

Development and research of the cogeneration system "Vodoliy" and its operation on combined fuel.

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Results

The fact of the matter. In work was analyzed the gas turbine technology “Aquarius” and its flow diagram for working at different fossil fuel and renewable energy sources. At the same time such construction made possibility for high efficiency cogeneration work.

Result. In this work developed the technology based on high efficiency steam-and-gas turbine technology “Aquarius”, which could supplied not only natural gas and liquid fuel but also coal and renewable energy sources: peat, wood, straw and other things from the vegetable kingdom. In such way natural gas consumption reduced on 60% and aggregate capacity 1,25-1,3 times increased. At the same time environmental pollution and greenhouse gases emissions reduced as compared with first generation steam-and-gas technology “Aquarius”.

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