

## **46ESS-41: INDUSTRIAL GAS TURBINE NOISE REDUCTION SYSTEM**

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*Noise pollution from gas turbines is one of the main concerns for many organisations nowadays. Due to the high rotating speed, industrial gas turbines produce extreme levels of noise. Therefore, it is essential to have an appropriate control in the inlet and exhaust opening of gas turbines, which are the main sources of noise in gas turbines along with the casing, in order to achieve adequate levels of noise. Innovative silencers and sound dumping systems are required, as noise regulation policies become more restrictive. In addition, gas turbine noise pollution is a matter of great importance from the point of view of worker health and safety. This paper provides a general view of noise reduction devices that are currently in used, their limitations, and how future designs and technology plan to improve the actual performance of industrial silencers.*