

- While Fleet Owners aspire to achieve Net-Zero Emissions As Soon as Possible, they also have to take into account Business Sustainability and the Increased Cost Associated with Achieving Net Zero Emissions.
- We Offer a Fleet DeCarbonization Software and Mobile App for Ground Transportation Owners to be able to schedule a DeCarbonization Routine to Enable them Achieve Net Zero Emissions.
- Using the Software, Existing Fleet Owners are able to select the Level of Net Zero Emissions Reduction they can realistically achieve within a Decade or So.

- The Software allows the Fleet Owner to
 - Enter in the Years they Would Like to Plan for DeCarbonization of their Ground Fleet (1-10).
 - Enter the Number of Cars they Would Have in their Ground Transportation for the Given Year.
 - Enter the Yearly Distance Demand for the Ground Fleet for Each Year.
 - Select the Range of DeCarbonization they Would Feel Comfortable Implementing for the Given Years.
- 0% Lowest Operation Cost & Lowest Emission Reduction
- 100% Highest Operation Cost & Highest Emission Reduction

- The Software displays for the Fleet Owner:
 - The Required Cost to Achieve 0% Emission Reduction.
 - The Required Cost to Achieve 100% Emission Reduction.
 - The Required Cost to Achieve the Set
 Percentage (%) Chosen By the Fleet Owner.

This Solution allows the Fleet Owner to see:

- If they can realistically afford the Emission Reduction Threshold they have selected.
- If they can cost-wise afford to select a higher Emission Reduction Threshold.
- To know the cost associated with Maximum Emission Reduction for their Fleet.

 The Software allows Fleet Owners to Optimize Fleet Emission Reduction for their Fleet PER DECADE, taking into account:

- Cost
- Customer Demand and Satisfaction

PAST EXPERIENCE WITH CUSTOMERS

- Olawuyi Racett Nigeria Ltd. OX1 2JD, has worked on Optimizing Volume Measurements in the Oil and Gas Industry.
- We have Designed a Novel Innovative Method called PePVEAT that provides a Technological Replacement for the Manual Tank-Dip Methods used in the Oil and Gas Industry to perform Volume Measurements of Petroleum Products.



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TECHNOLOGY STAGE

- The Fleet Optimization Software owned by OLAWUYI RACETT NIGERIA LTD. OX1 2JD, is currently at the Level TRL 3 Stage.
- This is because We Have Fully developed the Mathematical and Software Algorithm to Calculate and Display the Maximum Emission Reduction and Cost, as well as the Minimum Emission Reduction and Cost for a User-Defined Number of Years, Fleet Size, and Distance Demand.

TECHNOLOGY OVERVIEW

- ALGORITHMS TO BE LEVERAGED:
 - LONG-TERM PLANNING, ANALYSIS AND OPTIMIZATION (A DECADE AT A TIME)
 - LINEAR RELATIONSHIP BETWEEN COST OF DECARBONIZATION AND REDUCTION OF CARBON EMISSION
 - SELECTION OF OPTIMIZED DECARBONIZATION THRESHOLD USING A CUSTOM-DESIGNED DECARBONIZATION SCALE

INNOVATIVE OPTIMIZATION ALGORITHM

• For (N=1; N <= 10; N++): ■ Car Cost Per Year for Available Cars = Car Purchase Cost + Insurance Cost + **Maintenance Cost** ■ Car_Operation_Cost_Demand_Per_Year_for_Available Cars = Distance Demand Per Year * Fuel Consumption * Cost Per Unit Fuel ■ Car CO2 Emission Per Year for Available Cars = **Distance Demand Per Year*** CO2_Emissions_Per_Unit_Fuel *

INNOVATIVE OPTIMIZATION ALGORITHM

- Lowest_Car_Cost_Per_Year = Min(Car_Cost_Per_Year_for_Available_Cars + Car_Operation_Cost_Per_Year_for_Available_Cars)
- Highest_Car_cost_Per_Year = Max(Car_Cost_Per_Year_for_Available_Cars + Car_Operation_Cost_Demand_Per_Year_for_Available_ Cars)
- Highest_Emission_Reduction_Per_Year = Min(Car_CO2_Emission_Per_Year_for_Available_Cars)
- Lowest_Emission_Reduction_Per_Year = Max(Car_CO2_Emission_Per_Year_for_Available_Cars)

