

Abstract

Provided is a gas turbine system (1), including: an ammonia tank (14); a combustor (13) connected to the ammonia tank (14); an exhaust flow passage (42) connected to the
5 combustor (13); a turbine (11b) provided in the exhaust flow passage (42); a cracked-gas reservoir (17) connected to the combustor (13); and an ammonia cracking catalyst (16), which is arranged on a downstream side of the turbine (11b) in the exhaust flow passage (42), and is connected to the ammonia
10 tank (14) and the cracked-gas reservoir (17).