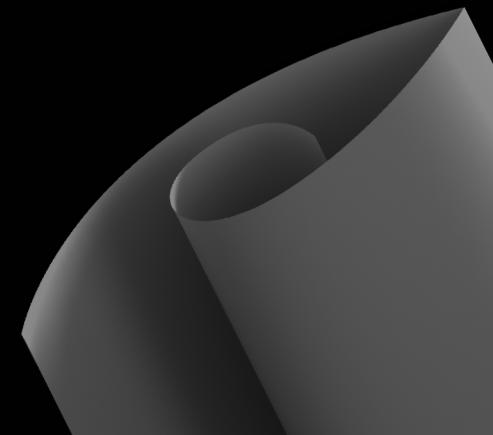


# SMART MANUFACTURING: END-TO-END BUILDING AUTOMATION FOR A GLOBAL FACTORY



## Business Need

A major manufacturing entity planned a next-gen smart facility focused on energy optimization, interoperability, and future-ready automation. The aim: full-scale integration of HVAC, fire, and utility systems into a centralized, standards-based open BMS.

## Solution Implemented

- Advanced Building Management System
- Addressable Fire Alarm Panels
- Gas-Based Suppression Systems with VESDA
- Digital PA Systems
- IP Video Surveillance Integrated with VMS

## Enhanced Outcomes

	Configured <b>14 Direct Digital Controllers (DDCs)</b> and <b>16 Protocol Integrators</b>
	Over <b>12,000 Hard &amp; Soft Data Points</b> captured via BACnet, Modbus, and proprietary protocols
	12+ third-party system integrations including Chillers, UPtS, MCCB, Transformers, VRFs
	Intelligent dashboards with <b>RBAC (Role-Based Access Control)</b> and customized views
	Real-time energy monitoring system delivering <b>~8% reduction from baseline energy design</b>
	Alerts, alarms, report logs, and SMS-based escalations for preventive maintenance and compliance
	Comprehensive operational control through <b>central command interface</b> , tailored for engineers and operators