

ClimaMind

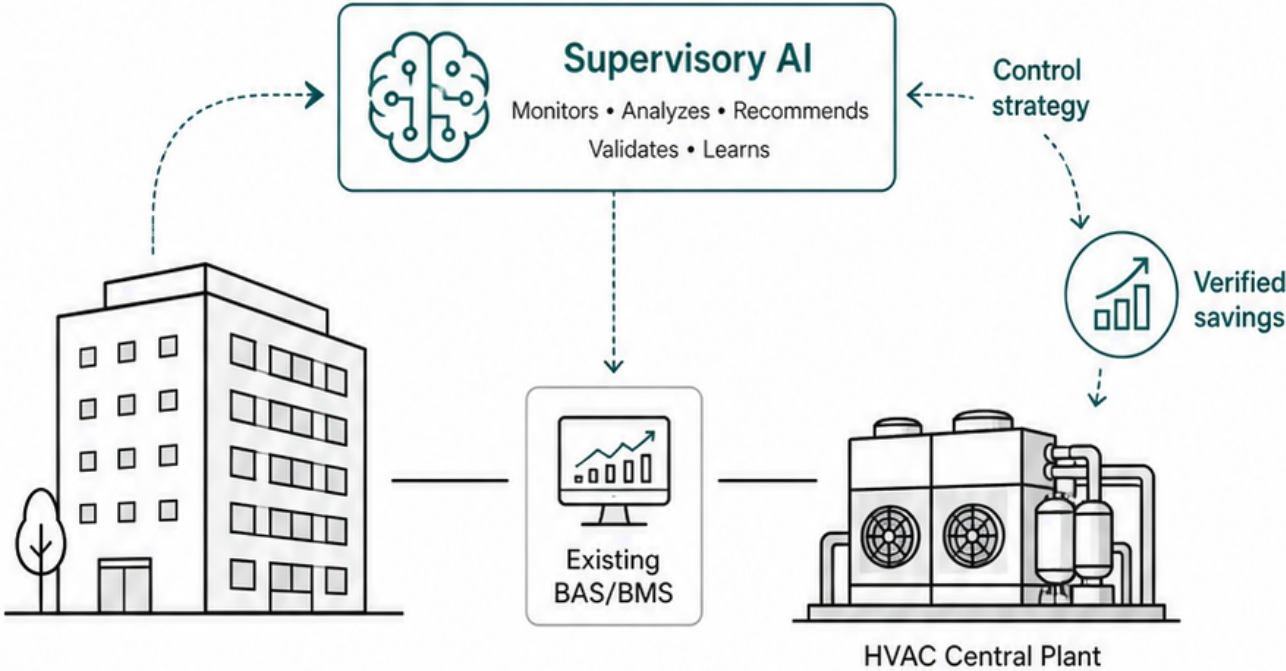
# Supervisory AI for verifiable HVAC savings

Lower energy cost without comfort risk or full controls retrofit.

ClimaMind helps commercial buildings reduce HVAC energy cost by identifying, testing, and validating better control strategies before operational changes are made.

For building owners, operators, and energy teams, ClimaMind provides a practical supervisory AI layer for safer control decisions, measurable performance improvement, and verified savings on top of existing BAS/BMS infrastructure.

AI-supervised control. Safer operation. Verified results.



# Savings You Can Verify

HVAC is often one of the largest controllable energy loads in a commercial building. The challenge is not only finding savings, but proving that those savings are real, repeatable, and achieved without hurting occupant comfort.

ClimaMind focuses on measurable operational improvement:








## 1. TARGET OUTCOMES

- ✓ Reduce HVAC energy consumption
- ✓ Maintain comfort within agreed operating bounds
- ✓ Identify low-risk operational changes
- ✓ Shorten the path from analysis to verified savings
- ✓ Give facility and finance teams a shared basis for decision-making



## 2. KEY PERFORMANCE INDICATORS

 <b>ENERGY SAVINGS</b> <b>15-25%</b> target range	 <b>PAYBACK PERIOD</b> <b>Under 3 months</b>	 <b>DEPLOYMENT PATH</b> <b>Existing BAS/BMS first</b>	 <b>COMFORT IMPACT</b> <b>Within agreed</b> temperature and humidity bounds	 <b>VALIDATION BASIS</b> <b>Baseline comparison, weather normalization, and operating data</b>
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## 3. HOW CLIMAMIND WORKS







**The goal is simple:** make HVAC savings visible, credible, and financially actionable.





# Safe Control, Aligned Economics

Improve HVAC performance without taking control away from facility teams or forcing a retrofit-funded business case.

