

# EcoArtTrack

A Salesforce-powered app to track, analyze, and optimize carbon emissions and sustainability goals using AI-driven insights and automated reporting.

## Deliverables

Creation of three custom objects:

- Material (fields for category, cost, carbon per unit, supplier, etc.)
- Project (budget, goal CO<sub>2</sub>, totals, progress %)
- Usage (child of Project, calculates CO<sub>2</sub> and cost)

Configuration of fields, formula fields, validation rules, and roll-up summaries

One record-triggered Flow to update status and trigger an email when a project meets its CO<sub>2</sub> goal

Quick Action on Project to add usage easily

Basic Lightning App with navigation tabs

Dashboard and Reports to show total CO<sub>2</sub> saved, top materials, and progress

Import of sample data (provided)

Brief handoff or short notes on the configuration



# EcoArtTrack

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## App Flow Overview

The EcoArtTrack app is designed to track and reduce carbon emissions by promoting the use of environmentally friendly materials across projects.

- The Project object is used to track sustainability initiatives — each project defines a CO<sub>2</sub> reduction goal and monitors progress toward achieving it.
- The Material object stores details of various materials, including their carbon impact and cost, allowing teams to select eco-friendly options.
- The Usage object records how materials are being used in each project, helping calculate total CO<sub>2</sub> emitted and total CO<sub>2</sub> saved.

The system automatically:

- Calculates project progress toward the CO<sub>2</sub> goal.
- Updates the status when the goal is achieved.
- Sends an email notification to the project owner.
- Uses AI summaries to provide a clear overview of project performance and related data.

Overall, the flow ensures organizations can measure, analyze, and optimize their carbon-saving efforts efficiently.

## Installation URL

<https://login.salesforce.com/packaging/installPackage.apexp?p0=04tdL000000ECNT>

The screenshot shows the Salesforce Package Manager interface. At the top, there's a header with a blue square icon containing a grid of smaller squares, followed by the word "SETUP" and "Package Manager". Below the header, the package version is displayed as "EcoArt Track Winter 26, Version 1.0". A yellow banner at the top provides a tip about publishing to AppExchange. The main section is titled "Version Detail" and includes fields for Package Name (EcoArt Track Winter 26), Version Name (EcoTrack 26), Version Number (1.0), Description, and Installation URL (<https://login.salesforce.com/packaging/installPackage.apexp?p0=04tdL000000EGBN>). It also shows the file was uploaded by Saachi Padh on 10/28/2025, 11:29 PM. There's a "Deprecate" button and a "Password Protected" checkbox. A "Help for this Page" link is in the top right corner.

**Package Components**

- Tabs (3)**

Component Name	Parent Object	Component Type
Usage		Tab
Material		Tab
Project		Tab
- Pages (3)**

Component Name	Parent Object	Component Type
Project_Record_Page		Lightning Page
EcoTrack_UtilityBar		Lightning Page
Home1		Lightning Page
- Apps (1)**

Component Name	Parent Object	Component Type

## Home Screen:

- We have also added a home screen where users can directly view the dashboards, instead of navigating to Reports and Dashboards individually.

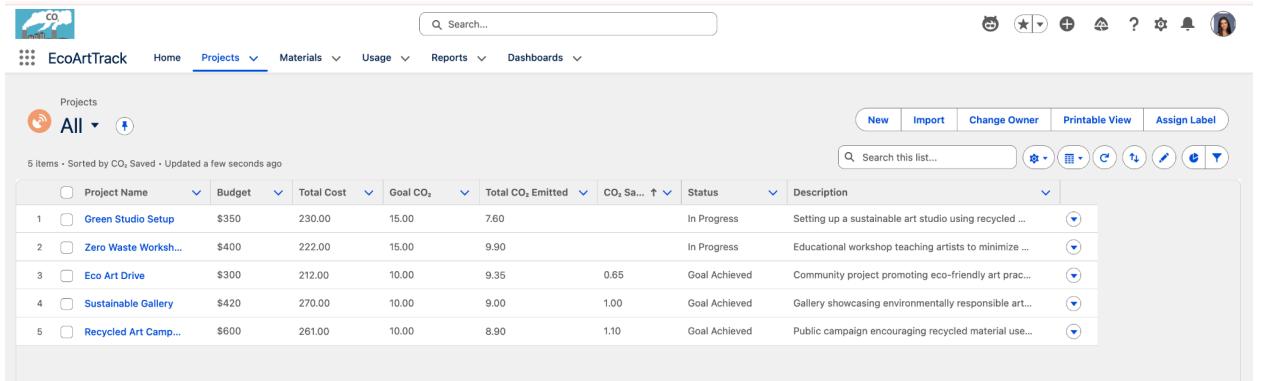
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## Objects:

