

Enabling teams to run buildings with ease

Overview of our Building Analytics
offering



{Your logo here}

TOPICS

1. **The problems Building Analytics software solves for building owners**
2. **How our Building Analytics software works**
3. **What outcomes you can expect from Building Analytics software**
4. **Why our Building Analytics solution is different**
5. **Typical Onboarding & Commissioning timeframe**
6. **Cyber security credentials**
7. **Next steps**

1. What problems does good building analytics software solve?



Operations

Frustration

Lack of real-time building data

Uncertainty

Unable to monitor critical equipment

Anger

Slow Thermal comfort issue resolution

Financial

Doubt

Maintenance opex spend increases

Concern

Energy consumption increasing YoY

Anxiety

Limited availability of CAPEX

People

Worry

Unhappy tenants, and stranded assets

Fearful

On IEQ compliance for tenants

Stress

Limited contractor performance tools

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2. How our building analytics works:



2. Simple four step process:

Collect



Unlock and **clean**
real-time data from
building systems in a
unified platform.

Monitor



Intelligent 24/7 **analysis**
of energy, equip and
indoor env data to catch
issues.

Improve



Guidance and tools to fix
problems and improve
performance.

Benchmark



Compare building
performance against
targets and peers.

Designed for real people running buildings, not just experts.

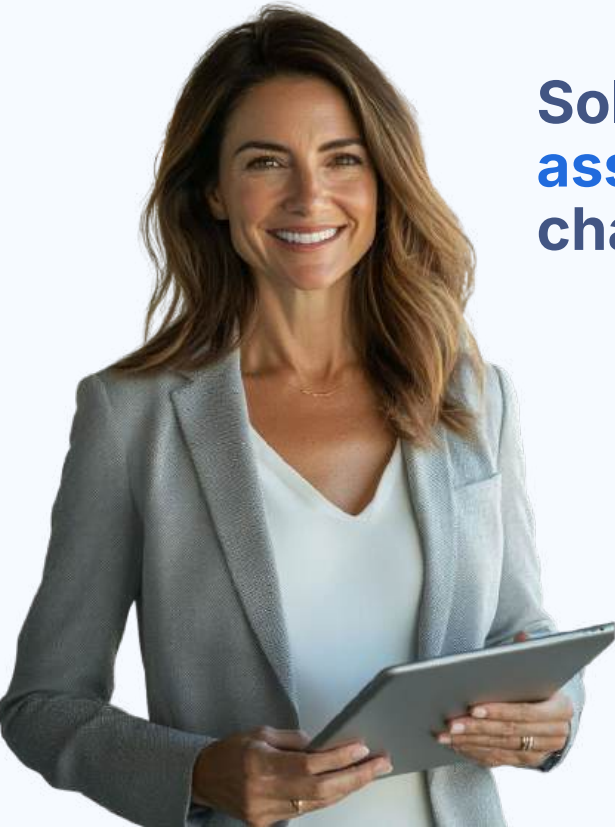
2. Asset Class Agnostic



Proven to deliver results
across **>500 buildings**
globally

3. Outcomes from Building Analytics

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here}



Solves critical
asset management
challenges



Enhancing
operational visibility



Improving Net
Operating Income



Rating and green
lease protection



Delivering optimum
tenant experience



Reducing CAPEX
risk



Smarter CAPEX
decisions

3. Case Study Commercial office portfolio (60 buildings / 1.5m sqm)



- **99,311,718** HVAC data points/day
- 147,521 individual **FDD** rules



- **127,241** Individual HVAC plant
- 244 PEAK **active users**



- **44,250** Thermal zones

Utility Reduction

Electricity

€12m

Gas

€4.9m

Water

€2.1m

Ratings improvements

Energy

71% sites with improved Energy ratings

Water

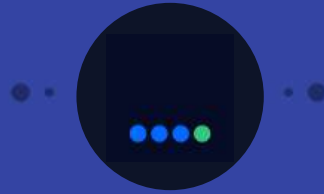
51% sites with improved Water ratings

IEQ

0.3 Industry average exceeded by 0.3

4. Why our Building Analytics solution is different

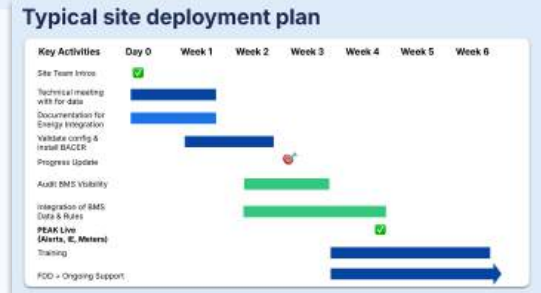
- Digital workflow
- Critical equipment alerts
- User engagement
- User experience (UX)
- Vendor benchmarking
- Onboarding speed
- Software led technology



5. Typical Onboarding & commissioning timeframe

Our AI-driven onboarding process ensures that all available BMS, utility, and sub-meter data points are fully commissioned within 30 days.

- Raw BMS text is run through our proprietary machine learning model predicting the equipment type to speed up site commissioning, and eliminating inaccuracies
- PEAK's anomaly detector accurately labels and maps BMS points, enhancing system efficiency and reliability.
- PEAK automatically identifies the data for >90% rule coverage to save time and improve accuracy.



{Your logo here}

5. Onboarding 30 day plan

Client-lead
Partner-lead

Combined
Key Milestones/Meetings

Proposed key milestones and timing for first site

Key Activities	Wk 1	Wk 2	Wk 3	Wk 4	{ongoing}
Provide BMS network configuration details	Client-lead				
BACERs delivered to client		Partner-lead			
Installation and connection of BACER at sites			Partner-lead		
Integration (Points Mapping & QA)				Partner-lead	
Rules Deployment & QA					Partner-lead
Data Integration Complete					
Tailored platform training	Partner-lead	Partner-lead	Partner-lead	Partner-lead	

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here}

6. Cyber security credentials

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here}

High-security pedigree

Our software has been deployed on a wide range of high-security assets including airports, banks, government and high-tech manufacturing facilities.

Built on AWS and Intel

Our software is built and hosted on AWS. Our data acquisition device (BACER) is manufactured by Intel with a 100% track record of passing client IT security assessments.

Comprehensive policies

We have comprehensive and detailed IT security policies covering areas such as data archiving & retention, passwords, vulnerability and disaster recovery.

Ongoing commitment

We run two automated patch schedules (weekly & monthly) and can deploy a patch for critical updates within 15 minutes. We also undertake an annual penetration test with a 3rd party provider.



