



New developments for agriculture and energy in Myanmar

2023

Problem

Agriculture in Myanmar employs 70% of the working-age population, it provides 40% of the country's GDP.The main crop of agricultural is rice.

One of the most common crops is rice.





When processing 1 thousand tons of rice, 200 tons of rice husks are formed. It does not decompose and causes great harm to the environment.

We propose to turn waste into income!



Rice husks can become a valuable raw material for industrial development and export.

To achieve this goal, we offer to supply factories for processing rice husks and our latest technologies for obtaining highly profitable materials:

Heat insulating mixtures for metallurgy.

The total demand for heat-insulating mixtures of metallurgical enterprises only in Russia is more than 165,000 tons per year. To do this, it is necessary to process about a million tons of rice husks.

Amorphous silicon dioxide (SiO₂) with purity and properties for the chemical and tire industries.

Over 80% of all silicon dioxide produced in the world goes to rubber production.



Carbon sorbents for cleaning industrial gases and collecting oil spills.

They can also be produced from coconut processing waste.

technology

Refractory bricks for the metallurgical industry.

In the future, we propose to build a refractory material factory in Myanmar for export.

Environmentally friendly bricks for the construction of energy efficient structures.

Made only from processed rice husk products.



Organic silicon and humic fertilizers.

They are used both to increase the yield of rice and to recultivation contaminated and infected soils.

It is possible to combine this technology with the processing of animal waste to improve overall efficiency.

Environmentally friendly substitutes for plastic tableware.

It is now the most demanded and fastest growing ecological industry in the world.

solution

All this can be made from rice husk, and we are ready to cooperate in these areas! Detailed information on each of the directions can be obtained upon your request to our e-mail.



Plant for generating electricity from plant waste



Gasification and plasma cleaning of gases

The proposed technology is based on continuous gasification of carbon materials, followed by plasma post-treatment and supply of gases to gas-generating plants to generate electrical energy.

agricultural waste

husk, straw, bagasse, dehydrated manure and dung

wood waste

sawdust and shredded waste from wood processing, bark and wood

waste

plastic waste

coal

and waste of coal preparation

A distinctive feature of the industrial equipment is the production of highpurity generator gas, which allows the use of inexpensive and spread gas-piston generator sets.



technology

The capacity of power generation plants depends on the customer's requirements and the parameters of raw materials and is in the range of 0.25 - 2 MW / h, which makes it possible to provide electricity to both enterprises and entire settlements.

Performance on various types of raw materials is shown in the table:

Installation options	Unit rev.	Husk (various cultures)	Wood waste	Waste coal (cake, sludge)	Plastic
Consumption of processed	(tons / month) /	1720/2400	2590/3600	3600/5000	2000
Taw materials up to	(kg / hour)				
The volume of produced gases (taking into account own needs) up to:	nm3 / h	1400	1000-1800	900-1200	1200-1600
Calorific value of gases (depends on raw materials)	Kcal / nm3	3500-5000	3000-4200	3800-6000	3800-6000
Electric power of gas piston generators	MW/h	2,1	1-2,1	0,7-1,2	1,5-2,1

technology description



The equipment is an autonomous mini-plant with the ability to scale and replicate, on the basis of which it is possible to create a distributed power generation network with a single service center.



For the development of this area, we offer a full range of services:

- design work
- supply of equipment and installation
- service and personnel training
- development of technologies and adaptation for specific

tasks



Thank you for your attention!

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