

Method for automatically controlling the flow of electrical energy in a hybrid power plant, which includes an energy storage system, by measuring signals that record electrical energy parameters. Continuous and simultaneous measurement of electrical power is performed at the power plant's own generating units, battery banks, and buses feeding electricity into the power grid using bidirectional electricity meters. They are connected via current-reducing transformers. Based on the measurement results, the operating modes of the hybrid power plant are adjusted through the generation and transmission of corresponding commands from the automated power flow control system to the switching equipment.