

DELIVERING EFFICIENT POWER WITH LOWER EMISSIONS TO INDIA

A GE POWERING EFFICIENCY SOLUTION



FUTURE OF ENERGY IN INDIA

It is estimated that **240M** people in India have no access to electricity



Power sector is expected to nearly **quadruple** in size by 2040



Commitment to slash emissions per GDP **by 33 to 35%** by 2030



COP21 Paris

ADVANCED STEAM PATH (ASP) SOLUTION AT UKAI 4, INDIA

Plant efficiency increased by **5.5%**



Reduction of **140,000** tons of coal used per year

Coal reduction will turn in expected **\$7 million USD*** savings per year



Steam turbine heat rate improved by **~14.5%**

Up to **180,000 tons** of CO₂ reduction per year, the equivalent to over 162,000 Indian cars taken off the road



Up to 25 years unit life extension



GE'S HIGH PERFORMANCE APPROACH TO STEAM TURBINE UPGRADES

Proven technology with **1,300 ASPs** installed in past 30 years



↑ MW Up to **10%** output increase

80+ Steam turbine OEM brands supported



POWERING EFFICIENCY CENTER OF EXCELLENCE

10% fuel savings potential per year



192,000+ tons of CO₂ potentially reduced per year

Equivalent of the amount absorbed by 162,356 square miles of forest per year**



* Conversion rate: \$1 = INR 66/-

** Per EPA, 1.06 metric tons of CO₂ is absorbed annually by one acre of average U.S. forest