

How Acropolis Tech Park Eliminated Manual HVAC Operations Across 12 Floors

Every morning the BMS Technician walked all 12 floors to switch AHUs on manually — the existing BMS had failed completely. EnSmart replaced every controller, IO module, and software layer, delivering centralised smart automation, mobile access, and custom AHU control across all floors. Running successfully from 2023 to 2026.

Client: Acropolis Tech Park · Platform: SmartNova · Location: Chennai, India · Project: 2023–2026 (Stable)

At a Glance

<p>32+ AHUs integrated</p>	<p>4+ TFA systems automated</p>	<p>12 Floors centrally controlled</p>	<p>18 Days Full deployment</p>	<p>24/7 Centralized monitoring</p>
<p>100% HVAC automation</p>	<p>2023–2026 26 Stable operation</p>			

The Challenge

The building had HVAC equipment — but no reliable control system

Acropolis Tech Park's existing BMS controllers, IO modules, and software had become corrupted and unstable. With no working central system, the building pushed all control work onto human beings. The BMS Technician walked all 12 floors every morning and evening — switching AHUs on and off manually, checking temperatures, writing readings in a register. Mr. Senthilkumar could not check any AHU from his desk. Mr. Joseph Peter had no data for ownership reports — just a handwritten register.

- The BMS Technician walked 12 floors manually every morning and evening
- Existing BMS software became corrupted and unusable
- No centralized monitoring platform or historical data
- Tenant complaints took 45 minutes to resolve
- No remote access — operators tied to the BMS room
- Faults discovered only after tenant complaints
- No automatic scheduling — weekends included
- Full operator dependency across every shift
- Multiple systems running independently with no visibility

"The BMS had failed completely. Every morning, the technician walked all 12 floors manually. There was no data, no visibility, no way to know what was running from a desk."

Why This Project Stood Out

A complete smart building retrofit inside a live enterprise facility — completed in 18 days

<p>Live demo before commitment EnSmart demonstrated everything on site before Joseph Peter approved a single wire change.</p>	<p>Full system replacement Every corrupted controller, failed IO module, and unstable software removed and replaced completely.</p>
<p>Surgery on a live building Deployed floor by floor without shutting down the building or disturbing tenants.</p>	<p>18-day full commissioning From first wire pulled to full handover — 18 days.</p>
<p>Mobile and web access Senthilkumar adjusts any AHU setpoint from his mobile in 30 seconds.</p>	<p>Custom AHU logic Each AHU configured for real site conditions — schedules, setpoints, alarms, sequences.</p>
<p>One platform for everything 32+ AHUs, 4+ TFA systems, all 12 floors on one centralised dashboard.</p>	<p>3 years of stable operation Running continuously from 2023 through 2026 without failure.</p>

The Solution — SmartNova Platform

EnSmart deployed SmartNova as a complete BMS replacement — not a patch, but a full removal and re-commissioning. Every corrupted controller and failed IO module was replaced with EnSmart hardware. SmartNova gave the building a central brain for the first time.

Layer	What SmartNova Does	Result
Field Devices	EnSmart controllers and IO modules installed across all 12 floors	Replaces corrupted hardware completely
HVAC Integration	32+ AHUs and 4+ TFA systems connected via open protocols	BACnet, Modbus — vendor-neutral
Central Dashboard	All equipment on one platform — run status, faults, temperature	Web and mobile access
Custom AHU Logic	Schedules, setpoints, alarms configured per AHU	Floor-by-floor commissioning
Remote Access	Full control from mobile or desktop — inside or outside the building	No BMS room dependency
Fault Alerting	Alarms pushed to phones automatically, 24/7	Faults known before tenants notice

Deployment Timeline

From the day the BMS Technician showed us the problem — to the day he stopped walking

Period	Milestone
Aug 2023	Site study and operational discussions with Senthilkumar and Balaraman
Aug 2023	Live demo of EnSmart controllers, IO modules, and SmartNova software to Joseph Peter
Aug 2023	Client approval — project work begins

Sep 2023	Old system removed — new controllers and IO modules installed floor by floor
Sep 2023	All 32+ AHUs integrated, centralised dashboard live, mobile access enabled
Sep 2023	Full commissioning completed — building handed back with working brain
2024–2026	Continuous stable operation — no manual floor walks, full remote control

"Started August 2023. Full commissioning completed September 2023. 18 days total. Running stably through May 2026 — 3 years without a single failure."

Results and Value Delivered

What changed after EnSmart — for every person in the building

Area	Before EnSmart	After EnSmart
HVAC Control	Technician walked 12 floors manually every morning and evening.	All 32 AHUs visible on one dashboard — run status, temperature, faults, alarms.
Complaint Resolution	Tenant complaints took 45 minutes to resolve. Required a floor visit.	Senthilkumar resolves complaints in 3 minutes from mobile — no floor visits.
Data & Reporting	Joseph Peter had no data — just a handwritten register.	Opens energy trends, alarm history, and uptime reports every morning.
Scheduling	No automatic scheduling — operators required every shift and weekend.	AHUs start before first employee arrives. Weekends run without any operator.
Fault Detection	Faults discovered only after tenant complaints.	Alarms reach team phones before tenants notice anything.
Remote Access	No remote access — operators tied to the BMS room.	Full web and mobile access from anywhere inside or outside the building.
System Stability	BMS software corrupted and unusable. No stable platform.	No failures from September 2023 to May 2026 — 3-year stable platform.

Frequently Asked Questions

What problem existed before EnSmart?	The BMS had failed. The BMS Technician walked 12 floors manually every day to operate AHUs. No central visibility, no data, no remote access.
How many systems were integrated?	32+ AHUs and 4+ TFA systems across 12 floors, all on one platform.
Was the old system fully replaced?	Yes. Controllers, IO modules, and software were all removed and replaced with EnSmart hardware and SmartNova platform.
Can operators access the system remotely?	Yes. Full control via mobile and desktop from anywhere — no need to stay in the BMS room.
How fast was deployment?	18 days from first wire to full commissioning inside a live building without shutting down tenants.

Is the system still running?

Yes. Continuous stable operation from September 2023 through May 2026.

Ready to eliminate manual operations in your building?

EnSmart deploys SmartNova across enterprise buildings. We replace failed BMS with centralised smart automation — any HVAC, any building, any scale.

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