7. Next steps



Three simple steps:

1. Complete the [Smart Building Assessment](#) (SBA) form
2. Introduce us to your cyber security team
3. Confirm 'go-live' timeframe
4. Agree on success criteria

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here}*

APPENDIX

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Suggested Pilot success metrics (first 60 days)

#	Success Metric	Progress
1	Compliance with cyber security protocols	
2	Real-time BMS data being ingested into software	
3	All points commissioned & relevant rules deployed	
4	Alert accuracy and QA complete	
5	Real-time utility meter data being visualised	
6	First building onboarded in <30days*	
7	Onsite operations team trained	
8	Energy savings / Thermal comfort wins being achieved	

*date from when BACER starts to ingest site data

Indicative Optimisation timeline

12 months to maximise and accelerate building performance

1st quarter

Onboarding &
Commissioning of building
on PEAK

Training of site team and
contractors

2nd quarter

M&V reporting

Energy efficiency audit

Optimisation workshop

Seasonal tuning

3rd quarter

Bespoke HVAC controls
strategy setup

Seasonal tuning

Optimisation workshop

4th quarter

M&V reporting


Seasonal tuning

Optimisation workshop


AI Machine Learning to ingest and clean data

Challenge: Buildings have a lot of data and its not consistent


Unstructured machine data



...
NIE-B5/BACnetIP.Daikin
FCU.AI-265



NIE-B5/Modbus.MSB-B-H-
CB25.2-Power



23606_Analog-Input
instance-23606

L04_CHR_CT-04-2_Basin_
Leaving_Temp

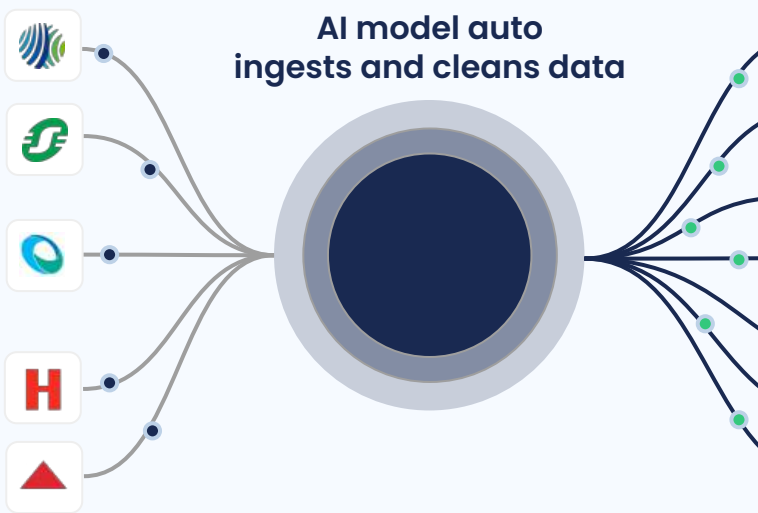
NIE-B5/FCB.Local
Application.FCUs-4 (Lobby)

NIE-B5/FCB.Local
Application.FCUs-1 PIR-S

4_L45_OL_CT-45-2_Inlet_Is
oVlv_Command

NAE-B1/N2-1.VMA-36.VAV
1B-NW3 ZN_DPR

...

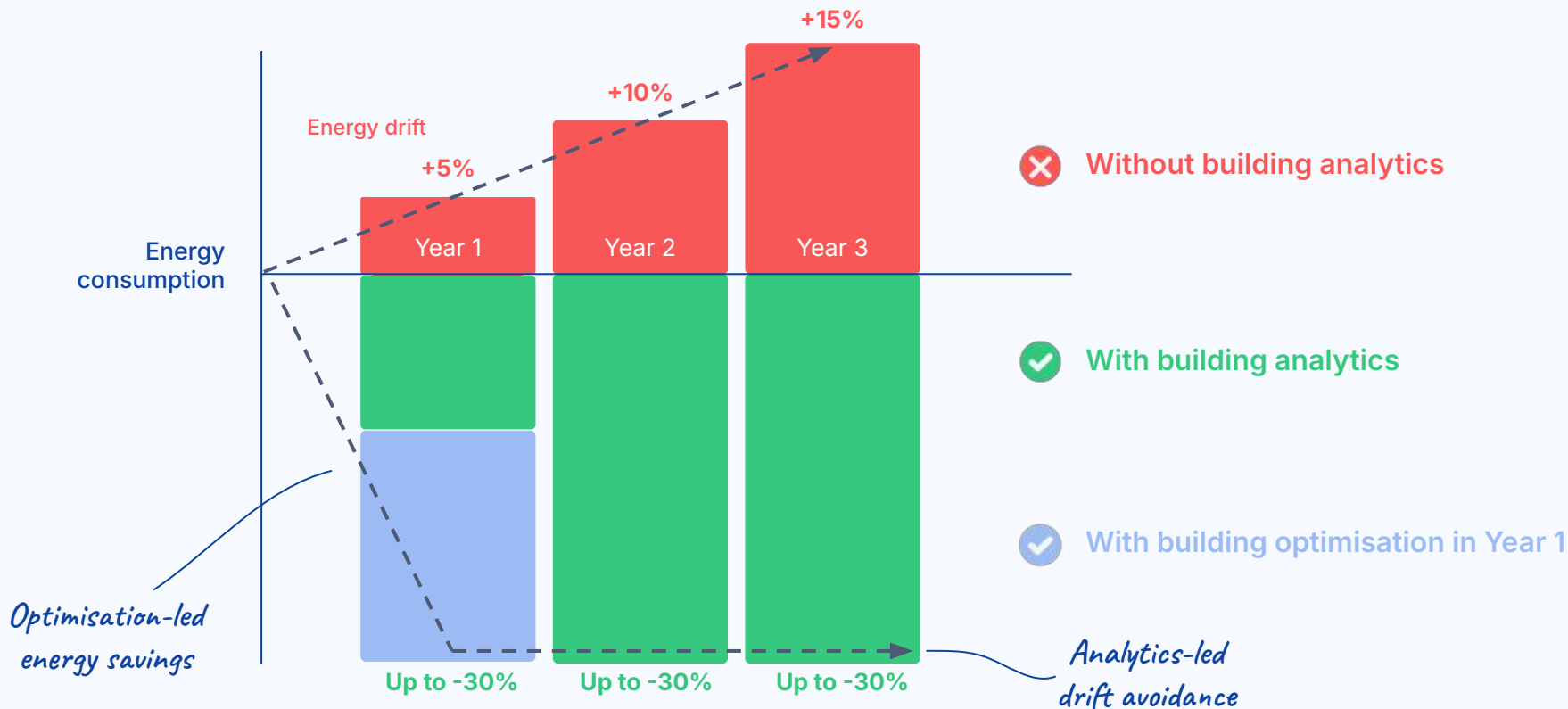


Clean structured data

Site	42 Market	33 George	12 Clare
Equipment	CT-04	CH-02	AHU-T2
Category	Cooling T	Chiller	Air Handler
Sensor type	Water temp	Power	Motor speed
Location	L16, Roof	B-2, Plant	L12, CBA
Reading	23.21°C	18	95
Timestamp	2024-05-01 9:47:56	2024-05-01 9:52:12	2024-05-01 9:46:12