INNOVATIVE OPTIMIZATION ALGORITHM

- Lowest_DeCarbonization = Lowest_Emission_Reduction_Per_Year (0%)
- Highest_DeCarbonization = Highest_Emission_Reduction_Per_Year (100%)
- Fleet_Owner_DeCarbonization_Scale_Selection = x
- Fleet_Owner_Car_Cost_Per_Year = (x/100) * Highest_Car_Cost_Per_Year
- Fleet_Owner_Emission_Reduction_Per_Year = (x/100) * Highest_DeCarbonization

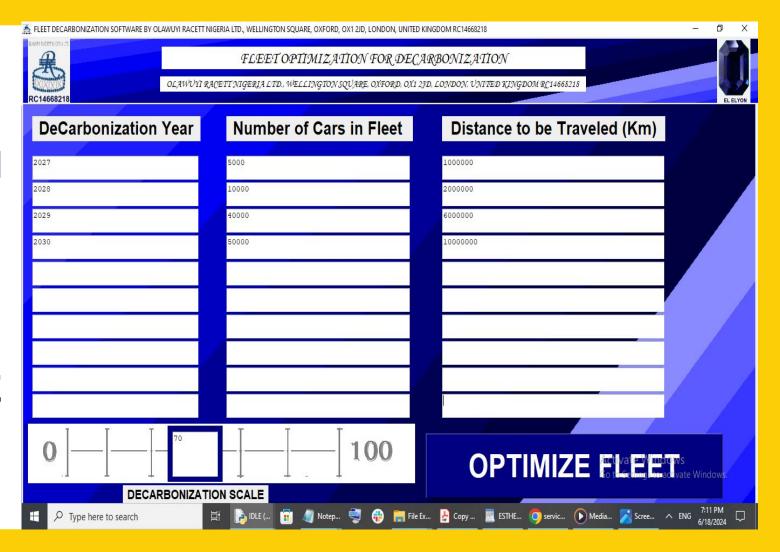
FACTORS TO CONSIDER FOR SOLUTION

1. FLEET DATA FROM REPUTABLE SOURCES, INCLUDING THE FOLLOWING:

A. COMPREHENSIVE LIST OF THE TYPES AND SIZES OF VEHICLES IN FLEET
B. THE FUEL CONSUMPTION PER KM TRAVELLED FOR EACH VEHICLE
C. THE UNIT COST OF ALL DIFFERENT TYPES OF FUEL AVAILABLE
D. THE CO₂ EMISSION DATA FOR EACH TYPE OF FUEL AVAILABLE

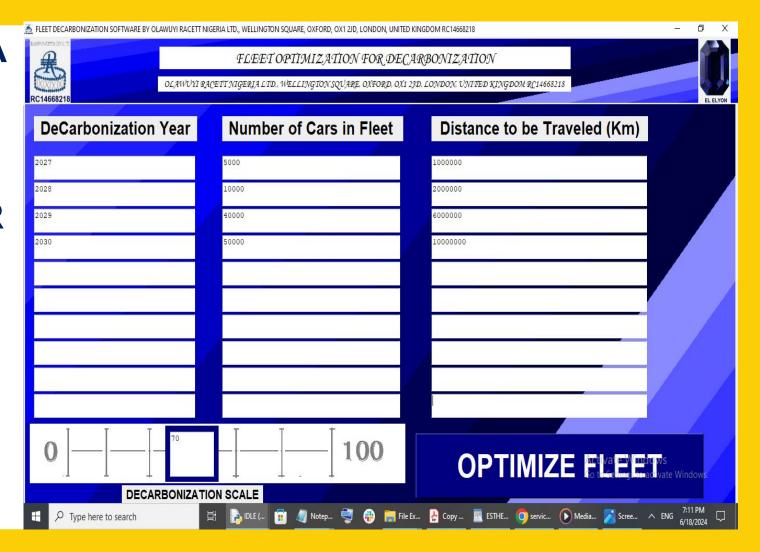
VISUALIZATION OF DASHBOARD

 FRONT PAGE OF THE **DECARBONIZATION SOFTWARE BY OLAWUYI RACETT NIGERIA LTD OX1 2JD IS ALREADY DISPLAYED ON THE FRONT SCREEN HERE**



VISUALIZATION OF DASHBOARD

 WE INTEND TO HAVE A **DISPLAY OF THE RESULTS OF A FLEET DECARBONIZATION ANALYSIS READY FOR** SHELL HACKATHON **2024 USING THE DECARBONIZATION SOFTWARE FOR THE SHORTLISTED CANDIDATE SECTION** OR STAGE.



