



Vapor Produces Electricity!

Business Plan

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# Executive Summary

## The Project idea

We use photovoltaic cell to heat the water by the sun heat, will vaporise water in an aluminum container above the ground, and this container will be closed but it has two tubes from its side and each tube has two branches. These tubes will be closed. We will open the tubes after the container become filled with vapor. So, it will flow through the tubes.

In order to heat the first container and vaporise the water, the project will be setted in the Moroccan Sahara Desert (which has temperature 70°-80°), then we just need limited heat for the water using the photovoltaic cell to make the water reach temperature higher than 100c to vaporise.

The four branches will take the flow of water vapor from the container which is above the ground to a container under the ground.

The second container will be under the ground to be isolated from the heat above the ground. It will take the flow of the vapor to turn four turbines which will be made of recycled metals and placed in the container.

After the vapor rotate the turbines and produce electricity it will flow to third container under the ground which will be cooled.

So, the water vapor will be condensed, and we can take the condensed water, and we can pump it using water pump to the ground again and put it in the first container, then produce electricity again as a cycle.

## Targeted Group

The target audience for our project is people who are in desperately in need to electricity.

Currently, 770 million people, mostly in Africa and Asia, lack access to electricity. The Covid-19 crisis put an end to several years of steady progress and aggravated poor countries' already low energy purchasing power.

The project offers stable and sustainable source for electricity which can help in solving the issue of electricity in the world.

## Company Description

### Mission Statement

Our mission is to provide all people who are in need to electricity with a stable, sustainable, and eco-friendly source of electricity in order to ensure their good life, while giving the opportunity to the partners to invest in these projects to help our community instead of paying taxes (This will be in agreement with the government).

# Market Research

## Industry

Vapor Produces Electricity will be based on the recycling industry. Currently, most of the materials that we need in our project can be provided as recycled materials (like the turbines, containers or tubes). The smallest companies sell locally either in shops, at craft fairs, or online. The recycled materials industry has been growing exponentially in the last years and is expected to develop and continue expanding in the next years, especially in North America, Europe and Asia.

## Company Advantages

Vapor Produces Electricity project has the following advantages compared to competitors:

- Both basic and individualistic designs, which can be easily built anywhere with basic and available materials.
- Easy-to-assemble parts Safe, and cheap, efficient, and eco-friendly materials.
- Step-by-step guide which supports the governments on their journey to getting their free and efficient, and clean sources to get electricity.

# Service Line

## Pricing Structure

Our plan is to use recycled materials to protect our environment and produce clean energy, after long research we have allocated about 6500\$ to construct one unit of our project:

- The first container (Medium one) 1200\$
- second container (Large one) 2600\$
- Aluminum Water tank 540\$
- Photovoltaic cell 500\$
- 4.5kWt battery 1240\$
- Plastic Pipes 270\$
- The four Turbines 64\$
- 50 meters wires 16\$

Total 6430\$, and each unit can provide more than four homes with electricity 24/7.

## Intellectual Property Rights

All designs of "Vapor Produces Electricity" Project , logos and texts in our papers are belonging to "Vapor Produces Electricity" only. (Note that you can reach to apply the project in your area). The right to apply the project will be given for free to people who are in desperately in need to electricity and the governments of the poor countries.

## Research and Development

"Vapor Produces Electricity" team is planning to conduct the following research and development:

- Include a feedback mechanism on the website for ideas, suggestions, and improvements
- Partnerships with research institutes to improve the quality and effectivity of the project to produce more electricity and help more people.