The energy-saving power of Building Analytics

Less efficient buildings



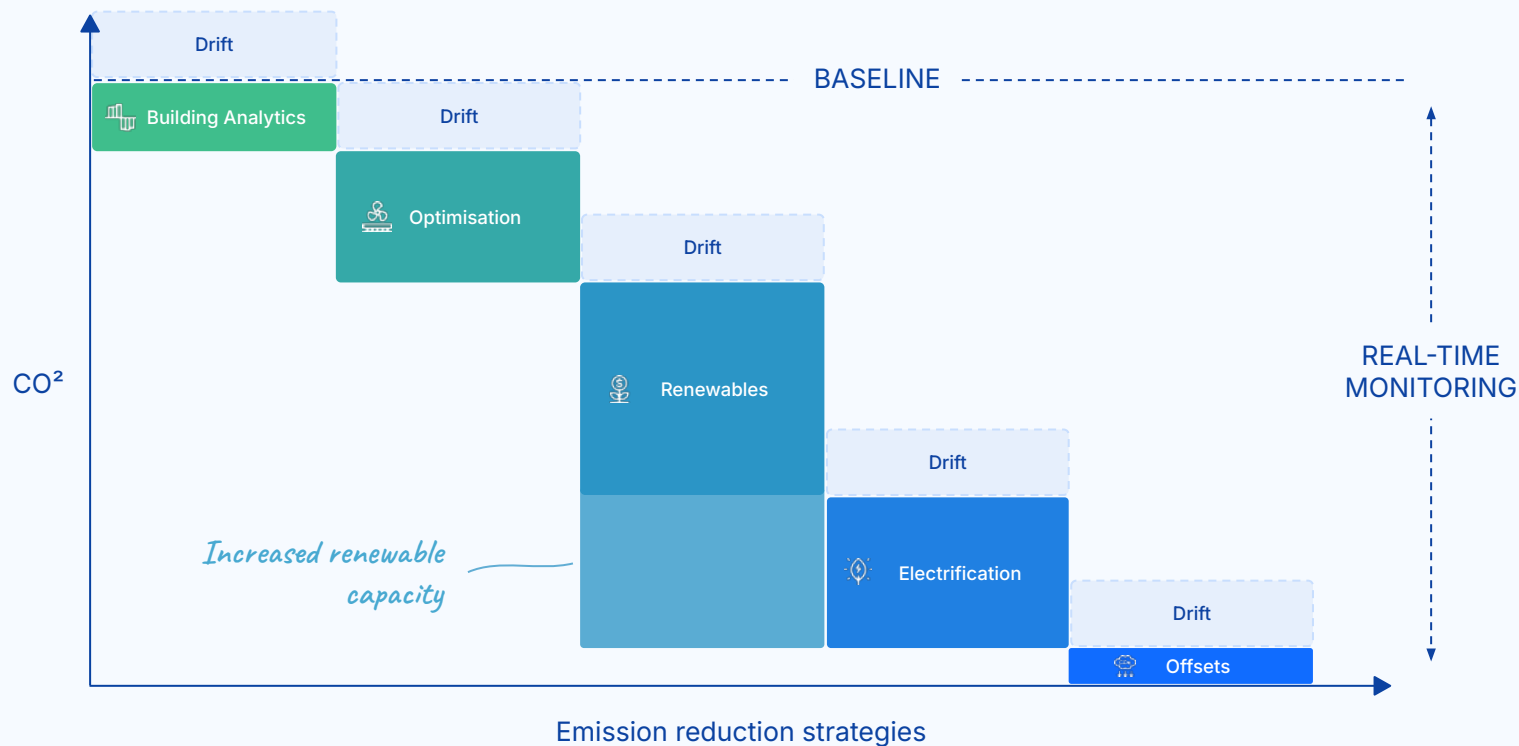
The energy-saving power of Building Analytics

