

The Far Eastern center for strategic research on fuel and energy complex

Some promising direction of gasification in the subjects Far Eastern Federal District the Russian Federation with the participation of Japanese manufacturers

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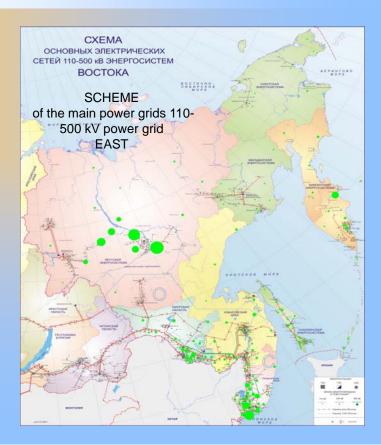
Professor

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ENERGY EAST

The main centers for the production of electrical and thermal energy are concentrated in large towns. In most small towns and villages of the Far East is heat from industrial plants and small hot-water boilers. In the 9 regions of DFO operates 4915 heating plants.



Gas production center DFO



We plan to create a DFO Yakutia, Kamchatka and Sakhalin gas production centers. Creating a unified gas transportation system will fully meet the requirements for gas fuel Sakhalin, Amur Oblast, Jewish Autonomous Region, Khabarovsk and Primorye territories.

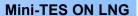




CGTS

Under the conditions of the Far East cogeneration gas turbine power plants are able to effectively solve problems as district heating, as well as the local power problems







A draft translation of local boiler and DES for liquefied natural gas, the production of which is provided by the complex construction of a liquefied natural gas



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MINI LNG

Low output
provides annual
LNG production
capacity of two
thousand to one
million tons of LNG
a year and a range
of delivery to the
consumer up to
one thousand
kilometers





Gas Station

Administration with the participation of "The Far Eastern center for strategic research on fuel and energy complex" has begun to develop and implement programs for the development of network gas stations in the Maritime Territory.





Mini-GTL plant

Developed the concept experienced pilot and industrial Mini-Setup and mini-GTL plants







- Cost-effective gasification and teploelektroobespechenie remote communities in the Far Eastern Federal District requires a much different approach than for large settlements.
- Mini-TES can completely replace the boiler, since even with the same highest fuel utilization factor (KIT) in the mini -TES reduced operating costs for heating and transport of heat.
- In the Far East, there are all conditions for large-scale transfer of motor vehicles and agricultural equipment to natural gas including development of automobile gas filling compressor stations in the regions.
- On the basis of Japanese technologies establishment of new liquefied natural gas with high technical and economic parameters specific to their placement at specific sites.
- Construction of the complex production and implementation of small-capacity LNG transportation of liquid methane to consumers replace expensive diesel fuel and provides a significant reduction in price of energy.
- The use of cogeneration will allow a 30-40 % increase in the efficiency of LNG.
- There is a need for R & D and R & D in terms of implementation, adaptation, technology and modernization of the "small" thermal power generation, mini LNG / GTL to the conditions of the Far East.
- Jointly consider the possibility of Sino Russian technical cooperation and business opportunities available in Japan and high-tech energy-saving.



THANK YOU FOR YOUR ATTENTION