

# EMISSIONS MANAGEMENT SUITE

Through a tailored, one-stop shop emissions management approach, Honeywell is your innovation partner to help you measure, monitor, report and reduce your greenhouse gas emissions.



Honeywell

# HELPING YOU ZERO IN ON NET ZERO

On any journey to net zero, a comprehensive emissions measurement and management process is critical. Move closer to your net zero goals with Honeywell, an end-to-end solutions provider with a programmatic method to help measure, monitor, report and reduce emissions in support of a cleaner, safer planet.

For upstream oil & gas industries, we're helping reduce methane emissions.

**Methane is more than 28 times as potent as carbon dioxide at trapping heat in the atmosphere.<sup>1</sup>**

## DECARBONIZATION CHALLENGES ACROSS OIL AND GAS

Given the current state of industrial organizations, reaching sustainability targets isn't without challenging realities:

- Ensuring compliance to evolving regulatory and voluntary disclosures.
- Reporting credible methane measurement data.
- Taking action when emissions events occur.
- Managing emissions levels for flaring, combustion, venting, and fugitive sources.
- Maximizing competitiveness through sustainable operations by lowering your carbon footprint.



1. [Source: United States Environmental Protection Agency. https://www.epa.gov/gmi/importance-methane](https://www.epa.gov/gmi/importance-methane)

# A PROGRAMMATIC APPROACH TO DECARBONIZATION

Through solutions that help you measure, monitor, report and reduce greenhouse gas emissions, our approach to continuous measurement supports data accuracy, early detection and remediation, stakeholder transparency, and actionable insights. Once a baseline is firmly established, your business can measure meaningful progress toward your reduction goals at the site, source, region or enterprise level.

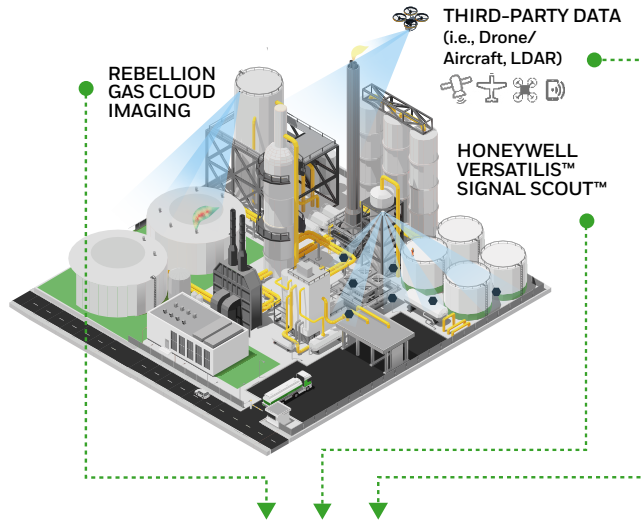


The one innovation partner you need to **move toward net zero.**



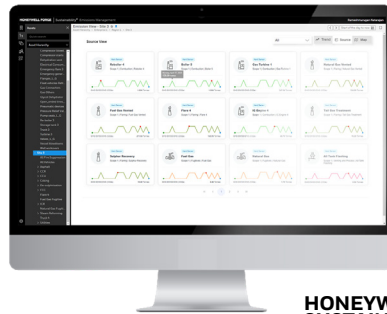
## MEASURE

Automated Near Real-Time Emissions Coverage



## MONITOR

Source, Site, Region and Enterprise Level Trending and Visualization



**HONEYWELL FORGE SUSTAINABILITY FOR INDUSTRIALS**  
EMISSIONS MANAGEMENT



## REPORT

Compiled Insights and Data Address Emissions Reduction Goals



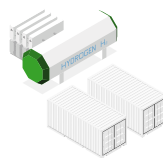
## REDUCE

Enable Automated and Manual Emissions Actions



### ENERGY EFFICIENCY & OPTIMIZATION

- Combustion Controls
- Digital Twin
- Advanced Process Control (APC)
- Process Optimization
- Asset Performance Management (APM)

