



2019 SmartWay Rail Carrier Partner Tool: User Guide

U.S. Version 2.0.18 (Data Year 2018)



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**U.S. Version 2.0.18
(Data Year 2018)**

Transportation and Climate Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

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Pre-Checklist – Before Getting Started




WHAT IS THE SMARTWAY TRANSPORT PARTNERSHIP?

Launched in 2003, the SmartWay Transport Partnership is a public/private collaboration between the EPA and the freight industry to improve fuel efficiency, increase environmental performance, and encourage supply chain sustainability.

Seven types of freight transport companies can join SmartWay.

-  Freight shippers
-  Logistics companies (including 3PLs/4PLs¹)
-  Truck carriers
-  Rail carriers
-  Barge carriers
-  Multimodal carriers
-  Air carriers

Companies join the SmartWay Transport Partnership by submitting a Partner Tool to SmartWay. The SmartWay Tools:

-  assess freight operations;
-  calculate fuel consumption and carbon footprints; and
-  track fuel-efficiency and emission reductions. SmartWay Tools must be submitted each year for the company to remain a Partner in good standing. Tools submitted and approved on time qualify partners to use the SmartWay Logo.




SmartWay ranks Partners' efficiency and environmental performance and recognizes superior performance through the SmartWay Excellence Awards.

HOW DO RAIL COMPANIES JOIN THE SMARTWAY TRANSPORT PARTNERSHIP?





Rail companies that join the SmartWay Transport Partnership are known as "SmartWay Rail Partners."

¹ 3PLs/4PLs Third party logistics/fourth-party logistics companies

Participation in SmartWay helps SmartWay Rail Partners:

-  identify opportunities to improve efficiency;
-  demonstrate efficiency to potential customers; and
-  reduce emissions and fuel costs.

All SmartWay Rail Partners agree to complete and submit the SmartWay Rail Tool to:

-  define fleet composition;
-  characterize fleet activity;
-  individually benchmark multiple fleets; and
-  track annual changes in performance.






SmartWay Rail Partners also agree to follow the guidelines in the Carrier Partnership Agreement. A copy of the Agreement is included in this document on page 5 and is also included in the Rail Tool.

Upon approval of a Rail Tool submission, rail companies will be identified as SmartWay Rail Partners on EPA's website on the "SmartWay Partner List" and in a database used by freight shippers to identify companies that meet SmartWay's annual requirements.

SmartWay Rail Partners in good standing are allowed to use the SmartWay Partner logo on marketing and promotional material.

WHAT DATA DO I NEED TO GATHER TO COMPLETE THE RAIL CARRIER TOOL?

To participate in SmartWay, rail carriers need to gather the following essential information to complete the Rail Carrier Tool:

-  The official company name EXACTLY as you would like it presented on the EPA website and other EPA communications
-  Company contact information
-  Contact details for your Working Contact (see page 9 for definition)
-  Contact details for an Executive, Sustainability and/or Other Contact(s) (Executive cannot be the same as the Working Contact) (see page 9 for definition)
-  Fleet details for all fleets you control:
 - Fleet name and fleet class (1, 2, or 3)
 - Geographic areas of operation

- Power unit information:
 - Activity (number of units or hours per year)
 - By type
 - By engine tier level
 - Locomotive unit miles per year
 - Unit, way, and through trains
 - Train and yard switching
 - Operations information
 - Gallons per year by fuel type (diesel, biodiesel, LNG, CNG, electric) and by category (freight, passenger, switching)
 - Ton-miles per year
 - Gross, revenue, and non-revenue totals
 - Total railcar miles per year
- Data sources
- SmartWay ID number (if this is not your first tool submission)

This data should be provided for all of your company's fleets. This data reflects the amount of freight carried by each carrier, the distance that freight is carried, and the fuel consumed to carry the freight.

WHAT SOFTWARE & HARDWARE IS REQUIRED FOR COMPLETING THE RAIL CARRIER TOOL?

The Rail Carrier Tool was designed in Microsoft Excel using forms and Visual Basic for Applications (VBA) macros and code. Completing the Rail Carrier Tool requires the following software and system requirements:

Supported Operating Systems

 Microsoft Windows 7 or later

- Includes Windows 7, Windows 8 and 8.1, and Windows 10
- The Tool should also be compatible with Windows XP if all other requirements are met as well. However, Windows XP has reached end of support and Microsoft and this may affect tool performance.

