
Power station miniaturization generator

What is a small-scale power generator?

Scarce attention is paid to the design and experimental tests of a small-scale (~10 kW) power generator where the HS is within the range of 100-500 kW, which is provided by the engine in the transportation area and distributed energy resource.

Could a microreactor generate power on-site?

The U.S. Department of Defense is pursuing the concept as its military operations become more energy intensive and require portable, dense power sources. Remote, rural communities in the U.S., many of which fly or truck in diesel to run generators, are considering microreactors since they could generate power on-site.

What is a small modular reactor (SMR)?

There is strong interest in small and simpler units for generating electricity from nuclear power, and for process heat. Small Modular Reactors (SMRs) represent a broad suite of smaller-scale designs that seek to apply the principles of modularity, factory fabrication, and serial production to nuclear energy.

Why did Westinghouse stop working on small modular reactors?

In January 2014 Westinghouse announced that was suspending work on its small modular reactors in the light of inadequate prospects for multiple deployment. The company said that it could not justify the economics of its SMR without government subsidies, unless it could supply 30 to 50 of them.

The purpose of this Master's thesis is to scale-down the steam generator (SG) of three different PWR designs. The designs of concern were the vertical SG in the EPR, the ...

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The supercritical CO₂ (sCO₂) power cycle could improve efficiencies for a wide range of thermal power plants. The sCO₂ turbine generator plays an important role in the ...

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In order to meet the application requirements of miniaturization and compactness of pulsed power generator, a compact generator based on Tesla transformer and Blumlein ...

The circuit of a Marx generator is the simplest high voltage amplification circuit, the technical difficulties of Marx generator with high voltage, high current are fast rise time, low jitter, ...

Executive Summary Just as the electromagnetic force can be used to generate electrical power, the electrostatic force can also be used to convert mechanical energy into an ...

Dear Colleagues, Miniaturized, small-size, down-scalable, on-chip, etc. generators are a relatively new field of research, and such products are more exotic, rather than popular, ...

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They represent an option for distributed power generation (Willis and Scott, 2000) in alternative to other technologies which are commonly used to provide small amount of power, ...

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