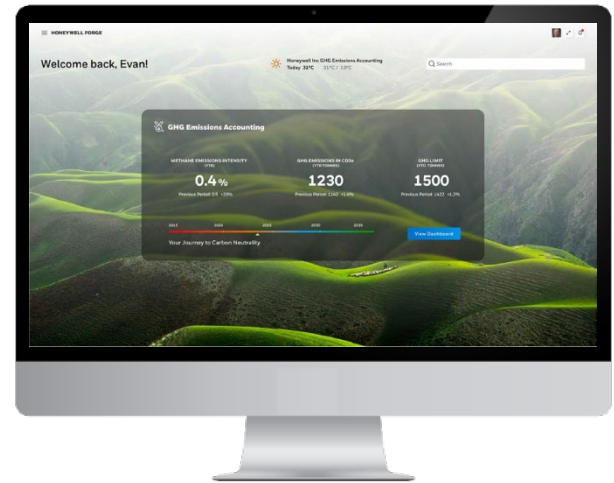




# HONEYWELL FORGE SUSTAINABILITY+ for INDUSTRIALS | EMISSIONS MANAGEMENT

## PRODUCT INFORMATION NOTE

Emissions Management is a decarbonization facilitating software-as-a-service (SaaS) for organizations seeking a consolidated system of record for tracking, measurement, and reduction activities of greenhouse gas (GHG) emissions quantities and intensities. This end-to-end SaaS solution balances the productivity of seamlessly gathering and processing data from edge monitoring devices with the flexibility of allowing users to manually configure and enter relevant data, information, equations, and emissions factors. Information derived can then be exported to an Excel report or presented onto a computer screen. Ultimately, Emissions Management fosters clarity, empowers decision making, and accelerates calls-to-action to address inefficiencies in current processes and prioritization for future capital projects and initiatives.



## 7 KEY EMISSIONS MANAGEMENT BENEFITS

- 1 AUTOMATE DATA COLLECTION & VALIDATION**

Seamlessly draws time series data from disparate historian and digital twin software sources, along with edge monitoring devices, processing equipment, and existing and legacy emissions databases. Flexible design also allows for manual input of data entries via Excel or csv files. With Honeywell Forge Sustainability+ for Industrials | Emissions Management, the aggregated emissions calculations are stored in a central repository.
- 2 ENRICH & PRIORITE DATA**

Establish a data hierarchy from possible data source types that may include (a) sensor-based, empirical data; (b) data calculated from industry-relevant formulas and emissions factors, and (c) soft-sensor data derived from digital twin simulations. The ability to select and shift between data sources addresses resource, labor, and economic realities, while providing simplified emissions information.
- 3 HARNESS VERSATILE EMISSIONS FACTORS & EQUATIONS LIBRARY**

Access an ever-growing library of pre-loaded emissions factors from multiple GHG protocols for market and industry-relevant reporting that presently includes the United States EPA emissions factors for years 2022 and 2023. These standard emissions factors can be customized to address innovative new sustainable fuels, blends, and other sourcing activities.
- 4 CALCULATE & QUANTIFY EMISSIONS IN NEAR REAL TIME**

Quantify Scope 1 and Scope 2 emissions in near real time through a robust emissions calculation engine that supports creation, modification, and management of custom formulas on a regional, site, or source level. Industry-agnostic information produced provides a cohesive, harmonized and constantly updated decarbonization status for corporate boards, officers who certify disclosures, investors, operational personnel, industry inspectors, quality auditors, and the public.

## 5 CENTRALIZE YOUR EMISSIONS DATA & INFORMATION

Supports your organization's curation of multiple leak detection and repair (LDAR) methodologies in pursuit of complementary technologies that best capture your operations and emissions reality. Thus, Emissions Management integrates content from our own Versatilis™ Signal Scout™ Methane Detectors and Rebellion Gas Cloud Imaging (GCI) Cameras – along with data and information from other third-party measurement technologies and legacy emissions databases – to create a centralized repository for Companies to compare and reconcile emissions data and information. The elegant solution offers comparative testing of data and information by methodology; provides the Customer the ability to generate simple tolerance and risk modeling; and supports the overall quality efforts of an organization.