NOVELTY

- DECARBONIZATION IS NOT NECESSARILY ASSOCIATED WITH REVENUE GENERATION. IN FACT, IT TENDS TO BE THE OPPOSITE IN THE SHORT RUN, AND SO PRODUCTS PRODUCED FOR DECARBONIZATION TEND TO NOT GENERATE INCOME OR REVENUE IN THE SHORT RUN.
- WHILE DECARBONIZATION PRODUCTS MAY HAVE A LOT OF MERIT IN TERMS OF TECHNICAL VALUE, THEY RARELY GENERATE PROFIT.

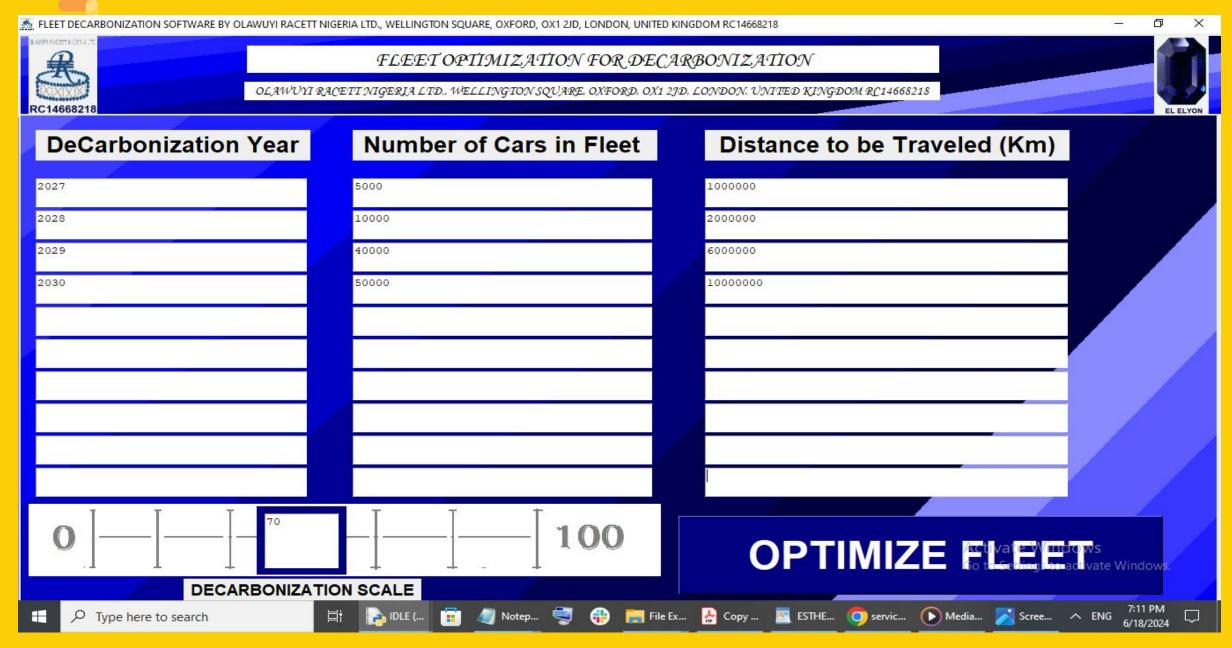
BY PROVIDING A DECARBONIZATION
 SOFTWARE THAT IS CHEAP AND READILY
 AVAILABLE, IT WOULD INSPIRE OPERATIONAL
 FLEETS TO GO THE EXTRA MILE AND SPEND A
 LITTLE MORE IN OPERATIONAL COSTS IN
 ORDER TO ACHIEVE AN INCREASE IN CARBON
 EMISSION REDUCTIONS.

- WE DO NOT YET HAVE A PATENT FOR THE DECARBONIZATION SOFTWARE.
- BUT AS WE FULLY DEVELOP IT IN COLLABORATION WITH SHELL, WE EXPECT AND HOPE THAT SHELL WOULD ASSIST US IN SECURING THE RIGHT PATENT FOR IT AS WE WORK WITH THEM.

COMPETITORS AND MARKET SIZE

- CURRENT/FUTURE COMPETITORS NONE
- TOTAL ADDRESSABLE MARKET (TAM),
 SERVICEABLE ADDRESSABLE MARKET (SAM),
 & SERVICEABLE OBTAINABLE MARKET (SOM):
 - GROUND FLEET TRANSPORTERS. THIS INCLUDES CAR RENTAL AGENCIES, TAXI FLEETS, OIL AND GAS TANKERS TRANSPORTATION FLEETS, AND FLEETS OF METRO BUSES.

• EVERY OWNER OF A FLEET ON THE GROUND HAS NEED OF THE DECARBONIZATION SOFTWARE TO HELP THEM PLAN FOR THE DECARBONIZATION ROUTE BEST FEASIBLE FOR HIS OR HER OWN COMPANY FLEET, AND TO ENCOURAGE THEM TO EXECUTE CARBON EMISSION REDUCTION ON THE GROUND.



