



## ENERGINE FUTURE ENERGY

### - Background

#### Introduction

This is the energy making from wastes which make energy as gas, electricity and water from wastes. The energy making as a machine makes energy by receiving wastes that would be in domestic and industrial uses. The machine can make 2 to 3 cubic meters of gas, 2 kilowatts of electricity and 2.5 liters of water from every 10 kg non plastic wastes daily in domestic use.

The other product of machine is fertilizer which is rich and organic fertilizer to use in gardening, agriculture and horticulture to soil reinforcement.

The energy making machine from waste invented and patent NO.94350.

The energy making machine is invited to the Agritechnica Exhibition Germany 2019

By UNITED NATIONS INDUSTRIAL DEVELOPEMMENT ORGANIZATION .

#### Creativity & Innovation

The machine receives wastes and makes energy as gas, electricity and water in natural cycle. No need to any network. Also The machine is off-grid that means it makes energy in place and it would be use in the same place in domestic and industrial phases to prevent energy loss in the network.

In this method, energy would be produced by biochemical and chemical process by the machine in nature cycle that is in transferability to others. The produced fertilizer as organic and very rich fertilizer is saleable and is big source of financial incomes for family and government to agriculturing and.. ..

That would be suitable for the farmers and it makes us needless of chemical fertilizer for agriculturing as circular economy.

This renewable energy resource has a lot of benefits in making energy and making organic fertilizer. Making energy and energy consumption management and waste separation in order to waste management and disposal of waste leachate and prevent its penetration into the surface and underground water and seas, avoid to greenhouse gases emissions, prevent global warming to zero carbon, make green energy in direction to green economy and by its potential for development in the country and other countries are long step through sustainability and get safe and stable energy to save our planet.

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## ENERGINE FUTURE ENERGY

### - The project's goals

Reduce pollution and waste and waste management ,attention to the environment ,Sustainable Development in cities, villages and countries and lack of energy resources for future generations they are all challenges that this plan has overcome them Creating a clean environment and clean earth. Reducing greenhouse gas emissions, preventing global warming, and climate change by nature cycle are other goals of this project. From other aspects, creating high added value, using of circular economics, production of organic fertilizer for agriculturing, gardening to get fruits and products in high quality.

### Description and development

#### Energy Efficiency

Making energy by energy making machine and using wastes to make energy is in high rate of Energy Efficiency. Suppose you can cook your lunch by the produced energy by the domestic Machine as gas which is made by your wastes. There is no doubt using produced energy by waste is affordable because the thermal value of this gas is more than natural gas .The natural gas's thermal value is 20500 Kj/m<sup>3</sup> but produced gas's thermal value is 25000 Kj/m<sup>3</sup> .The other item is the produced gas would have almost one hour flame as gas stove flame per one kilogram of waste. So it makes high energy saving of fossil fuels in order to keep for posterity.

Also the produced fertilizer's price is more than 60 cent per kg to use for soil reinforcement through circular economy.

So energy consumption management, waste management and waste separation at home are steps towards green economy by making energy ,reduction greenhouse gases emissions and prevent global warming through sustainability and environmentally friendly.

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### **Increase of Renewable Energy share in energy source**

The biomass as resource of energy is great on the earth so by using this clean energy, use of fossil fuel would be restricted and gradually reduce dependence on non renewable energy sources occurs and waste would be used to make clean energy.

In domestic use, the produced energy as gas use to cooking, heating, ... , the produced electricity to lighting, the water for gardening and pots.

In industrial use the amount of produced energy in this method is much more higher depends on the waste which is inputted. In industrial phase that it is used in hotels, restaurants, hospitals, ... and conversion industrial factories, food processing plants, farms, agricultural fields and ...

#### - **Aims**

### Importance of using this energy

In fact, the energy crisis and the environmental pollution crisis are two important issues that annoy people and think about getting rid of waste and waste materials. This method has used one crisis to solve another crisis to provide a suitable environment for human life today.

This energy is clean energy and green and environmentally friendly which is in nature cycle and help to save our environment and our planet.

The needs for societies to conserve energy so as run out of fossil fuels, alternative fuels are very important which this product helps to solve the crises.

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## ENERGINE FUTURE ENERGY

### Impacts and benefits

#### Economical Impacts

Suppose you can make energy in your home by your waste and reduce your pay bills and costs of energy And improve quality of life.Using and export bussiness of the machine is another procedure to the currency .Also the produced energy can be exported in higher capacities to make currency to the country.of course, regardless of the impacts and effects of using this machine,nature and the environment's imporatance and it helps to save the earth for the future and posterity.Using this machine and method would save at least 40% family's costs and expenses in energy consumes in a month in domestic but in industrial up to inputed wastes and energy consuming in power plants or ... in any country up to energy cost is different. As all we know we have only one Earth so should save it by sustainability .Therefore this energy will be green and environmentally friendly and going to be the future energy and would be the most effective for using people and posterity.