### Project

- Project Name
- Budget
- CO<sub>2</sub> Saved
- Description
- Goal CO<sub>2</sub>
- Progress Percentage
- Project Summary

- Status
- Total Cost
- Total CO<sub>2</sub> Emitted



The screenshot shows the EcoArtTrack application interface. At the top, there is a navigation bar with links for Home, Projects (which is currently selected), Materials, Usage, Reports, and Dashboards. A search bar labeled "Search..." is located at the top right. Below the navigation bar is a toolbar with various icons for actions like New, Import, Change Owner, Printable View, and Assign Label. The main area displays a table titled "Projects" with the following data:

	Project Name	Budget	Total Cost	Goal CO <sub>2</sub>	Total CO <sub>2</sub> Emitted	CO <sub>2</sub> Sa... ↑ ↓	Status	Description
1	<a href="#">Green Studio Setup</a>	\$350	230.00	15.00	7.60		In Progress	Setting up a sustainable art studio using recycled ...
2	<a href="#">Zero Waste Worksh...</a>	\$400	222.00	15.00	9.90		In Progress	Educational workshop teaching artists to minimize ...
3	<a href="#">Eco Art Drive</a>	\$300	212.00	10.00	9.35	0.65	Goal Achieved	Community project promoting eco-friendly art prac...
4	<a href="#">Sustainable Gallery</a>	\$420	270.00	10.00	9.00	1.00	Goal Achieved	Gallery showcasing environmentally responsible art...
5	<a href="#">Recycled Art Camp...</a>	\$600	261.00	10.00	8.90	1.10	Goal Achieved	Public campaign encouraging recycled material use...

## Material

- Material Name
- Carbon per Unit Kg
- Category
- Cost per Unit
- Description
- Supplier(Account)

The screenshot shows the EcoArtTrack application's Materials list page. At the top, there is a navigation bar with links for Home, Projects, Materials (selected), Usage, Reports, and Dashboards. Below the navigation is a search bar and a toolbar with various icons for actions like New, Import, Change Owner, Printable View, and Assign Label.

The main content area displays a table of materials. The table has columns for Material Name, Category, Cost per Unit, Carbon per Unit Kg, Supplier, and Description. The rows list 13 items, each with a checkbox and a link to its details. The table is sorted by Carbon per Unit Kg in descending order.

