

JD Edwards EnterpriseOne Applications

Sustainability Framework Implementation Guide

9.2

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Preface

Welcome to the JD Edwards EnterpriseOne documentation.

Documentation Accessibility

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Related Information

For additional information about JD Edwards EnterpriseOne applications, features, content, and training, visit the JD Edwards EnterpriseOne pages on the JD Edwards Resource Library located at:

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Conventions

The following text conventions are used in this document:


Convention	Meaning
Bold	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
<i>Italics</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
Monospace	Monospace type indicates commands within a paragraph, URLs, code examples, text that appears on a screen, or text that you enter.
> Oracle by Example	Indicates a link to an Oracle by Example (OBE). OBEs provide hands-on, step- by-step instructions, including screen captures that guide you through a process using your own environment. Access to OBEs requires a valid Oracle account.

1 Introduction to the JD Edwards EnterpriseOne Sustainability Framework

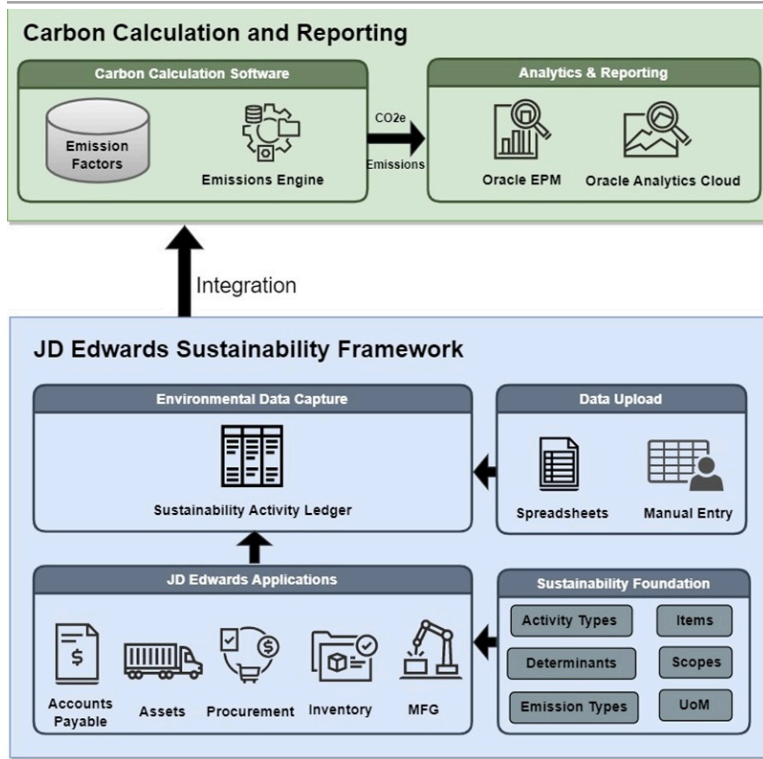
JD Edwards EnterpriseOne Sustainability Framework Overview

In today's world, the companies adopt an extensive collection of measures, such as policies, procedures, and metrics to either minimize the adverse effects or to support the favorable contributions to the environment, society, and governance. Environmental, Social, and Governance (ESG) is a set of all such measures, and it provides a means for gauging potential business risks and opportunities within these domains.

The primary focus of JD Edwards EnterpriseOne Sustainability solution is on the most significant **Environmental (E)** part of ESG that deals with environmental risks and natural resource management. Collecting environmental data enables businesses to track emissions relative to predefined goals or limits, thus enabling them to identify potential cost-saving and emission-reduction opportunities. It also aids organizations in meeting mandatory and voluntary global environmental reporting requirements.

Environmental data is sourced from multiple channels, necessitating the need for manual entry of this information. Proper verification and validation of environmental data is crucial, but this task is time-consuming and burdensome. The JD Edwards Sustainability Framework provides a standardized and optimized way of collecting the environmental information. It focuses on setting up the sustainability foundation by identifying the environmental reference data and gathering the environmental data which reside in different business processes and on storing them in a repository called Sustainability Activity Ledger. 

This figure demonstrates how the Sustainability Framework functions, and depicts its extensibility to integrate with an external software for calculation and **reporting of that is required for environmental reporting purposes.**



This framework captures environmental data from various JD Edwards applications and stores this data as activity records using the Sustainability Activity Ledger application.

This framework also enables you to enter and modify the activity data directly in the Sustainability Activity Ledger application. You need to use the JD Edwards in-built capabilities to import and export the environmental data.

The key data setup required for Sustainability Framework includes:

- **Determinants:** Set up various determinants such as diesel, natural gas, LPG, and car and assign them to a determinant type. The determinants determine the emission factor of an activity.
- **Determinant Type:** Set up the determinant types such as fuel types, vehicle types, and energy types required for different activity types. For an activity type, the type of determinant based on the type of activity will determine the amount of emission. For example, for the activity type of stationary combustion, if the determinant diesel is used, the emission will be different from the emission that the usage of the determinant natural gas will cause.
- **Measure Type:** Set up the type of measure in which fuel and energy consumption are to be recorded. The examples of the measure types are quantity and distance.
- **Activity Type:** Define the types of environmental activities that generate GHG emissions, such as stationary combustion. The emissions of any organization need to be categorized under these activity types that are predefined under the GHG. Any task performed by your organization has an impact on the environment, then

it is called an activity, and the activity can be categorized under a certain type, called activity type. For example, if you are using diesel or any other fuel for boilers, it comes under the activity type of stationary combustion.

- **Scopes:** Set up emission scope codes to categorize an environmental activity into one of the scopes defined by the GHG Protocol. All activity types are grouped under one of these scopes defined by GHG:

Scope 1: Direct GHG emissions from sources owned or controlled by the company. For example, the activity type stationary combustion comes under Scope 1.

