



Df-OS
Digital Factory Operating System



Use Case - ESG Data Monitoring

Powered by Df-OS
(Digital Factory Operating System)





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Project Background



As industries globally are increasingly held accountable for their Environmental, Social, and Governance (ESG) performance, factories face mounting pressure to maintain accurate, timely, and actionable ESG data.

Traditional methods, predominantly reliant on manual processes and Excel spreadsheets, present significant challenges in ensuring data accuracy, timeliness, performing critical calculations of important data points, and ease of analysis. Digital Factory Operating System (**Df-os**), a premier digitalization platform, offers a transformative solution designed to streamline ESG data management, improving both efficiency and accuracy and clean data management.



Problem Statement

Factories encounter significant challenges in ESG data management, largely stemming from an over-reliance on Excel for manual data entry.

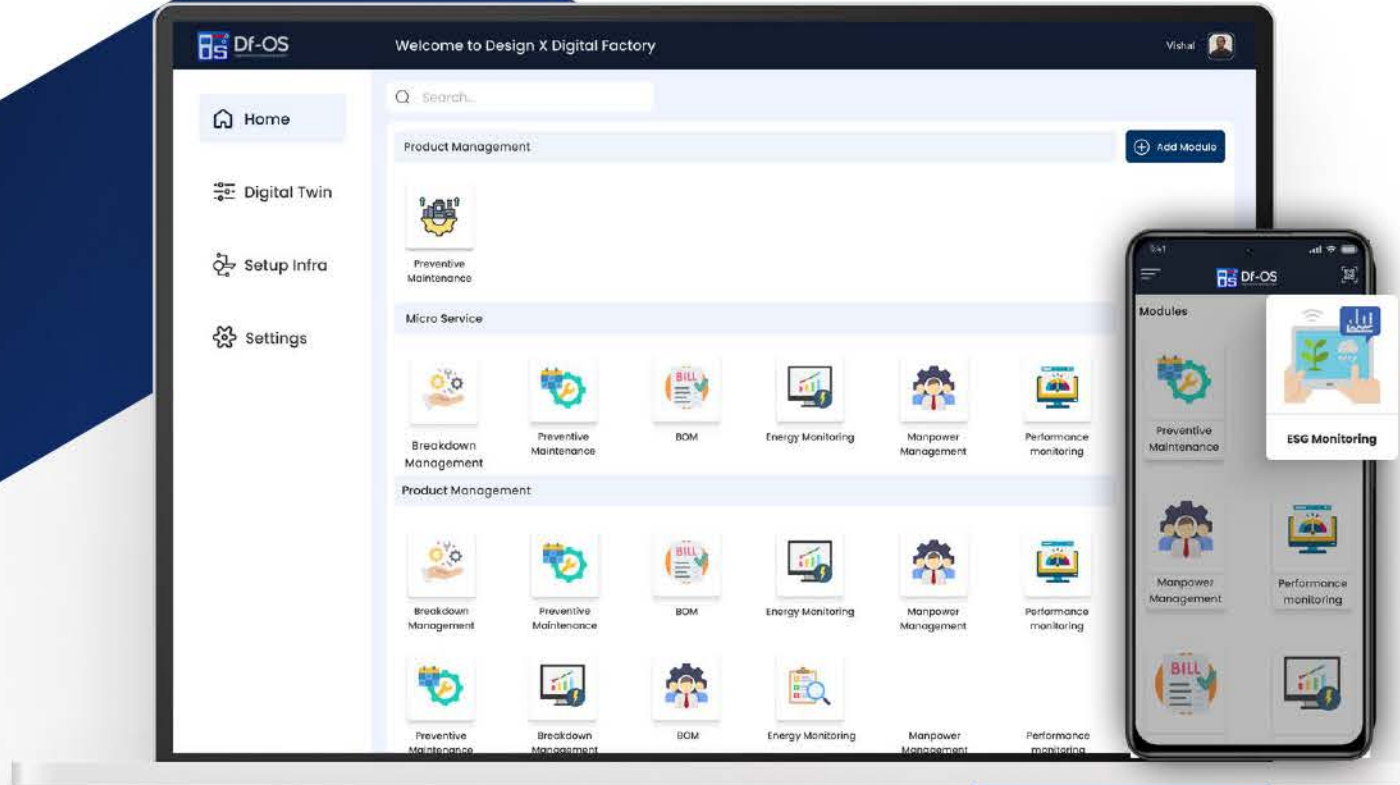
This introduces errors and inefficiencies, and at the same time lacks **monthly data record compliance**. The manual processing of data **delays the acquisition of actionable insights**, and the complex calculations required for thorough ESG analysis complicate decision-making. As a result, the overall management process becomes cumbersome and increasingly prone to inaccuracies, hindering effective sustainability efforts.



