

Feasibility Study on Factory for production of generators, stations and aircraft units working on renewable energy

I.M.S.K Company for engineering research and renewable energy technology& development.

A Study of the feasibility of producing generators and renewable energy stations.

1. A brief description of the project :

The project of producing generators and renewable energy stations through the manufacture of energy producing innovation and the use of the mechanical system to generate high pressure self- feeding working on the principle of disruptive of the pressure.

2. Sponsorship, administration and technical assistance:

Sponsorship:

Investor& financier.....

For the stage

Administration: higher supervision of the innovator with a group of engineers.

Technical assistance: a group of technicians.

Histories and activities of the sponsorships, includes the financial information:

History:.....

Activity:.....

Sponsors of the project:.....,

Includes the financial information:.....

Arrangements of the proposed administrators and names of the managers, their personal and careers resume.

Technical administration:

Production administration:

Marketing administration:

Planning administration:

Financial administration:

The legal affairs administration:

Storage administration:

Relations administration:

Department of human resources:

Names of directors and their personal and career resume

- 1-
- 2-
- 3-

Description of technical arrangements and other external assistance (management, production, marketing, finance, etc.):

Manufacturers of production lines,
Global marketing companies,
Advertising companies,
Public and private sources.

3. Market and sales:

Local markets, regional and global markets, non-oil countries, industrial countries and population density countries.

Sales: renewable energy generators and plants.

Market orientation: Basically on local, national, regional and export. According to their needs for energy and their population and industrial capacity.

- Expected output quantities, units price, sales purposes, and suggested project share from the market:
 - Expected output quantity: depending on the financial capacity available, the type of the product, its size, and the size of its production lines and its capacity to adapt.
 - Unit prices: according to the power generation capacity with KE starting with 1000\$ per unit KW1 to 1000000\$ per unit 1 mega KW1000
 - Production warranty: from 2 to 5 years and according to its added guarantee value and equal to 25 % total value of the product.
 - Sales purposes: Saving energy at the highest human, industrial, humanitarian and economic levels.
 - Suggested project share from the market: gradually starting from 5% during the first 3 years to 25% according to contracts, branches and agencies to 25% during the first ten years.
- Potential users of products and distribution outlets to be used: all categories: social, economic and industrial and all ports with their sections.
- Current sources of supplies required for products: all markets (local, regional and global markets).

- Competition in the future and the potential to meet the needs of the market with alternative products: According to the simple resources and the abolition of conventional fossil fuels of all kinds and low cost production of energy to reach 0.01 cent and a large percentage compared with the equivalent of fossil fuel and energy-polluted emissions, or alternatively working with clean energy which is very expensive and which rely on wide surfaces and depending on energy resources that can be dissipated. Our project will not have a competitor.
- Customs duty or restrictions on imports that insist on products: the materials included in the production are of the most common materials and traditional common in the local use. Traditional materials of industrial material with the simulation and encouragement of the global: aluminum and industrial iron. Non-traditional materials: fiberglass and carbon fiber. All these materials are far from customs restrictions, especially those of domestic manufacture.
- Critical factors that determine the potential of the market:
The demand for alternative energy resources, the increasing need for energy due to the expansion of population and industrial capacity, the emergence of environmental problems related to food, health, climate and the global economy such as: the phenomenon of global warming, drought, famine, poverty and diseases. All these are critical issues that have dramatic effects on the market and production.

4. Technical feasibility:

It is one of the promising and distinguished projects.

- Manpower: it is classified as large project for the manpower working in the center and branches and industrial and commercial agencies. The number of workers in the projects around the world is estimated to more than 100,000 workers.

-Material resources: had been mentioned previously; local, regional and global.

- Environment: The project is one of the projects friendly to the environment and projects dealing with the problems of climate, food and health because it is classified as a project treating polluted emissions and the phenomenon of global warming.

- Brief description of manufacturing process:

Raw materials are imported to the factory, the innovation is then manufactured by the production lines prepared for this according to the industrial production tables prepared in advance. Like generators according to demand, customized stations and pre- packaged marketing programs according to markets and their needs and capacity.