#### Environmental Impacts

There is at least 45 percent of produced wastes in the world is non plastic wastes as unexpensive wastes, so this method and the machine as product has many important impactts which includes eliminating wastes, reducing environmental pollution ,making clean energy ,eliminating germs and pathogens,green technology , dealing with climate change, reduction of carbon footprint, along with nature cycle,make high added value, soil reinforcement,protection of forests and trees ,also preventing infiltration of waste leachate into groundwater ,rivers and.. reducing greenhouse gas emissions and preventing global warming , reducing dependancy on traditional energy resources and supporting sustainability are only some effects of using this method and the energy making machine .

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### Behavioral & social Impacts

People are always looking for new energy to use in the life, so using this kind of energy also help to reduce environmental pollution and will make use of waste as a new energy at their homes.using the machine change family's lifestyle and social's life style and help to wastes separation in origin.

Due to the world's growing trend of population , increasing needs of healthy food, needs of energy, this solution has a positive effect on people's quality of life throgh sustainability that led to new life style on the basis of waste management and energy consumption management.Also this make empowerment of disadvantaged community members by energy making and fertillizer.

Also manufacturing and production of this machine for domestic use and construction and setting up energy and power plant in higher capacities make employment and entrepreneurship in corporate social responsibility . These actions all led to improving human well-being and make the world a better place for living by increasing living standards.

### Health & Safety Impacts

Due to the world's growing trend of population , increasing needs of healthy food, needs of energy, this solution has a positive effect on people's quality of life throgh sustainability by energy making and fertillizer.The produced fertilizer is in direct effects on agricultural activities. making organic and rich fertilizer that is more healthier than chemical fertilizer to use for agriculturing to growing healthy food resources as foodstuffs,fruits,vegetables,...

Using wastes in anaerobic condition is safe and of course it destrcuted germs and pathogens which make illnesses and diseases to have healthier human beings.Reduction of carbon footprint, along with zero carbon strategy in order to make clean air to breathe in nature cycle and protection of forests and trees as Earth's breathing path instead of use trees as firewood and use the produced energy instead . Also prevent infiltration of waste leachate into groundwater and rivers and ... makes reduces pollutions emissions and water to have healthy water to use.The others is dealing with climatechange ,reduction of carbon footprint ,making high added value and healthy soil which is mentioned .

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### Energy Security Impacts

Using wastes to make energy by domestic energy making machine in home is without any danger Or threat .You can use the machine in indoor or outdoor for example in your home or in the yard or In the parking or in the balcony or in the roof top ,anywhere you want. There is no matter to use Anywhere to get sustainable energy.

The other advantages of this method are :

- Reinforce soil with organic and rich fertilizer
- Help to waste separation in origin
- Destruction of germs and pathogens
- Creating employment for people
- Optimal use of household waste and ...
- Helping the economy of the country
- Protection of trees and forests
- and....

### How it works?

The domestic energy making machine would make energy as gas by receiving waste after you throw in. The machine receives up to 10 kg wastes daily and begin to make energy .Then you can turn on the stove for cooking or heating. The amount of energy as gas is one hour as stove flame by 1 kg of wastes and 10 kg of wastes makes 2-3 m3 gas . The excess gas would be electricity for lighting and so on.The 6.5 kg of produced fertilizer is another product which is organic and usable for pats,garden or in higher capacities for agriculture.The return on the investment is less than two years in domestic phases.The biochemical and biological process is the basis of the function which is environmentally friendly by the nature.The technical complexity and other innovations has been done on how to purify gas and gas purification for use or getting electricity. The industrial method's energy output and return investment depends on inputed wastes and project's condition.

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The energy making machine is in two types in domestic : 1) The machine daily capacity of 10 kg Wastes 2) The machine in capacity of 20 kg waste daily which higher efficiency to the first one. But in industrial the types up to amount of input wastes as 100 kg , 250 kg,500 kg, 1000 kg or... To make energy for example gas ,28 m3, 70 m3, 145 m3 , 280 m3,... respectively. The higher Capacities would be used in hotels,restaurants,hospitals,farms,factories,....