Note: Currently, JD Edwards EnterpriseOne Sustainability Framework is handling only Scope 1 emissions.

Scope 2: Indirect GHG emissions from the purchased energy.

Scope 3: Other indirect GHG emissions that are not included in Scope 2.

- **Emission Types:** Set up emission types to define the types of GHG emissions that result from the environmental activities. The examples of emission gases are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and other fugitive emissions that include SF₆, NF₃, and so on.
- **Fuel Type:** Set up new attributes such as activity source and fuel type for items with environmental implications, such as fuels.

The system uses these components to calculate carbon emissions, and for other reporting purposes.

JD Edwards EnterpriseOne Sustainability Framework Implementation

In the planning phase of the implementation, take advantage of all JD Edwards EnterpriseOne sources of information, including the installation guides and troubleshooting information.

When determining which electronic software updates (ESUs) to install for JD Edwards EnterpriseOne Sustainability Framework, use the EnterpriseOne and World Change Assistant. EnterpriseOne and World Change Assistant, a Java-based tool, reduces the time required to search and download ESUs by 75 percent or more and enables you to install multiple ESUs at one time.

See the *JD Edwards EnterpriseOne Tools Software Updates Guide*.

For information about the Oracle Business Accelerator solution for implementation of JD Edwards EnterpriseOne Sustainability Framework, review the documentation available.

See http://docs.oracle.com/cd/E24705_01/index.htm

Global Implementation Steps

The suggested global implementation steps for JD Edwards EnterpriseOne Sustainability Framework are:

1. Set up global user-defined codes (UDCs).
See *"Working with User Defined Codes" in the JD Edwards EnterpriseOne Tools System Administration Guide*.
2. Set up companies, fiscal date patterns, and business units.
See *"Setting Up Organizations" in the JD Edwards EnterpriseOne Applications Financial Management Fundamentals Implementation Guide*.

3. Set up next numbers.
See *"Setting Up Next Numbers" in the JD Edwards EnterpriseOne Applications Financial Management Fundamentals Implementation Guide* .
4. Set up accounts and the chart of accounts.
See *"Creating the Chart of Accounts" in the JD Edwards EnterpriseOne Applications Financial Management Fundamentals Implementation Guide* .
5. Set up General Accounting constants.
See *"Setting Up Constants for General Accounting" in the JD Edwards EnterpriseOne Applications General Accounting Implementation Guide* .
6. Set up multicurrency processing, including currency codes and exchange rates.
See *"Setting Up General Accounting for Multicurrency Processing" in the JD Edwards EnterpriseOne Applications Multicurrency Processing Implementation Guide* .
See *"Setting Up Exchange Rates" in the JD Edwards EnterpriseOne Applications Multicurrency Processing Implementation Guide* .
7. Set up ledger type rules.
See *"Setting Up Ledger Type Rules for General Accounting" in the JD Edwards EnterpriseOne Applications General Accounting Implementation Guide* .
8. Enter address book records.
See *"Entering Address Book Records" in the JD Edwards EnterpriseOne Applications Address Book Implementation Guide* .
9. Set up inventory information, such as branch/plant constants, default locations and printers, manufacturing and distribution AAls, and document types.
See *"Setting Up the Inventory Management System" in the JD Edwards EnterpriseOne Applications Inventory Management Implementation Guide* .

Sustainability Framework Implementation Steps

These are the suggested application-specific implementation steps for JD Edwards EnterpriseOne Sustainability Framework:

MONIKA: Need to Review this and change; To map these topics to SF topics and give Xref

REVIEWERS- Please ignore this section for now

1. (Optional) Create a legal entity record for each entity associated with the joint ventures.
See *Setting Up Legal Entities for Joint Ventures*.
2. Set up the joint venture master records for the joint ventures.
See *Entering Joint Venture Master Records*.
3. (Optional) Create an approval list to track the date on which you receive approvals from all required entities.
See *Setting Up Approval Lists for Joint Ventures*.
4. Identify the distributable accounts for the joint venture.
See *Setting Up Account Information for Joint Ventures*.

5. Set up the Automatic Accounting Instructions (AAls) for the joint venture.
See *Entering Automatic Accounting Instructions for Joint Venture Management (Release 9.2 Update)*.
6. Set up one or more Division of Interest (DOI) records for the joint venture.
See *Setting Up Division of Interest Records*.
7. Define the DOI assignment rules for the joint venture.
See *Setting Up Division of Interest Assignment Rules*.
8. Define distribution ledgers for the joint venture.
See *Setting Up Distribution Ledgers for Financial Reporting (Release 9.2 Update)*.
9. Set up business unit attributes
See *Setting Up Joint Venture Business Unit Attributes (Release 9.2 Update)*.
10. Set up account groups to process overhead and cash calls.
See *Setting Up Account Groups (Release 9.2 Update)*.
11. Set up escalation indices.
See *Setting Up Escalation Indices for Overhead (Release 9.2 Update)*.
12. Set up overhead rules.
See *Setting Up Overhead Rules (Release 9.2 Update)*.
13. Assign overhead rules.
See *Assigning Overhead Rules (Release 9.2 Update)*.
14. Set up joint venture-based allocations.
See *"Setting Up Versions for Joint Venture-Based Allocations" and "Setting Up Specifications for Advanced Variable Numerator Allocations" in the JD Edwards EnterpriseOne Applications General Accounting Implementation Guide*.