- Comments on special technical complexities and the need for expertise and special skills:

Special technical complications are considered to be minimal in the industrial field. The need for experience and special skills in the project does not exceed the minimum of them and the rank of technical ranges between acceptable and good due to simplicity of design and ease of implementation. The presence of CNC equipment, low socialization rate, high performance and low processing rate of materials in manufacturing.

- Potentials equipment suppliers: regular and traditional suppliers locally, regionally and globally.
- Availability of manpower and infrastructure facilities (transportation, communication, electricity, water etc.)
 - Availability of manpower: in the excellent level to provide the required competencies with large surplus and includes the unemployment cycle.

Infrastructure:

Transportation: excellent level

Communication: excellent level water and electricity: between excellent and very good

Nutrition: excellent level

Housing: between good and very good

Health care: excellent level

Wages: the maximum wages approved by the constitution and decided by international organizations with annual packages of incentives derived from annual profits.

- Distribution of expected operating costs according to major expenditure categories:
 - Customs costs, tax charges and licensing, and evaluation of the intellectual rights of innovation
 - Transportation and shipping costs of raw materials:
 - Raw materials costs.
 - Labor costs.
 - Services costs (water, electricity, health care, housing and nutrition).
 - Advertising, marketing, public relations costs.
 - Fuel and maintenance costs.
- Sources, costs and quality of raw materials supply and relations to auxiliary industries:

Sources divided into two categories: first the local and regional sources around 80 % from all the production. Secondly, international sources for specific materials around 20%.

- Relations with the supporting industries: Normal with rate ranged between 5-15 %
- Import restrictions on raw materials required:
Lack of restrictions for the following reasons:
 - Manufacturing materials are natural industrial uses commonly worldwide.
 - It is considered to be clean substance free of contaminants and emissions.
 - The method of manufacturing is one of the cleanest methods free of gaseous, liquid and solid contaminants.
 - With minimum residues and rates close to 0.01 of the similar residues with industrial waste recycling program.
- Proposed location of factories for suppliers, markets ,infrastructure and manpower:
All areas of the world and preferred areas that are unsuitable for human use such as agricultural, residential or animal uses because of the lack of competition provisions of areas suitable for human uses such as: deserts, stone and arid lands. Preferably; in developing countries such as; Asian countries, African countries, Latin America. To support the development, and start- up location of turkey.
- The proposed size of factories compared to other known factories: medium size.
- Potential environmental issues and how to address those issues: the project is free of any environmental problems with rate of 100%, and it is considered to be environment friendly project. The project addresses the problems of food, surface and groundwater, health and climate and global warming phenomenon.

5. Investment requirements, project financing and returns:

- Estimates of total project costs are divided into: lands, buildings, installations, production lines, supporting equipment and working capital with a statement of the foreign exchange component:
- The total amount of the project is divided by:
 - Land
 - Buildings
 - Production lines and supporting equipment
 - Mechanism, cars and trucks.
 - Operating capital for the first two years

Without the cost of innovation and its expenditure from 1990 to 2018 and the expenses of registration of innovation and protection of intellectual rights since 2010 to 2018 with full time follow up and residence.

- Proposed financial structure of the project, indicating the sources and conditions expected to finance with shares and debts:
- Type of funding required from the public and private banking finance corporation (loans, contribution to capital shares, a combination of financial instruments, etc.) and the amount required:

Finance, contribution and the amount required to finance the commercial sample (American) and to finance the factory. Expected financial statements, information profitability: the project can be costed within two years at its minimum capacity, and within one year at its maximum capacity according to the suggested production lines.

The output and profits are proportional to the size of the production line and the financing. Project profits vary depending on the product:

Generators from 100% to 500%

Stations: from 500% to 1000%

- Critical factors that determine profitability:
 - providing efficient and advanced production lines.
 - securing the hands of skilled workers.
 - Precision application schedules and output programs
 - provide appropriate expertise and competencies for work
 - Quality marketing
 - High quality of the product
 - Competitive prices

6. Support and government regulations:

Project under the government development and investment program

- Specific government incentives and support available for the project:
 - Land for construction of the project
 - Incentives packages to support the project from: grants, loans, tax and custom exemptions, marketing
- Expected project contribution to economic development: it is one of the most prominent human and economic development projects
 - Employment insurance
 - Fighting unemployment, Contribute through the purchase of shares from the public
 - Raise the income through returns to their homelands.

