



CBEP MATCHING TOOL

USER GUIDE



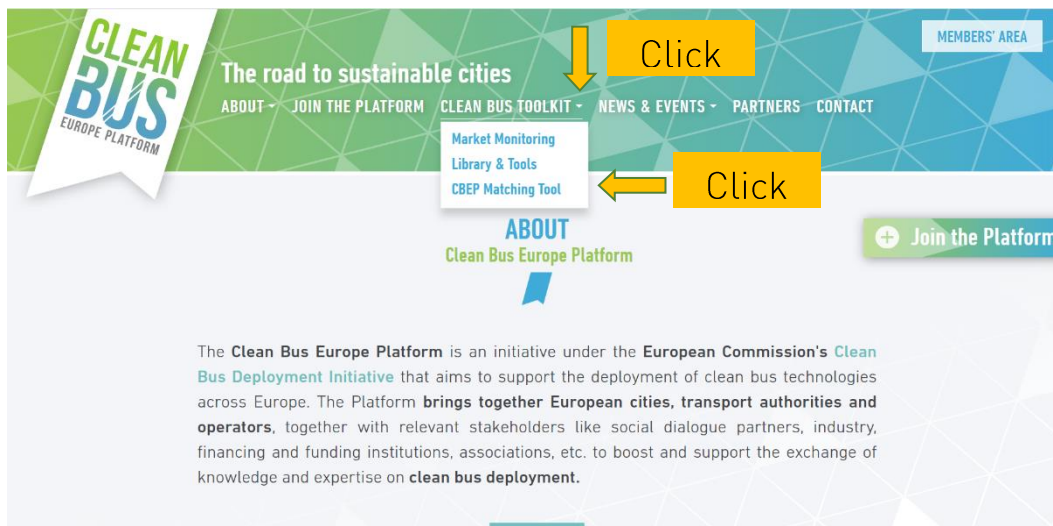
Purpose of the tool

The purpose of the tool is to help public transport bus operators and authorities get information on the fleet composition, bus and battery information, contact points of other PTOs/PTAs and more importantly, the result of a comparative analysis. The tool compares the input data of geographical and operational parameters that it collects in the form of objective questions from the end users to compare the local conditions with the clean bus deployments at the line-level operational across EU to ultimately give a similarity score. The tool is built with a further provision of fostering networking opportunity with contact information of the respective use cases' PTO or the PTA for direct exchange of experiences which needs an update in the database in future.

How to use?

STEP 1: ENTERING THE TOOL FROM WITHIN THE CBEP WEBSITE

After entering the website: <https://cleanbusplatform.eu/> click on the tab CLEAN BUS TOOLKIT, a list of drop-down options will appear, then choose CBEP Matching tool to access the tool for free.



STEP 2: FILLING IN THE INPUT PARAMETERS TO THE BEST OF YOUR KNOWLEDGE

Input parameters are a mix of your local conditions, type of buses you are looking at or the ones you look to replace 1:1 and the line information if you have already selected a line to convert diesel buses to clean tech. After answering all the known parameters, you can leave the rest of the fields as it is and click on "Generator".

The image shows two screenshots of the 'Clean Bus Matchmaking Tool' interface. The top screenshot shows the initial state with several dropdown menus and input fields, some of which are highlighted with yellow arrows. The bottom screenshot shows the same tool after more parameters have been filled in, with a 'Start Generator' button highlighted by a yellow arrow.

Clean Bus Matchmaking Tool

Geographical Location / Climate Zone: None (highlighted with yellow arrow)

Powertrain Technology: Battery Electric (highlighted with yellow arrow)

HWAC: Fully electric heating (highlighted with yellow arrow)

City Centre (highlighted with yellow arrow)

Line Length (km): 15 (highlighted with yellow arrow)

Clean Bus Matchmaking Tool

Geographical Location / Climate Zone: Western Europe

Topography: Moderate

Line Type: Metropolitan Area

Line Length (km): 15

Bus Size: Solo (12m-15m)

