Smarter. Cleaner. Steam Power.

Today, **two billion people**
have insufficient or unreliable power.

And **more than a billion people**
don't have any access to electricity at all.

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Global trends transforming the power industry

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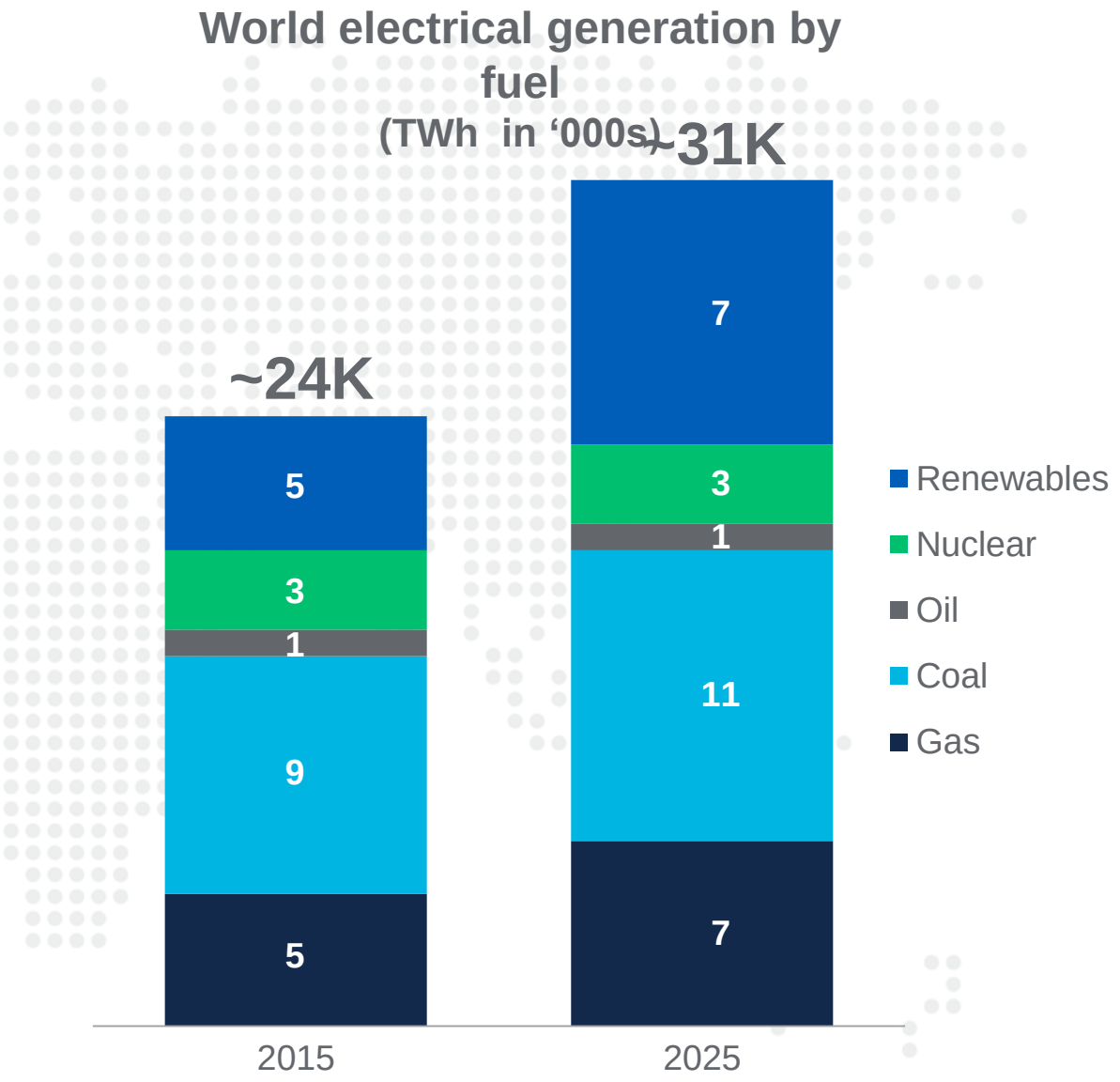
Global power market

