

## GHG Reporting Solutions

Comply with new GHG reporting regulations quickly and easily



Honeywell's Greenhouse Gas (GHG) reporting solutions allow companies to monitor and report CO<sub>2</sub> emissions as required by EPA regulations. These solutions perform measurement, data acquisition, calculations, record keeping, analysis, notification, reporting, and quality assurance from multiple emissions sources to not only meet compliance demands, but do it in a simple, cost effective, low risk manner, with the flexibility for expansion as environmental, regulatory and operating conditions change.

### Background on the Regulation

On September 22, 2009, the U.S. Environmental Protection Agency (EPA) issued a final rule for mandatory reporting of greenhouse gases (GHG) from large GHG emissions sources in the United States. Their press release states, "On January 1, 2010, the U.S. Environmental Protection Agency will, for the first time, require large emitters of heat-trapping emissions to begin collecting GHG data under a new reporting system. This new program will cover approximately 85 percent of the nation's GHG emissions and apply to roughly 10,000 facilities".

The rule addresses mandatory reporting of greenhouse gas emissions for facilities for units, processes, activities, and operations. All major industries are required to report GHG emissions annually for stationary fuel combustion sources and industry-specific process emission sources. Specific reporting requirements are laid out for each of the various industries. Examples include petroleum refineries, which are required to report on emissions from specific emissions sources such as sulfur recovery units, catalytic reduction units, flares, process vents, and tanks.

### Who is affected by the regulation?

- Industrial facilities that are in a GHG emissions source category will require mandatory reporting
- Industrial facilities that emit >25000 tons of CO<sub>2</sub> equivalents per year are required to report annually GHG emissions. (This includes N<sub>2</sub>O, CO<sub>2</sub>, CH<sub>4</sub> and hydro-fluorocarbons.)
- Most process industries are affected - approximately 8,500 in the US. Pulp and paper, hydrocarbon

processing, chemicals, cement, iron and steel would be impacted the most.

- Facilities that also report to the Acid Rain Program (for NO<sub>x</sub> and SO<sub>2</sub>) will continue to use current practices but submit GHG emissions reports in addition.

### How is record keeping and reporting handled?

- Data is to be verified by the EPA not 3rd parties.
- Several subparts of the regulation describe the approved methods for monitoring emissions. These range from allowed engineering calculations, recommended monitoring locations and options and recommended measuring devices.
- Quality assurance is required which describes calibration frequency requirements and accuracy specifications for meters, analyzers and samples.
- Records are required to be retained for 3 years.
- Electronic formatted system is under development to allow for web-based submittal of emissions reporting using standard formats (e.g. XML).

### What does this mean to me?

If you qualify as an affected facility you will have to start collecting the appropriate data starting January 1, 2010 and be in a position to report GHG emissions. Most facilities already collecting emissions data via monitoring methods must use a direct measurement for emissions rather than the engineering

calculations. Best available monitoring methods may be used initially but only until March 31, 2010.

### Honeywell's GHG Reporting Solutions

Honeywell has developed a Dashboard that provides a robust solution designed to meet this new regulation. Powered by Honeywell's Environmental Information System, Cirrus EIS™, the dashboard enables companies to monitor and report CO<sub>2</sub> emissions as required by the regulation. It performs measurement, data acquisition, calculations, record keeping, analysis, notification, reporting, and quality assurance from multiple emissions sources to not only meet compliance demands, but do it in a simple, cost effective, low risk manner, with the flexibility for expansion as environmental, regulatory and operating conditions change.

In addition to a facility-wide GHG emissions reporting solution, Honeywell offers consulting support services to help customers design optimal data collection strategies, Cirrus EIS emissions monitoring and reporting systems, as well as continuous emissions monitoring technology that allows for more accurate continuous measurement of stack emissions. These solutions can be standalone, or integrated into Honeywell control systems, existing Cirrus EIS, or third party control systems.

The GHG emissions reporting solution represents the foundation that can be expanded into the Energy and Emissions Management Solution portfolio, which helps processing facilities improve energy efficiency and reduce GHG emissions. The dashboard gathers information from various instruments and systems and tracks their energy consumption against dynamic energy targets. The Energy Dashboard enables users to establish specific goals for reducing energy consumption, costs and the associated GHG emissions, as well as to measure actual performance against those goals.



Honeywell's Cirrus EIS™ standalone Environmental Information System.

### More Information

For more information on any of Honeywell's Products, contact your Honeywell account manager or inquire at

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