

Hydrogen Production Monitoring Checklist



Final Rule: Mandatory Reporting of Greenhouse Gases

What Must Be Monitored for Each Hydrogen Production Unit?

If NOT using a CEMS, measure these parameters on a monthly basis (unless otherwise noted)...

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Volume of gaseous fuel and feedstock used (standard cubic feet [scf]) | <input type="checkbox"/> Carbon content of solid fuel and feedstock (kg C per kg of feedstock) |
| <input type="checkbox"/> Carbon content of gaseous fuel and feedstock (kilograms [kg] C per kg of fuel and feedstock)(annually for hydrocarbons, weekly for non-hydrocarbons) | <input type="checkbox"/> Quarterly quantity of carbon dioxide collected and transferred off site in either gas, liquid, or solid forms (kg) |
| <input type="checkbox"/> Molecular weight of gaseous fuel and feedstock (kg/kg-mole)(annually for hydrocarbons, weekly for non-hydrocarbons) | <input type="checkbox"/> Annual quantity of carbon other than carbon dioxide collected and transferred off site in either gas, liquid, or solid forms (kg) |
| <input type="checkbox"/> Volume of liquid fuel and feedstock used (gallons) | <input type="checkbox"/> Annual quantity of hydrogen produced (metric tons) |
| <input type="checkbox"/> Carbon content of liquid fuel and feedstock (kg C per gallon) | <input type="checkbox"/> Annual quantity of ammonia produced, if applicable (metric tons) |
| <input type="checkbox"/> Mass of solid fuel and feedstock used (kg) | |

If using a CEMS:

In addition to the monitoring requirements under 40 CFR subpart C for the Tier 4 Calculation Methodology, measure these parameters...

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|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Annual quantity of hydrogen produced (metric tons) | <input type="checkbox"/> Annual quantity of ammonia produced, if applicable (metric tons) |
| <input type="checkbox"/> Quarterly quantity of carbon dioxide collected and transferred off site in either gas, liquid, or solid forms (kg) | <input type="checkbox"/> Annual quantity of carbon other than carbon dioxide collected and transferred off site in either gas, liquid, or solid forms (kg) |

See also the information sheet for Hydrogen Production (EPA-430-F-09-027R) at:
www.epa.gov/climatechange/emissions/downloads/infosheets/hydrogenproduction.pdf.

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