Significant future capacity addition in coal

25% **of future power capacity will come from oil, coal, nuclear and biomass**

95% **of global demand will come from India, China, Asia, the Middle East and Africa**



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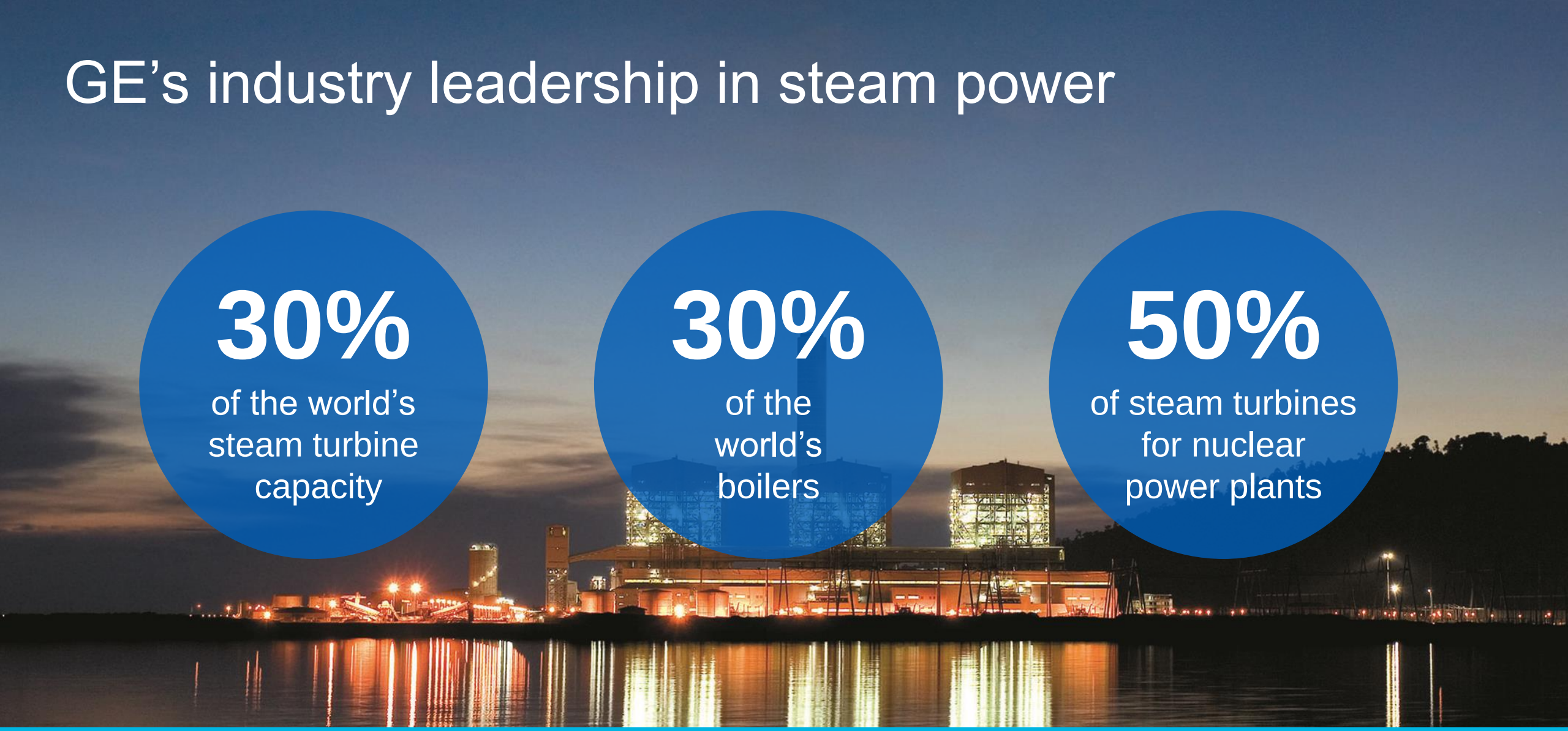
GE’s industry leadership in steam power



