

The invention relates to a process for rapid power regulation of a power station with a turbo unit having a steam turbine (2, 4, 6) and a generator (8). Available energy stores are activated in the plant process to control increased generator power output (P_s). To achieve particularly effective control, the invention proposes, in addition to the generator power (P_s , P_i), the use of at least one other process variable (P_{WL} , P_{FW} , M_{PD} , D_{FD} , KL , TB , P) characterizing the current operational state to determine a number of positional reference values (Y , D_{FD}). A device for carrying out the process comprises regulation means (60), the inputs (a to i) thereof containing power values (P_s , P_i) of the generator (8) and at least one other process variable (P_{WL} , P_{FW} , M_{PD} , D_{FD} , KL , TB , P), and the outputs (n to u) thereof giving positional reference values (Y , D_{FD}) for regulating members (10, 12, 18, 22, 24, 28, 32, 34, 36, 42, 46, 48, 50) connected to the steam turbine (2, 4, 6).