Efficient buildings



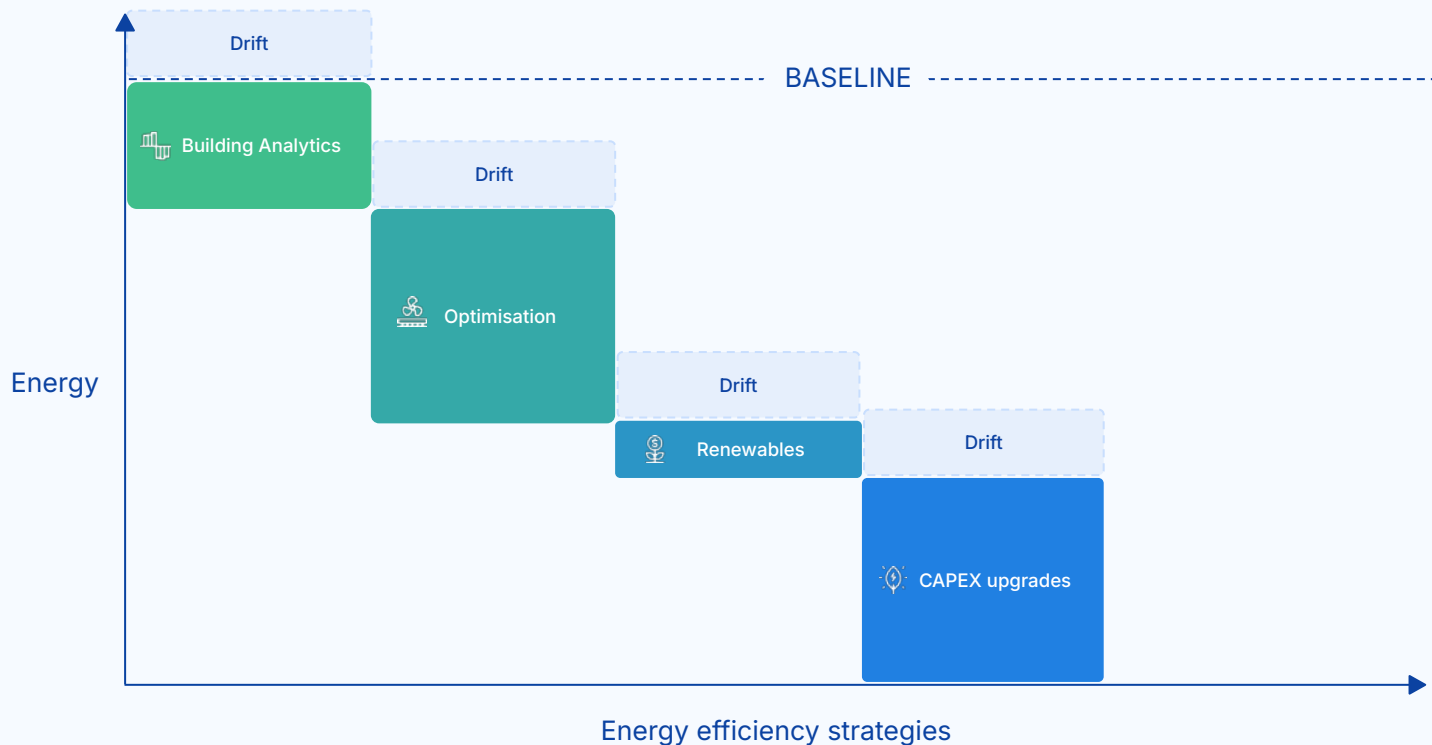
Roadmap to Net Zero

The five key strategies to reach Net Zero, underpinned by building analytics



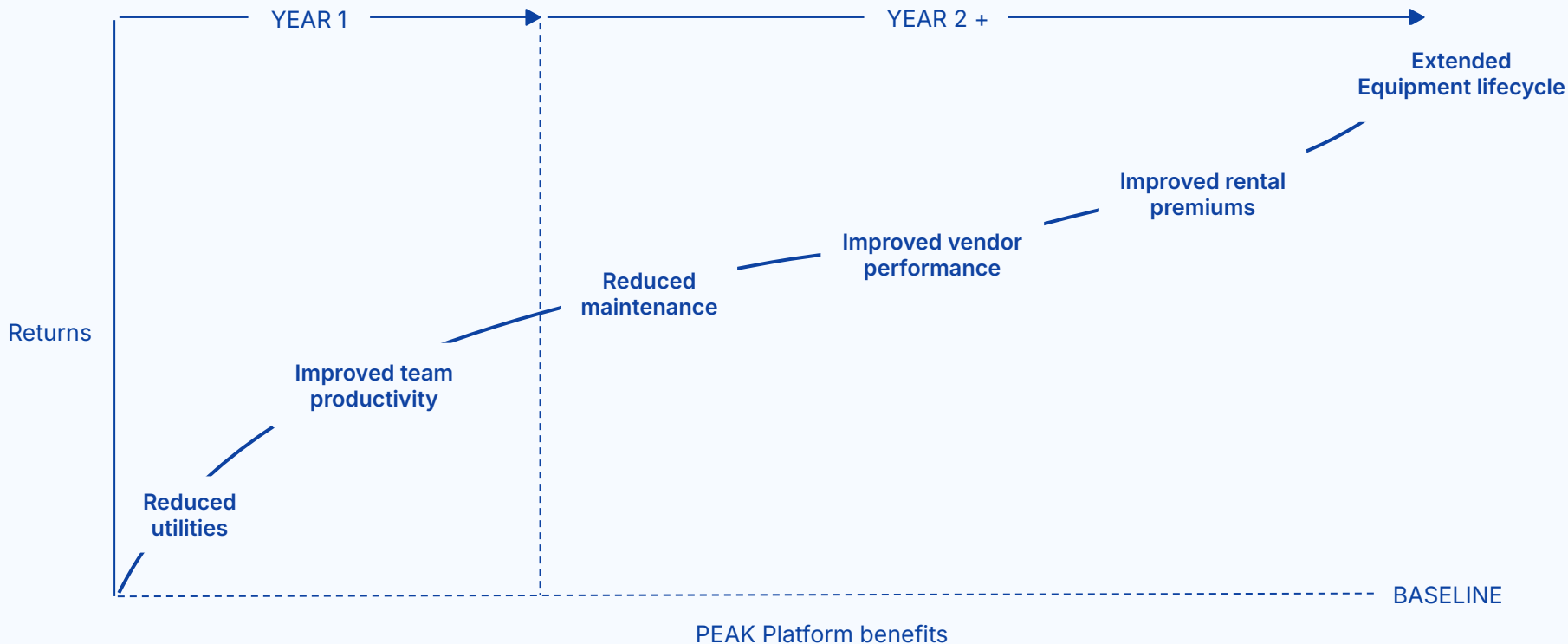
Sustainability rating improvement

The data-driven approach to improving and protecting ratings

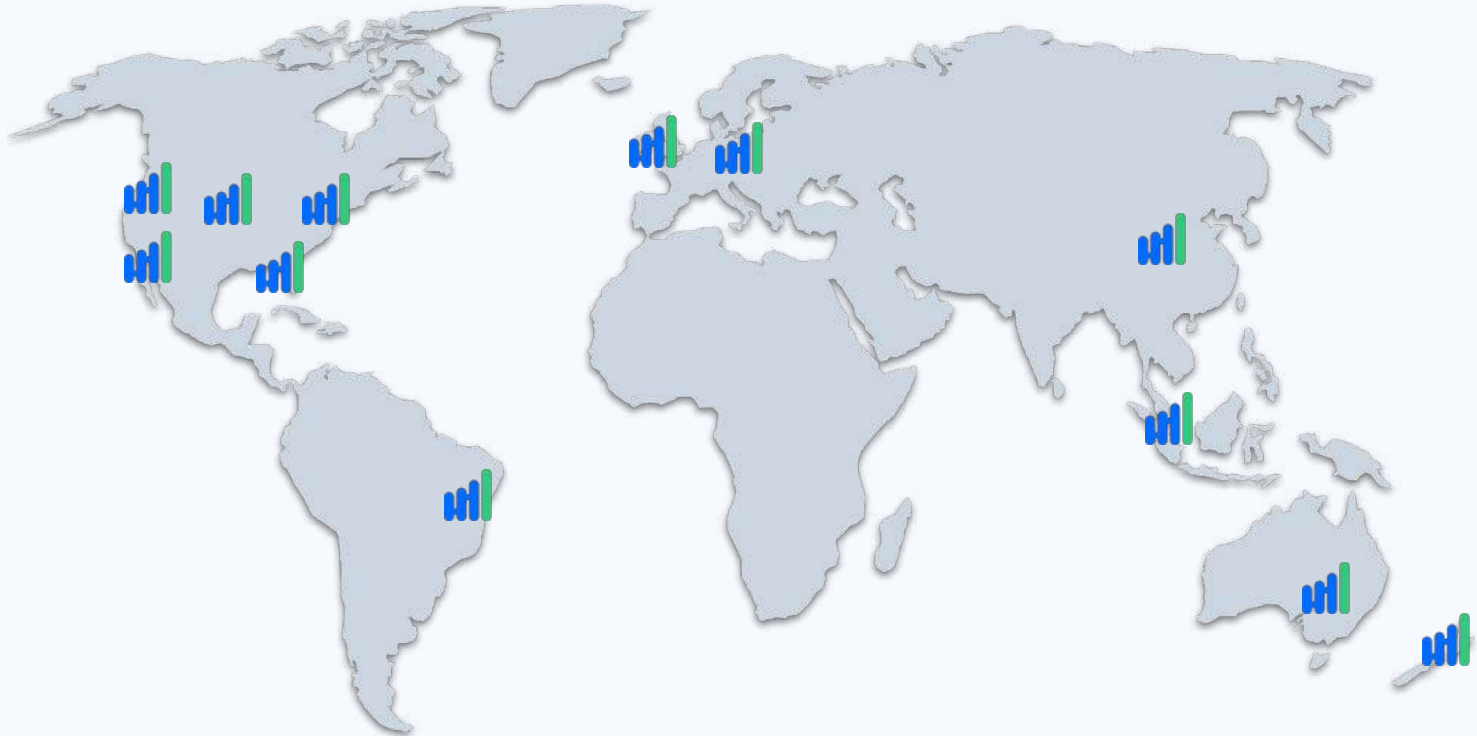


Improving returns

How building analytics improves asset value and investment returns

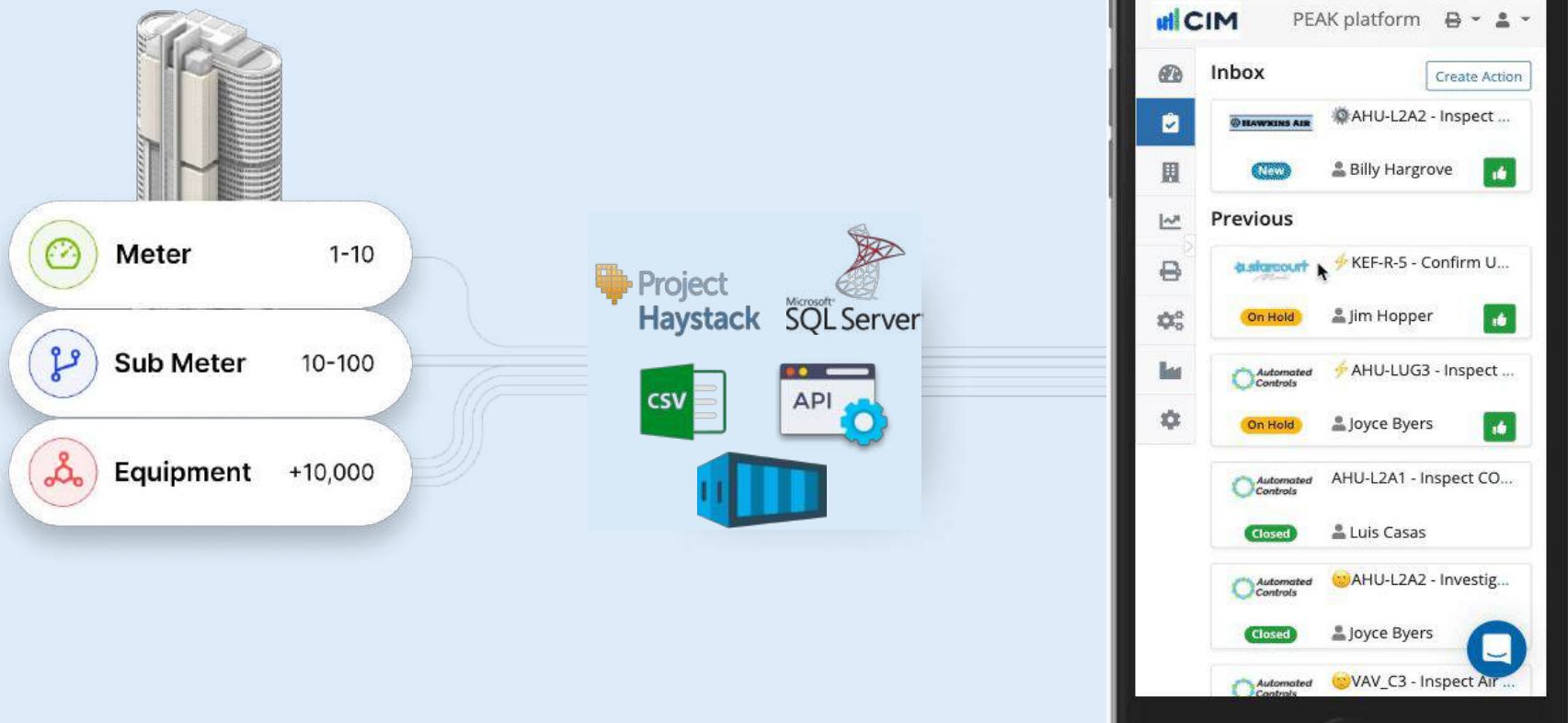


A trusted global solution



 Proven across >500 Building deployments

Real-time BMS data – virtual data collection



A highly rated platform

Independent ratings and awards

Capterra



4.7/5



62 reviews

Capterra



8.9/10



Likelihood to recommend

AFR



Sustainability Leaders
List 2023

Software industry leadership

Best Customer Support:
Maintenance



Best Customer Support:
HVAC



Best Customer Support:
Energy Management



2024 Shortlist:
Building Maintenance



Category Leader:
Building Maintenance



Front Runners:
Building Maintenance



PEAK Platform

IMPROVE

PROTECT

CIM's best-in-class AI-powered analytics platform that improves the financial and environmental performance of portfolios.



Utility monitoring



Equipment monitoring



IEQ monitoring



AFDD rules engine



Alert notifications



Digital workflow



Sustainability ratings



Dashboards and reports

Utility monitoring

FEATURE

SERVICE