Proposed Solution

The ESG Data Management process is seamlessly digitalized on **Df-OS** ensuring comprehensive data tracking and management.

- **Digitization of existing documents:** A Digital Replica of all the Excel files for each material topics covered in ESG are created.
- **Logics & Calculation Build:** Logic and calculations are built for generating calculated values of each data point.
- **Real-Time Analytics:** Data acquisition digitally over the **Df-OS** app over laptops & mobile devices.
- **Data Approval:** Flow of submitted data for approval process at different levels.
- **Data Analytics:** Automatic report and dashboard generation for the entered data for better insights and action.



Process Workflow



ESG Data Recorded
Digitally



Approvals on Data



Data Locked and
Published



User Interface



The laptop screen shows a web application interface. At the top, there is a dark blue header with the logo 'BS Df-OS' on the left, the text 'Welcome to Design X Digital Factory' in the center, and a user profile 'Vishal' with a small avatar on the right. Below the header, the interface is divided into a left sidebar and a main content area. The sidebar contains four menu items: 'My Form' (with a grid icon), 'Workflow' (with a flowchart icon), 'Task to Me' (with a checkmark icon), and 'Reports' (with a document icon). The main content area has a 'Back' button at the top left and a search bar at the top right. Below these is a blue bar labeled 'Datapoint'. The main area contains five data entry rows, each with a label, a text input field, and an information icon (i). The labels are: '1: Total Raw Water Withdrawn (Borewell+Municipality Supply+External Supply) (KL)', '2: Total Effluent Generated (ETP=STP Outlet) (KL)', '3: Total Teated water user in garden(KL)', '4: Total Teated Effluent Re-Cycled/ Re-Used/ Discharge To Surface (KL)', and '5: Total Effluent Send To Drain/CETP (KL)'. At the bottom of the main area, there are three buttons: 'Preview' (blue), 'Save Draft' (dark blue), and 'Submit' (green).

BS Df-OS

Welcome to Design X Digital Factory

Vishal

My Form

Workflow

Task to Me

Reports

Back

Search...

Datapoint

1: Total Raw Water Withdrawn (Borewell+Municipality Supply+External Supply) (KL)

2: Total Effluent Generated (ETP=STP Outlet) (KL)

3: Total Teated water user in garden(KL)

