**Purpose**

The purpose of this website is to track the performance of our EV trucks. We will upload data from our Transport Management System and this data will include trips for those EV trucks per day. The trip details will include the date, customer, from, to, tons loaded, type of truck, plate number.

We will get from a different source the electricity consumption per kWh for each truck.

We will also get the coordinates of each From and To location and the distance between them. In case the distance is not available we will use google maps to calculate it.

Using all this data we will create dashboards to present to our management.

More importantly, we will use this uploaded data to export a simple excel file based on a given template. We will also be able to generate a customer report based on their emissions during a certain period, based on a tempalte

**Color palette**

Primary colors: #002664, #FFFFFF, #000000

Secondary colors: #0A34A1, #4B87E0, #BCDBEC, #199049, #BDE7AA

**Pages**

The navigation bar will have my company logo on the left, and the menu on the right:

Menu: Dashboard | Trips | Trucks | Locations | Routes | Data & Import | Export | Debug

1. The Dashboard will be the landing page. It will be nicely presented in a cubes format filling the pate. Their will be a filtering pane on the left side.
2. Data in the dashboard:
   1. Total Kms driven
   2. Number of trips
   3. A bar chart showing the number of trips per truck
   4. A bar chart showing the Km per truck
   5. A table format showing the electricity consumption per truck
3. Filtering: on the left side of the dashboard, we need filters:
   1. Filter by date (From – to)
   2. Filter by Truck
   3. Filter by client
4. The Trips page will have a table format with raw data on the trips
5. The Trucks page will have data on each truck. It will be presented in a table format

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Plate** | **Make** | **Trips** | **Km** | **kWh** | **kWh/km** | **tkm** | **kWh/tkm** | **KgCO2** | **KgCO2/tkm** | **KgCO2/km** |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

1. Locations

In this section we will define the locations with coordinates. The format will be a table with:

Column A: location\_name

Column B: coordinates

The page should allow to add more locations by pressing the add button on top and it should allow to edit any existing location by pressing on the location\_name where we can edit the name and coordinate

The initial table will be uploaded via an excel file.

1. Routes

In this section we will have predefined routes with Kms. Format will be a table:

Column A: from\_location\_name

Column B: to\_location\_name

Column C: Km\_distance

Column D: Source

If the Km\_distance is not available, if should be calculated based on google maps and the source will be Google Maps.

1. Data & Imports

We will first present data used in the calculation:

Energy Consumption: kWh/Km for each truck for the selected period (table)

Emission Factor: KgCO2/kWh this is monthly, across the board

Import (each will have a template.

Trips details from our TMS

Energy consumption for each truck

1. Export

Based on a set period, we can do the following:

1. Extract monthly emissions report in excel
2. Extract emissions report per customer (word or PDF)