Summary of government regulations on cash controls and conditions for the entry of capital and: in accordance with the applicable legal regulations.

Projects timetable for completion of the project: 6 months of studies and preparation of project files up to the starting point to the establishment of the factory.

- Technical specifications for the production of alternative renewable energy:
 - Eliminating the principle of conventional fuels, gasoline, diesel, coal, gas and so on
 - The project is classified in renewable energy projects
 - Environment friendly project
 - Classified in thermal treatment project
 - Designing more than 70% from innovation materials

- Low cost if materials used in energy production to 0%
- Easy maintenance, storage, and product transfer program
- Provides 30% of materials for manufacturing innovation in the local market
- Following the sequencing system can manufacture generators and electric stations
- The possibility of operating the innovation in different climatic and environmental conditions.
- The possibility of building innovation on fixed or mobile platforms
- Reduces sound, heat and emissions to very low rates around 0%.
- The possibility of building innovation of different sizes (small, medium and large)

It enters the field of energy production to supply:

Cars, airplanes, bicycles, boats and mobile homes operated on electric power for free, and this vehicles are capable to:

- 1- Self powered without the need to stop to get energy for several hours
- 2- There is no need to limit the distance of kilometers by the quantity and time of shipment
And allows these machines:
- 3- Without the need for stations to supply these machines with the energy need to work
- 4- It can be converted into generator to produce power at a large level to feed general power grids
- 5- Can be sufficient as a generator of free energy for electric motors and dispense with fossil fuel engines such as diesel and gasoline

Technical specifications for innovation:

- Very lite
- Multi sizes
- Easy maintenance, installation and transportation
- Can be added to the machine or make it a genuine part

The company works in the following specialties:

- Establishing and developing scientific research in mechanical, electrical, electronic and aerodynamics engineering departments
- Creation and development of innovations
- Space research and satellite platforms
- Renewable energy research
- Binary research and programs of flying objects

Also, the company has 12 innovations in the following fields:

- Renewable energy technology.
- Military technology.
- Technology of flying objects.

- Environmental and climate researches, as well as solving the pollution and global warming.

The company is engaged in manufacturing:

- Renewable power generators and their stations to produce electrical energy with eliminating the use of conventional fuels such as: gasoline, diesel, gas, coal and steam, with different sizes and various uses and on demands. Whether domestic or for flying objects.

In addition; we work on producing:

- Rochets and torpedoes.
- Cars
- Aircrafts.
- Helicopters
- Jet engines.
- Heavy motorcycles.
- Bicycles
- Boats.

Which works on renewable energy and eliminating the use of conventional fuels.

Innovations owned by the company and registered in the institute of Patenting Turkish Innovation. Also it got the report from the international research issued by Moscow/ Russia, for both innovations.

- 1- Mechanical engineering 02789/2011
- 2- Renewable energy technology 02788/2011

Renewable energy generators operate on several new principles; includes:

- 1- Disruptive the pressure and self-sufficiency system:
This system does not resemble as old renewable energy systems, such as solar power (that work if the sun is present will produce energy, while if there is no sun, there is no energy). This generator works for 90 seconds on an external source and then produces a self-sufficiency energy that does not need an external element.
- 2- Fluid movement system.
- 3- Wind movement.
- 4- The lack of gravity and it could be used in a space.
- 5- Movement of flying objects.

Therefore; the Millions of tons of visible horsepower can be used in nature.

The company has a technical program

Program name:

Program for conservation and development of climate, water and food using the innovation of IMSK2 for the production of renewable energy.

- **Target:**

Preserving and developing climate, water and food.

- **Purpose:**

- 1- Production of electrical renewable energy with low cost.
- 2- The elimination of conventional fuel.
- 3- Cancellation of gaseous emissions as well as gaseous and solid pollutants.
- 4- Operation of all flying objects with renewable free energy; like: aircraft, and vehicles and ships.
- 5- Environmentally friendly and solve the phenomenon and global warming.