JD Edwards EnterpriseOne Sustainability Framework Integrations

JD Edwards interactive applications enable you to collect data such as fuel consumption and energy consumed or generated at facilities or locations. The JD Edwards EnterpriseOne Sustainability Framework system works with other JD Edwards EnterpriseOne applications to ensure that all environmental data and information are fully integrated into those applications. This system integrates with these JD Edwards EnterpriseOne products:



- JD Edwards EnterpriseOne Accounts Payable: The JD Edwards EnterpriseOne Sustainability Framework enables you to record data in the Accounts Payable process when the standard vouchers are generated from these invoices. This enables you to track consumption of fuel and energy for stationary combustion (Scope1).
- JD Edwards EnterpriseOne Procurement: The JD Edwards EnterpriseOne Sustainability Framework can facilitate the data collection within the Procurement process, particularly while matching vouchers with purchase orders and receipts. This encompasses the tracking of fuel purchases for stationary combustion (Scope1) and mobile combustion (Scope 1) activities.

2 Configuring the Sustainability Framework System

Understanding System Configuration for Sustainability Framework

Before you use the JD Edwards EnterpriseOne Sustainability Framework system, you must define certain information that the system uses during processing. You use this information to configure the system to meet the company's business needs.

This table describes the information that you must set up for this system:

Setup Information	Description
Activating Sustainability Framework	You activate Sustainability Framework to use the system.
UDCs	You can set up UDCs to configure the system for Sustainability Framework. 
Next Number	You set up next numbers to provide JD Edwards EnterpriseOne Sustainability Framework with a unique number to identify the batch number and document number. 

Activating the Sustainability Framework System

This section provides an overview of system activation and discusses how to activate the JD Edwards EnterpriseOne Sustainability Framework system.

Understanding the System Activation

Before you can set up and process data for Sustainability Framework, you must activate the JD Edwards EnterpriseOne Sustainability Framework system. The system code for Sustainability Framework is 20S. To activate system 20S, a record containing the following data must exist in the OneWorld System Control File (F99410) table:

- The Data Item field contains SY20S.
- The Use Module field contains Yes.

You activate system code 20S using the EnterpriseOne System Control program (P99410). The JD Edwards EnterpriseOne system stores system constants in the F99410 table.

Activating JD Edwards EnterpriseOne Sustainability Framework System

To activate JD Edwards EnterpriseOne Sustainability Framework:

1. Access the EnterpriseOne System Control - Revisions form.

Form Name	Form ID	Navigation
EnterpriseOne System Control - Revisions	W99410B	<p>Enter P99410 in the Fast Path field and press Enter.</p> <p>On the Work With EnterpriseOne System Control form, select the row containing data item SY20S and click Select.</p>

2. Verify that the value **SY20S** is in the Data Item field.

The system displays the system constant description associated with SY20S. Use Sustainability Framework Module, in the Alpha Description field.

3. Select **Yes** in the Module Existence options.
4. Click **OK** to activate JD Edwards EnterpriseOne Sustainability Framework.

Understanding the Sustainability Framework Page

When you log into the JD Edwards EnterpriseOne application, you can have the system display the **Sustainability Framework** as your default page.

The Sustainability Framework Page displays the process flow with the Navigator drop-down menu in the top menu bar.

See *JD Edwards EnterpriseOne Navigator Menu* in this guide.

The EnterpriseOne Home Page may also contain EnterpriseOne Pages that have been assigned to your user ID or your user role. EnterpriseOne Pages display as tabs located across the top of the interface. If you are not assigned any EnterpriseOne Pages, a default page is displayed when you log into JD Edwards EnterpriseOne.

This Page contains Sustainability Framework **interactive content**, and also links to the Sustainability applications. For example, this Page displays an interactive flowchart from which you can automatically launch the Determinants application (P20S05) when you click the flowchart box.

You cannot change the look and feel of the Sustainability Framework page or create a new one. When more than one EnterpriseOne page is published to a user/role, then you can access the pages using the tabs on the home page.

JD Edwards EnterpriseOne saves the tab position of the EnterpriseOne pages. Next time you log into the JD Edwards EnterpriseOne application, the tabs appear depending on the setting during your last session.

The system administrator can change the existing EnterpriseOne page through the User Generated Content administration application.



Setting Up User-Defined Codes

Many programs in the JD Edwards Sustainability Framework system use user-defined codes (UDCs) to process information. Most of the UDCs for the JD Edwards Sustainability Framework system are shipped with predefined data. You can change or delete the predefined data if it is not hard-coded and add your own UDCs to suit your needs. You should not change the product code, code type, or description name for the UDCs in the JD Edwards Sustainability Framework system.

The following table describes the UDCs that are used by the JD Edwards Sustainability Framework system:



User-Defined Code	Description
Activity Type Codes (20S/AT)	<p>Activity Type codes classify the types of activities that are used in recording the environmental data. Examples include:</p> <p>CUST_PROC: Custom Process</p> <p>ENERGY: Purchased Energy</p> <p>MOB_COMB: Mobile Combustion</p>
Biomass (20S/BM)	<p>Biomass codes are codes that classify the source of energy. Examples include:</p> <p>N: Fossil Fuel</p> <p>Y: Bio Fuel</p>
Data Quality (20S/DQ)	<p>Data quality codes represent the data quality measurement factors. Examples include:</p> <p>A: Actual</p> <p>E: Estimate</p> <p>M: Metered</p>
Determinant Type (20S/DT)	<p>Examples include:</p> <p>CON_TECH: Control Technology</p> <p>FUEL_TYPE: Fuel Type</p> <p>VEH_TYPE: Vehicle Type</p>
Emission Type (20S/ET)	<p>Emission type codes help in identifying the types of gases for recording emission for activity types. Examples include:</p> <p>C10F18: Perfluoro decalin</p> <p>C2F6: Hexafluoroethane</p>