Daily mileage per vehicle (km): 100km - 250km

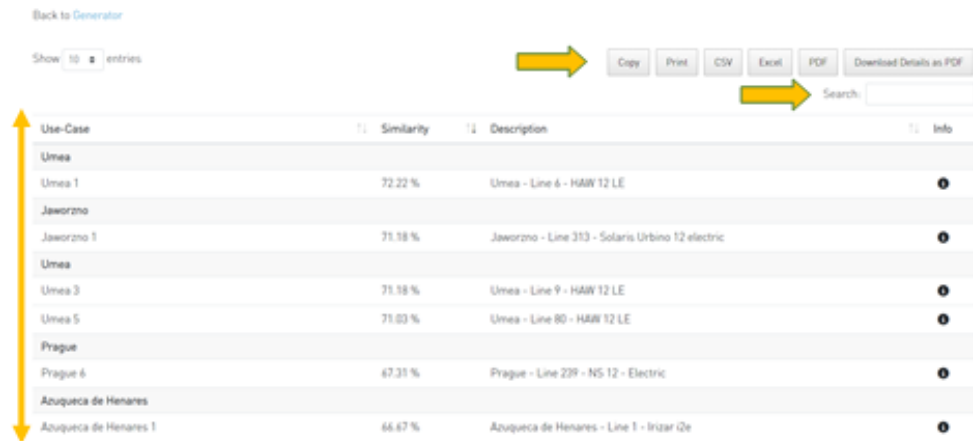
Powertrain Technology: Battery Electric

HWAC: Fully electric heating

Start Generator (highlighted with yellow arrow)

STEP 3: LIST OF RESULTS ARRANGED BASED ON SIMILARITY SCORE

After you hit “Start Generator”, a list of search results will appear, which can be downloaded and extracted in different file formats (CSV, Excel, PDF), copied and printed. The list is arranged based on the similarity score that the tool calculates based on weighted average algorithm and by comparing the entered parameters in Step 2 and the database stored within the tool. There’s also a search function, which allows you to find specific information you are seeking for.



Back to Generator

Show 10 entries

Copy Print CSV Excel PDF Download Details as PDF

Search

Use-Case	Similarity	Description	Info
Umea			
Umea 1	72.22 %	Umea - Line 6 - HAW 12 LE	Info
Jaworzno			
Jaworzno 1	71.18 %	Jaworzno - Line 313 - Solaris Urbino 12 electric	Info
Umea			
Umea 3	71.18 %	Umea - Line 9 - HAW 12 LE	Info
Umea 5	71.03 %	Umea - Line 80 - HAW 12 LE	Info
Prague			
Prague 6	67.31 %	Prague - Line 239 - NS 12 - Electric	Info
Azuqueca de Henares			
Azuqueca de Henares 1	66.67 %	Azuqueca de Henares - Line 1 - Irizar G6	Info

STEP 4: DETAILED TABLES ON EACH OF THE LINE

Next to each search result which are different lines where clean buses are in operation, there is a functional button "Info" with a small icon. Clicking on that would provide extended information and data related to that specific line. It provides further details of the overall operations including fleet size, contact information, bus and battery information, charging system data and detailed similarity analysis between the parameters you entered in the tool and the selected line itself.

Search:

Use-Case: Umea Similarity: 72.22 % Description: Umea - Line 6 - HAW 12 LE Info

General Information

Country	Germany
Public Transport Authority / Operator	The Traffic Operator
Contact	E-Mail: email, Phone: phone
Fundings/Projects	Funding: 2019, 2021
Fleet Size	200
Technology Breakdown	No data available

Bus Information

Brand	Hybricon Artic Whisper
Model	HAW 12 LE
Power (kW)	182.00
Length	12.00
Passenger Capacity	65.00

Charging & Refuelling Infrastructure

Technology	Depot	On-Route
------------	-------	----------

There is no data available in the table

Battery Information

Supplier	[Hybricon]
Technology	Lithium-Ion battery
Specification	L70
Capacity	80.00

Charging System

System	Depot
Charging Solution	
Charging Power	
Charging Time	

Resulted Similarity Analysis

Contact	E-Mail: email, Phone: phone
Fundings/Projects	Funding: 2019, 2021
Fleet Size	200
Technology Breakdown	No data available

Length	12.00
Passenger Capacity	65.00

Charging & Refuelling Infrastructure

Technology	Depot	On-Route
------------	-------	----------

There is no data available in the table

Capacity	80.00
----------	-------

Charging System

System	Depot
Charging Solution	
Charging Power	
Charging Time	

Detailed Similarity Analysis

Scores	Line Length	Topography	Daily Mileage	Bus Size	Line Type	Charging / Fueling	HVAC	Geo Location	Total
Your Input	15	Moderate	100-250km	12	Metropolitan Area	Battery Electric	Fully electric heating	Western Europe	
Project Data	15	Moderate	250	12	Metropolitan Area	Depot	Fully electric heating		
Your Similarity	1.20	0.80	0.90	0.50	0.80	0.00	1.00	0.00	5.20
Maximum Score	1.20	0.80	0.90	0.50	0.80	1.00	1.00	1.00	7.20
Similarity (%)	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	0.00 %	100.00 %	0.00 %	72.22 %