

The invention relates to the field of electric power engineering. A methane hydrate electric power plant transforms energy of methane hydrates deposits of which are concentrated at bottom of water reservoirs. The power plant comprises equipment of the bottom with floating unit, a transportation pipe with gaslift, this is fed from dry gasholder, a floating chamber in which there is screw separator, a wet gas-holder-smelter with heat exchanger, gas and steam turbines with generators and heat exchanger, and supplementary equipment. Methane hydrates loosened in the bottom are lifted by transportation pipe to the floating chamber where those are partially separated in the crew separator. Released methane is directed to the dry gasholder where from it can come to the gaslift of transportation pipe and to the gas turbine. In the wet gasholder methane hydrates are smelted by heat of the steam turbine exhaust. The gas turbine with steam-gas cycle is fed by gas and hydrate water from the wet gasholder-smelter and from other gas sources. The steam turbine is fed with steam from hydrate water from the wet gasholder, this is overheated in the heat exchanger through which exhaust gases from gas turbine pass. The invention promotes more complete extraction of energy from methane hydrate deposits.