System Requirements

 IBM Pentium processor or greater

 2 GB Ram

 100 MB disk space

 Monitor display setting of 1,024 x 768 or greater

Software Requirements

 Microsoft Excel 2010 or later

- Includes Excel 2010, Excel 2013, Excel 2016 and Excel in Office 365
- Must be the one-time purchase version of Microsoft Excel installed on a PC or the Office 365 subscription **desktop version** of the application; *cannot run with Microsoft Excel online or through OneDrive online*
- The Tool should also be compatible with Excel 2007 if all other requirements are met as well. However, Excel 2007 has reached end of support and Microsoft no longer provides technical support, bug fixes, or security fixes. This may affect tool performance.
- Excel 2010 will also reach end of support by Microsoft on October 13, 2020.



Please check with the user guides for your computer, online support, or your company's IT department to make sure your system is set up to use the Rail Carrier Tool.

HOW DO I SET THE SECURITY LEVEL WHEN OPENING SMARTWAY TOOLS?

Since the Tool employs macros, Excel macros must be enabled to use the Tool. If necessary, follow the directions on the first screen of the Tool to enable macros, follow directions provided on the Microsoft Support website:

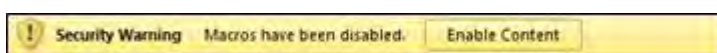
<https://support.office.com/en-us/article/Enable-or-disable-macros-in-Office-files-12B036FD-D140-4E74-B45E-16FED1A7E5C6>, or follow the directions below:

Macros must be enabled on your computer to use the Rail Tool.

-  The default macro security setting in Excel is "Disable all macros with notification."
-  When you open the tool, you may get a security alert that macros are present, and you need to choose to enable the macros for this file to work. The steps below describe how to enable macros for different versions of Excel, first if the message bar or security dialog appear, and alternatively in the Trust Center if the message/dialog do not appear.

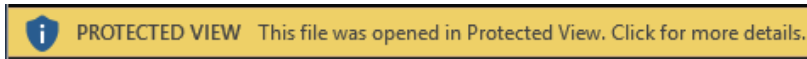
Enable macros when the Message Bar appears (Excel 2016, 2013, and 2010)

1. When you open the tool, the yellow message bar appears with a shield icon and the **Enable Content** button.



2. On the **Message Bar**, click **Enable Content**.

Note: if the file opens in Protected View, click **Enable Editing** on the message bar. If there is no Enable Editing option, click **for more details** and then click **Edit Anyway**. The Protected View message will look similar to the image below:

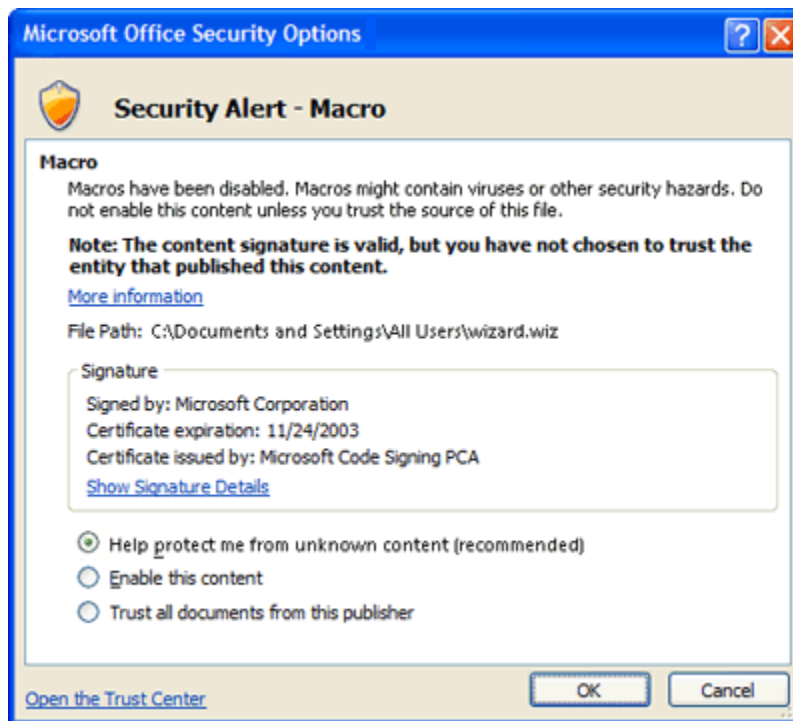


Once editing is enabled, follow Steps 1 and 2 above to enable content on the macro message bar.

