

Smart Building AI Readiness



A Practical Checklist for Facility Managers,

AI can help with smarter buildings, but most pilots stall before they start. This checklist helps you find out why and what to do about it.

Work through each section with your facilities, operations, and IT teams and select every item that is **true for your organization today**. Each selection is worth one point, check all that apply. When you're done, the [Quick Scoring Guide](#) at the end will show where you stand, from early-stage foundations to full pilot readiness, and where to go from here.

Business Objectives

We have:

- ☐ Identified the top 1–3 business goals for using AI.
- ☐ Defined measurable goals, such as reduced energy use, lower maintenance costs, improved occupant comfort, or greater portfolio visibility across the portfolio.
- ☐ Outlined what success looks like for the first 6–12 months.
- ☐ Secured leadership support for a pilot.

Data Readiness

The following are available and accessible without excessive manual effort:

- ☐ Historical trend data for key HVAC systems.
- ☐ Zone temperature, humidity, occupancy, and equipment status data.
- ☐ Energy meter data at a useful interval.
- ☐ Accurate and calibrated sensor data.
- ☐ Point naming and equipment hierarchies that are consistent enough for analysis.

Building and HVAC System Inventory

We have:

- ☐ Built a current inventory of major HVAC assets.
- ☐ Documented which vendors, controls platforms, and protocols are in use.
- ☐ Mapped out how equipment is controlled either through a BAS / BMS or another method. If we have a BAS/BMS, we know which systems are connected to the BAS/BMS.
- ☐ If not a BAS, we understand how it's being controlled (know existing control map).
- ☐ Documented control sequences for key equipment.
- ☐ Identified which buildings, floors, or systems make the best pilot candidates.

IT, Integration, and Cybersecurity

- ☐ IT and cybersecurity stakeholders are identified.
- ☐ We know what data can be shared with external platforms.
- ☐ Integration requirements with BAS/BMS, meters, CMMS, or cloud platforms are understood.
- ☐ Remote access, network segmentation, and security review requirements are known.
- ☐ Vendor access and data governance expectations are documented.



Use Case Prioritization

We have:

- ☐ Selected 1–2 high-value HVAC use cases.
- ☐ Confirmed each use case solves a known operational problem.
- ☐ Verified use cases are practical for a limited pilot.
- ☐ Ranked use cases by impact, feasibility, and risk.
- ☐ There is a clear owner for the AI pilot.
- ☐ Operations staff will review and act on AI recommendations.
- ☐ We have a process for escalating findings to technicians or service providers.
- ☐ Baseline performance data is accessible for comparison.
- ☐ We understand how pilot changes will be tested and approved.

Common starting use cases include fault detection and diagnostics, energy anomaly detection, schedule optimization, setpoint optimization, and predictive maintenance.

Measurement and ROI

We have:

- ☐ Defined pilot KPIs.
- ☐ A clear picture of the baseline energy, comfort, maintenance, or runtime performance.
- ☐ A method to measure savings and operational improvement.
- ☐ An understanding of the expected cost, effort, and timeline of the pilot.

Pilot Decision

We can:

- ☐ Name the first building or system to pilot.
- ☐ Pinpoint the first use case to test.
- ☐ Identify the team responsible for execution.
- ☐ Define success in operational and financial terms.
- ☐ Start with advisory analytics before autonomous control.

Quick Scoring Guide

Total:

Stage	Score	Next Steps
Strong	35-39	You're ready. Move forward with a pilot.
Moderate	25-34	Good foundation — close the gaps before scaling.
Foundational	15-24	Key pieces are missing. Focus on data, controls, and process first.
Early Stage	>15	Use this checklist as your roadmap. Start with the basics.

➔ Take the next step by meeting with a Trane expert to turn your AI Readiness Checklist insights into a clear plan for smarter, more efficient building operations. Visit trane.com/autonomouscontrol to get connected.



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