DECARBONIZATION SOFTWARE

 OUR SOFTWARE ENABLES LONG-TERM PLANNING FOR DECARBONIZATION SCHEDULES BY OPERATIONAL FLEETS AND TRANSCENDS TO LONG-TERM COMMITMENT TO DECARBONIZATION AND MEETING NET-ZERO EMISSIONS OPTIMALLY IN THE LEAST AMOUNT OF TIME.

FOUNDERS AND C.E.O.s



EL

MICHAEL OLAWUYI

M.P.H., University of Aberdeen M.B.B.S., igbinedion University, Okada



ESTHER OLAWUYI

D.Sc. George Washington University (GWU)., M.S.E.E. and B.S.E.E., Howard University

- Automating and Optimizing Volume Measurements of Oil and Gas Products (Crude Oil, Diesel, Kerosene, and Petroleum).
- Determining the Quality of Oil and Gas Products at Point of Sale (POS) Terminals.
- Automated Tracking of Petroleum Products During Ground Transportation in Tankers.
- Pattern Recognition in Sub-Surface Pressure to Identify and Predict If a Producing or Injection Well is Flowing or Shut in, in order to Optimize Well Design, Production Rates, and Maximize Fluid Recovery from Each Well.



COMPANY DIRECTORS



DR. MATTHEW OLAWUYI ENG. FRANCIS OLAWUYI ENG. JOSHUA OLAWUYI DR. SUNDAY OLAWUYI ENG. ENOCH EJOFODOMI ENG. EFEJERA EJOFODOMI DR. GODSWILL OFUALAGBA DR. DIDI OMIYI

DR. JASON M. ZARA DR. VESNA ZDERIC DR. MOHAMED CHOUIKHA ENG. TOJAKE EJOFODOMI ENG. SYLVESTR EJOFODOMI DR. C.J. KIM DR. ANDERSON ENG. ESOSA EHANIRE



INDUSTRIAL DIRECTORS



DR. MATTHEW OLAWUYI ENG. JOSHUA OLAWUYI DR. SUNDAY OLAWUYI ENG. ENOCH EJOFODOMI ENG. EFEJERA EJOFODOMI MS. OCHAMUKE EJOFODOMI DR. GODSWILL OFUALAGBA ENG. MATTHEW AGHOLOR MRS. LOVETTA AGHOLOR DR. JASON M. ZARA

DR. MOHAMED CHOUIKHA DR. LUCKY EJOFODOMI ENG. TOJAKE EJOFODOMI ENG. OMAFUME EJOFODOMI ENG. SYLVESTR EJOFODOMI MR. JACKSON UKWAIDE ENG. ONOME OMIYI ENG. DIDI OMIYI MS. KOME ODU DR. ANDERSON ENG. ESOSA EHANIRE



INVESTMENT OFFICERS



ENG. FRANCIS OLAWUYI
ENG. JOSEPH OLAWUYI
DR. SUNDAY OLAWUYI
DR. GODSWILL OFUALAGBA
ENG. MATTHEW AGHOLOR
MRS. LOVETTA AGHOLOR
DR. JASON M. ZARA
DR. MURRAY LOEW

DR. GARY HARRIS ENG. OMAFUME EJOFODOMI MS. RUKEME EJOFODOMI MRS. JADESOLA EJOFODOMI MR. JACKSON UKWAIDE MR. AKIN EJOFODOMI ENG. ONOME OMIYI MS. AJAIRE ODU



ACCOUNT OFFICERS



MS. RUKEME EJOFODOMI

MR. JACKSON UKWAIDE MS. ISI OMIYI



MARKETING EXECUTIVES



ENG. JOSEPH OLAWUYI

OLAWUYI RACETT NIGERIA LTD. OX1 2JD, LONDON, UK RC14668218



- OLAWUYI RACETT NIGERIA LTD. WELLINGTON SQUARE, OXFORD, OX1 2JD, LONDON, UNITED KINGDOM RC16668218 was formed on February 16, 2024 and is registered in United Kingdom
- We operate out of United Kingdom, but we are also active in United States Canada
- Strong Collaboration with Shell through Shell Onward (https://thinkonward.com/)
- Permanent Collaboration with the Oil and Gas Climate Initiative (OGCI) in UK and USA (https://www.ogci.com)
- Life Members with the Institute of Electrical and Electronics Engineers (IEEE) in USA (https://www.ieee.org).