Enable macros when the Security Options dialog appears (Excel 2007)


1. When the Security Options dialog appears, click **Enable this content**.

Excel 2007 Security Options dialog window:



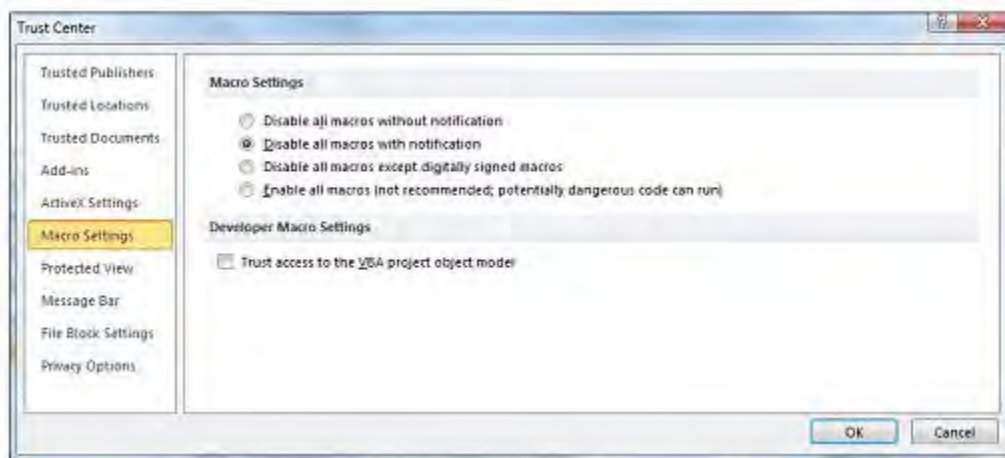
If the Message Bar or Security Options dialog does not appear, change macro settings in the Trust Center

Change macro settings in the Trust Center (Excel 2016, 2013, 2010, 2007)

1. Click the **File** tab (Excel 2016, 2013, 2010) or the **Microsoft Office Button** (Excel 2007) 

2. Click **Options** (Excel 2016, 2013, 2010) or **Excel Options** (Excel 2007)
3. Click Trust Center, and then click Trust Center Settings.
4. In the **Trust Center**, click **Macro Settings**.
5. Click the option "Disable all macros with notification."
6. Click **OK**.
7. Close out of the Excel file and then re-open it.
8. Follow the previous instructions to Enable macros when the Message Bar or Security Options dialog appears

The following image is the **Macro Settings** area of the Trust Center.



Once macros are enabled (and you are not in Protected View), you should be able to proceed with running the Tool.

If, at this point, the Tool does not open, review the "Software and Hardware Requirements." If you after reviewing this section, you cannot determine how to correct the problem, contact your SmartWay Partner Account Manager.

WHAT IS INCLUDED IN THE SMARTWAY CARRIER PARTNERSHIP AGREEMENT?

To join the SmartWay Transport Partnership as a rail company, you must agree to the language on the "Partnership Annual Agreement for Carriers." When you begin working within the Tool, you will be asked to check a box stating that you agree to the terms of the Partnership Annual Agreement. **This agreement must be renewed annually.**



Please review this language with the appropriate personnel within your organization before completing or submitting a Carrier Tool to EPA.

Partnership Agreement for Carriers

With this annual agreement, your company joins EPA's SmartWay Transport Partnership and commits to:

1. Measure and report to EPA on an annual basis the environmental performance of your fleet(s) using EPA's SmartWay Tool. (Existing fleets must report the 12 months of data for the prior year ending December 31. Newly formed companies require a minimum of 3 months of operational data.)
2. Have performance results and Tool submittal status posted on the EPA SmartWay website/database.
3. Agree to submit supporting documentation to EPA for any data used to complete this Tool and agree to EPA audit of this data upon request by EPA.

In return, EPA commits to:

1. Promote company participation in the Partnership by posting Partner names on the EPA SmartWay Website and in related educational, promotional, and media materials. EPA will obtain express written consent from the Partner before using the Partner's name other than in the context of increasing public awareness of its participation as described here.
2. Provide companies with industry-wide performance benchmark data as this data becomes available to EPA.
3. Assist Partners in achieving emission and fuel usage reduction goals (subject to Federal Government Appropriations).
4. Treat individual corporate data as sensitive business information.

General Terms

1. If the Partner or EPA defaults upon this agreement at any point, the agreement shall be considered null and void.
2. Either party can terminate the agreement at any time without prior notification or penalties or any further obligation.
3. EPA agrees not to comment publicly regarding the withdrawal of specific Partners.
4. EPA reserves the right to suspend or revoke Partner status for any Partner that fails to accomplish the specific actions to which it committed in the SmartWay Transport Partnership Agreement and subsequent annual agreements.
5. The Partner agrees that it will not claim or imply that its participation in the SmartWay Transport Partnership constitutes EPA approval or endorsement of anything other than the Partner's commitment to the program. The Partner will not make statements or imply that EPA endorses the purchase or sale of the Partner's products and services or the views of the Partner.
6. Submittal of this SmartWay Tool annually constitutes agreement to all terms in this Partnership Agreement. No separate agreement need be submitted.

Step 1 Data Collection Requirements

This section will identify data needed for completing the required sections of the Rail Carrier Tool. **The Rail Carrier Tool Technical Documentation** explains more about the methodological structure and technical aspects of the Tool and the data entry process; this guide will focus primarily on the essentials for completing the Tool.