Use PEAK Meters to uncover your building's electricity, gas and water usage at both a high and granular level.

- Perform trend, sub-meter and load profile analysis.
- Identify areas of excessive or abnormal consumption.
- Visualise trends using various chart formats and export data and charts.



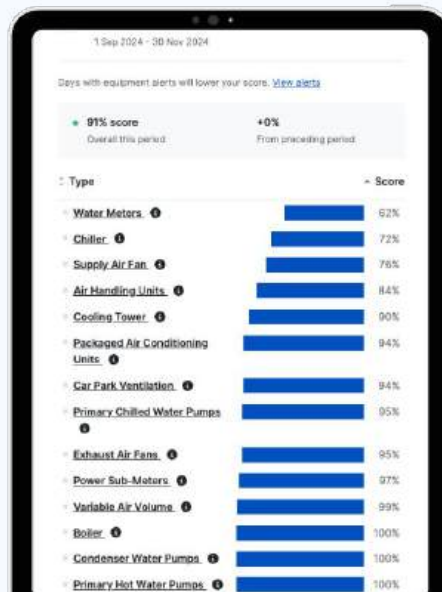
Equipment monitoring

FEATURE

SERVICE

PEAK monitors all critical equipment in real-time, ensuring every building operates at its most efficient performance level.

- View equipment uptime and identify low performing equipment across your portfolio.
- Review alerts to understand root-cause of faults, steps to resolution and timeline for maintenance.
- Use equipment score to guide strategic capex planning and maintenance decisions.



IEQ monitoring

FEATURE

SERVICE

PEAK ensures you maintain optimal conditions and a high NABERS IE rating by tracking temperature and relative humidity in real-time.

- AI-powered algorithms continually monitor every temperature sensor to detect and resolve faults or anomalies.
- Continuous monitoring ensures tenant comfort, IE ratings improvement and portfolio benchmarking.
- Tag VIP floors or NABERS IE sensors for priority action



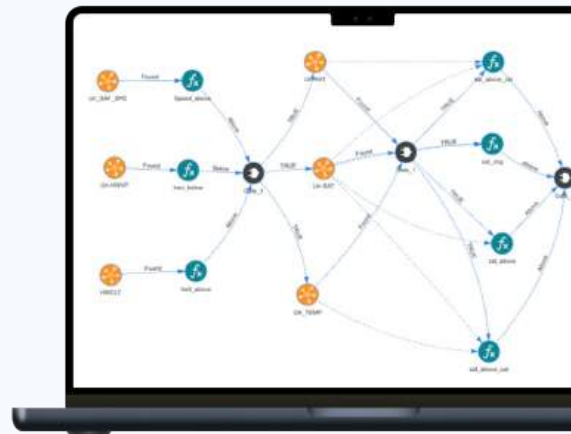
AFDD Rules Engine (automated Fault Detection & Diagnostics)

FEATURE

SERVICE

PEAK's AI-powered automated fault detection & diagnosis (AFDD) Rules Engine contains thousands of pre-configured algorithms to detect critical issues.