### - Challenges

The energy making machine is on the biochemical and biological process basis of the function which is green and environmentally friendly in relation to the nature. The technical complexity and other innovations has been done on how to purify gas and gas purification for use or getting electricity. Setting up and start using the machine and this method face to some problems: Like being unfamiliar ,and unwillingness to use green energy,and the tendency to use fossil fuels,or lack of financial resources and financial support,not adopting policies related to new and renewable energy and the lack of introduction and advertising of this machine which can be fix by culturizing and making people awareness and changing manner of financial and policies into sustainability ,green and environmentally friendly.

### - The future visions

It has so much economic advantages, big global market and large domestic market, ability to export Machine to all countries and Currency exchange for the country are some future visions. Construction Energy plant in higher capacity in the countries in industrial phases as big market is a way to global Sustainability. The prize would spent to introduction and development and transfser of this technology and machine to other countries to use in Middle East and Africa and all over the world which has no energy or has expensive energy and concern about the Earth and the environment.

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All which is told , leads to the conclusion that innovation in sustainability and affordable for use which Would be used as standard method in energy industries and energy commerce in less than five years.Also Any new idea and new innovation in any area would be considered and encouraged. The future's vision of this method and this machine is extraction hydrogen of the machine as clean energy in unexpensive manner to use.

### - **The financial result**

The company's activity focus on the bussiness of energy making machine as product so by contract In commerce of the machine .The required capital is supplied by owner's capital . The machine is appropriate to use for any country who have lack of energy or has expensive energy or by decrease accessibility. The total sold machine is about 45 machine from Agust 2020 to March 2021 to some countries. Of course we are meeting the sustainability and commerical goals that is 50 installed domestic machine by Agust 2021.

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## ENERGINE FUTURE ENERGY



160 \* 90 \* 130 cm

Energy making machine from wastes (domestic)

weight : 75 kg

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### Conclusions

Making energy for positerys and waste crisis are two major problems which human try to solve Them. The importance of conserve energy and fossil energy run out and alternative energy that Prescribe, all is to start moving to global sustainability and development by this action that Is convenient and doable in any country in support of make great value in the pursuit of socio-economic development to meets the needs of both current and future generations.

Energy economic growth by ensuring energy security,sustainability and human developments And culturing by awaring and training people about behavioural changes that led to new life style. Better energy management and consuming energy management rationalization and the promotion of education, training to higher culturizing people and awareness about importance of energy and saving energy, reducing pollutions and wastes which human being makes in the earth , making clean energy ,no need to any networks to prevent energy loss in the network, waste management , green technology , reduction of carbon footprint, dealing with climate change, making high quality fertilizer , reducing dependence to traditonal energy ,export prosperity,construction of industries and employments,circular economics,along with nature cycle and sustainabiity are the other benefits.

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## ENERGINE FUTURE ENERGY

### Why this is worthy to get prize

As it is expressed earlier, this project focuses on sustainability and environment in clean energy by Nature cycle. The prize if win, would be spent to introduction and development and transfer of this technology and machine to other people and countries to use in Middle East and Africa and all over the world which has no energy or has expensive energy as green and environmentally friendly energy .

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The invitation to AGRITECHNICA EXHIBITION GERMANY HONOVER 2019  
UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION



**UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION**

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Bonn, 3 September 2019

**To Whom It May Concern**

This is to confirm that **Ms. Somayeh AKBARI**, citizen of The Islamic Republic of IRAN, has been accepted as a participant to the UNIDO ITPO Germany Delegate Programme from **10 November 2019 to 16 November 2019** in the scope of the International Fair of Agritechica in Hannover.

The details of the participant are as follows:

Surname:	AKBARI
Given Name:	Somayeh
Date of Birth:	12 June 1982
Place of Birth:	Tehran
Passport Number:	H49857572
Date of Issue:	22 August 2019
Date of Expiry:	21 August 2024

UNIDO ITPO Germany is responsible for covering the participants Daily Subsistence Allowance (DSA) which encompasses accommodation, meals and miscellaneous costs during the period of the Delegate Programme.

Your assistance in facilitating the administrative procedures to issue a visa to enter the Federal Republic to Germany for Ms. AKBARI for the dates of the Delegate Programme (including travel dates) will be greatly appreciated.

Highest Considerations

A handwritten signature in blue ink that reads "Rolf Steltemeier".

Dr. Rolf Steltemeier  
Head  
UNIDO ITPO Germany





## ENERGINE FUTURE ENERGY

### Considerations :

The videos of the energy making machine's function is available in :

<https://youtu.be/FdLE-sF8Dp0>

<https://youtu.be/tDTTLTO4dwE>



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