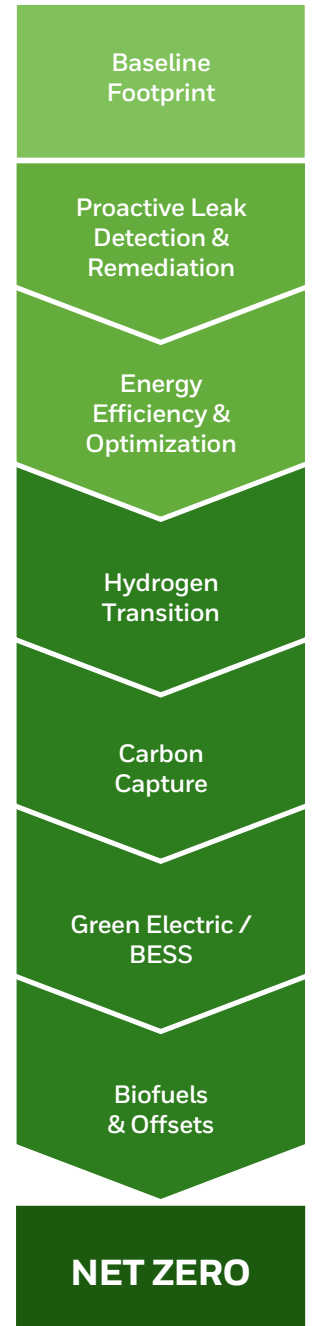


- HYDROGEN (H<sub>2</sub>) TRANSITION
- CARBON CAPTURE (CCUS)
- ENERGY STORAGE
- RENEWABLE FUELS



EMISSIONS 360 OUTCOME AND KPI BASED SERVICE PROGRAM

(CLOSE THE LOOP)



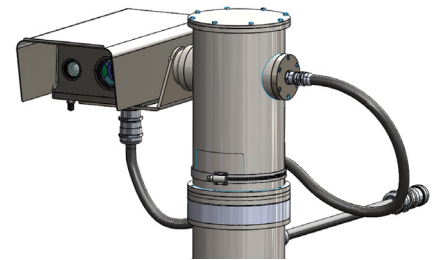
## Learn about the products in our **Emissions Management Suite**:

### MEASURE

**Honeywell Versatilis™ Signal Scout™** a new innovative gas leak detection technology for methane emissions monitoring across industries; communication is based on LoRaWAN® protocol for large area coverage. The compact and aerodynamic design is coupled with easy installation and commissioning for quick deployment in the field and has HAZLOC Area Certification.

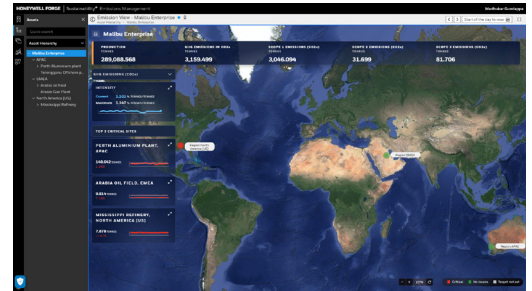


**Rebellion Gas Cloud Imaging Camera (GCI).** Honeywell has a decade of experience in advanced hyperspectral gas imaging systems for the oil and gas, petrochemical and power industries. Rapid visual verification of gas leaks, as well as the size and direction of the plume, provides the visualization of data you need to help with your environmental monitoring efforts. Rebellion cameras provide wide area/site level coverage and monitors 20+ gases (including methane).



### MONITOR & REPORT

**The Honeywell Forge Sustainability+ for Industrials | Emissions Management.** The enterprise-level Software-as-a-Service (SaaS) platform integrates with both Honeywell and third-party measurement devices, or other data sources, to foster rapid reconciliation or comparisons between measurement methods for verification, ensuring auditability for mandatory and voluntary reporting disclosures.



