Under the Japanese government’s comprehensive R&D program on energy conservation ("Moonlight Project"), which set very high goals for developing energy conservation technology, gas turbine manufacturers developed and accumulated advanced cooling and thermal barrier coating technologies and eventually came up with the Gas turbine, Type AGTJ-100A. Previously, Japan had depended on technology from leading foreign manufacturers, but from 1980 to 1990, using the key technology provided by this device, Japan developed its own third-generation high-performance gas turbines with 1300 °C heating capacity, producing gas turbines that exceeded world market quality standards.