INTRODUCTORY SCREENS

Upon opening the 2018 Tool, you will see a Welcome screen, followed by five screens which orient you to the Tool. The Assistance for New Users screen appears first, and allows users to view an orientation video. Additional screens may be accessed from this screen, including Tool selection guidance, data collection needs, Tool help and navigation, and the SmartWay Partner Tool Schedule for 2019. These are general information screens and may be skipped if you are already familiar with the Tool. However, upon proceeding you **MUST** select the box at the bottom of the Partnership Agreement screen, indicating that you agree to the terms of the Partnership Agreement.

DATA REQUIREMENTS FOR ESTABLISHING YOUR DATA COLLECTION YEAR

Before beginning your data collection, identify the last calendar year for which you have full annual (12 months) data. This means that you have data from January of the calendar year through December of the same year. If you have not been in operation for a full year, you must collect ***a minimum of three months' data*** for input into the SmartWay Tool. In your next update year, you will be expected to submit a full year's data.

DATA REQUIREMENTS FOR SECTION 1: SPECIFY OFFICIAL PARTNER NAME

Your Partner Name is the official name that your customers would recognize for your company—in other words, the name someone hiring you would look for.

You must specify your company's official Partner Name under Section 1 of the HOME screen, exactly as you want it to appear on the SmartWay website.

For example, you may enter:






 ABC Company

 ABC Company, Inc.

Your company will be listed ***exactly*** as you've entered in Section 1. Therefore, it is important to pay special attention to proper capitalization, abbreviations, annotations, and punctuation.

DATA REQUIREMENTS FOR SECTION 2: ENTER COMPANY CONTACT INFORMATION

The SmartWay Tool asks for:

-  **General company information** such as location, web address, phone number, etc.
-  **A Working Contact**² for any questions about your company's participation and Tool submissions
-  **An Executive Contact**³ for participation in awards and recognition events
-  **A Sustainability Contact (optional)**⁴ for information on company sustainability programs and outreach
-  **Other Contacts (optional):** Additional contacts may include anyone who is not the Working, Executive, or Sustainability contact but may be involved with SmartWay (e.g., press/media contact, fleet manager, etc.).

Note that you MUST have at least two contacts listed in the contact information section of the Tool, and the Working and Executive Contacts must be different. SmartWay recommends developing an internal succession plan to make sure that your Tool submission schedule is maintained, in the event that a Working Contact is reassigned, or leaves the company for any reason.

DATA REQUIREMENTS FOR SECTION 3: CHARACTERIZE YOUR FLEETS

The SmartWay Rail Tool allows you to characterize your freight operations at the fleet level. In the Rail Tool, a fleet is defined as any business unit that a customer has discretion to hire.

NOTE: *You may include multiple fleets in a single Tool submission.*

SmartWay highly recommends developing your list of fleets offline using a company organization chart or perhaps a customer interface webpage. The best strategy is to have a clear idea of how to define your fleets before filling out the Tool.

For each fleet that a customer can hire, you will be asked to establish names for each of your fleets. Each Fleet Name will begin with your Partner Name and will include a Fleet Identifier. Use a Fleet Identifier that is recognizable by your customers. Next you need to specify the class for each fleet.

² The Working Contact is the individual designated by the Executive Contact to directly interface with SmartWay regarding specific tasks involved in the timely submission of the Tool. The Working Contact is responsible for coordinating the assembly of information to complete/update fleet data; completing and updating the Tool itself; maintaining direct communication with SmartWay; and keeping interested parties within the company apprised of relevant developments with SmartWay.) **NOTE:** *To ensure that emails from SmartWay/EPA are not blocked, new Working Contacts may need to add SmartWay/EPA to their preferred list of trusted sources.*

³ The Executive Contact is the company executive who is responsible for agreeing to the requirements in the SmartWay Partnership Agreement, overseeing the Working Contact (as appropriate), and ensuring the timely submission of the Tool to SmartWay. The Executive Contact also represents the company at awards/recognition events. This person should be a Vice President or higher level representative for the company.

⁴ The Sustainability Contact may be the same as the Working or Executive Contact, but not the same as any Other Contacts.




Once you have defined your fleets, create the data entry forms for your fleet by selecting the **Create Fleet(s)** button at the bottom of the screen.

DATA REQUIREMENTS FOR SECTION 4: FLEET DATA

Once you have identified and characterized your fleets you will be asked to provide additional information for EACH fleet separately.




