



### RFS Efficient Producer Data Form (RFS2500): Instructions for Completing

#### Who should use this form

- All fuel producers or importers generating RINs for fuel produced through an Efficient Producer pathway approved by EPA through the petition process for the evaluation of new fuel pathways at 40 CFR 80.1416.<sup>1</sup>

#### Reporting requirements

- Fuel producers or importers generating RINs for fuel produced through an approved Efficient Producer pathway shall report this information as part of the quarterly RIN generation reports required under 40 CFR 80.1451(b).<sup>2</sup>
- The authority to generate RINs through an Efficient Producer pathway is expressly conditioned on satisfying all of the conditions specified in the signed Efficient Producer pathway determination for your pathway, in addition to and including all other applicable requirements for renewable fuel producers set forth in the RFS regulations. Failure to properly report per this data form may represent a failure to meet the conditions specified for your pathway.
- Enter a separate report line for each and every day in the production calendar quarter (“production date”). For days that your facility was not operational enter zeros for each applicable value, as appropriate.
- For each and every production date in the quarter, enter a separate report line for each and every combination of feedstock and fuel type used in an approved Efficient Producer pathway. For example, if your facility has approved Efficient Producer pathways for corn starch ethanol and grain sorghum ethanol, and you produce ethanol from both feedstocks on a given day, enter two separate report lines for that day: one report line for corn starch ethanol and another report line for grain sorghum ethanol.
- Enter the data obtained and recorded according to your facility’s Compliance Monitoring Plan as submitted to and accepted by the EPA pursuant to the signed Efficient Producer pathway determination for your facility and 40 CFR 80.1450(b)(1)(ii).
- Only producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) must report data in fields 23-30.
- Note that “MD” for missing data should be entered only where the missing data is in fact unavailable per the conditions in the signed Efficient Producer pathway determination and accepted Compliance Monitoring Plan for your pathway.
- This data form does not modify any of the existing forms used to satisfy the reporting requirements at 40 CFR 80.1451(b).
- All fields must be completed. Enter “NA” in any field which does not apply to your fuel pathway.

#### Reporting deadlines

- Applicable fuel producers shall report on a quarterly basis:

Production Calendar Quarter	Time Period Covered	Quarterly Report Deadline
Quarter 1	January 1 – March 31	June 1

<sup>1</sup> Determination documents for Efficient Producer pathways are available at: <http://www.epa.gov/renewable-fuel-standard-program/approved-pathways-renewable-fuel>).

<sup>2</sup> [http://www.ecfr.gov/cgi-bin/text-idx?SID=354294fee688f6d54979e2638c0decf5&node=se40.17.80\\_11451&rgn=div8](http://www.ecfr.gov/cgi-bin/text-idx?SID=354294fee688f6d54979e2638c0decf5&node=se40.17.80_11451&rgn=div8)).



Quarter 2	April 1 – June 30	September 1
Quarter 3	July 1 – September 30	December 1
Quarter 4	October 1 – December 31	March 31

**How to submit reports**

- EPA maintains report templates, electronic submission procedures and additional support options at <http://www.epa.gov/otaq/fuels/reporting/cdx.htm>.

**Field Instructions**

Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
1	Report Form ID		<b>AAAAAA</b> ; <i>Character</i> . Enter <b>RFS2500</b>
2	Report Type		<b>A</b> ; <i>Character</i> . Specify if the data submitted in this report is original or if it is being resubmitted. Submit only one original report; any corrections or updates should be marked as a resubmission. <b>O</b> = Original <b>R</b> = Resubmission
3	CBI		<b>A</b> ; <i>Character</i> . Specify if the data contained within the report is claimed as Confidential Business Information (CBI) under 40 CFR Part 2, subpart B: <b>Y</b> = Confidential Business Information <b>N</b> = Non-Confidential Business Information
4	Report Date		<b>MM/DD/YYYY</b> ; <i>Character</i> . Enter the date the original or resubmitted report is created.
5	Production Calendar Year		<b>YYYY</b> ; <i>Character</i> . Enter the calendar year the report covers.
6	Production Calendar Quarter		<b>AA</b> ; <i>Character</i> . Enter the quarter this report covers. For example, enter “Q1” for the first quarter.  Q1 – January 1 – March 31 Q2 – April 1 – June 30 Q3 – July 1 – September 30 Q4 – October 1 – December 31



Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
7	RIN Originator Company ID		<b>AAAA; Character.</b> If the RIN Originator is different than the Renewable Fuel Producer, enter the EPA assigned four-character ID for the RIN-originator. Otherwise, enter "N/A." Enter only one RIN Originator ID in this field.
8	RIN Originator Facility ID		<b>AAAA; Character.</b> If the RIN Originator Facility is different than the Renewable Fuel Producer Facility, enter the EPA assigned four-character ID for the RIN-originator. Otherwise, enter "N/A." Enter only one RIN Originator Facility ID in this field.
9	Renewable Fuel Producer Company ID		<b>AAAA; Character.</b> Enter the EPA assigned four-character ID for the renewable fuel producer. Enter only one Renewable Fuel Producer Company ID in this field.
10	Renewable Fuel Producer Facility ID		<b>AAAAA; Character.</b> Enter the EPA-assigned five-character ID for the renewable fuel production facility. Enter only one facility ID in this field.
11	Production Date		<b>MM/DD/YYYY; Date.</b> Enter the date that corresponds with the data reported in the fields below. Each quarterly report must include an entry for each and every day in the quarter.
12	Feedstock		<b>AAA; Character.</b> Enter the name of the feedstock as specified in the EPA determination document that approved your facility's Efficient Producer pathway.
13	Fuel		<b>AAA; Character.</b> Enter the name of fuel as specified in the EPA determination document that approved your facility's Efficient Producer pathway.



Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
14	Amount of Feedstock Used	Dry Pounds	<p><b>9999999999</b>; <i>Character.</i> Enter the amount of the feedstock listed in Field No. 12 used on the production date listed in Field No. 11. Data must be reported in dry pounds at zero percent moisture content by mass.</p> <p><b>Note:</b> Enter a zero if the feedstock was not used on the production date. If data are missing for use of the feedstock on the production date enter “MD” for missing data.</p>
15	Amount of Fuel Produced	Gallons or Btu	<p><b>9999999999</b>; <i>Character.</i> Enter the amount of the fuel listed in Field No. 13 produced on the production date listed in Field No. 11. Liquid fuels must be reported in standard gallons at 60 degrees Fahrenheit, rounded to the nearest one-hundredth (i.e., two decimal places). Non-liquid fuels must be reported in Btu on LHV basis, rounded to the nearest Btu (i.e., no decimals).</p> <p><b>Note:</b> Enter zero if the fuel was not produced on the production date.</p>
16	Natural Gas Used	Standard Cubic Feet (scf)	<p><b>9999999999</b>; <i>Character.</i> Enter the amount of natural gas used by the fuel production facility on the production date listed in Field No. 11. Data must be reported in scf, assuming 983 British thermal units (Btu) per scf of natural gas on a lower heating value (LHV) basis, rounded to the nearest one-hundredth (i.e., two decimal places).</p> <p><b>Note:</b> If natural gas use data is missing for the production date, enter “MD” for missing data.</p>



Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
17	Biogas Methane Used	scf	<p><b>999999999</b>; <i>Number</i>. The amount of biogas methane used by the fuel production facility on the production date listed in Field No. 11. Data must be report in scf, assuming 983 Btu per scf of methane gas on a LHV basis, rounded to the nearest one-hundredth (i.e., two decimal places).</p> <p><b>Note:</b> Report only the volume of methane contained in the biogas. For example, if the facility uses 10 scf of biogas at 50% methane, then report 5 scf of biogas methane use. If biogas methane use data is missing for the production date, enter “MD” for missing data.</p>
18	Grid Electricity Used	Kilowatt hours (kWh)	<p><b>999999999</b>; <i>Number</i>. The net amount of grid electricity used by the fuel production facility on the production date listed in Field No. 11. Data must be reported in kWh rounded to the nearest one-hundredth (i.e., two decimal places).</p> <p><b>Note:</b> Net grid electricity use is the amount procured from the grid by the fuel production facility minus the amount exported by the fuel production facility to the grid. If grid electricity use data is missing for the production date, enter “MD” for missing data.</p>
19	Coal Used	Tons	<p><b>999999999</b>; <i>Number</i>. The amount of coal used by the fuel production facility on the production date listed in Field No. 11. Data must be reported in short tons rounded to the nearest one-hundredth (i.e., two decimal places).</p> <p><b>Note:</b> If coal use data is missing for the production date, enter “MD” for missing data.</p>



Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
20	Biomass Used	Dry pounds (dry lbs)	<b>9999999999; Number.</b> The amount of biomass used for process heat fuel by the fuel production facility on the production date listed in Field No. 11. Data must be reported in dry pounds (0% moisture by mass) rounded to the nearest tenth (i.e., one decimal place).  <b>Note:</b> If biomass use data is missing for the production date, enter “MD” for missing data.
21	365-Day Rolling Average Lifecycle GHG Emissions	Kilograms of carbon dioxide-equivalent emissions per million Btu (LHV) of fuel (kgCO <sub>2</sub> e/mmBtu)	<b>9999; Number.</b> Enter the 365-day rolling average lifecycle GHG emissions associated with the fuel listed in Field No. 13 produced from the feedstock listed in Field No. 12 on the production date listed in Field No. 11. This value is calculated by the reporting company in accordance with all of the relevant formulas in the reporting company’s applicable pathway determination document. Data must be reported in kgCO <sub>2</sub> e per mmBtu of fuel produced on LHV basis, rounded to the nearest one-hundredth (i.e., two decimal places).
22	Comments		<i>Optional.</i> One thousand characters or less. Use this optional field to explain additional details, such as the reasons for any missing data.
23	Sequestration Facility GHGRP ID		<b>AAAAAAA; Character.</b> Enter the EPA assigned six-character GHG Reporting Program ID for the sequestration facility, as of the end of the reporting period (applicable to producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) only. Enter “NA” if this field does not apply to your fuel pathway).



Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
24	Renewable fuel facility GHGRP ID		<b>AAAAAAA</b> ; <i>Character</i> . Enter the EPA assigned six-character GHG Reporting Program ID for the sequestration facility, as of the end of the reporting period (applicable to producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) only. Enter “NA” if this field does not apply to your fuel pathway).
25	Onsite CO <sub>2</sub> Injection		<b>A</b> ; <i>Character</i> . If the CO <sub>2</sub> injection occurs on the renewable fuel production site, report that onsite injection is occurring (applicable to producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) only. Enter “NA” if this field does not apply to your fuel pathway). <b>Y</b> = Onsite injection <b>N</b> = No onsite injection
26	Offsite CO <sub>2</sub> Injection		<b>A</b> ; <i>Character</i> . If the CO <sub>2</sub> injection occurs off the renewable fuel production site, report that injection is occurring (applicable to producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) only. Enter “NA” if this field does not apply to your fuel pathway). <b>Y</b> = Offsite injection <b>N</b> = No offsite injection



Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
27	40 CFR part 98, Subpart RR Compliance		<p><b>A; Character.</b> Report that the facility or facilities injecting captured CO<sub>2</sub> report(s) in accordance with 40 CFR part 98, subpart RR (applicable to producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) only. Enter "NA" if this field does not apply to your fuel pathway).</p> <p><b>Y</b> = facility or facilities injecting captured CO<sub>2</sub> report(s) in compliance with 40 CFR part 98, subpart RR</p> <p><b>N</b> = facility or facilities injecting captured CO<sub>2</sub> do not report in compliance with 40 CFR part 98, subpart RR</p>
28	Certification of Known Leakage From Geologic Sequestration		<p><b>A; Character.</b> If RINs were generated under any pathways including CCS, specify whether there has been any detected GHG surface leakage during this reporting period (applicable to producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) only. Enter "NA" if this field does not apply to your fuel pathway).</p> <p><b>Y</b> = Known Leakage</p> <p><b>N</b> = No Known Leakage</p>
29	Captured CO <sub>2</sub> Sent for Injection	Metric tons	<p><b>999999; Number.</b> The amount of carbon dioxide captured and sent for injection and eventual sequestration associated with the fuel listed in Field No. 13 produced using a pathway including CCS from the feedstock listed in Field No. 12 the production date listed in Field No. 11. Data must be reported in metric tons and rounded to the nearest tenth (one decimal place) (applicable to producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) only. Enter "NA" if this field does not apply to your fuel pathway).</p>





Field No.	Field Name	Units	Field Formats, Codes & Special Instructions
30	365-Day Rolling Average Net Sequestration Ratio	Value between 0 and 1 (Unitless)	<b>9999; Number.</b> Enter the 365-day rolling average net CO <sub>2</sub> sequestered associated with the fuel listed in Field No. 13 produced using a pathway including CCS from the feedstock listed in Field No. 12 on the production date listed in Field No. 11. This value is calculated by the reporting company in accordance with all of the relevant formulae in the reporting company's applicable pathway determination document. Data must be reported rounded to the nearest one-thousandth (i.e., three decimal places) (applicable to producers or importers whose approved Efficient Producer pathway includes carbon capture and sequestration (CCS) only. Enter "NA" if this field does not apply to your fuel pathway).

Paperwork Reduction Act Statement

The public reporting and recordkeeping burden for this collection of information is disclosed in the estimates of the individual report form instructions. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.