## 6 CONFIGURE & VISUALIZE ACROSS THE ENTERPRISE

Obtain improved visibility, integrity and transparency into emissions through near real-time visual intelligence by functional role. Interrogate data at an enterprise, region, site or process unit operational scale. Data-rich dashboards present metrics and key performance indicators (KPIs) to create clarity and remove decision-making friction.

## 7 PROVIDE DATA & INFORMATION FOR VARIOUS REPORTING FRAMEWORKS

Calculate and Aggregate emissions information that address required metrics of various reporting initiatives, such as:

- Carbon Disclosure Project (CDP)
- Global Reporting Initiative (GRI)
- Oil & Gas Methane Partnership 2.0 (OGMP 2.0)
- Sustainability Accounting Standards Board (SASB)
- Task Force for Climate-Related Disclosures (TCFD)

By providing critical information that can be used for these – and many other – regulatory compliance, carbon reduction, financial, and assurance-frameworks, Emissions Management reduces resource and time commitments for reporting and transparency.

## KEY FEATURES & CORE CAPABILITIES

### EMISSIONS MANAGEMENT | DATA TRANSPARENCY



#### • Continuous, High-Fidelity, Near Real-Time Data & Information

Emissions Management's superior end-to-end solution provides constant, near real time quantification. Emissions sensors provide repeatable, consistent data and information, thus avoiding technique-sensitive, discontinuous representations of an organization's emissions baseline, status, and progress.



#### • Greenhouse Gas Emissions Calculations in Near Real Time

Emissions Management's superior end-to-end solution provides constant, near real time quantification. Emissions sensors provide repeatable, consistent data and information, thus avoiding technique-sensitive, discontinuous representations of an organization's emissions baseline, status, and progress.

Determine absolute amounts of:

- methane (CH<sub>4</sub>)
- carbon dioxide (CO<sub>2</sub>)
- nitrous oxide (N<sub>2</sub>O)
- hydrofluorocarbons (HFCs)
- perfluorocarbons (PFCs)
- sulfur hexafluoride (SF<sub>6</sub>)
- carbon dioxide equivalents (CO<sub>2</sub>e)

Determine emissions intensities of:

- methane (CH<sub>4</sub>)
- carbon dioxide (CO<sub>2</sub>)

### EMISSIONS MANAGEMENT | INSIGHTS



#### • Visibility That Matters to the User

Organize emissions-related data in a hierarchical format. Drill to specific greenhouse gas information and compare by location and size – across global enterprise, national footprint, facility, emissions category (combustion, flaring, venting or fugitive emissions), or equipment type.



#### • Configurable Visibility That Dashboards Reflect Oversight & Responsibility

Customize visualizations within Emissions Management to reflect access permissions and workflow of major stakeholders within an organization's decarbonization journey. Critical path roles of Chief Operating Officer, Chief Sustainability Officer, Plant Manager, and Process Engineer can gather the specific information necessary to perform their tasks, using predefined visual intelligence screens to monitor and track the most critical KPIs.



#### • Alerts

Import data gathered and information derived by Emissions Management by notifying Plant Professionals of sudden changes in emissions quantities from sources which were previously predictable in their process or fugitive venting.

## GO BEYOND EMISSIONS MANAGEMENT

Honeywell Forge Sustainability<sup>+</sup> for Industrials | Emissions Management balances the versatility of a centralized emissions information solution for governing existing and future mission-specific software and equipment, with the specificity to tailor needs per a company's industry and respective applications. Emissions Management is one facet in an ecosystem of decarbonization and sustainability solutions.

## WHY HONEYWELL?

Honeywell's 100+ year heritage of solving complex challenges has earned the trust and confidence of technical professionals worldwide by helping them perform their jobs in a safer, data-driven, and more efficient manner. Our software, equipment and service offerings provide a comprehensive solution across a wide array of industries and applications, displaying our broad and intensive domain knowledge. Whether working with an existing customer possessing a rich Honeywell installed base – or a new customer whose trust we've recently earned – we focus on the future our clients wish to create.

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### For More Information

Want to learn more about how Honeywell Forge Sustainability<sup>+</sup> for Industrials can help your organization in its decarbonization and sustainability journey? Visit <https://www.honeywell.com/us/en/solutions/emission-reduction> or contact your Honeywell account manager.

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