## Safety controls built into deployment

 <p><b>Approved operating limits</b> Setpoint actions stay inside site-defined comfort, equipment, and operating boundaries. ✓</p>	 <p><b>Advisory mode</b> Start with recommendations only, so operators can review proposed actions before enabling supervised control. ✓</p>
 <p><b>Operator override and fallback</b> Facility teams can pause, override, or return to native BAS/BMS operation whenever conditions move outside agreed limits. ✓</p>	 <p><b>Smooth control actions</b> Rate limits and step-size constraints reduce abrupt changes to equipment operation. ✓</p>






## Layered control boundary

Operator override	 Native BAS/BMS sequence
	 Site operating limits
	 Advisory recommendations
	 Supervised AI optimization

## What stays unchanged

- ✓ Existing BAS/BMS remains the system of record
- ✓ Existing controllers and workflows stay in place
- ✓ No major controls replacement is required for initial deployment

## Commercial model: Energy savings sharing

	<b>Model</b>	Share measured HVAC energy savings
	<b>Commitment</b>	No savings, no payment
	<b>Implementation fee</b>	Waived on our side if final savings are below 10%
	<b>Best fit</b>	Sites with existing BAS/BMS data and meaningful HVAC spend
	<b>Buyer value</b>	Cost aligns with verified performance, not speculative retrofit ROI


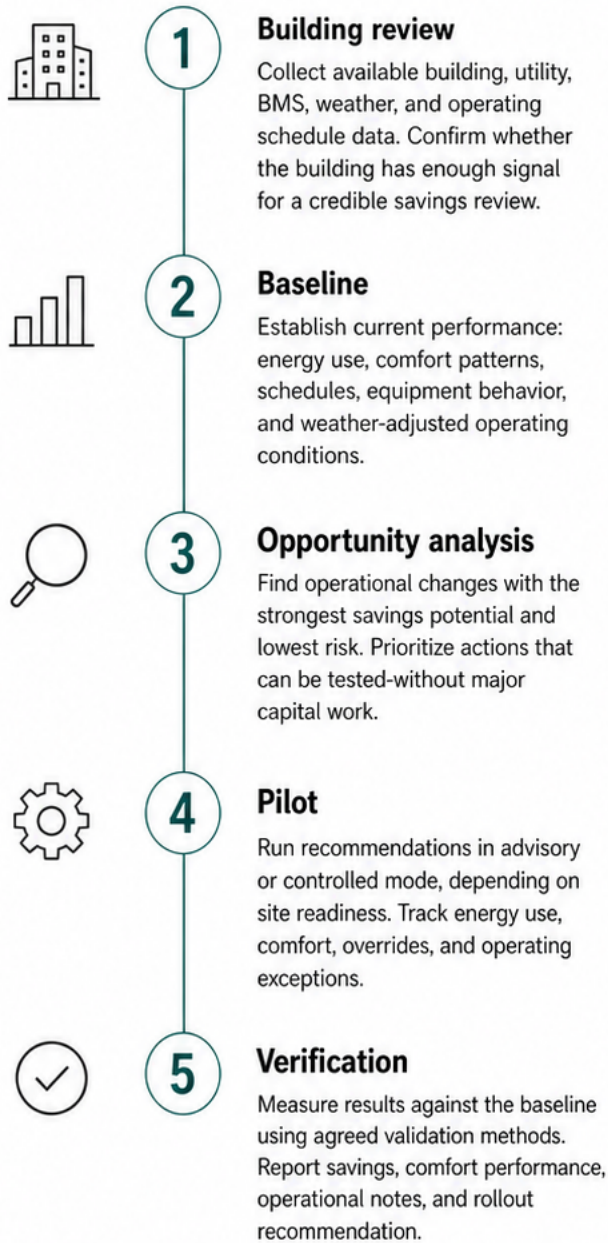


### Why this matters

The business case is tied to verified energy reduction. Qualified sites can start with advisory mode, prove savings, and scale only when results are measurable.


# From Baseline to Verified Savings

ClimaMind deployment is structured to reduce uncertainty before operational commitment.



### Typical timeline

<b>Week 0</b>	Building and data review
<b>Weeks 1-2</b>	Baseline and opportunity analysis
<b>Weeks 3-4</b>	Pilot preparation and initial recommendations
<b>Month 2</b>	Verified savings review and rollout decision



### What the customer gets

<input checked="" type="checkbox"/> Savings opportunity summary	<input checked="" type="checkbox"/> Payback estimate
<input checked="" type="checkbox"/> Operational risk review	<input checked="" type="checkbox"/> Pilot recommendation
<input checked="" type="checkbox"/> Verified performance report	<input checked="" type="checkbox"/> Rollout plan for additional buildings



**The process is designed to prove value before scale: review the building, agree the baseline, test low-risk actions, verify the outcome, then decide rollout.**