Data Requirements for "Power Units" Screen

You will need to provide power unit information about the selected fleet:

-  The number of power units or hours per year operated during the reporting period, by engine tier level. This may be broken out by line haul and switch engines. For Class 1 operators, please refer to R1 form, schedule 710 for details.
-  Class 1 operators must provide total locomotive unit miles per year for each fleet. This data is available in the R-1 forms for Class 1 railroads (see lines 8-14 of Schedule 755). Class 2 and 3 operators do not enter this information.
-  Detailed description of the data sources used to obtain your power unit data (e.g., R-1 Form section and line numbers).

Data Requirements for "Operations" Screen

You will need to provide operations information about the selected fleet:

-  Your fleet's annual fuel consumption by fuel type (diesel, biodiesel, LNG, CNG, and electric) and train category (freight, passenger, and switch). For Class 1 operators, please refer to R-1 form, schedule 750, lines 1 - 3 for details.
-  Your gross, revenue, and non-revenue ton-mile data. This data is available for Class 1 operators from R-1 Report Section 755, lines 104, 110, and 113, respectively.
-  Total railcar miles for each fleet.

NOTE: All ton-mile data should be entered as actual ton-miles, NOT 1,000s of ton-miles (as presented in the R-1 Report).

Step 2 Data Entry

DOWNLOADING THE SMARTWAY RAIL CARRIER TOOL

To download the SmartWay Rail Tool, visit: <https://www.epa.gov/smartway/smartway-rail-carrier-tools-and-resources>. Save the Tool in a folder on your hard drive; this folder should house copies of your data and future updates.

HOW TO SET SECURITY LEVELS FOR THE SMARTWAY TOOLS

In some cases, Microsoft Excel will ask you to adjust your security settings before opening the Tool. Instructions should appear on your screen *if* you need to change your security settings before running the Tool. The instructions differ depending upon what version of Excel you use (Excel 2007, 2010, 2013, or 2016).

If you need additional assistance with your security settings, contact your Partner Account manager.

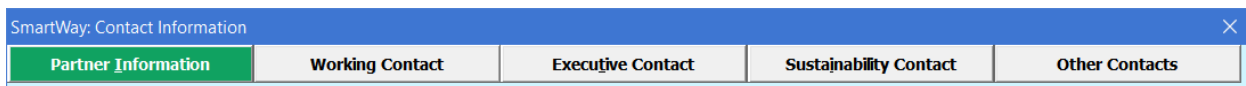
ENTERING PARTNER NAME

Under Step 1 on the **HOME** screen:

1. Type your Partner Name EXACTLY as you would like it to appear on the SmartWay website and in other EPA communications in the field as indicated.
2. Proceed to Section 2 to enter Contact Information.

ENTERING CONTACT INFORMATION

Under the Partner Information tab:



Note: Use the Tabs at the top of the window to navigate between the 5 information screens

Each field marked with an asterisk must be filled out. You will not be able to submit the Tool to SmartWay without this information.

1. **Enter the Company address, phone numbers, and website (optional).**
2. **Enter the Working Contact name and title.**

The **Working Contact** is the individual designated by the Executive Contact to directly interface with SmartWay regarding specific tasks involved in the timely submission of the Tool. The Working

Contact is responsible for coordinating the assembly of information to complete/update fleet data; completing and updating the Tool itself; maintaining direct communication with SmartWay; and keeping interested parties within the company apprised of relevant developments with SmartWay. (NOTE: To ensure that e-mails from SmartWay/EPA are not blocked, new contacts may need to add SmartWay/EPA to their preferred list of trusted sources.)

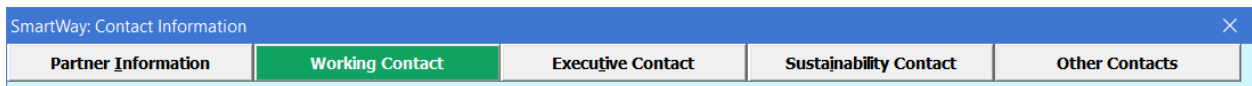
3. **Enter the Executive Contact name and title.**

The **Executive Contact** is the company executive who is responsible for agreeing to the requirements in the SmartWay Partnership Annual Agreement, overseeing the Working Contact (as appropriate), and ensuring the timely submission of the Tool to SmartWay. The Executive Contact also represents the company at awards/recognition events. This person should be a Vice President or higher level representative for the company

4. **Enter the Sustainability Contact name and title (optional).**

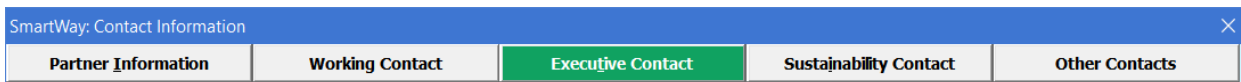
The **Sustainability Contact** is the individual assigned responsibility for monitoring the company's environmental performance. The Sustainability Contact may be the same as the Working or Executive Contact (and specified by checking the "Same as" boxes in the Sustainability Contact section), but cannot be the same as any Other Contact.

