# **Guided Report Builder Guide**

# For the Replit Development Agent

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## 1. Objective

This document provides a detailed technical guide for the Replit Agent to build the new **Guided Report Builder**. This feature will replace the previous dynamic report builder with a structured, step-by-step wizard. The goal is to guide the user through the creation of a comprehensive sustainability report, combining automated data visualization with Al-assisted narrative writing at each stage.

#### 2. Part 1: Backend & Database Enhancements

The existing database tables (company\_story, initiatives, custom\_reports) are still relevant, but the structure of the custom\_reports table needs to be updated to support this new, linear flow.

## 2.1. Modification to custom\_reports Table

The report\_layout field will now store a JSON object with a key for each step of the wizard, holding the user's written narrative.

Column Name	Data Type	Constraints	Description
(existing columns)			
report_content	JSONB	NOT NULL	Stores the narrative content for each section of the report. See structure below.

#### **New report content JSONB Structure:**

```
{
"introduction": "This is our first sustainability report...",
"company_info_narrative": "Founded in 2020, our mission is...",
```

```
"key_metrics_narrative": "This year, we focused on tracking...",
"carbon_footprint_narrative": "Our total carbon footprint was...",
"initiatives_narrative": "To reduce our impact, we launched several key initiatives...",
"kpi_tracking_narrative": "We are making steady progress towards our goals...",
"summary": "In conclusion, our journey is just beginning..."
}
```

## 2.2. New API Endpoints

- POST /api/reports/create: A new endpoint to initialize a report, creating a new entry in the custom reports table.
- PUT /api/reports/<report\_id>/save-step: An endpoint to save the narrative content for a specific step of the wizard as the user progresses.

## 3. Part 2: Frontend Implementation (The Guided Report Wizard)

This new wizard will be a full-page, multi-step interface, likely at /app/reports/new.

## 3.1. Main Wizard Component

- Trigger: A "Create New Report" button on the main reports page.
- **UI:** A clean, full-screen interface with a persistent sidebar or header showing the steps of the wizard (e.g., "1. Introduction", "2. Company Info", etc.). The user can navigate between completed steps.

## 3.2. Wizard Steps

- Step 1: Introduction
  - Headline: "Report Introduction"
  - **UI:** A large text editor component.
  - Al Support: An "Al Assist" button is prominently displayed, which can help the user draft an impactful opening statement.

#### • Step 2: Company Info & Strategic Pillars

- Headline: "Our Company & Our Strategy"
- **UI:** A two-panel layout.
  - **Left Panel (Data):** Automatically displays the mission\_statement and strategic\_pillars from the company\_story table for reference.
  - **Right Panel (Narrative):** A text editor for the user to write the narrative for this section, with Al support.

#### • Step 3: Key Metrics

- **Headline:** "Our Key Performance Indicators"
- **UI:** A two-panel layout.
  - **Left Panel (Data):** Displays the main KPI cards from the user's dashboard (e.g., Total Carbon Footprint, Water Intensity).
  - **Right Panel (Narrative):** A text editor for the user to explain the importance of

these metrics.

#### • Step 4: Carbon Footprint Analysis

- Headline: "Our Carbon Footprint"
- **UI:** A two-panel layout.
  - **Left Panel (Data):** Displays the main GHG Footprint chart (breakdown of Scopes 1, 2, and 3).
  - **Right Panel (Narrative):** A text editor for the user to provide context and analysis of their emissions.

## • Step 5: Sustainability Initiatives

- Headline: "Our Sustainability Initiatives"
- UI: A two-panel layout.
  - **Left Panel (Data):** The user is presented with a list of their saved initiatives from the initiatives table. They can select which ones to include in the report.
  - **Right Panel (Narrative):** A text editor for the user to describe their key projects and actions.

## • Step 6: KPI Tracking

- **Headline:** "Our Progress Against Goals"
- **UI:** A two-panel layout.
  - Left Panel (Data): Displays the KpiProgressCard components for all the user's active goals.
  - **Right Panel (Narrative):** A text editor for the user to discuss their progress and future plans.

#### • Step 7: Summary

- Headline: "Report Summary & Conclusion"
- **UI:** A final text editor for the user to write their concluding remarks, with AI support.

## 3.3. Final Step: Preview & Export

• **UI:** After the final step, the user is taken to a "Preview & Export" page.

#### • Functionality:

- A live, scrollable preview of the entire report, assembling all the data visuals and the user's written narrative in a professional layout.
- "Export as PDF" and "Generate Web Page" buttons that trigger the final report generation.