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CFM56-3 Advanced Upgrade

The greening of a veteran product

Aircraft engines contribute about 1 percent of the total mobile source NOx emissions in the United States. NOx emissions are a precursor to the formation of ground level ozone, also called smog, which affects human pulmonary and respiratory health. The number of commercial flights taken in this country each day will only increase in the coming years. Recently, the Federal Aviation Administration reported that flights of commercial air carriers will increase by 45 percent over the next two decades.

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CFM56-3 Advanced Upgrade

GE's innovative solution

At GE, we are taking great strides to reduce the environmental impact of jet engines. The CFM56-3 engine upgrade kit lowers maintenance costs and achieves better fuel efficiency, ultimately reducing emissions of harmful greenhouse gases.

The CFM56-3 engine powers the largest fleet of aircraft in the world, the Boeing 737 "Classic" series (737-300/-400/-500), and is one of the best selling commercial engines in history. More than 4,500 are currently in service with nearly 200 operators around the globe. To date, 200 advanced upgrade kits have been installed with orders for 500 more to be delivered through 2007. The 200+ upgraded engines are saving approximately three million gallons of fuel per year, cutting costs and reducing the engine's impact on the environment.

Reducing the engine's impact on the environment

The upgrade kit provides a 1.6 percent fuel burn improvement over the base CFM56-3 engine, which translates into 28,558 gallons of fuel saved per aircraft per year and 234 tons less carbon dioxide emitted per aircraft per year.

Cutting costs

The upgrade addresses airline customers' increasing focus on total cost of ownership by providing longer time on wing (TOW), greater engine/component reliability, fewer engine removals, lower scrap rates on component hardware, improved fuel burn, improved residual value of aircraft and reduced spare engine ratio.

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