Cognizant® Sustainability Accelerator Framework

Automated Data Collection
From various application sources & devices including OT data
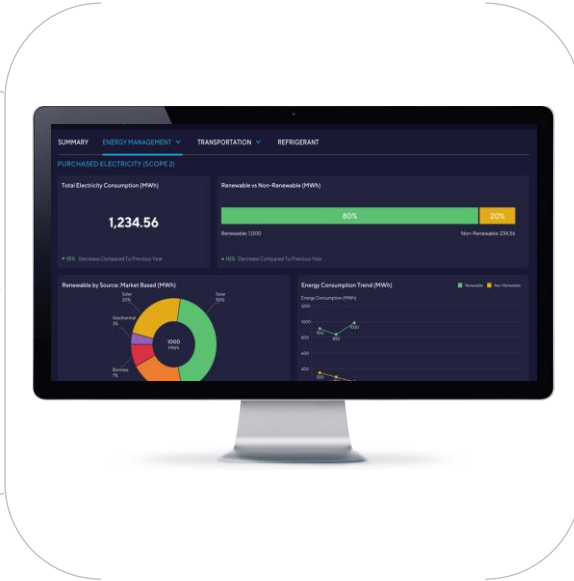
MCfS + Azure Integration
Seamless integration with Azure & Microsoft Cloud for Sustainability (MCfS)

User-based Access
Portfolio & Facility-level Access

Detailed Analysis
Temporal & Facility-wise analysis; Energy to Emission correlation & analysis
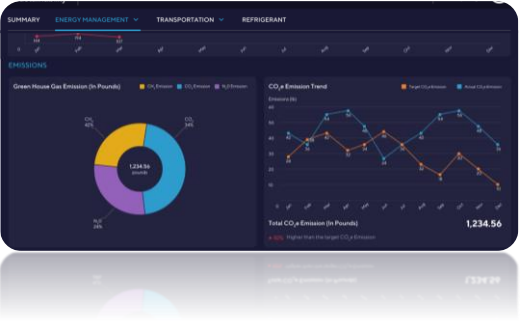
Portfolio Insights
Root Cause Analysis; Facilities by consumption & emission intensity

Conservation Measures
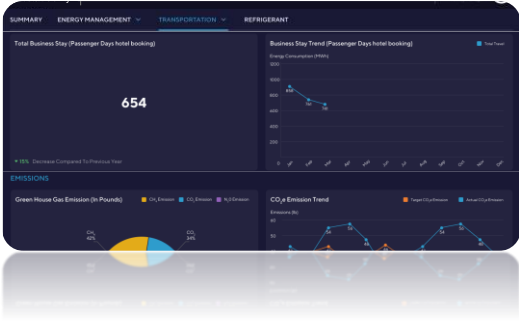Set energy conservation measures & track progress

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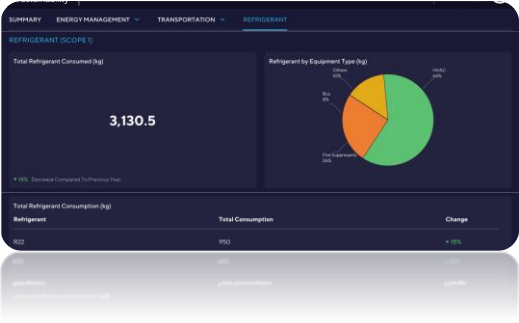# Facilities Performance View

Energy Management

Granular electricity consumption at equipment / asset level within facilities

Transportation

Scope 1 (business travel) and scope 3 (employee commute) activities data integration