User-Defined Code	Description
	<p>C5F12: Pentafluoroethane</p> <p>CH4: Methane</p> <p>CF4: Carbon Tetrafluoride</p> <p>C6F14: Perfluorohexane</p> <p>CO2: Carbon Dioxide</p>
Measure Type (20S/MT)	<p>Measure type codes help in identifying the types of measurements to be used while recording activity types. Examples include:</p> <p>C10F18: Perfluoro decalin</p> <p>C2F6: Hexafluoroethane</p>
Reason Code (20S/RC)	<p>Set reason codes to define reasons for recalculation of usages and emissions, for example CR: Correction</p>
Scope Category (20S/SC)	<p>This code helps in identifying the category of scope for scope type 3 for other types of indirect emissions. Examples include:</p> <ul style="list-style-type: none"> 1: Purchased goods and services 2: Capital goods 3: Fuel & energy related activity 4: Upstream transportation 5: Waste generated in operations 6: Business travel 7: Employee commuting 8: Upstream leased assets 9: Downstream transportation 10: Processing of sold products <p>Note: These UDCs are applicable only when you have a value of 3 selected in the UDC Scope (20S/SP).</p>
Scope (20S/SP)	<p>Set up the scope code to classify a source under one of these scopes specified by the Sustainability Protocol:</p> <ul style="list-style-type: none"> 1: Direct Emission 2: Indirect Emission 3: Other Indirect Emission
Workflow Approval Status (20S/ST)	<p>Set up the codes to specify the statuses of the workflow approval</p>

User-Defined Code	Description
	A: Approved I: In progress R: Rejected

Note:

- *JD Edwards EnterpriseOne Tools Foundation Guide*

Setting Up Category Codes

Category codes are a type of UDC that you customize to manage the tracking and reporting requirements of your business. In Sustainability Framework, use Category Codes to further segment your sources for tracking and reporting purposes. You might want to further categorize your Scope 3 sources into employee transportation and contracted waste disposal. For example, you decide to set up category code 01 to store a Scope 3 source's greenhouse gas emission classification. Use the User Defined Codes form to set up category codes for EMP (employee transportation) and WST (contracted waste disposal). Then, when you assign a category code to a source record, you can assign EMP or WST for category code 01.

The JD Edwards Sustainability Framework system is shipped with predefined category codes, but you can change and delete the predefined data if it is not hard-coded and add your own category codes. You use the User Defined Codes form to set up your category codes.

You can change the category code description, but you should not change the product code and type code. You can also change the characteristics for your category codes. For example, you can change the size (up to 10 characters) and type (numeric or alphanumeric). If you change the category code description or any of the characteristics for a category code, your system administrator must change the data dictionary edit rule and how the data dictionary is mapped so that the changes appear on your data entry forms.

You use the User Defined Codes program (P0004A) to assign category codes to sustainability framework records. If you assign a category code to your sustainability framework records and then decide to change the description or a characteristic of the category code, you must manually change the existing sustainability framework records.

Note: When you set up sustainability framework category codes, you should create a blank record on the User Defined Codes form. This provides a default if you do not need to assign a category code to a sustainability framework record.

Category Code	Description
Sustainability Framework Category Codes (20S/01-10)	<p>You can define up to 10 sustainability framework category codes in UDC table 20S/01-10 to organize your sustainability data.</p> <p>You can also set up a sustainability category code so that you can track or report on specific information about a group of sustainability framework records. For example, you decide to set up sustainability framework category code 01 to store the Scope 3 source's greenhouse gas emission classification. Use the User Defined Codes form to set up category codes for WST (contracted waste</p>

Category Code	Description
	disposal), EMP (employee transportation), and so on. Then, when you assign a category code to an activity type, you can assign WST or EMP for category code 01.

Setting Up Next Numbers



Forms Used to Set Up Next Numbers by Batch Number and Document Number

Form Name	FormID	Navigation	Usage
Work With Next Numbers	W0002A	Enter nn in the Fast Path field.	Review a list of the systems that require next numbers.
Next Numbers Constants	W0002D	On the Work With Next Numbers form, select NN Constant from the Form menu.	Select the method in which to implement next numbers by batch number and document number.
Next Numbers by Co/Fiscal Year	W0002H	On the Work With Next Numbers form, select NN by Co/FY from the Form menu.	Set up next numbers by batch and document number.



Working with MBF for Sustainability Framework

The purpose of a master business function (MBF) is to provide a central location for standard business rules about performing certain tasks in any module. Master business functions contain processing options. You complete the MBF processing options, and then specify the version of the MBF that you want the system to use in the processing options of the program that can use the MBF.

Understanding the Sustainability Framework Master Business Function

The Sustainability Framework MBF (P20S12) is used by these programs:

- Activity Ledger (P20S11)
- Standard Voucher Entry (P20S11)
- Voucher Match (P4314)

It is the responsibility of the program that uses the Sustainability Framework MBF Processing Options program to state the version to be used. If you do not specify any version, the system uses the **ZJDE0001** version.

Setting Processing Options for Sustainability Framework MBF (P20S12)

Processing options enable you to specify the default processing for programs and reports.

Default

1. Activity Date

Specify the date to be used to indicate when an activity or event occurred. Values are:

Blank: Use the system date

1: Use the G/L date

2: Use the invoice date

2. Document Type



Enter a value from UDC 00/DT to specify the default document type for the manual entry of a sustainability activity.

Workflow

1. Approval Workflow

Use this processing option to activate the Sustainability Framework Approval Workflow (K20S0011A). You must have the specific version of the Approval workflow activated using the Object Management Workbench (OMW) or the Orchestrator Studio. Values are:

Blank: Workflow not activated

1: Workflow activated

2. Parent Address Number

Enter a number that identifies an entry in the Address Book system, such as employee, applicant, participant, customer, supplier, tenant, or location.