- Examples include overnight operation, energy wastage, safety and compliance, tenant comfort, and lift operation.
- Each identified issue includes a recommended solution and a data trend history.
- PEAK's algorithms are all built by highly qualified building engineers to avoid noisy alerts and false positives.



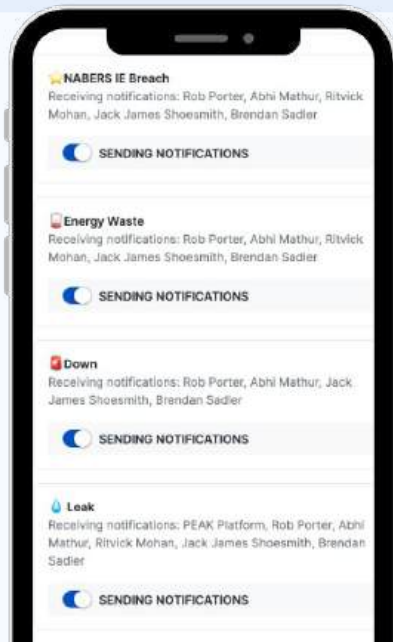
Alert notifications

FEATURE

SERVICE

Customisable alert notifications ensure critical issues get sent to the right person at the right time.

- Your team will know instantly when critical or major equipment failure occurs in the building.
- Site teams can fix issues fast, helping to avoid major issues that could impact lease agreements.
- Set up targeted notifications to your favourite apps like Slack or Teams about the equipment that is most important to you.



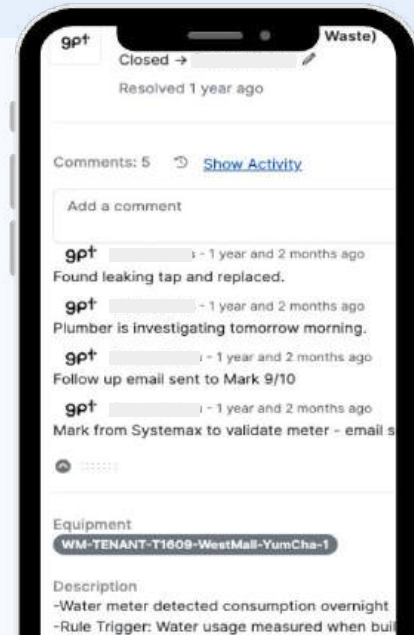
Digital workflow

FEATURE

SERVICE

Intuitive mobile workflow tool where asset teams and vendors can raise tasks, track progress and maintain a complete digital history of activity.

- Site teams can assign to issues to contractors in one click and monitor to progress to rapid rectification.
- Saves contractors significant time as photos and updates can be easily added via their mobile device
- Easily manage collaboration on activities across multiple stakeholders and buildings.



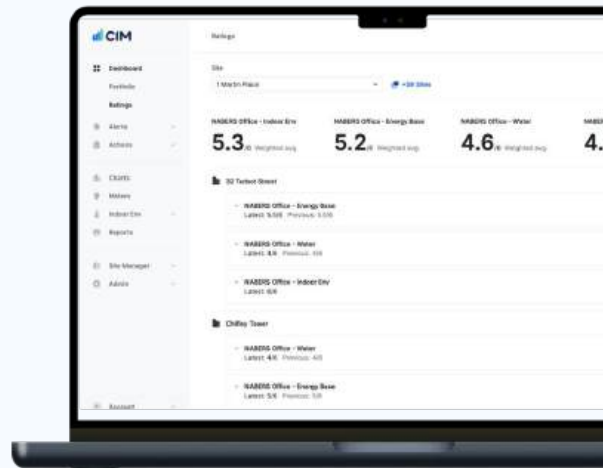
Sustainability ratings

FEATURE

SERVICE

View and share all your ratings in one place and save time by capturing historical and current rating metrics.

- Track ratings movements at an asset and weighted average portfolio level.
- Know exactly when your next rating expiry date is approaching and plan accordingly.
- Compatible with all major ratings - NABERS, BREEAM, Energy Star, etc.



Dashboards and reports

FEATURE

SERVICE

PEAK's dashboards and reports enable Asset and Operation teams to review and benchmark key portfolio and building metrics at anytime.

- Dashboards cover utility consumption, equipment KPI's, contractor activity, IEQ, team performance, lift performance and more.
- Detailed reports enable deep insight into portfolio performance over time, which supports capital planning and resource allocation.
- All PEAK data is also accessible via our enterprise grade API.



Technical Engineering Support

FEATURE

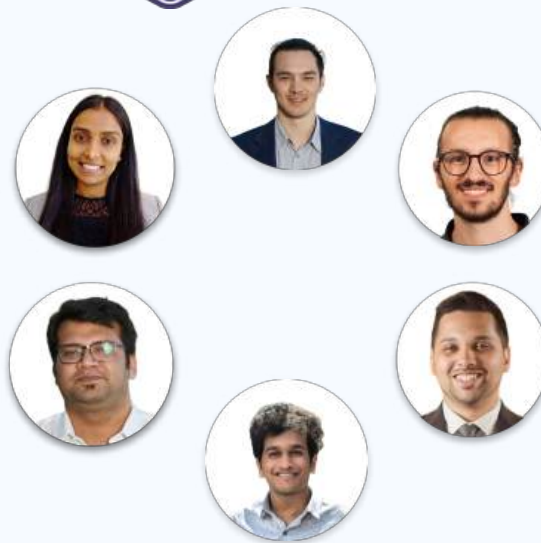
SERVICE

*Best Customer Support for
HVAC, Maintenance &
Energy Management*



An experienced point of contact dedicated to ensuring that each building achieves its performance goals.

- Oversees data onboarding, commissioning plus deployment and tuning of AFDD rules.
- Trains site teams and contractors to ensure faster issue rectification and data-driven maintenance adoption.
- Agrees regular objectives with sponsor and works with site team and contractors to ensure completion.



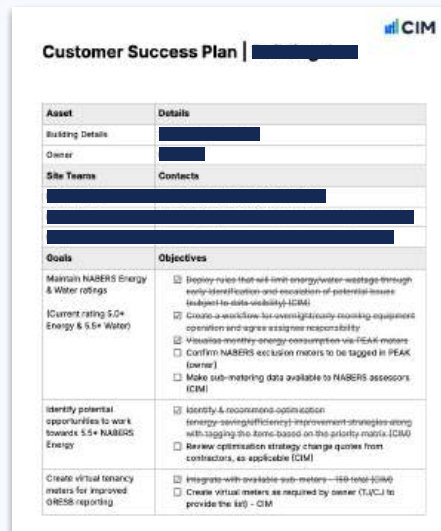
Objective-setting and alignment

FEATURE

SERVICE

Site success plan establishes clear goals and actionable strategies to drive measurable results.