30%
of the world’s steam turbine capacity

30%
of the world’s boilers

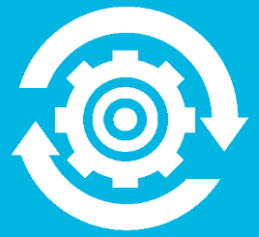
50%
of steam turbines for nuclear power plants

100+ YEARS OF EXPERTISE PUT TO WORK FOR CUSTOMERS EVERY DAY AROUND THE WORLD

What are our customers asking for?

BETTER PERFORMANCE

GREATER RELIABILITY



EMISSIONS COMPLIANCE

PROFITABLE GROWTH

Leading efficiency, lower emissions, better economics

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GE's new Powering Efficiency for Steam Center of Excellence

Cleaner, smarter
new build technologies

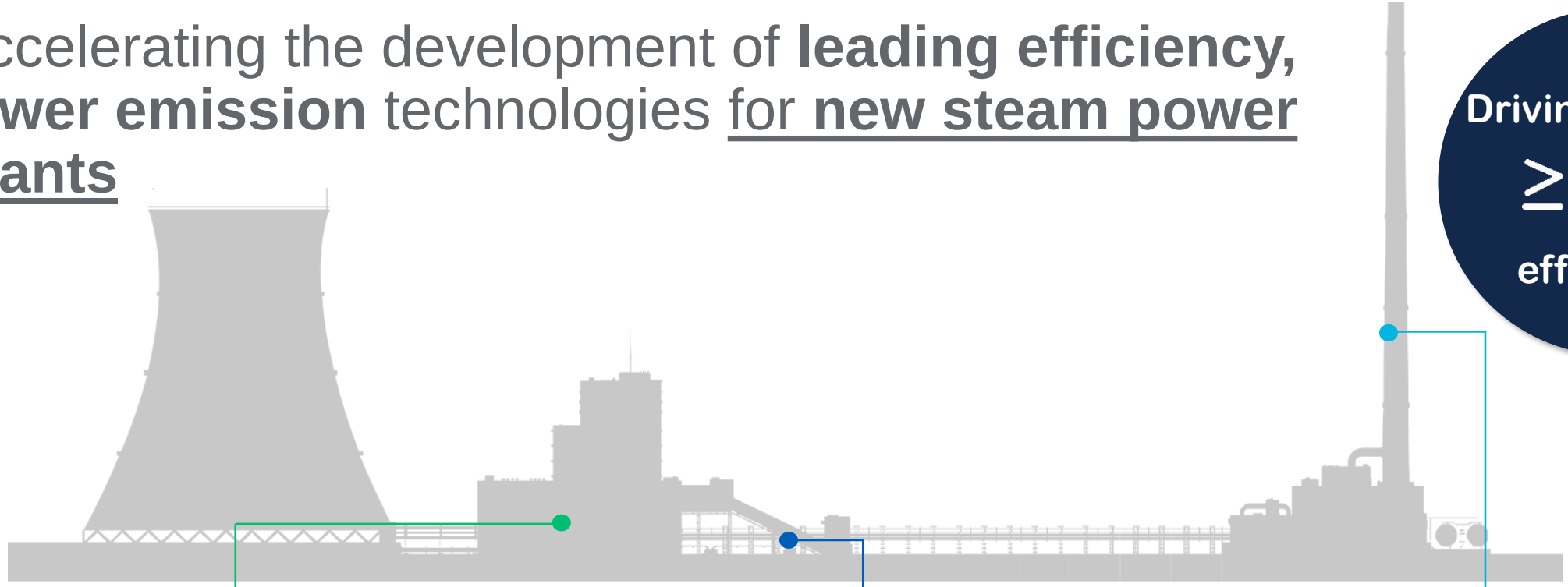
Total plant solutions
for existing assets

