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Eco Streets

Pre-feasibility Study

Stay eco

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Purpouse

Purpose of the document

Team of undergraduate engineers in various specializations II start their own company that service the community and have a good investment at it. The company will include import Electric cars from all over the world according to market requirements and start to build their own electric cars charging stations. The team will work tirelessly throughout the following weeks to produce a pre-feasibility study for this company*.*

The company purpose to serve the community and be positive as we care about the environment.

The following technical document discusses the pre-feasibility study for starting the company and the purpose of starting it.

Brief description of the project

Electric cars are becoming more mainstream, and people wondering whether an electric car is right for us. As the technology supporting electric cars and batteries continue to improve, drawbacks such as high cost, limited range, performance issues, long charge time, and a dearth of charging stations are fading away.

Electric cars cost less compared to conventional gas vehicles each year. As the cost of electric cars becomes the same as or less than existing vehicles the choice to ‘go electric’ will be obvious.

Charging stations we have will serve our purpose to ‘go electric’ but it isn’t enough as we still we get the electricity from the fossil fuel so we want to have charging stations with solar panels so we can ‘go eco’ and have ‘Eco-Streets’.

We are In the future as If you drive an electric car you’re obviously planning for the future. In addition to being counted among the ranks of the “coolest people around”, you’ll be making a difference for the environment, and saving money.

We will have less maintenance with fewer moving parts, there are not many things to break or that need fixing on an electric car. This will save you a lot of time and money over the years. Your mechanic might get a little lonely, but we will have our maintenance to serve you for any problem occurs or any upgrade you will need. The biggest issue may be having to change out your battery, but most models today come with an 8-year/100K mile warranty. Batteries can last up to 15 years in a mild climate, that’s pretty good value.

Executive summary

In brief, we want to change the concept of the automotive industry to ‘Go Electric’ by importing electric cars with all it’s gadget and start our maintenance centers to serve them. Having our electric charge station to serve those cars and use solar panels on those station to ‘Go Eco’ as our main purpose is to have ‘Eco Streets’ and electric vehicles will be our start.

SWOT analysis (Strengths, Weaknesses, Opportunities, Threats)

Our strengths that we leading a new technology in Egypt and having a full service for it.

And we start to think in our environment so that will help us in future.

Having support from Egyptian government as it supports the solar panels projects.

Our weaknesses is to deal with a market doesn’t have a good knowledge about the electrical vehicles system.

Our vehicles have smaller range than the cars that use internal combustion engines.

Some restrictions from the Egyptian government on importing some kind of electric machines as bruss-less dc motors and it’s controllers.

Opportunities as we having a new market we will have the best opportunity to increase our business faster.

Threats This company will be a threat for the big and old companies as if the not develop their self they will lose their market so our success means their failure and that’s can’t happen easily.

And some threats about the electric vehicles range.

Methodology

After agree on our Pre-study we will start in our

Legal study : where we study legal position concerning investment and employment, insurance, taxes etc.

As we will have

•Investment laws analytical study.

•Choosing the legal frame work of the project nature .

•Is it legally right to purchase the technology.

•The nature of taxes.

•The total cost of legal investment registration.

Marketing feasibility study :

•Study of the factors determinants of demand and supply.

•Examine the main structure and characteristics of the market.

•Market share estimate for your project.

•The market prices for the products (goods or services).

•The estimation of total revenue for the project.

Technical feasibility study:

•Are enough raw materials available of the correct quality when needed for full year-round production?

•Is the cost of the raw materials satisfactory?

•Can it be made by local workshops and are maintenanceand repair costs affordable?

•What is the best design for the project layout?

Financial feasibility study:

•Projects how much start-up capital is needed to cover all costs estimated previously in the technical study, sources of capital, returns on investment (ROI), etc.

•Determines the appropriate financial structureon the bases of the available financial sources.

•The financial structure cost estimate.

Economical and commercial feasibility: Estimates expected costs and revenues during the life span of the project.

The economic study will focus on several indicators such as

•Depreciation.

•Return on capital.

•Pay back period.

•Net present value(NPV).

•Cost /Benefit Analyses Profit index or.

•Internal Rate of Return (IRR).

•Rate of Return/cost .

•Net Return/ Cost.

Social and national feasibility study (SNF)

•Measures the project contribution to the society and in the national economy.

•Criteria for social profitability:

•Project contribution in job creation.

•The enterprise's contribution balance of payments.

•The enterprise's contribution to value added (GDP).

•Project contribution in strengthening national currency.

•The negative effects of the project on the

Organizational feasibility Study

•Defines the corporate structure of the business

As the founder are engineers in various specializations so we will be capable of starting the company and start hiring some employees.

Study team

Pre-study Headed by: Ibrahim Mostafa  
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Market entry timing

As we working on our planned time line. We will be able to enter the market by 2023

<https://www.fleetcarma.com/why-electric-cars-are-better-than-gas-top/>