Under the Working Contact tab:



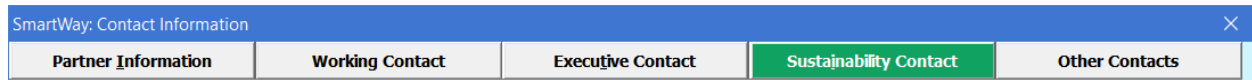
1. Enter the Working Contact information. If the Working Contact shares the same address as the company, you may select the **Use Partner Address** button to auto-populate the address section of this record. Enter the email address twice to confirm its accuracy. When confirmed a ✓ will appear to the right.

Under the Executive Contact tab:



1. Enter the Executive Contact information. If the Executive Contact shares the same address as the company, you may select the **Use Partner Address** button to auto-populate the address section of this record.

Under the Sustainability Contact tab:



1. Enter the Sustainability Contact information, if applicable. If the Sustainability Contact shares the same address as the company, you may select the **Use Partner Address** button to auto-populate the address section of this record.

Under the Other Contacts tab:



1. Enter Other Contacts (if applicable) by selecting the **Add New contact** button.
2. Enter the first Other Contact then select **OK** when done.

Note: *You must supply at least two unique contacts on the contact screen to ensure EPA has access to at least two people for Tool submission follow-up.*

NOTE: *In some cases, companies with multiple fleets will gather information from different sources within the company. You may find it useful to have this additional contact information stored within the Tool.*

You can add more contacts to the **Other Contacts** box by repeating this process. If you wish to edit an existing contact's information, highlight the name you wish to edit and then select the **Edit Selected Contact** button. You can remove an existing contact by highlighting the contact and then selecting **Delete Selected Contact**.

To make sure you have filled out all required contact information, select **VALIDATE SCREEN** at the bottom of the screen on the **Partner Information** tab. If any information is missing or invalid, a dialogue box will appear informing you what additional information is required.

Next select the **HOME** button to return to the **Home** screen and go to Step 3.

COMPLETING THE FLEET DESCRIPTION(S) SCREEN

1. On the **Home** screen, select the **Fleet Description(s)** button to display the **Fleet Descriptions** screens.
2. Confirm that the Partner Name that appears automatically is correct and appropriate for your fleet. If not, make changes in the field under the heading "Partner Name."
3. Enter the "Fleet Identifier" for your first (or only) fleet. This field may be left blank if you only have one fleet. In this case your final Fleet Name will simply be your Partner Name.

4. Enter additional fleets as needed:
 - a. To enter another fleet, select the **Add Another Fleet** button.
 - b. To delete a fleet, select the box next to the row you wish to delete, and then select the **Delete Checked Rows** button.
 - c. Once you have confirmed or modified the Partner Name and specified the Fleet Identifiers, the full Fleet Names will be displayed on the screen to the right, exactly how they will be displayed on the SmartWay website.
5. Next, enter the Class of the associated rail fleet (1, 2, or 3):
 - a. Class 1 includes the largest North American rail companies;
 - b. Class 2 includes mid-sized, regional companies; and
 - c. Class 3 includes local shortline companies.
6. Once all fleet information has been input correctly, you may select the **CREATE FLEET(S)** button at the bottom of the page. You will be prompted then to confirm that you have identified all of your fleets. Return to the **Fleet Description(s)** screen if needed, otherwise select **OK** and you will automatically be returned to the **Home** screen.

SELECTING A FLEET FOR DATA ENTRY

1. Using your mouse, on the **Home** screen select and highlight the name of the fleet for which you wish to enter data.
2. Double click the name; you will then be taken to the **Power Units data entry** screen for that fleet.

COMPLETING THE POWER UNITS SCREEN

1. You will need to provide power unit information about the selected fleet.

2. Specify the number of power units or hours per year operated during the reporting period, by engine tier level. Depending up the **Data Input Method** selected, this information may be broken out by line haul and switch engines. Under method 1 you may aggregate your fleet's line-haul and switch units together, while method 2 requires that you report the unit type counts separately. Methods 3 and 4 are similar, but require inputting hours of operation by tier, rather than unit counts.⁵ For Class 1 operators, please refer to R1 form, schedule 710 for details. The different engine tier level definitions are provided below:

- Non-tier – manufactured before 1972
- Tier 0 – manufactured between 1972 and 2001
- Tier 0+ - manufactured between 1972 and 2001, and remanufactured after 2010
- Tier 1 – manufactured between 2002 and 2004
- Tier 1 – manufactured between 2002 and 2004 and remanufactured after 2010
- Tier 2 - manufactured between 2005 and 2011
- Tier 2+ - manufactured between 2005 and 2011 and remanufactured after 2013
- Tier 3 - manufactured between 2012 and 2014
- Tier 4 – manufactured after 2014

