

infinitAIZEN

Customer Story

Data center operations

# Cooling That Anticipates Load

A data center operator cut cooling energy use by 20% and chiller-related downtime by 30%. InfinitAIZEN predicts demand and degradation on live telemetry, then acts only inside the limits its engineers set.

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## Results

**20%**
Energy savings

**5X**
Faster detection

**30%**
Less downtime

## The Goal

Cooling runs as efficiently as the load allows, and early signs of chiller degradation are caught while they are still maintenance items, not outages.
Facilities engineers stay in control of how far automation can go.

## Why InfinitAIZEN

**From signal to action**
InfinitAIZEN closes the loop from a live signal to a governed action instead of stopping at a dashboard.

**Predictions that hold up live**
Foresight computes features the same way for training and live serving, so models stay accurate on real-time telemetry.

**Engineers set the envelope**
Operating limits are enforced as deterministic rules. The AI works inside them.

## At a Glance

**INDUSTRY**
Data center operations

**InfinitAIZEN PRODUCTS**
Orchestrate + Foresight

**SYSTEMS**
Chiller and facility telemetry

**DEPLOYMENT**
Customer-managed environment

## Methods Used

- Foresight ML
- Rules
- Human gate
- Audit

## How It Works

**01 Ingest**
Chiller and facility telemetry streams in real time alongside historical data.

Foresight ML

**02 Predict**
Models learn each chiller's normal behavior, anticipate cooling demand and detect efficiency degradation early.

Foresight ML

**03 Check**
Orchestrate evaluates every recommendation against the operating limits and maintenance policy the facilities team defined.

Rules

**04 Act**
Recommendations inside the approved envelope proceed through the workflow. Anything outside it pauses for a facilities engineer.

Human Gate

**05 Check**
Each prediction, rule check and action is logged with the model version that produced it.

Audit

## Want To Find Your Agentic AI maturity?

### Take Sify's Agentic AI Assessment

In five minutes, see where your organisation stands, identify your top two readiness gaps and get practical next steps.



**Build. Run. Govern.**
**AI at scale.**

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