	Material Name	Category	Cost per Unit	Carbon per Unit Kg	Supplier	Description
1	<a href="#">Acrylic Paint</a>	Paint	\$10.00	0.80	ArtHouse Supplies	High-quality acrylic paint used for canvas work.
2	<a href="#">Cotton Canvas Roll</a>	Canvas	\$18.00	0.65	EarthTone Creations	Premium cotton canvas roll for professional use.
3	<a href="#">Canvas Board</a>	Canvas	\$15.00	0.60	CraftMaster Ltd.	Pre-stretched canvas board for painting.
4	<a href="#">Reclaimed Wood Frame</a>	Wood	\$20.00	0.55	GreenFrame Co.	Eco wood frame made from reclaimed timber.
5	<a href="#">Watercolor Paint</a>	Paint	\$10.00	0.55	EcoCraft Materials	Eco-friendly watercolor paint with vibrant colors.
6	<a href="#">Wooden Easel</a>	Wood	\$22.00	0.50	EcoCraft Materials	Reusable wooden easel made from FSC-certified wood.
7	<a href="#">Plant-Based Paint</a>	Paint	\$11.00	0.45	NatureWorks Studio	Low-carbon paint derived from plant-based pigments.
8	<a href="#">Organic Cotton Fabric</a>	Fabric	\$14.00	0.40	PureWeave Fabrics	Soft organic fabric made from renewable cotton.
9	<a href="#">Bamboo Fabric</a>	Fabric	\$13.00	0.38	BambooArt Tools	Lightweight bamboo fabric for eco-friendly art projects.
10	<a href="#">Bamboo Paper</a>	Paper	\$7.00	0.35	BioBond Adhesives	Smooth bamboo-based paper with low carbon footprint.
11	<a href="#">Handmade Paper</a>	Paper	\$6.00	0.30	EcoVision Traders	Artisan handmade paper crafted from recycled fibers.
12	<a href="#">Cork Board</a>	Wood	\$9.00	0.28	Sustainable Source	Renewable cork board used for display and mounting.
13	<a href="#">Recycled Paper</a>	Paper	\$5.00	0.25	GreenLeaf Co.	100% recycled paper for sketching and printing.

## Usage

- Usage Name (Auto Number)
- Cost
- CO<sub>2</sub> Emitted
- Date Used
- Material(lookup)
- Notes
- Project(master-detail)
- Quantity

14 Items • Sorted by Usage Name - Updated a few seconds ago

	Usage Name ↑	Project	Material	Quantity	CO <sub>2</sub> Emitted	Cost	Date Used
1	USG-0001	Eco Art Drive	Acrylic Paint	2.00	1.60	20.00	10/20/2025
2	USG-0002	Eco Art Drive	Recycled Paper	8.00	2.00	40.00	10/20/2025
3	USG-0003	Green Studio Setup	Canvas Board	6.00	3.60	90.00	10/21/2025
4	USG-0004	Green Studio Setup	Organic Cotton Fabric	10.00	4.00	140.00	10/21/2025
5	USG-0005	Sustainable Gallery	Reclaimed Wood Frame	10.00	5.50	200.00	10/22/2025
6	USG-0006	Sustainable Gallery	Bamboo Paper	10.00	3.50	70.00	10/22/2025
7	USG-0007	Zero Waste Workshop	Handmade Paper	15.00	4.50	90.00	10/23/2025
8	USG-0008	Zero Waste Workshop	Plant-Based Paint	12.00	5.40	132.00	10/23/2025
9	USG-0009	Recycled Art Campaign	Cork Board	5.00	1.40	45.00	10/24/2025
10	USG-0010	Recycled Art Campaign	Wooden Easel	3.00	1.50	66.00	10/24/2025
11	USG-0011	Recycled Art Campaign	Canvas Board	10.00	6.00	150.00	10/9/2025
12	USG-0012	Eco Art Drive	Canvas Board	5.00	3.00	75.00	10/16/2025
13	USG-0013	Eco Art Drive	Plant-Based Paint	5.00	2.25	55.00	10/9/2025
14	USG-0018	Eco Art Drive	Wooden Easel	1.00	0.50	22.00	10/22/2025

## Flows / Automations:

- Calculate Cost and CO<sub>2</sub> Used
- Project\_Status\_Update\_and\_Notification
- Project Record Summary Prompt Template

## Email Template:

- **Send Email When Goal Achieved**
  - Sends an email to the Project Owner when the CO<sub>2</sub> goal is achieved.

## Email Alert:

- **Send Email When Goal is Achieved**
  - Sends an email to the Project Owner when the CO<sub>2</sub> goal is achieved.