Part A: Power Unit Inventory

Select Data Input Method

1. # of total Power Units

2. # Power units - line haul vs. switch

3. hours per tier

4. hours per tier - line haul and switch

?	Engine Tier	# of Power Units
?	non-tier	<input type="text"/>
?	0	<input type="text"/>
?	0+	<input type="text"/>
?	1	<input type="text"/>
?	1+	<input type="text"/>
?	2	<input type="text"/>
?	2+	<input type="text"/>
?	3	<input type="text"/>
?	4	<input type="text"/>

3. Next, Class 1 operators must enter your fleet's Total Locomotive Unit Miles/Year data under Part B. Break out your unit miles data by line haul and switching categories, as appropriate. This data is available in the R-1 forms for Class 1 railroads (see lines 8-14 of Schedule 755). Class 2 and 3 operators do not enter this information.

4. Finally, you will need to provide a detailed description of the data sources used to obtain your power unit data (e.g., R-1 Form section and line numbers).

Part B. Total Locomotive Unit Miles/Year

?	Unit Trains	<input type="text"/>
?	Way Trains	<input type="text"/>
?	Through Trains	<input type="text"/>
	Subtotal	<input type="text"/>
?	Train Switching	<input type="text"/>
?	Yard Switching	<input type="text"/>
	Subtotal	<input type="text"/>
	Total	<input type="text"/>

⁵ In general, method 4 will provide the most accurate estimate for NO_x and PM emissions.

COMPLETING THE OPERATIONS SCREEN

You will need to provide operations information about the selected fleet:

1. Specify your fleet's annual fuel consumption and ton-mile data. Record annual fuel use per year by fuel type (diesel, biodiesel, LNG, CNG, and electric) and train category (freight, passenger, and switch).
 - a. Petroleum diesel, biodiesel, and LNG entries must be in gallons per year.
 - b. Specify CNG units indicating standard cubic feet or gasoline-equivalent gallons per year.
 - c. Electricity use is specified in kWh/year.
 - d. If you indicate biodiesel consumption data, you must also specify the fleet average fuel blend level (between 0 and 100).
 - e. For Class 1 operators, please refer to R-1 form, schedule 750, lines 1 - 3 for details.
2. Specify your gross, revenue, and non-revenue ton-mile data. This data is available for Class 1 operators from R-1 Report Section 755, lines 104, 110, and 113, respectively.
3. Specify your total annual railcar miles for the fleet.

All Freight

Fuel Used	Units	Freight	Passenger	Switching ?	Total
Diesel ?	(gallons/year)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Biodiesel: B <input type="text"/> ?	(gallons/year)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
LNG	(gallons/year)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
CNG	(cubic feet/year) ?	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Electric	(kWh/year)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

? Gross Ton Miles/Year	<input type="text"/>	R 1: 755-104
? Revenue Freight Ton Miles/Year	<input type="text"/>	R 1: 755-110
? Non-Revenue Freight Ton Miles/Year	<input type="text"/>	R 1: 755-113

? Enter Total Railcar Miles:

NOTE: All ton-mile data should be entered as actual ton-miles, NOT 1,000s of ton-miles (as

presented in the R-1 Report).

SUBMITTING YOUR TOOL TO EPA

Once you have entered data for each of your rail fleets in Step 4 of the **Home** screen, you may create final submittal files.

1. Select the **Generate a (.xml) data file** which will open a new screen.
2. Select the checkbox to indicate you understand the terms of the SmartWay Partnership Agreement once again.
3. When ready, select **NEXT** to create a file with the following naming convention: Rail_PartnerName_Year_Vo.xml⁶

For example, Rail_ABCompany_ 2018 _V0.xml

where PartnerName is your company's name as entered for Step 1 on the **Home** screen, and Year indicates the year for which you are submitting your data.

4. Next specify the folder where you would like to save the .xml file, and a screen will appear.
5. Follow these instructions for submitting your .xml and .xlsm files to SmartWay. Note that the .xml file is approximately 10 times smaller than the .xlsm file.
6. Upon selecting **NEXT**, a screen will appear that allows you to close the Rail Carrier Tool or return to the **Home** screen.

■ **NOTE: DO NOT ZIP the .xlsm and .xml files. Send them to EPA as normal files attached in an e-mail. EPA security will not allow zipped files through the EPA firewall.**

■ **NOTE: DO NOT CHANGE THE NAME OF THE XML OR XLS FILES.**

Please visit <https://www.epa.gov/smartway/smartway-rail-carrier-tools-and-resources> for additional resources, including printable data collection worksheets, and technical documentation, for more in depth exploration of each section of the Rail Carrier Tool.