Refrigerant

Detailed fugitive emissions categorized by equipment types and refrigerants

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Portfolio Performance View

Correlation Analysis

Provides ability to compare energy & fuel consumption with attributed emissions to identify opportunities to meet sustainability goals
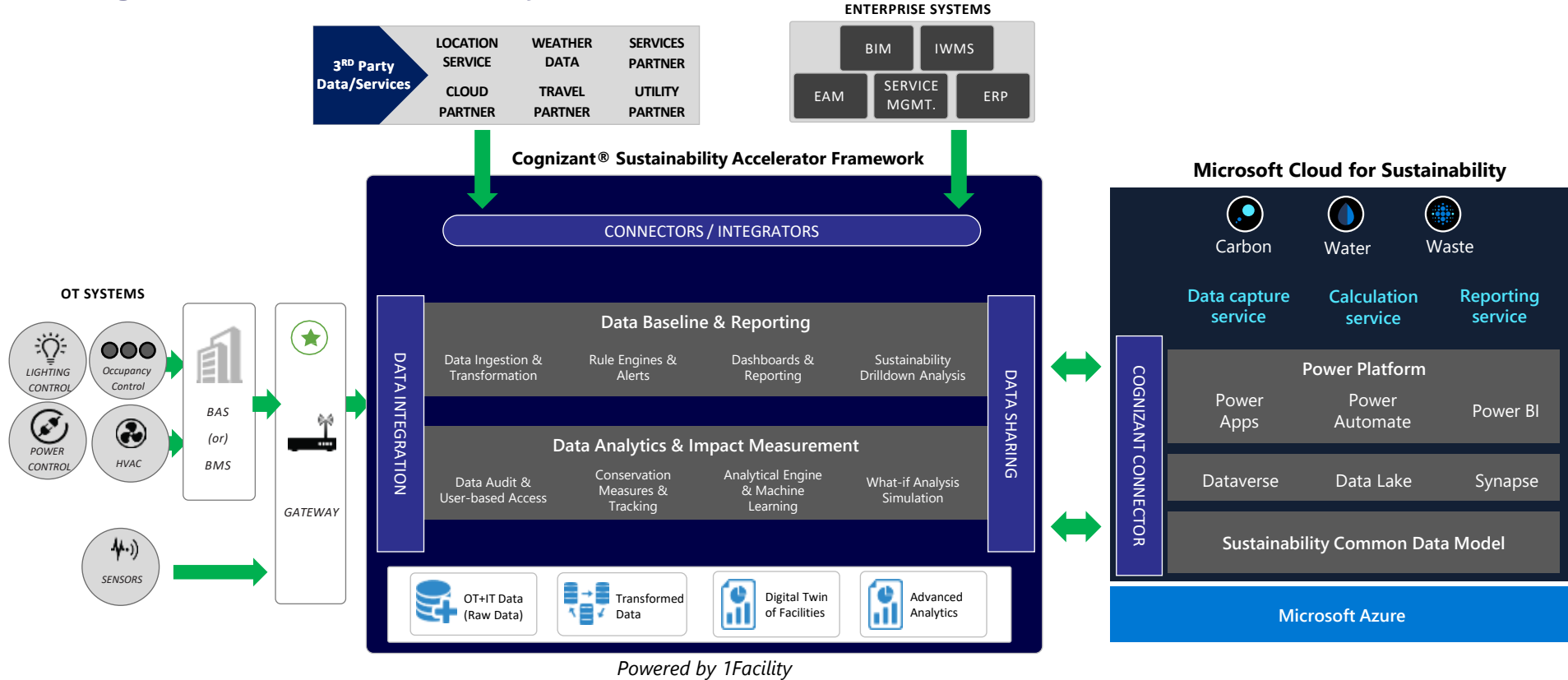

Conservation Measures

Identify Improvement Measures → Set Measurable Targets → Track To Completion

Portfolio Insights

Identify high & low performing facilities by energy sources; Identify key influencers to optimize emissions across facilities

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ENTERPRISE SYSTEMS

| BIM | IWMS |

| EAM | SERVICE MGMT. | ERP |

3RD Party Data/Services

| LOCATION SERVICE | WEATHER DATA | SERVICES PARTNER |
| CLOUD PARTNER | TRAVEL PARTNER | UTILITY PARTNER |

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Microsoft Cloud for Sustainability

Carbon   Water   Waste

Data capture service   Calculation service   Reporting service

CONNECTORS / INTEGRATORS

DATA INTEGRATION

OT SYSTEMS

LIGHTING CONTROL   Occupancy Control

POWER CONTROL   HVAC

SENSORS

BAS (or) BMS

GATEWAY

Data Baseline & Reporting

| Data Ingestion & Transformation | Rule Engines & Alerts | Dashboards & Reporting | Sustainability Drilldown Analysis |

Data Analytics & Impact Measurement

| Data Audit & User-based Access | Conservation Measures & Tracking | Analytical Engine & Machine Learning | What-if Analysis Simulation |

DATA SHARING

COGNIZANT CONNECTOR

Power Platform

| Power Apps | Power Automate | Power BI |

| Dataverse | Data Lake | Synapse |

Sustainability Common Data Model

Microsoft Azure

| OT+IT Data (Raw Data) | Transformed Data | Digital Twin of Facilities | Advanced Analytics |

Powered by 1Facility

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Cognizant® Sustainability Accelerator Framework

=
Cognizant
+
MCfS & Azure
+
IoT

Cognizant brings our proven experience in IoT technologies to provide customers a COMPREHENSIVE FRAMEWORK for:

- **Seamless energy DATA COLLECTION & management**

- **Integrated Analytics & DASHBOARDS**

- **Comprehensive emissions REPORTING with Microsoft Cloud for Sustainability**

- **Enabling customers develop source-based emission REDUCTION TARGETS**

- **ACCELERATE actions towards their sustainability goals**

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