

46ESS-85: A comparison of Rolls-Royce and GE civil turbofan engine

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Rolls-Royce and General electric (GE) are two of the world's leading turbofan engine manufacturing companies that drives on excellence and customer satisfaction, these two companies are known to produce some of the world's best turbofan engines because of their consistent innovation to make sure that they stay on top of their competitors. The civil aviation industry is always looking to improve the overall engine performance based on factors such as, engine efficiency and reliability. This Report shows a comparison between some of the best civil turbofan engines designed by Rolls-Royce and General electric (GE). Alongside with this comparison would be a research on how the various engines have evolved over the past years and the improvements that have been made by the two companies. Looking deeper into the engine operation, an analysis of the engine's functionality, operation and reliability will also be carried out in order to make a more genuine comparison of the engines.