### REDUCE

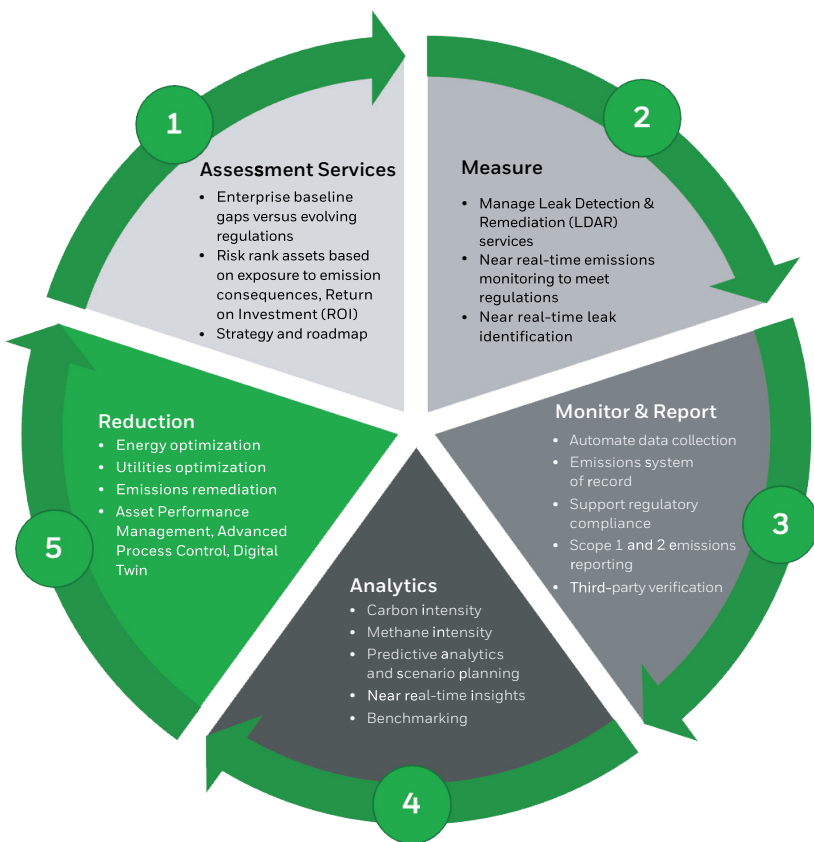
Once a baseline is firmly established, your business can measure progress against your reduction goals at the source, site, region, or enterprise level. Honeywell offers an integrated unique set of products to help you in your efforts to optimize processes and reduce emissions, including combustion control and systems solutions, proactive leak management, energy efficiency through Advanced Process Control (APC), Asset Performance Management (APM) and process optimization, and outcome prediction with Digital Twin technology.



# ACHIEVE AND MAINTAIN SUSTAINABLE OUTCOMES

Honeywell offers Emissions 360, a tailored, outcome-based program intended to help customers reduce their greenhouse gas emissions and meet sustainability targets.

- 100% compliance to support voluntary and mandatory reporting.<sup>3</sup>
- 5% YoY leading to 30% reduction in GHG by 2030.<sup>3</sup>
- Increase competitiveness through reduced carbon footprint.
- Early detection of potential issues and timely intervention to mitigate emissions.
- Improve profitability from monetization from reduction of product losses.



We can also implement the following products, technologies and strategies that are designed to enable both automated and manual emissions reduction actions:

- Plantwide H<sub>2</sub> optimization
- Carbon capture
- Green electricity
- Adoption of H<sub>2</sub> through burners and purification
- Use of biofuels and offsets

## MEASURABLE EXPERIENCE AND EXPERTISE

As your strategic partner to achieve defined outcomes, Honeywell has a track record of success in decarbonization efforts including:

- 70+ years of experience with carbon capture.
- 15 million tons per year of CO<sub>2</sub> is being captured and used in storage/utilization applications through Honeywell's CO<sub>2</sub> Solutions process expertise.<sup>2</sup>
- Licensed more than 1,100 installations of hydrogen purification technologies worldwide.
- Battery energy storage systems delivered to 47 sites.
- Sensors and cameras deployed at 150+ facilities.
- 600+ sites for process optimization and asset performance management.
- Licensed more than 40 sustainable aviation fuel (SAF) projects worldwide.

<sup>2</sup> Includes capacity of deployed Honeywell technology (membranes and chemical & physical solvents) in installed projects enabling CO<sub>2</sub> capture from gas streams, of which 15 million tonnes of the captured CO<sub>2</sub> is being utilized for enhanced oil recovery annually.

<sup>3</sup> Depends on baseline and reduction strategy deployed.

# YOUR PARTNER ON THE JOURNEY TO NET-ZERO

Honeywell is the one partner you need to help execute on your emissions management strategy. With a portfolio of ready-now solutions, a global reach and local resource execution, Honeywell has a breadth of resources that can help you meet your sustainability goals at the scale and speed you expect.



**For more information**

[www.honeywell.com/us/en/solutions/emission-reduction](http://www.honeywell.com/us/en/solutions/emission-reduction)

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**THE  
FUTURE  
IS  
WHAT  
WE  
MAKE IT**

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