3. Structure Type

Enter a value from UDC 01/TS that identifies a type of organizational structure that has its own hierarchy in the Address Book system, such as an e-mail.

Note: You must have the structure type left blank to create a parent/child relationship for the Accounts Receivable system.

3 Setting Up the Sustainability Data

Working with Determinants

This section provides an overview of determinants and discusses how to set up determinants.

Understanding the Determinants

Use the Determinants program (P20S05) to associate a determinant to a determinant type from UDC 20S/DT. The system stores this association in the Determinants table (F20S05). When you associate a determinant to a determinant type, all details associated with the determinant type get associated to the determinants latched to it. For example, if you assign a determinant type **FUEL_TYPE** to the determinant **Gasoline**, then the determinant **Gasoline** inherits all attributes associated with the **FUEL_TYPE** determinant type. You can subsequently use the Fuel Types program (P20S02) to enter or update the attributes of the determinant type for them to reflect for the associated determinants.




Forms Used to Work with Determinants

Form Name	Form ID	Navigation	Usage
Work with Determinants	W20S05A	Setup (G20S41), Determinants Alternatively, select Determinants from the Sustainability Framework Home page.	Review the determinants and their association with the determinant types.
Determinants Revision	W20S05C	On the Work with Determinants form, either select a record and click Select or click Add.	Add a determinant and specify the determinant type for that determinant.

Setting Up Determinants

Access

Determinant

Enter a value for determinant or select an existing determinant to associate it to a determinant type. 

Determinant Description

Enter a description for the determinant.

Determinant Long Description

Enter a long description for the determinant.

Determinant Type

Enter a value from UDC 20S/DT to associate a determinant type to the determinant that you are working with.

Reference

Enter a value that identifies the environmental agency which derives the value of the determinant using various standards and regulations.

Working with Fuel Types

This section provides an overview of fuel types and discusses how to set up fuel types.

Understanding the Fuel Types

Use the Fuel Types program (P20S02) to enter or update fuel type details for a determinant. You can use this program to work with the determinants that have the determinant type of **FUEL_TYPE** in the F20S05 table. Use the Fuel Types program to specify various contents in the fuel, such as biomass and carbon and their units of measure (UoM), the heating values of the fuel and their UoM, and the dates to define the validity of these details.

You can maintain the fuel as an inventory item and assign an item number to the fuel type. The system stores the fuel type as an item and passes this association to the Activity Source for further processing.

Forms Used to Set Up Fuel Types

Form Name	Form ID	Navigation	Usage
Work with Fuel Types	W20S02A	Setup (G20S41), Fuel Types Alternatively, select Fuel Types from the Sustainability Framework Home page.	Review the fuel types and the details of their content, UoM, heating value, and validity dates.
Fuel Type Revision	W20S02B	On the Work with Fuel Types form, either select a record and click Select or click Add.	Enter a determinant of FUEL_TYPE , and enter other details for the fuel type.

Setting Up Fuel Types

Access the Fuel Types Revision form.

Fuel Type

Enter a value for determinant that identifies the type of fuel used in combustion activities. You can only enter a determinant with Determinant Type **Fuel_Type**. This value should exist in the F20S05 table.

Biomass

Enter a value from UDC 20S/BM to specify the presence of biomass in the fuel.

Carbon Content

Enter a value that specifies the mass of carbon per mass or volume of the fuel. For example, 12.5 KG/FC which represents 12.5 for the carbon content, KG for the UoM of the carbon content, and FC for the carbon content per unit UoM.

Carbon Content UoM

Enter a value from UDC 00/UM that indicates the unit of measure in which the carbon content is measured for the fuel.

Carbon Content Per Unit UoM

Enter a value from UDC 00/UM to specify the unit of measure associated with the per unit mass/volume of fuel to which the carbon content is related.

Item Number

You can maintain the fuel as an inventory item and assign an item number to the fuel type. The system stores the fuel type as an item and passes this association to the Activity Source for further processing. Enter a value to denote the number assigned to an item by the system. It can be in short, long, or third item number format.

Higher Heating Value

Enter a value that specifies the higher heating value (HHV) of the fuel. It is the amount of heat released by a specified quantity (initially at 25°C) once it is combusted and the products have returned to a temperature of 25°C. It is also known as gross calorific value. For example, 45.5 MJ/KG where 45.5 is the Higher Heating Value, MJ is the Higher Heating Value UoM, and KG is the Higher Heating Value Per Unit UoM.

Higher Heating Value UoM

Enter a value from UDC (00/UM) that indicates the higher heating value unit of measure for the fuel.

Higher Heating Value Per Unit UoM

Enter a value from UDC (00/UM) that indicates the unit of measure associated with the per unit mass/volume of fuel to which the higher heating value is related.

Lower Heating Value

Enter a value that specifies the lower heating value (LHV) of the fuel. It is the amount of heat released by combusting a specified quantity (initially at 25°C) and returning the temperature of the combustion products to 150°C. It is also known as net calorific value. For example, 42.68 MJ/KG where 42.68 is the Lower Heating Value, MJ is the Lower Heating Value UoM, and KG is the Lower Heating Value Per Unit UoM.

Lower Heating Value UoM

Enter a value from UDC (00/UM) that indicates the lower heating value unit of measure for the fuel.


Lower Heating Value Per Unit UoM

Enter a value from UDC (00/UM) that indicates the unit of measure associated with the per unit mass/volume of fuel to which the lower heating value is related.

Effective Date

Enter the date from when the fuel type details for the determinant become effective.

Expiration Date

Enter the date from when the fuel type details for the determinant become ineffective. 