- Performance Engineer collaborates with team to define site-specific goals, targeted actions, and timelines.
- Example focus areas: boosting sustainability ratings, maintaining equipment uptime, transitioning to data-driven maintenance, reducing tenant water usage.
- Progress is regularly reviewed with stakeholders to ensure alignment and adapt actions as needed.



Asset	Details
Building Details	
Owner	
Site Teams	Contacts
Goals	Objectives
Maintain NABERS Energy & Water ratings (Current rating 5.0+ Energy & 5.5+ Water)	<ul style="list-style-type: none"><input type="checkbox"/> Deploy system that will track energy/water wastage through early identification and escalation of potential issues (subject to data availability CIM)<input type="checkbox"/> Create a workflow for identifying/monitoring equipment operation and assign team responsibility<input type="checkbox"/> Visualize monthly energy consumption via P&ID meters<input type="checkbox"/> Confirm NABERS exclusion meters to be tagged in PEAK (owner)<input type="checkbox"/> Make sub-metering data available to NABERS assessors CIM
Identify potential opportunities to work towards 5.5+ NABERS Energy	<ul style="list-style-type: none"><input type="checkbox"/> Identify & recommend optimization (energy-saving/efficiency) improvement strategies along with tagging the items based on the priority matrix (CIM)<input type="checkbox"/> Review optimization strategy change queries from contractors, as applicable (CIM)
Create virtual tenancy meters for improved QMSB reporting	<ul style="list-style-type: none"><input type="checkbox"/> Integrate with available sub-meters—ISO 15004 (CIM)<input type="checkbox"/> Create virtual meters as required by owner (T/C) to provide the list - CIM

Democratising technology



Graphic Design

Expert designers
using Photoshop



Quick, creative
designs for
everyone.



Product

Data experts using
SQL and Tableau



Instant insights for
**product and
marketing teams.**



Online Payments

Finance specialists
using banking tools



Simple API to all
merchants for
non-finance devs.



Building Operations

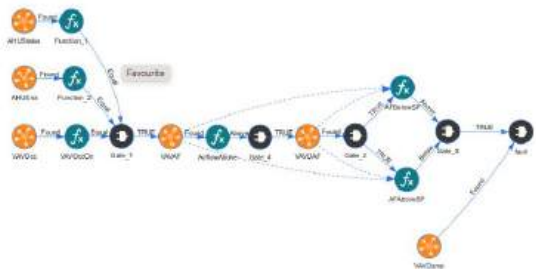
Engineers using closed
building systems



Easy data-driven
operations for **all
facilities teams.**

Advanced algorithms made by expert engineers

Access to growing database of thousands of proprietary algorithms developed by CIM's expert mechanical, mechatronic and electrical engineers based on real world building operating experience.



Air Handlers (10-100 equip)	Benefit
Overnight Operation	Energy
Overnight Heating	Energy
Economy Mode Override	Energy
Outside Temp Broken Sensor	Energy
Humidity Broken Sensor	Energy
Supply Air Loss	Energy
Supply Pressure Oversupply	Energy
Supply Temp Hunting	Energy
Hot Water Valve Leak/ Stuck	Mechanical
Chilled Water Valve Leak/ Stuck	Mechanical
Outside Air Damper Stuck	Mechanical
Outside Air Damper Hunting	Mechanical
Return Air Damper Stuck	Mechanical
Return Air Damper Hunting	Mechanical
Status Switch Broken	Mechanical
CO2 Broken Sensor	Comfort
Return Humidity Broken Sensor	Comfort
Unit Not Operating	Comfort
Zone Temp Broken Sensor	Comfort
Filter Dirty	OHS

Variable Air Volume (100-500)	Benefit
Airflow Block	Energy
Airflow Leak	Comfort
Damper Override	Comfort
Damper Stuck	Comfort
Overnight Heating	Energy

Chillers (1-10 equip)	Benefit
Unit Fail/ Fault	Mechanical
Overcooling	Energy
Short Cycling	Mechanical
Leave Temp Broken Sensor	Energy
Return Temp Broken Sensor	Energy
Condensor Flow/ Pressure Loss	Mechanical
Evaporator Flow/ Pressure Loss	Mechanical
Condensor Pressure Broken Sensor	Energy
Evaporator Pressure Broken Sensor	Energy
Insufficient Cooling	Comfort
Overnight Operation	Energy

Pumps (3-15 equip)	Benefit
Unit Not Operating	Mechanical
Status Switch Broken	Mechanical
CHW Pressure Oversupply	Energy
Overnight Operation	Energy
Pressure Broken Sensor	Energy
Mismatch CWP & CHWP	Energy

Cooling Towers (1-10 equip)	Benefit
Unit Not Operating	Mechanical
Overcooling	Mechanical
Leave Temp Broken Sensor	Energy
Return Temp Broken Sensor	Energy
Humidity Broken Sensor	Energy
Outside Temp Broken Sensor	Energy

Carpark Ventilation (3-20)	Benefit
CO Broken Sensor	OHS
CO High	OHS
Missed Daily Purge	OHS

Fans (10-50)	Benefit
Not Operating	Comfort
Overnight Operation	Energy

Meters (1-100s)	Benefit
Review Power Meter Spike	Energy
Review Water Meter Spike	Water

Hear from industry leaders

What changed for the better since they switched to PEAK Platform



"The reality is, despite having a collaborative team, that individual asset managers focus on their individual projects. PEAK allows the asset management team, as well as the senior leadership, to see things on a portfolio basis and ensure that learnings from one asset are applied across many. The data we get from the platform certainly informs our decisions, present and future."



Simon Howard
Co-Head of Australia,
LaSalle



"We asked CIM to get involved so they could give us the oversight we needed across all sites and assist our team to continually achieve the highest levels of performance, collaboration and site optimisation possible."



Scott Crellin
National Director, Group
Property Operations



"Scheduled maintenance is now a thing of the past as the data helps us determine precisely when and where maintenance is needed. We can now actively anticipate and prevent breakdowns which means equipment is more likely to last its specified lifespan and we don't have to resort to costly fixes or replacements."



Damien Stacey
National Capital & Planning
Manager



"The platform goes one step further than simply delivering data and analytics; it supplies the insights and central intelligence required to manage our portfolio sustainably and efficiently. This elevates the resilience and long-term viability of our assets, accelerating our approach to addressing climate change and unlocking environmental value."



Andrew Cole
Group Head of ESG

What our customers are saying

Visibility

Integration was incredibly simple. It shows us the issues we have that the BMS doesn't see.



Aidan Lamberth, Snr FM ALFM
3 Office Buildings QLD
32k sqm

...this is exactly the type of information we need as we head into our first NABERS rating



Darren Hynd, Head of Commercial, CBRE
1 Spring, VIC
32k sqm



PEAK is a must for business' who are serious about making a sustainable change to our future



Sam Munro, FM Retail, Knight Frank
Marketown Shopping Centre, NSW
27k sqm



Provides great oversight on our building's mech systems..and ways to optimise our existing HVAC



Justin Patman, Capital Works Mgr, BNE
Brisbane Airport, QLD
80k sqm



Collaboration

Everyone involved is using the same platform...the conversation that results from an action being raised remains on the platform..the handover from one FM to the next is less critical.



