

AI-powered EED compliance reporting for CloudCIX



How Clear Decisions helped Ireland's sovereign data centre operator turn fragmented, unstructured operational data into a validated, submission-ready EED report.

Company	CloudCIX Limited www.cloudcix.com
Location	Cork, Ireland
Sector	Colocation, Cloud, HPC & AI
Facilities	CIX1 (colocation) · CIX2 (high-density, liquid-cooled)
Engagement	EU Energy Efficiency Directive – Annual Compliance Reporting

The Challenge

The EU Energy Efficiency Directive requires data centre operators above 500 kW IT load to report annually on energy performance, including PUE, energy source mix, waste heat reuse, water consumption, and carbon emissions.

CloudCIX's operational data was spread across utility invoices, manual spreadsheets, and a Building Management System; all in different formats, at different levels of granularity. The team had no dedicated compliance resources, and key aspects of the reporting methodology were unclear.

Aggregating this data is highly complex – without a system to guide the process. For operators reporting annually across multiple sites, the challenge compounds with every cycle.

Grid energy

Half-hourly consumption data for the full reporting year

BMS sub-metering

30+ meter channels incl. UPS outputs, rack distribution, cooling

Environmental sensors

Minute-level temperature and humidity data

Power quality

High-resolution electrical metering across distribution boards

Renewables

Solar PV generation evidence across two on-site arrays

Facility documentation

Floor areas, power architecture, sub-distribution, certifications

5+

DISTINCT DATA SOURCES
INGESTED

30+

BMS METER CHANNELS
PROCESSED

2

FACILITIES COVERED,
ONE SUBMISSION REPORT

"The ability of your model to pull out the quality of information from that data is spectacular." // Jerry Sweeney, Managing Director, CloudCIX

From raw data to submission-ready report

Intelligent data extraction

Ingested unstructured source files and automatically extracted the relevant parameters. No reformatting or lengthy data work.

Guided data completeness

KAI, Clear Decisions' AI compliance assistant, queried the team on gaps, ambiguities and missing inputs, thereby guiding toward a complete dataset.

Automated calculation

All required EED outputs – PUE, energy breakdowns, carbon intensity – calculated automatically, with every figure fully auditable and traceable to source.

Submission-ready output

Final report aligned to the European Commission's reporting portal. Ready for submission with no rework required.

The Result

A complete meter topology

For the first time, CloudCIX had a full, structured map of their metering infrastructure across both facilities. Without this, no compliance metric can be trusted.

Their first verified PUE metrics

Auditable PUE figures calculated across CIX1 and CIX2. Validated numbers traceable to source data, creating a reliable baseline for every reporting period going forward.

A regulatory methodology clarification

The analysis identified gaps in how PUE boundaries were being applied. These are gaps that are common across the sector but rarely caught before audit.

With the meter topology and analytical framework now in place, CloudCIX is positioned for clean, efficient ongoing reporting and KPI tracking going forward.

"We were surprised at two levels. We were surprised at how much we learned from the engagement, and we were surprised at how clever the AI was."

// Jerry Sweeney, Managing Director, CloudCIX

7 min

FROM AGGREGATED DATA
TO VALIDATED ANALYSIS

Let's talk

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