Working with Activity Types

This section provides an overview of activity types and discusses how to set up an activity type.

Understanding the Activity Type

You must define every activity type that causes the release of emissions, consumption or production of energy, as an **emission** type. Such **emission** types release greenhouse gases and particulates that can be classified into the category of greenhouse gases. Use the Activity Types program (P20S01) to create the activity type **for the source usage** and to associate an activity type to one of the following scopes based on the Sustainability Protocol:

- Scope 1 - Direct Emission: Greenhouse gas emissions from sources that are owned or controlled by an organization. For example, vehicles and machinery, **stationary sources, computers,** and combustion in boilers.
- Scope 2 - Indirect Emission: Greenhouse gas emissions resulting from the purchase of **enregy** by a company, such as electricity, heat, and cooling.
- Scope 3 - Other Indirect Emission: Greenhouse gases emissions from sources not owned or directly managed by the organization, but related to the organizational activities in its value chain. For example, employee transportation, and treatment of waste.

Additionally, you can configure pollutants produced from the facility operations and track environment inventories and Metrics. Activity Types can be any of the following:

- Emission Source Activity, for example, Combustion of Diesel Fuel in Post 2004 Vehicle.
- Tracked Usage. For example, Water, and square feet area.
- Pollutant. For example, Marsh Salination and Sulphuric Acid contamination.
- Environmental Event. For example, tree planting by hours, or number of trees.
- KPI Metric. For example, Occupied Rooms (for Hotel and Motel chain).


You cannot delete an activity type in any of the following scenarios:

- An Energy Factor exists for the activity type.
- An Emission Factor exists for the activity type.
- An Environmental Ledger Transaction exists in the Environmental Ledger that has not been reversed or voided.

If an activity type does not have applicable energy factors, then an entry is not required. If an activity type does not have applicable emission factors, then an entry with zero emissions must be entered. This is regardless of whether the activity type is a KPI Metric or an activity type configured to only track environmental usage.

Forms Used to Set Up Activity Type

Form Name	Form ID	Navigation	Usage
Work with Activity Types	W20S01C	Setup (G20S41), Activity Types Alternatively, select Activity Types	Review available activity type records.

Form Name	Form ID	Navigation	Usage
		from the Sustainability Framework Home page.	
Activity Type Revision	W20S01D	On the Work with Activity Types form, either select a record and click Select or click Add.	Specify determinant type, measure type, and emission type for an activity type. 

Setting Up the Activity Type


Access the Revise Activity Type form.

Activity Type Long Description

Enter the long description for the activity type.

Scope

Enter a value from UDC table that indicates the emission scope as defined by the GHG Protocol. Valid values are:

- 1: This indicates direct emissions from sources that the organization owns or controls, such as boilers and vehicle fleets. 
- 2: This indicates indirect emissions from the generation of electricity, heat or steam consumed by the organization.
- 3: This indicates indirect emissions that are not covered in scope 2, such as business travel, employee commuting, and waste management.

Effective Date

Enter the date from when an environmental activity, source, determinant, transaction, or preference becomes effective.


Expiration Date

Enter the date from when an environmental activity, source, determinant, transaction, or preference becomes ineffective.

Access the Determinant Type tab.

Determinant Type

Enter a value from UDC 20S/DT that indicates the activity-specific attributes which help in determining the appropriate emission factor for further calculations.

Access the Measure Type tab. 

Measure Type

Enter a value from UDC 20S/MT that indicates the type of measure associated with the activity.

Access the Emission Type tab.

Emission Type

Enter a value from UDC 20S/ET that indicates the type of greenhouse gas or air pollutant emitted from the activity, and impacting the environment.

Working with Activity Sources

This section provides an overview of activity source and discusses how to set up an activity source.

Understanding the Activity Source

Use the Activity Source program (P20S07) to define a source and integrate it to the elements such as activity type and determinants. Activity Source uniquely identifies a source responsible for emissions resulting from energy consumption or from production in an activity. **This element is responsible for all GHG emissions.** It is a combination of activity type and its determinants that helps you in selecting the appropriate emission factor for emission calculation. The system stores the Activity Source details in the Activity Source Header (F20S07) and Activity Source Detail (F20S08), and when you retrieve the source in the activity ledger, it retrieves the activity type and determinants details for the source.

Forms Used to Work with Activity Source

Form Name	Form ID	Navigation	Usage
Work with Activity Source	W20S07A	Setup (G20S41), Activity Sources Alternatively, select Activity Source from the Sustainability Framework Home page.	Review the activity sources and the associated attributes.
Activity Source Revision	W20S07C	On the Work with Activity Source form, either select a record and click Select or click Add.	Enter an activity source and specify the activity type for it, and then specify the determinant to be used for the activity source and activity type combination.
Work with Determinants	W20S05A	On the Revise Activity Source form, select Determinants from the Form menu.	Add or revise a determinant.

Setting Up Activity Source

Access the Revise Activity Source form.

Activity Source

Enter a value that uniquely identifies a source responsible for emissions resulting from energy consumption or from production in an activity. **This value should exist in the F20S07 table.**

Activity Source Description

Enter a description for the activity source.

Activity Source Long Description

Enter a detailed description for the activity source.

Activity Type

Enter a value from UDC 20S/AT that indicates the type of environmental activity.

Transaction Source

Enter a value from UDC 20S/TS that specifies how a transaction should be recorded for an activity. Values are:

I: Record transaction via inventory

V: Record transaction via invoice entry

For example, set the item Gasoline as I or V in the following scenarios:

- Item Type = I: When Gasoline is issued to plant equipment, the system generates inventory issue transactions in Inventory and the environmental transactions in SF.
- Item Type = V: When a fleet of vehicles consumes Gasoline from a gas station, drivers use a card to pay for the fuel. The Gasoline is itemized on a fuel card invoice that is processed via Procurement and subsequently Voucher Matched. To record the environmental transactions at this point, you must have the supplier related to the fuel card statement set up with SF Transaction Source of V. This ensures that the SF process does not prevent the transaction from being generated during the Accounts Payable processing.