- Horizontal team of experts across GE
- Create integrated solutions to **improve efficiency, reduce emissions & enhance flexibility**
- Regional focus … **China and India**

Unifying GE's cross-business capabilities and expertise to optimize steam plant performance

Accelerating the development of **leading efficiency, lower emission** technologies for **new steam power plants**

Driving towards ≥50% efficiency



Technology Advancements

1.5% points more efficient & 3% lower emissions compared to today's best

PREDIX

Digital Capabilities

Up to 1.5% more power over the life of a plant

Environmental Controls

Lower emissions by 70% more than the world's most stringent emission standards

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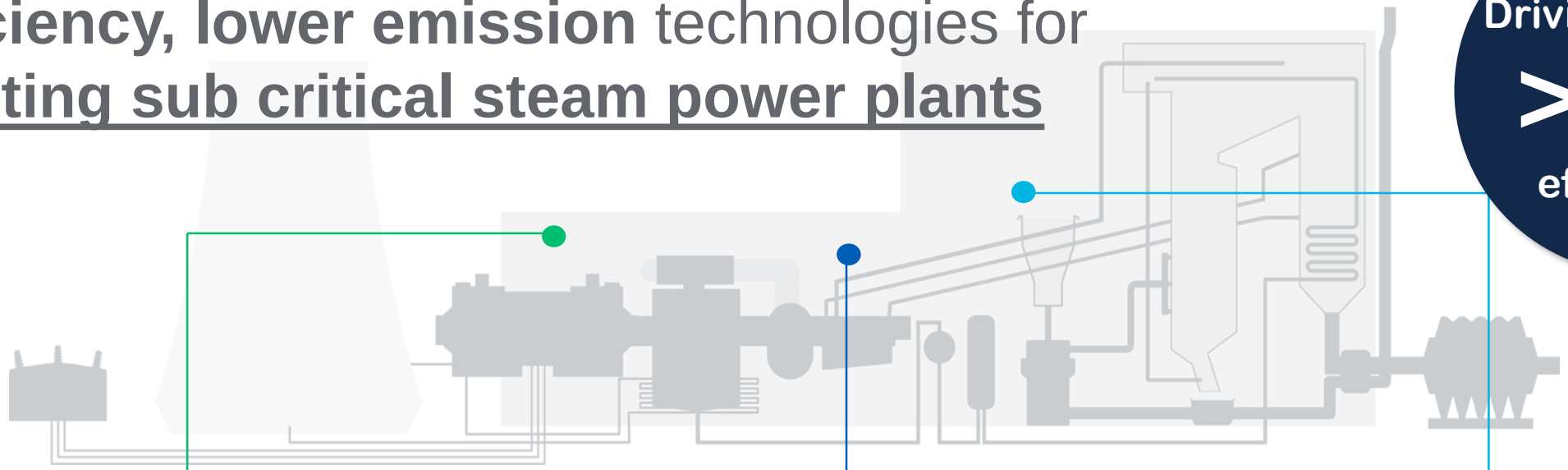
Accelerating the development of **leading efficiency, lower emission** technologies for **existing sub critical steam power plants**

Driving towards **>35%** efficiency



Technology Advancements

Digital Capabilities

Environmental Controls

Able to lower emissions by 70% more than the world's most stringent emission standards

5.5% more efficiency and **11%** lower emissions
250 million US cars off the road | **924** metric mega tons per year