⁶ If you create the XML file multiple times the file name will increment each time (e.g., Rail_ABCompany_2018_V1.XML for the second iteration, etc.

Step 3 Results and Summary Reports

The **View Summary Data Reports** section gives you access to 7 reports to help you understand your data and use it to make better performance decisions. You can access these reports by selecting **View Summary Data Reports** at the bottom of the **Home** screen.

Please select the report you would like to view:

Internal Metrics	Estimates fleet-level CO ₂ , NO _x , and PM performance, expressed in grams per ton-mile (gross, revenue and non-revenue), and grams per mile (railcar and truck-equivalent miles).
Fleet Summary	Displays the name, Class and contact for each fleet defined.
Power Units	Displays all of the data you entered in the Power Units Information section.
Operations	Displays all of the data you entered in the Operations section.
Comments	Displays all of the comments that have been entered throughout the tool.
Partner Feedback Summary	Displays the feedback you provided in the Feedback section.
Public Disclosure Report	Displays the Scope 1, Scope 2, biogenic and non-carbon emissions.

The **Feedback** section allows you to provide EPA with general feedback regarding the SmartWay program. This information is optional and is not required in order to submit your Rail Carrier Tool data to EPA. Selecting the **Give Us Feedback** button under item #5 on the **Home** screen will open this form.

Appendix A: Worksheets for Data Collection

WORKSHEET #1: CONTACT INFORMATION

#1. Enter your Contact Information:

GENERAL COMPANY CONTACT INFORMATION

Company Name							
Headquarters Mailing Address							
City		State/Province		Zip		Country	
Main Phone Number		Toll-free Number		Cell number		Web Address	

WORKING CONTACT INFORMATION

Working Contact Name							
Working Contact Mailing Address							
City		State/Province		Zip		Country	
Working Contact Phone Number				Email Address			

EXECUTIVE CONTACT INFORMATION

Executive Contact Name							
Executive Contact Mailing Address							
City		State/Province		Zip		Country	
Executive Contact Phone Number				Email Address			

SUSTAINABILITY CONTACT INFORMATION

Sustainability Contact Name							
Sustainability Contact Mailing Address							
City		State/Province		Zip		Country	
Sustainability Contact Phone Number			Email Address				

OTHER CONTACT INFORMATION

Other Contact Name							
Other Contact Mailing Address							
City		State/Province		Zip		Country	
Other Contact Phone Number			Email Address				
Contact's role in program							

WORKSHEET #2: FLEET CHARACTERIZATION

Complete this worksheet for each fleet you will be submitting in the Rail Tool.

Specify Partner / Fleet Name (exactly as it should appear on the SmartWay website):

Partner Name _____

Fleet Identifier _____

Railroad Class (1, 2, 3) _____

WORKSHEET #3: POWER UNITS INFORMATION

Complete this worksheet for each fleet you will be submitting in the Rail Tool.

Specify Power Unit Inventory by Engine Tier

Inventory Basis (circle one): # Units Hours/Yr

Engine Tier	Line Haul	Switch	Total
Non-Tier			
0			
0+			
1			
1+			
2			
2+			
3			
4			

* If you cannot differentiate line haul and switch inventories, enter # Units or Hours/Yr for Totals only

Total Locomotive Unit Miles/Year (Class 1 Operators Only):

Unit Trains _____

Way Trains _____

Through Trains _____

Train Switching _____

Yard Switching _____

Describe the data source used to develop the above data:

WORKSHEET #4: OPERATIONS DATA

Complete this worksheet for each fleet you will be submitting in the Rail Carrier Tool.

Enter Fuel Use/Yr:

Fuel Type	Units	Freight	Passenger	Switching
Diesel	gal/yr			
Biodiesel [^]	gal/yr			
LNG	gal/yr			
CNG	gal/yr cu ft/yr *			
Electricity	kWh/yr			

* circle one

[^] Biodiesel blend % (if applicable): _____

Gross Ton-Miles/Yr _____ (R1, Schedule 755, line 104)

Revenue Reight Ton-Miles/Yr _____ (R1, Schedule 755, line 110)

Non-Revenue Freight Ton-Miles/Yr _____ (R1, Schedule 755, line 113)

Total Railcar Miles per year _____ (R1, Schedule 755, line 30)



For more information:

U. S. Environmental Protection Agency
Office of Transportation and Air Quality
1200 Pennsylvania Ave. NW
Washington, DC 20460
(734) 214-4333

www.epa.gov/transportation-air-pollution-and-climate-change

U. S. Environmental Protection Agency
National Vehicle and Fuel Emissions Laboratory
2565 Plymouth Rd.
Ann Arbor, MI 48105
(734) 214-4200

www.epa.gov/aboutepa/about-national-vehicle-and-fuel-emissions-laboratory-nvfe