Determinant

Enter a value that identifies the determinant for the determinant type for an activity type. This helps in determining the appropriate emission factor for emission calculation.

Item Number

Enter a number that the system assigns to a fuel type. The system stores the fuel type as an item and passes this association to the Activity Source for further processing.

Working with Determinant Types Mapping

This section provides an overview of determinant types mapping and discusses how to map determinant types.

Understanding Determinant Types Mapping

Use the Determinant Types Mapping (P20S09) program to specify the data item in the activity ledger where the determinant type should be mapped. When you retrieve the determinant type in the activity ledger, the system displays the determinant type in the field to which the determinant type has been mapped. For example, when you specify the determinant type as FUEL_TYPE and you associate it to the data item Fuel_Type, the system stores this in the Fuel_Type column of the Activity Ledger table (F20S11), and displays it in the Fuel Type column in the activity ledger.

Forms Used to Work with Determinant Types Mapping

Form Name	Form ID	Navigation	Usage
Work with Determinant Types Mapping	W20S09A	Setup (G20S41), Determinant Types Mapping	Review the mapping between determinant types and the data item.
Determinant Types Mapping Revision	W20S09B	On the Work with Determinant Types Mapping form, either select a record and click Select or click Add.	Enter the column of the activity ledger where the determinant type should display.

Mapping Determinant Types

Access the Work with Determinant Types Mapping form.

Determinant Type

Enter a value from UDC 20S/DT to specify the determinant type that you want to map to a data item in the activity ledger.

Associated Data Item

Enter a value from UDC 20S/DI to specify the data item in the Activity Ledger table (F20S11) to which the determinant type should be mapped.

Working with the Activity Ledger

This section provides an overview of how to work with an activity ledger and discusses how to:

- Set up the activity ledger.
- Set processing options for the Activity Ledger program (P20S11).

Understanding How to Work with the Activity Ledger

An activity ledger is an important component of the sustainability framework that keeps a record of an event or an activity that has an environmental impact, such as stationary combustion and energy consumption. JD Edwards Sustainability Framework records the data that impacts the environment from various business processes, and stores it in a repository called Activity Ledger. JD Edwards also provides you with the flexibility to enter and modify the activity data directly in the activity ledger.

Use the Activity Ledger program (P20S11) to directly record all your environmental data or the resource quantities consumed and the corresponding emissions into the Activity Ledger. You can define the processing option for the Activity Ledger for it to use the processing options of the Sustainability Framework MBF.

Forms Used to Work with the Activity Ledger

Form Name	Form ID	Navigation	Usage
Work with Sustainability Activity Ledger	W20S11A	Processing (G20S10), Sustainability Activity Ledger Alternatively, select Sustainability Activity Ledger from the Sustainability Framework Home page.	Review the sustainability activities and the associated details.
Sustainability Activity Ledger Revision	W20S11B	On the Work with Sustainability Activity Ledger form, click Add or select a record and select Revision from the Row menu.	Enter an activity source for a business unit or update the environmental activity details. You can delete
Emissions	W20S11D	On the Work with Sustainability Activity Ledger form, click Add or select a record and select Emissions from the Row menu. Alternatively, select a record and select Emissions from the Row menu on the Sustainability Activity Ledger Revision form.	Review the emissions related to an activity type for the activity source specified for the business unit. The system retrieves these details from F20S06. Note: To make changes to emissions for a document type, you must access this form from the Row menu of the Sustainability Activity Ledger Revision form. You can then modify, delete, or add emissions for the document type. The system stores these changes in the F20S12 table.

Setting Up the Activity Ledger

Access the Sustainability Activity Ledger Revision form.

Business Unit

Enter a business unit for the supplier.

Activity Source

Enter a value for the activity source or select an existing determinant to associate it to a determinant type.

Determinant Description

Enter a description for the determinant.

Determinant Long Description

Enter a long description for the determinant.

Determinant Type

Enter a value from UDC 20S/DT to associate a determinant type to the determinant that you are working with.

Reference

Enter a value that identifies the environmental agency which derives the value of the determinant using various standards and regulations.

Setting Processing Options for the Activity Ledger Program (P20S11)

Processing options enable you to specify the default processing for programs and reports.

Defaults

1. Sustainability Framework MBF (P20S12) version

Enter the version of the Sustainability Framework MBF Processing Options program (P20S12). If you leave this processing option blank, the system uses the default version ZJDE0001.

4 Understanding the Sustainability Framework Integration with Vouchers

Working with Vouchers for Sustainability Framework

The **Sustainability Data** is a powerhouse of data that empowers not just the deciding authorities, but the overall management to analyze and include into the the various aspects of their business, and work towards reducing the carbon footprint of their organization, and enhancing the sustainability quotient of their company that is now not just an ethically viable, but a completely legal and futuristic requirement.

Understanding the Voucher Entry in Sustainability Framework

The JD Edwards Sustainability Framework enables you to record the environmental data by capturing the activity source while you are creating vouchers that can then be used for energy and emission calculations. You can access the ZJDE0019 version of the Standard Voucher Entry program (P0411) from the Sustainability Framework page to create standard vouchers. You can also enter the activity source while you are creating vouchers based on two-way or three-way voucher match. To do this, access the ZJDE0007 version of the Standard Voucher Match program (P4314) from the same page. While creating vouchers, you can assign an activity source that also retrieves the related activity type and scope from the Activity Source Header table (F20S08) and applies those details to the voucher. You can also enter the emission details if you have the data from the suppliers. The system stores these environmental details in the Activity Ledger table (F20S11).