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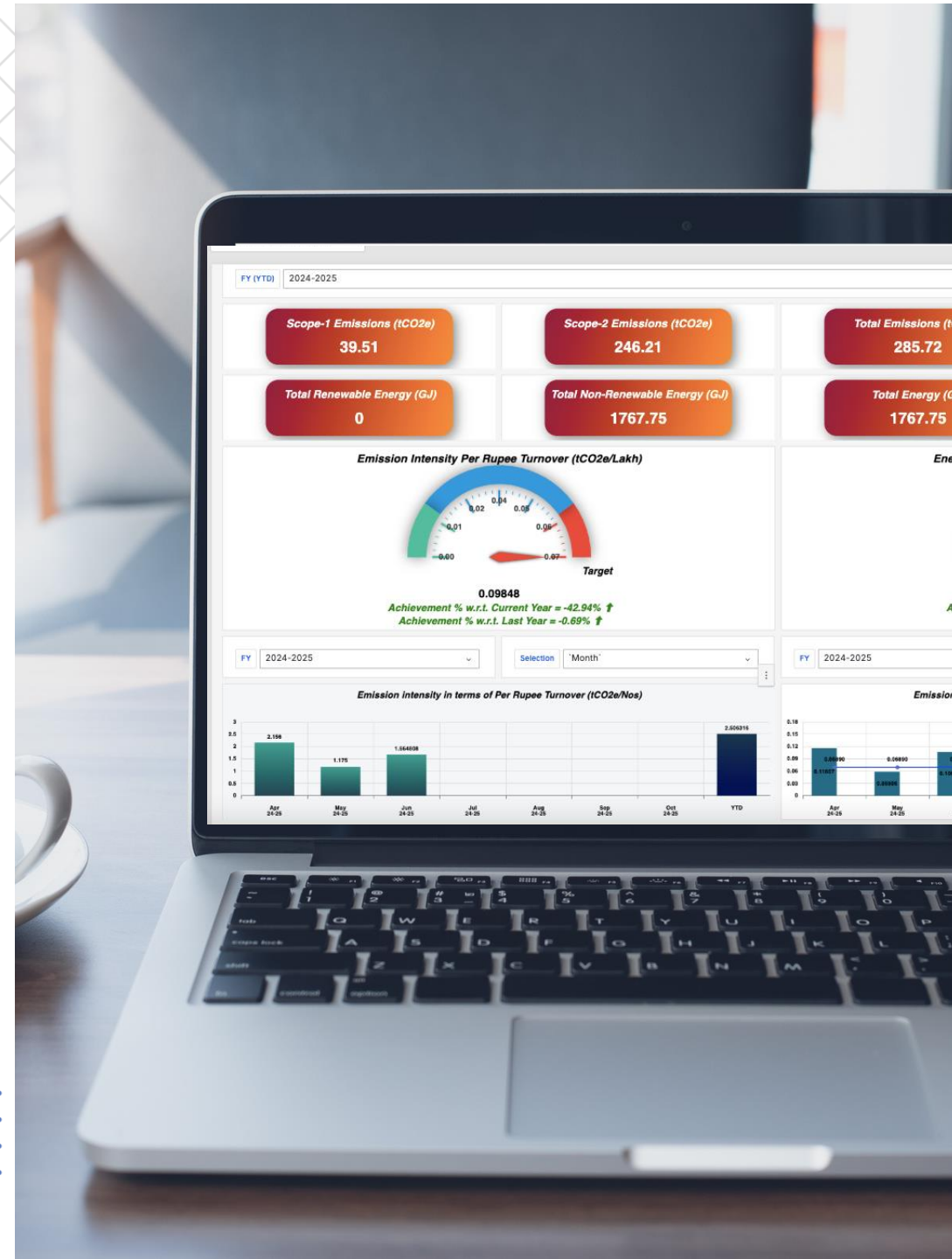
Preview Save Draft Submit

Output

- **Covering all nine pillars of ESG**

Safety Management
Energy Management & GHG Emission
Water Management
Waste Management
Safety Management
Business Risk Management
Stakeholder Supplier Management
Stakeholder Customer Management
Financial Prudence
Human Capital Development

- **Auto calculation of Scope 1 , Scope 2 emissions.**
- **Monitoring important KPIs like TCIR,Diversity Ratio,Landfill%**
- **Immediate roll out to all 19 factories.**
- **Increased touch base with supplier for providing their ESG data.**



Key Results



- **Increased Efficiency:** Reduction in time spent on manual data entry and calculation.