## Reports and Dashboards:

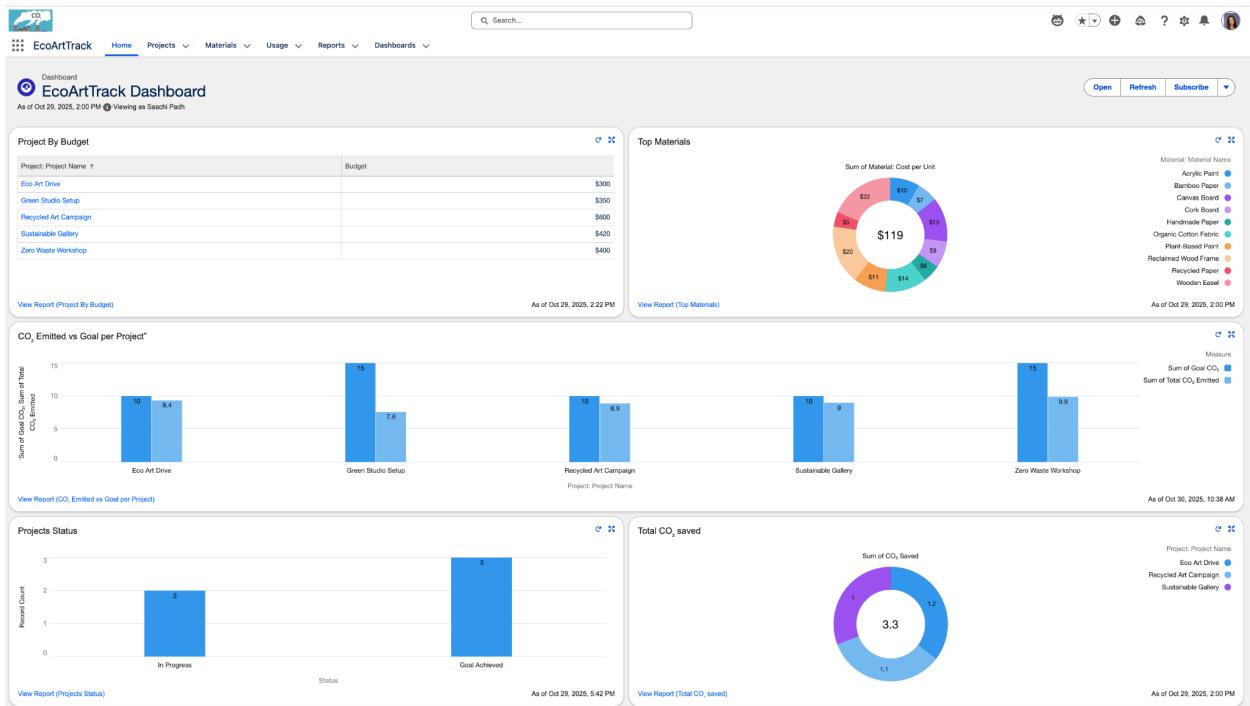
We have also added sample data in all objects, and based on that, we have created reports and dashboards to visualize project performance and CO<sub>2</sub> impact metrics.

## Reports:

- Total CO<sub>2</sub> saved
- Projects Status
- Emission, goal, and progress %
- Top Materials
- Project By Budget