- **Method:**

Innovate I.M.S.K2 for the production of multi-purpose renewable energy.

- **Mechanisms of innovation:**

Multi-instrumental and divided by use into:

- 1- Gases
- 2- Fluids

- **Power used to run innovation:**

Natural energy, includes a millions of wasted horsepower not been used from nature.

- **Size of innovation: Multiple sizes**

- 1- Great
- 2- Medium
- 3- Micro

- **Manufacturing, assembly and maintenance:**

Easy and low in cost

- **Innovation manufacturing materials:**

Local and available in low cost.

- **Production type:**

The production of free clean energy in low cost.

- **Environments in which innovation can work:**

(All environments) such as:

- 1- Desert environment
- 2- The tropical environment
- 3- Cold environment

- **Weather and climate:**

All kinds of rituals and climates.

- 1- Cold and frozen; under 0°
- 2- Warm to above 100°
- 3- Dry
- 4- Wet and rain.

- **Height:**

All degrees of height

- 1- Above sea level to the limit of the atmosphere
- 2- Under the surface of the sea

- **Areas and terrain**

All terrain types:

- 1- Mountain and rugged areas
- 2- Coastal areas

- **Demographics:**

- 1- Cities
- 2- The countryside

- **Type of spaces used in the program:**

- 1- Wild areas, through
 - a- Building energy-producing skyscrapers.

- b- Exploitation of railway networks for energy production.
- 2- Marine areas and waterbodies such as lakes, marshlands and rivers.
- c- Building water networks and fields for energy production.
- d- Exploitation of dams to produce energy.

- **Uses:**

Various uses to power:

- 1- Aircraft
- 2- Cars
- 3- Ships and boats
- 4- Bicycles
- 5- Generators and stations

- **Conclusion:**

It helps to solve many problems like:

- 1- Poverty
- 2- Disease
- 3- Unemployment

And to provide:

- 1- Free energy
- 2- Protection of climate, water and food.

In addition; the company owns production programs, such as:

- 1- Two-engine jet engines with renewable energy.
- 2- Car powered by renewable energy
- 3- Boat powered by renewable energy
- 4- Aircraft powered by renewable energy
- 5- Bicycle powered renewable
- 6- Electrical generators powered by renewable energy.

Future projects of the company

- (Railways network producing renewable energy)

The company works on the project of rail networks producing renewable energy, and converted into huge networks for the distribution of energy and called (areas of light).

- Also, the project called (towers stars)

It is a project of skyscrapers producing renewable energy, called the Star Towers.

- **The company owns a special study of the company's products.**
 - Generators
 - Stations for renewable energy

The study includes the following:

- 1- Selling prices.
- 2- The total saving economic value.
- 3- Determine the outlines. For the differences between generators powered by fuel or working on conventional clean energy and our products from renewable power generators.

- **The differences are summarized as the following:**

- 1- Prices.
- 2- Emissions and pollution
- 3- Total value of fuel saving
- 4- Total maintenance value.
- 5- Total value of replacement spare parts and schedules for maintenance and replacement.
- 6- The time period for product guarantee starts from 2-5 years.

- The company has several production systems renewable energy that is not globally traded and that carries the certificates for innovation patent and according to the types of energy used.

- 1- Wind power.
- 2- Disruptive energy.
- 3- Magnetic energy according to a new system in the production of renewable energy, which is called "electromechanical system".
- 4- Fluid energy

And the value of electric power by KVA on demand and at a maximum of power produced to one million megawatts.

Production plant for generators and renewable power plants

• Proposed departmental arrangements:

- Public Administration.

- The Technical Department:
 - Production Management
 - Planning Department
 - Marketing Management
 - Storage management
 - Management of the relationships
 - The legal administration
 - Financial management
 - Department of Human Resources.

Investment requirements, project financing, and returns:

Estimates of total project costs, divided into: land, buildings and facilities production lines, working capital (operating). With a statement of the foreign exchange component.

