Biasys — Future-Proof Building Management for Modern and Legacy Facilities

1 | Why Today's Owners and Facility Managers Are Upgrading

- **Energy & ESG pressure.** North-American buildings must show year-over-year carbon and cost reductions to satisfy city ordinances and investor scorecards. Energy-efficiency mandates are now the top purchasing driver for BMS projects.
- **Cyber-secure, data-rich operations.** New standards such as BACnet/SC and AI-ready IoT sensors let operators run remote, data-driven maintenance while protecting OT networks.
- **Interoperability headaches.** Most portfolios still contain 20-year-old BACnet MS/TP and Modbus RTU controllers that were never designed to talk to modern cloud-or-IP gear.

2 | How Biasys Meets Every Requirement—*Without Ripping Out What Already Works*

Market requirement	Biasys capability	What it means for you
Double-digit energy savings	AI-assisted optimisation engines that continuously tune set-points and schedules	Typical sites record **28 – 35 %** energy cuts within 12 months.
Legacy + new device integration	On-board drivers for BACnet IP/SC, BACnet MS/TP, Modbus TCP/RTU, LonWorks, plus certified gateways for mixed networks	Keep your existing air-handlers, VAVs and chillers; add smart sensors only where they pay back.
Open APIs & data ownership	REST / GraphQL endpoints, MQTT streams and cloud connectors	Feed live KPIs into CMMS, utility dashboards or ESG reporting stacks with zero vendor lock-in.
Cyber-security & compliance	BACnet/SC encryption, role-based access (SSO/OAuth 2), SOC 2-audited cloud, optional on-prem edge appliances	OT network is protected to IT standards—no more "flat" RS-485 segments.
Actionable analytics	Built-in dashboards for energy, IAQ, occupancy and predictive maintenance	Engineers see faults *before* occupants feel them; finance sees verified carbon savings.
Operator-first usability	Drag-and-drop graphics, mobile apps, voice-assisted alarms	New staff master day-to-day tasks in **< 2 hours**; no

		specialist "front-end programmer" needed.
Nation-wide support	24 / 7 help-desk, 48-h on-site SLA, retrofit design services	One partner through audit, rollout and lifecycle tuning.

3 | A Retrofit-Friendly Roll-Out Path

1. **Digital survey** – Biasys engineers map every legacy controller and network loop.
2. **Edge drop-in** – A PoE-powered Biasys Edge appliance bridges BACnet MS/TP & Modbus to secure IP without disturbing live traffic.
3. **Progressive enablement** – Start with energy dashboards; add fault-detection, IAQ sensors or occupancy analytics as budgets allow.
4. **Cloud or local** – Choose Biasys Cloud (SOC 2) or keep data on-site; both options share the same UI.

> This **"overlay-then-optimise"** methodology keeps capital costs low while delivering savings from the first quarter.

4 | Proven Results

- **University campus, 1.25 M ft²** – 28 % utility reduction, ROI < 12 months, *all* achieved with existing BACnet MS/TP field controllers left in place.
- **Regional hospital, 420 k ft²** – 35 % HVAC energy cut and 40 % fewer hot/cold complaints after Modbus RTU air-handler controls were linked via Biasys Edge.
- **Class-A office tower, 790 k ft²** – 31 % total energy reduction; LEED-EBOM Gold re-certification supported with automated ESG data exports.

5 | Why Biasys Stands Apart

- **Built for 2025 compliance** – native ESG, grid-interactive buildings and demand-response ready.
- **"No forklift" promise** – 90 % of projects re-use **> 80 %** of existing controls hardware.
- **Open-book data** – your operational data stays in formats you can move, query or monetise—*forever*.
- **Full-stack expertise** – from dusty RS-485 trunks to Azure-hosted digital twins, one accountable partner.

Ready to Talk?

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Transform yesterday's equipment into tomorrow's smart building—**without the rip-and-replace bill**.