## Dashboards:

- EcoArtTrack Dashboard



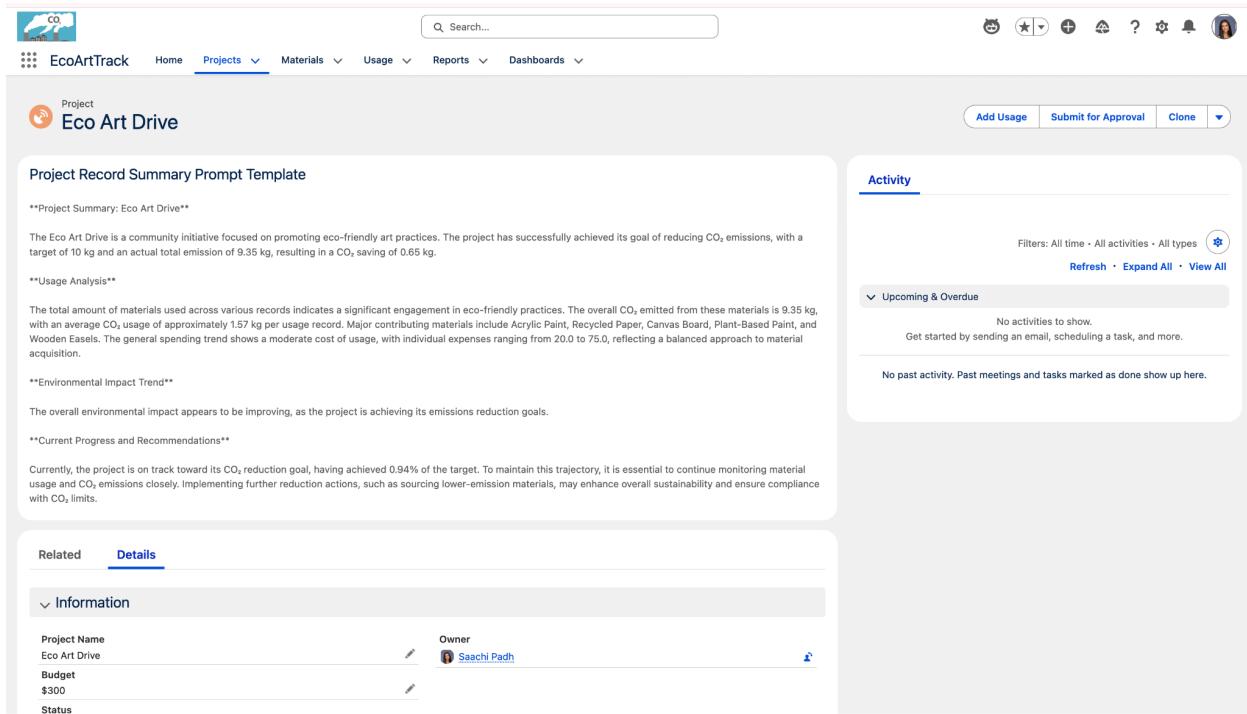
## Additional Functionality:

- **Prompt Builder** functionality enabled.

- Added a **Record Summary** field that uses AI to automatically summarize project and related records.
  - Created a **Screen Flow** to generate a summarized view of project data, including related records.
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## Prompt Templates Name:

- Project Record Summary



The screenshot shows the EcoArtTrack application interface. At the top, there's a navigation bar with icons for Home, Projects (selected), Materials, Usage, Reports, and Dashboards. A search bar is also at the top. Below the navigation, the title 'Project Eco Art Drive' is displayed. On the left, a sidebar contains sections for 'Project Record Summary Prompt Template', 'Usage Analysis', 'Environmental Impact Trend', and 'Current Progress and Recommendations'. The main content area has tabs for 'Related' and 'Details'. Under 'Details', there's a section titled 'Information' containing fields for 'Project Name' (Eco Art Drive), 'Budget' (\$300), and 'Status'. To the right, there's an 'Activity' section with a header for 'Upcoming & Overdue' and a message stating 'No activities to show. Get started by sending an email, scheduling a task, and more.' There are also buttons for 'Add Usage', 'Submit for Approval', and 'Clone'.

## ● Project Summary

The screenshot displays the EcoArtTrack software interface, specifically the 'Project Summary' page for the 'Eco Art Drive' project. The top navigation bar includes links for Home, Projects (selected), Materials, Usage, Reports, and Dashboards. A search bar and various system icons are also present.

**Project Information:**

- Project Name: Eco Art Drive
- Budget: \$300
- Status: Goal Achieved
- Goal CO<sub>2</sub>: 10.00
- Total CO<sub>2</sub> Emitted: 9.35
- CO<sub>2</sub> Saved: 0.65
- Total Cost: 212.00
- Description: Community project promoting eco-friendly art practices.

**Project Summary:**

The Eco Art Drive project successfully achieved its CO<sub>2</sub> goal of 10 kg, emitting a total of 8.85 kg and saving 1.15 kg of CO<sub>2</sub>. With a progress rate of 0.89%, this community initiative effectively promoted eco-friendly art practices, contributing positively to environmental sustainability.

**System Information:**

Created By: Saachi Padh, 10/26/2025, 10:21 PM

Last Modified By: Saachi Padh, 10/29/2025, 3:24 PM