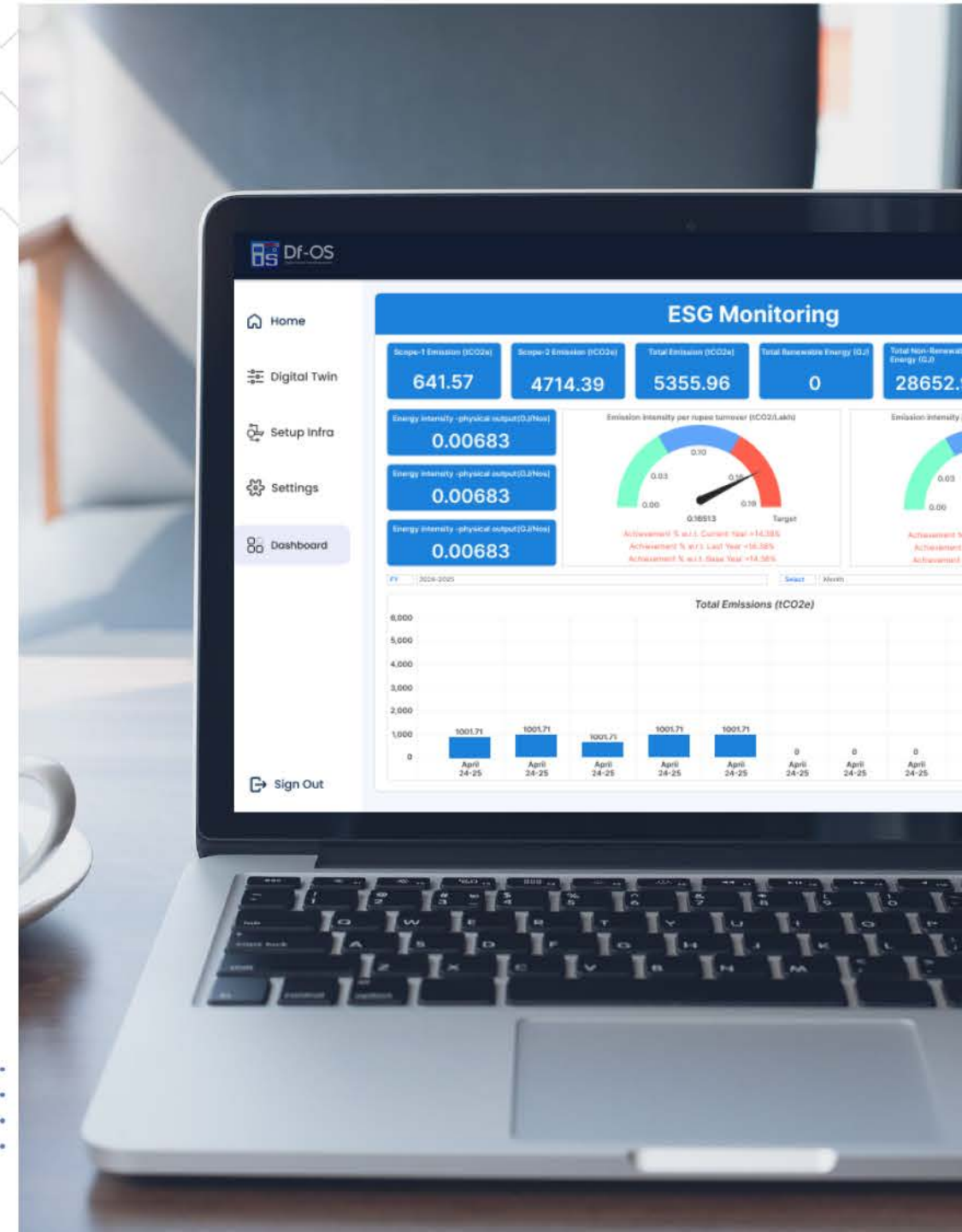
- **Real-Time Insights:** Access to up-to-date ESG data and reports.



- **Improved Accuracy:** Enhanced data accuracy through automation and reduced manual errors.



- **Simplified Reporting:** Streamlined reporting process with customizable templates and automatic updates.





Benefits



Real-Time reports & dashboard generation for prompt action.



Decrease in dependency on manpower for data creation & analysis.



Data sanctity as it flows through different approvals.



User-Friendly Interface

Contact Us

Unlock the transformative potential of Df-OS for your factory operations. Connect with us today via phone, email, or LinkedIn to learn more!



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Contact Us

DesignX is revolutionizing the manufacturing industry by digitizing processes to enhance productivity, safety, and quality. Our SaaS solution empowers the deskless workforce, addressing the critical need for digitalization in shop floor operations. With a focus on the manufacturing sector, where 80% of the workforce operates in the field, DesignX bridges the gap between deskless and deskbound employees, who leverage advanced technologies and enterprise software to optimize their tasks.

Our flagship product Df-OS is a SaaS-based platform crafted to streamline, analyze, automate, and measure shop floor processes. With the potential to revolutionize over 5 million factories and plants across various industries worldwide, Df-OS enhances manufacturing operations by reducing human errors and saving time, thereby fostering exponential business growth.

To discover how Df-OS can revolutionize your factories and operations, please reach out to us via phone, email, or LinkedIn.



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