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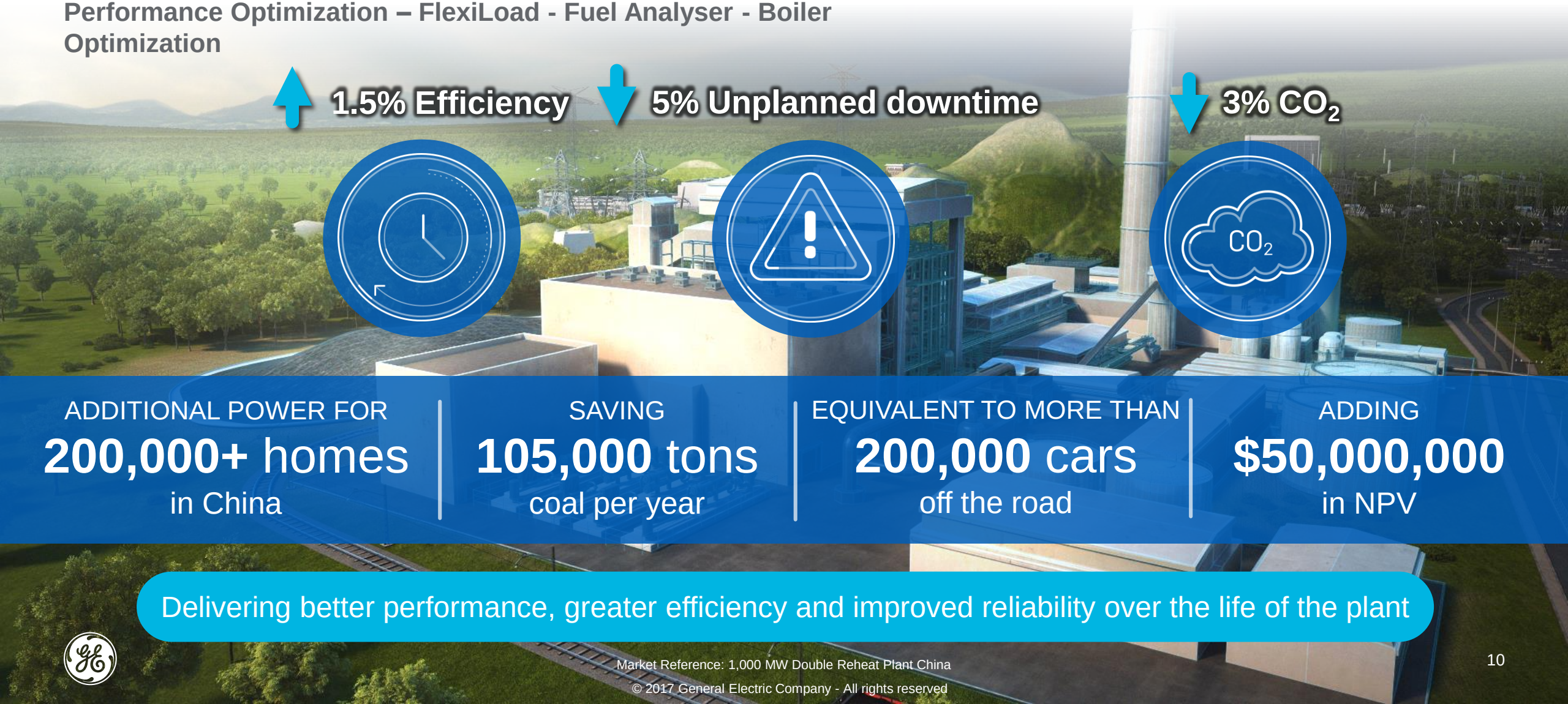
Digital Capabilities

DIGITAL POWER PLANT FOR STEAM

Performance Optimization – FlexiLoad - Fuel Analyser - Boiler Optimization



ADDITIONAL POWER FOR
200,000+ homes
in China

SAVING
105,000 tons
coal per year

EQUIVALENT TO MORE THAN
200,000 cars
off the road

ADDING
$50,000,000
in NPV

Delivering better performance, greater efficiency and improved reliability over the life of the plant