If you have the breakup of the emissions for the sustainability activity, you can select the Emissions option on the Row menu to record emissions such as, emissions quantity, emission UoM, and emission factor. For example, you may receive natural gas invoices from the natural gas supplier with details of emissions involved in the production of the gas production. You can use both the gas consumption data and the associated emission details as activity data. The system stores these granular level emissions in the Emissions table (F20S12).

Forms Used to Work with Vouchers in Sustainability Framework

Form Name	Form ID	Navigation	Usage
Supplier Ledger Inquiry	W0411G	Processing (G20S10), Standard Voucher Entry. Alternatively, select Standard Voucher Entry from the Sustainability Framework Home page.	Locate and review vouchers.
Enter Voucher - Payment Information	W0411A	Click Add on the Supplier Ledger Inquiry form.	Enter the voucher for the invoices received.

Form Name	Form ID	Navigation	Usage
G/L Distribution	W0411K	Click OK on the Enter Voucher - Payment Information form. From the Form menu, select Exit Out Of Bal to exit the GL distribution when out of balance.	Enter the GL distribution details and the details pertaining to the environmental details, such as Activity Source, Activity Type, and Resource Activity. The system stores the environmental details for the voucher to be later used for assessing the sustainability parameters.
Supplier Ledger Inquiry	W0411G	Processing (G20S10), Voucher Match. Alternatively, select Voucher Match from the Sustainability Framework Home page.	Locate and review vouchers.
Voucher Match	W4314A	Click Add on the Supplier Ledger Inquiry form.	Enter the supplier and invoice details to create a voucher based on receipts.
Select Receipts to Match		Select Receipts to Match from the Form menu on the Voucher Match form.	Select the receipts to match to the voucher.
Voucher Match	W4314A	Click OK on the Select Receipts to Match form.	Review the activity details for the voucher by item.
Emissions		Select an item record and select Emissions from the Row menu on the Voucher Match form.	Enter the emission details for the emission types applicable for the item type .



Setting Processing Options for the Voucher Match Program (P4314)

Processing options enable you to specify the default processing for programs and reports. When you have the Sustainability Framework module enabled, you can set up the processing options on the Sustainability tab of the Voucher Match program.

See also..... link to the other POs for this program.

Sustainability

1. Sustainability Activity Ledger MBF (P20S12) version

Enter the version of the Sustainability Framework MBF Processing Options program (P20S12). If you leave this processing option blank, the system uses the default version ZJDE0001.

2. Sustainability Activity Ledger (P20S11) version

Enter the version of the Sustainability Activity Ledger program (P20S11). If you leave this processing option blank, the system uses the default version ZJDE0001.

3. Default Activity Source

Use this processing option to specify how the system should select the activity source in the sustainability activity transaction. Valid values are:

Blank: Enter the activity source.

1: Use the activity source for the item defined in the P20S02 .

5 Understanding the JD Edwards EnterpriseOne Workflow for Sustainability Framework

Understanding the JD Edwards EnterpriseOne Workflow for Sustainability Framework

JD Edwards EnterpriseOne Sustainability Activity Workflow enables you to automate the high-volume intricate process of getting approvals on the vouchers with environmental data into an email-based process flow. The orders created in the Sustainability Framework that exceed the limit set for the Resource Quantity in the Threshold Value field of the Distribution List Control program (P021500) move from the user to the authorized approver as specified in the Address Number field of the program. The approval request automatically goes to all approvers set against the threshold limit specified for their approval required. For example, if the Threshold Value of 100 has the corresponding approver Address Number as 456789, and the Threshold Value of 200 has the corresponding approver Address Number as 123456, the system will send the approval request of an order with the quantity of 220 to the approver with address number 456789, and then to the approver with address number 123456. The approver must use the SF Generic Workflow (P20S01WF) to approve or reject an order.

With an automated and efficient process with minimal user involvement, you can streamline your sustainability processes, increase efficiency, and reduce the overall task time.

Delivered Workflow for JD Edwards EnterpriseOne Sustainability Framework

This section discusses the JD Edwards EnterpriseOne Sustainability Framework workflow.

Description

Workflow Description

The system sends a workflow message to an approver when the user enters Sustainability activities through P0411, P4314, or P20S11 program when the resource quantity (DETERQTY) exceeds the respective threshold value. Once the workflow is triggered, the approval status (APPFLAG0) remains at a status of I (in-progress) and the user cannot modify the SF activity records until the approver approves the transaction to Status A (Approved). If the approver rejects the workflow, the system changes the approval status of activity transaction to R (Rejected).

Workflow Trigger

A user creates a Sustainability activity using the version of P0411, P4314, or P20S11 that has the Approval Workflow processing option set to 1 in the Sustainability Framework MBF (P20S12).

Workflow Action

The approver of the Sustainability activity record receives an email and/or a message in E1 Work Center with the **invoice** information along with the shortcut link to an interactive application to approve or reject the activity record. When the approver clicks this link, the system displays the Workflow Approval form. The approver reviews the activity information and either approves or rejects it. The system updates the status flag to A, if approved, or R, if rejected, and sends an acknowledgement via email and/or the Work Center to the originator on the updated status of the activity record.



Workflow Objects

System

20S

Workflow Object Name

K20S0011A

Key Data Structure: WF20S0001A

Additional Data Structure: WF20S0001B

Event Description / Function Name

B20S0003- SFLedgerEndDoc

Structure Type

UDC 01/TS: SF (Activity Ledger Workflow)

UDC 02/MB: 31 (Activity Ledger Workflow)