Supporting modernization of thermal power plants for affordable reliable and sustainable power generation for the country

A GE POWERING EFFICIENCY SOLUTION

RENOVATION & MODERNIZATION SOLUTION AT NTPC'S RAMAGUNDAM SUPER THERMAL POWER STATION UNIT 1 & 3

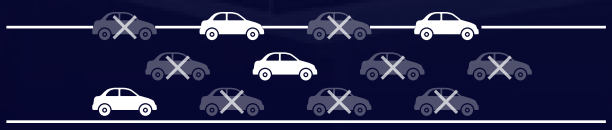
+3.8% average improvement in thermal efficiency

Output boosted by
10 MW from **200** to **210 MW**

average **-9.9%** improvement in turbine heat rate

2.1 lakhs MT/Yr.
of potential annual savings in coal consumption

2.3 lakhs MT/Yr. reduction in CO_2 emissions which is equivalent to 1,41,200 cars taken off the roads



Up to 20 years
turbine life extension

Some parts of project requirements fulfilled locally, in support of *'Make in India'* initiative

Units 1 & 3 **synchronized** to the national grid

\+ Safer, more reliable, better performance, greater availability

GE'S HIGH PERFORMANCE APPROACH TO STEAM TURBINE UPGRADES

In 2017 GE Steam Power completed a
first-of-its-kind
shaftline retrofit for Ukai thermal power station for BHEL 200-MW-class units in India

The retrofit extend the unit's life by
25 years

Restored its output back to its original capacity of **200 MW**