Market Reference: 1,000 MW Double Reheat Plant China

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The winning equation

leading Efficiency

1% point efficiency improvement

- 22MW Power output
- $30 Million NPV over asset life
- 67,000 Tons coal consumption
- 120,000 Tons CO_2 emissions

Per year figures for a 1000 MW plant,
~3,000,000 tons coal consumption

lower Emissions

Environmental compliance

Reduced CO_2 emissions

Better air quality

local project support

better Economics

Lower lifecycle cost

Profitable growth

Improved delivery time

Access to financing

Delivering more value for our customers

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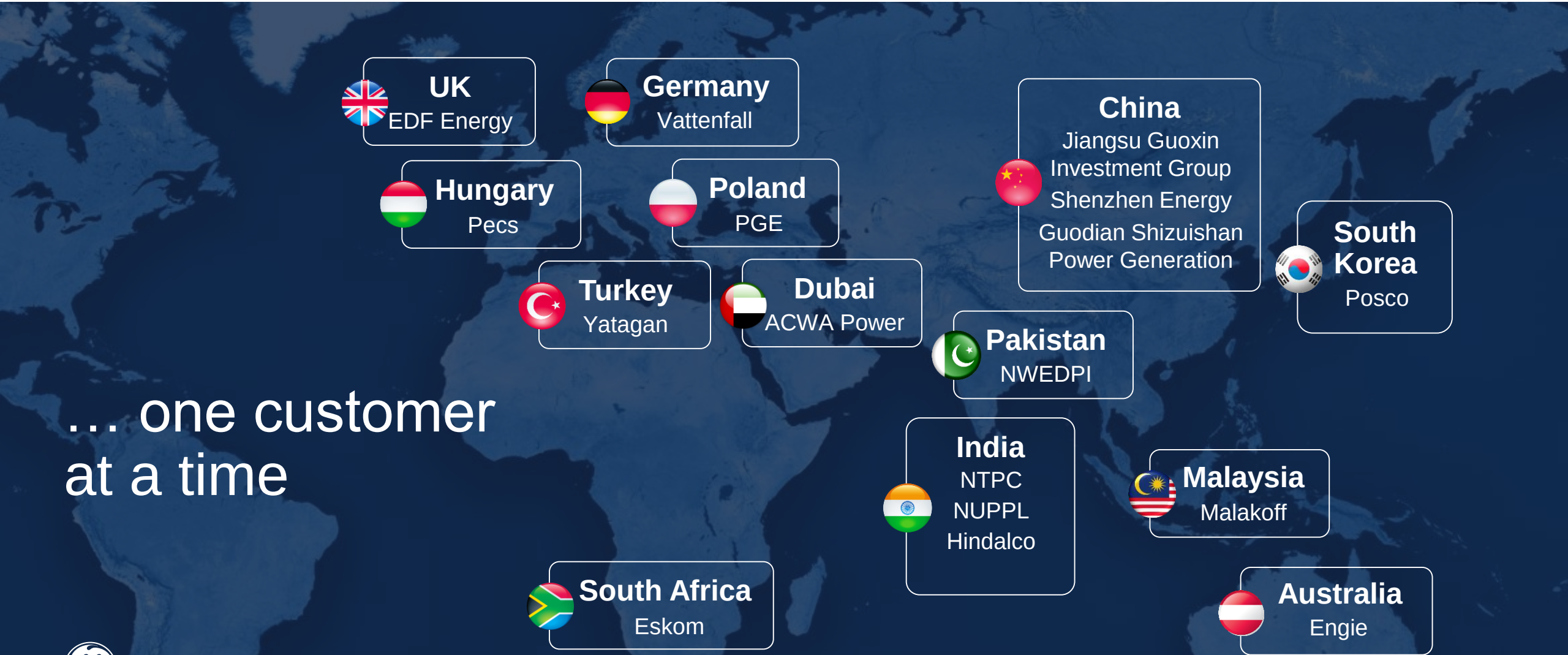
Powering everyone …



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