As power producers face increasing pressure to retire existing fossil plants for economic or environmental reasons, GE’s Advanced Steam Path (ASP) provides a cost-effective option to increase the competitiveness and efficiency of existing power plants with steam turbine tailored upgrades.

This interactive document contains a selection of Advanced Steam Path customer success stories.

**Advanced Steam Path (ASP) is GE’s high performance approach to steam turbine upgrade solutions**

- **30%** of steam turbine upgrades are performed on cross-fleet brand equipment
- **1300+** ASP upgrades installed over the past 30 years
- **Up to 100,000 hours** intervals extension between major inspections achieved with ASP upgrades
- **Up to 10%** Output improvement. Strong potential for plant capacity increase
- **Up to 100,000 tons of CO₂** saved per year after an ASP upgrade
- **Up to 10%** Better steam turbine efficiency for lower plant fuel consumption

ASP has one of the leading “time to delivery” capabilities in the market

80+ steam turbine OEM brands supported, including Siemens, KWU, Westinghouse, Toshiba, MHI, LMZ

50/60 Hz

ASP is adaptable to any size steam turbine in steam, combined-cycle and nuclear plant configurations
ADVANCED STEAM PATH – CUSTOMER SUCCESS STORIES

AFRICA

ASIA

CHINA

EUROPE

INDIA

MIDDLE EAST

NORTH AMERICA

CENTRAL/SOUTH AMERICA
KRIEL 1-6
Eskom
- 6 x 500 MW
- OEM Brand: BBC & CEM
- Benefits: Steam turbine efficiency increased by 5%

KOEBERG
Eskom
- 2 x 980 MW
- OEM Brand: GE
- Benefits: 40 years lifetime extension

ARNOT
Eskom
- 6 x 400 MW
- OEM Brand: CEM
- Benefits: Output increased by 300 MW
**HANUL (HULCHIN)**
Korea Hydro & Nuclear Power
- 2 x 920 MW
  - **OEM Brand:** GE
  - **Benefits:** Output increased by 50 MW

**MAASHAN 1 & 2**
Taipower
- 2 x 952 MW
  - **OEM Brand:** GE
  - **Benefits:** Output increased by 36 MW

**POHANG WORKS**
POSCO
- 4 x 78 MW
  - **OEM Brand:** Toshiba
  - **Benefits:** Process steam increased from 40 to 70 tons per hour

**LOY YANG B**
ENGIE
- 2 x 500 MW
  - **OEM Brand:** Hitachi
  - **Benefits:** Output increased by 84 MW

**Full Story**
CHINA

**SHIZUISHAN**
Guodian Technology & Environment Group Corp Ltd
- 6 x 330 MW
- **OEM Brand:** Beijing Beizhong
- **Benefits:** 100,000 tons of coal saved/year

**LANXI 1-4**
Zheneng Lanxi Power Generation CO Ltd
- 4 x 600 MW
- **OEM Brand:** Dongfang Electric
- **Benefits:** Up to 100,000 hour intervals extension between major inspections

**MAWAN 3-5**
Shenzhen Mawan Power Co Ltd
- 2 X 300 MW
- 1 x 320 MW
- **OEM Brand:** Harbin
- **Benefits:** 30 years lifetime extension

**BEILUNG 2-5**
Zheneng Beilun Power Generation Co., Ltd
- 3 x 600 MW
- **OEM Brand:** Toshiba
- 1 x 600 MW
- **OEM Brand:** GE
- **Benefits:** Output increased by 10%

**MAASHAN 1-2**
Taipower
- 2 x 952 MW
- **OEM Brand:** GE
- **Benefits:** Output increased by 36 MW
POZNAN
Veolia
- 2 x 105 MW
  - OEM Brand: Zamech
  - Benefits: Steam turbine efficiency increased by 6%
- Full Story

HERNE 4
STAEG Gmbh
- 1 x 500 MW
  - OEM Brand: Siemens
  - Benefits: Installation and commissioning in 64 days
- Full Story

PLOMIN 2
Hrvatska Elektroprivreda
- 1 x 210 MW
  - OEM Brand: BBC
  - Benefits: Steam turbine efficiency increased by 3.6%
- Full Story

NIKOLA TESLA
Elektro Privreda Srbije's
- 2 x 200 MW
  - OEM Brand: LMZ
- 3 x 308 MW
  - OEM Brand: BBC
  - Benefits: Operating lifetime increased by 100,000 hours

YENIKÖY
Yeniköy Kemerköy Elektrik Üretim ve Ticaret A.Ş.
- 2 x 210 MW
  - OEM Brand: Zamech
  - Benefits: Output increased by 40 MW
- Full Story

KEMERKÖY
Yeniköy Kemerköy Elektrik Üretim ve Ticaret A.Ş.
- 3 x 210 MW
  - OEM Brand: Zamech
  - Benefits: Output increased by 60 MW
- Full Story
RAMAGUNDAM
NTPC Limited
3 x 200 MW
OEM Brand: Ansaldo
Benefits: Output increased by 30 MW
Full Story

RENUSAGAR
Hindalco Industries Ltd
1 x 75 MW
OEM Brand: ABB-DEBER
Benefits: Power generation cost reduced by ≈ $15 million over five years
Full Story

WANAKBORI 3
GSECL
1 x 200 MW
Benefits: Steam turbine efficiency increased by 14%

TALLKHA 210 1-2
Middle Delta Electricity Production Company
- 2 x 210 MW
- **OEM Brand:** Skoda Czech
- **Benefits:** Steam turbine output increased

HUBCO
Hub Power Company
- 1 x 323 MW
- **OEM Brand:** Ansaldo
- **Benefits:** Efficiency increased by 1.3%
NORTH AMERICA

**DIABLO CANYON 1-2**
- **CPS Energy**
- **1 x 1100 MW**
- **OEM Brand:** Westinghouse
- **Benefits:** Steam turbine efficiency increased by 4%

**JK SPRUCE 1**
- **CPS Energy**
- **1 x 566 MW**
- **OEM Brand:** GE
- **Benefits:** Output increased by 45 MW

**GAVIN 2**
- **Lightstone Generation LLC**
- **1 x 1300**
- **OEM Brand:** BBC
- **Benefits:** Output increased by 30 MW

**RHODE ISLAND STATE ENERGY CENTER**
- **The Carlyle group**
- **1 x 583 MW**
- **OEM Brand:** GE
- **Benefits:** Average revenue increased by more than $4 million per year
- [Full Story](#)

**JAMES H MILLER 1-4**
- **Southern Company**
- **4 x 720 MW**
- **OEM Brand:** GE
- **Benefits:** Output increased by 80 MW
CENTRAL/SOUTH AMERICA

LAGUNA VERDE 1-2
Comision Federal de Electricidad
- 2 x 675 MW
  - OEM Brand: HMI
  - Benefits: Output increased by 20%

SAN JOSE
Central Gen Elec San Jose
- 1 x 120 MW
  - OEM Brand: Mitsubishi
  - Benefits: Output increased by 11 MW

MEJILLONES 1
Engie
- 1 x 150 MW
  - OEM Brand: Skoda
  - Benefits: Output increased by 14 MW