The total amount of the project is 25,325,000 US dollars divided into:

A: Manufacturer:

1. Land: 6.5 million US dollars.
2. Buildings and facilities: 4.5 million US dollars.
3. Production lines, supporting equipment and equipment: 3.3 million US dollars.
4. Machinery, cars, trucks and machinery: 3.5 million US dollars.
5. Operating capital for the first two years: 5 million US dollars.

B: Innovation Preparation:

1. The cost of the preparation and expenditure of innovation from 1990 to 2010 450000 US dollars.
2. The cost of registration and protection of innovation from 2010 to 2018 with full-time, follow-up, accommodation and maintenance \$ 125,000.
3. The cost of manufacturing the sample with the expenses of shipping, assembly and operation 950 000 USD.

Expected timetable for project preparation and completion:

(Six months) studies and preparation of project files up to the starting point of the establishment of the plant and its facilities.

Of (12_18) months to complete and complete the project, and start the production process.

Structure of the factory, its areas, production lines, divisions and cost:

Project requirements, cost and manufacturing capabilities

Project areas

Type of Area	Area in M ²
Management Area	2000
Factory area	8500
Warehouses and warehouses area	3500
Garage area of transport	2500
Garage area loading	2500
The restaurant space and services are	1500
Other facilities	

Construction of the project

- Building departments.
- Building the factory.
- Building warehouses and warehouses.
- Construction of transport garages.
- Building the restaurant, services and other facilities.
- Hangars and runways
- Air hypocrisy.

Total cost of the project

- _ Cost of land
- _ Cost of construction
- _ Factory cost and production lines
- _ Cost of raw materials
- _ Cost of operating capital (wages and expenses)

Capacity of the manufacturing project

Produce:

- Generators and Stations. Electrical energy.
- Aircraft
- Boats
- Cars
- Bicycles
- Two-ignition projects.

- Working on renewable energy.

Project profit Estimated profit per cent

Production of generators 100% _ 500%

Production stations 500% _ 1000%

The total profitability is estimated for the first two years around 10.000.000 dollars
If the production programs are prepared, the cost of the production plant and production lines is estimated at \$ 3.300.000

Plant parts, facilities, facilities and cost

The section name	Total No.	approximate cost in dollar
Department of turning and equipment		750,000
CNC Lathe	2	
Multi-size lathe	4	
Supporting lathe equipment		
Department of milling and equipment		750,000
Freeze CNC	2	
Freeze multiple sizes	4	
Supporting lathe equipment		
Section of cutting and perforation equipment		750,000
Multi - Sided Laser Cutting Machine	1	
Equipment support for cutting and perforation		
Department of welding and equipment		250,000
Arcon welding device	2	
Oxygen device	2	
Welding apparatus for multi sizes	2	
Welding apparatus for pipes	1	
Welding apparatus (point)	3	
Heavy and Light Transport Section		150,000
Main Electric Roof Crane	1	
Truck mounted crane	1	
wheel forklift	3	
Multi-size manual hydraulic crane	2	
Internal transport vehicles between departments	as needed	
Standardization and Quality Control Department		50,000
Static and mobile light measurement equipment	2	

Measurement equipment CNC	2	
Supporting secondary standards	As needed.	
Assembly section and equipment		50,000
Maintenance department and equipment		50,000
Product Maintenance Equipment		
The pressure department and its equipment generate pressure unit		50,000
High Constant Compressor	3	
Compressor movable secondary	2	
Support and equipment department		
Maintenance team of machinery and equipment		
Warehouse and warehouse team		
Monitoring and Monitoring Team for Production		
Department of External Transport		
Cranes	as needed	
Trucks	as needed	
Cars	as needed	
Department of balancing aircraft objects (Kinetic balancing of objects).		
Air tunnel for aerodynamic tests Aerodynamic tests.	1	100,000
3.5 km runway to test aircraft samples and supporting equipment	1	1,000,000
Measurement equipment CNC	1	
Measurement equipment support equipment		
Chemical cleaning department and equipment		50,000
Basins		
hardware		
Painting department and equipment		50,000
Paint filters		
Thermal furnace		
Painting equipment		

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