Ross Carter, WA Tech Lead CBRE
6 Office Buildings, WA
133k sqm



Takes hassle away from managing building. One stop shop to talk to contractors and track maintenance with transparency



Jacob Handy, FM Colliers
201 Charlotte, QLD
14k sqm



Easy to use for all. Great one stop program for all team members to view and add comment



Paul Matthews, Snr FM GPT
Melbourne Central, VIC
57k sqm



With live data captured, our on-site contractors can efficiently action any request promptly



Sonny Tifa, Ops Manager JLL
International Towers 1-3
280k sqm



Productivity

I have been more efficient and task saturation has been reduced. Eliminates the need to run and analyze daily alarm reports.



Amy Lazor, Ops Manager J&J
Vision Care Plant Jacksonville, US
100k sqm



One can easily forget to follow up on certain things...the reminders to actions is fantastic.



Nick DeLeon, Ops Manager CBRE
333 George, NSW
15k sqm



I love the fault alert system and the fact we can see the trend and logic



Muhammad Ali, Service Mgr QIC
Watergardens Town Centre, VIC
60k sqm



Very user friendly...allows me to action issues in a very timely manner to help improve operation



Wesley Stevens, FM Museums Vic
3 Museum Buildings, VIC
26k sqm



Digitally transforming operations across Charter Hall's office portfolio



The PEAK Platform is improving portfolio visibility, team collaboration, operational efficiency, tenant experience, and environmental performance.

Key Partnership Highlights

- **58** office sites, covering 1.45 million sqm
- **13** data providers consolidated into 1
- **2,978** actions closed, 82% closure rate
- **91%** indoor environment, up from 84% in Apr '21
- **244** stakeholders using the platform
- **17.4** million KWh of Energy saved since 2019
- **58** NPS given by FM's at Charter Hall sites
- **\$3.8** million saved on electricity since 2019

"The platform goes one step further than simply delivering data and analytics; it supplies the insights and central intelligence required to manage our portfolio sustainably and efficiently. **This elevates the resilience and long-term viability of our assets,** accelerating our approach to addressing climate change and unlocking environmental value."



Andrew Cole
Group Head of ESG

Data-driven approach achieves 38% maintenance cost savings



Viewing climate change as a 'material' risk to business, QICGRE sought a solution to help it more intelligently manage its multi-billion dollar retail property portfolio, reduce the carbon footprint of its assets and build future resilience.

Key Partnership Highlights

- **20** retail sites, covering 1.15 million sqm
- **14%** reduction in chilled water consumption
- **38%** reduction in maintenance costs
- **87%** average Thermal Comfort rating
- **5 years** of increased chiller life cycle
- **90%** fault closure rate

"Scheduled maintenance is now a thing of the past as the data helps us determine precisely when and where maintenance is needed. We can now actively anticipate and prevent breakdowns which means equipment is more likely to last its specified lifespan and we don't have to resort to costly fixes or replacements."



Damien Stacey
National Capital & Planning
Manager

Maintaining high performance across leading office portfolio

A global real estate group has leveraged PEAK to drive operational efficiency, maintain premium ratings, and improve tenant experience - despite the portfolio already boasting efficient performance and highly rated metrics.

Key Partnership Highlights

- **15** office sites, covering 600k sqm
- **90%** indoor environment, up from 68% in Jan '22
- **2** 6-Star NABERS Energy ratings gained
- **17%** portfolio energy reduction
- **2** 6-Star NABERS Energy ratings maintained
- **1,400** actions raised at 89% closure rate

"We consider the use of the PEAK Platform as part of our strategic sustainability framework... We're delighted with the role PEAK has played to bring two more assets up to a 6-Star NABERS Energy rating."

National Capital Works & Sustainability Manager

Increasing sustainability ratings and driving down utility costs

A leading Australian property group is utilising PEAK across a portfolio spanning more than 50 assets. Platform efficiencies have facilitated substantial utility savings, while improving or maintaining NABERS ratings.

Key Partnership Highlights

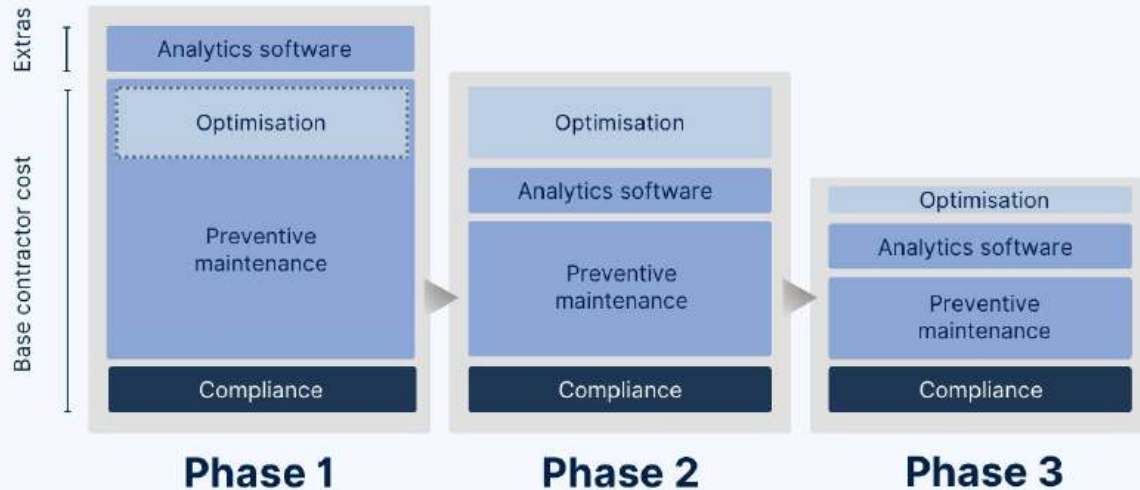
- **50+** asset portfolio over 1 million sqm
- **\$4m** in annualised utility savings
- **66%** of assets increased NABERS energy rating
- **300+** stakeholder engaging on the platform
- **56%** of assets increased NABERS water rating
- **8k+** actions closed to date on the platform
- **47** NABERS IE ratings achieved
- **63** NPS given by stakeholders

"The CIM platform provides a great oversight of my precinct, allowing me to monitor activity in real-time and identify areas for improvement. This valuable tracking data also assists in achieving NABERS energy and water efficiency ratings, which can translate to improved or sustained ratings."

Senior Precinct Manager

Data-driven maintenance

Harness the transformative power of AI and analytics to align maintenance with industry best-practice



1. Initial integration

Introduction of analytics without maintenance contracts aligned.

2. Contract evolution

Analytics with realigned maintenance contracts to comply with the principles of data-driven maintenance.

3. Mastery and refinement

Ongoing regime after clearing R&M and optimisation backlog.