

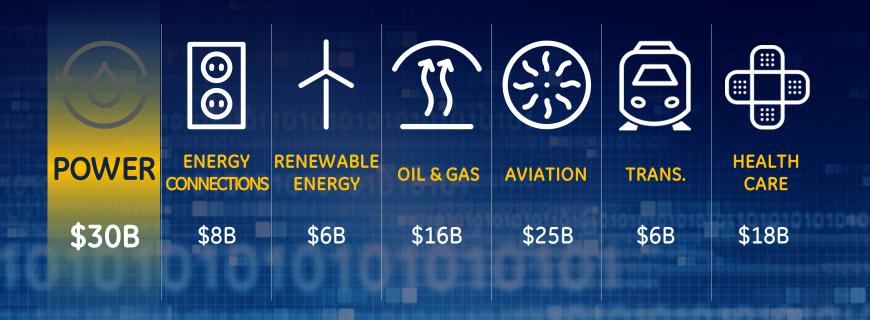
## Standards Alliance Workshop Accra, Ghana

March 31, 2017

### A DIGITAL INDUSTRIAL COMPANY

**\$124B** Revenue **350,000+** people **>180** countries

2015 Revenues



Leading the Digital Transformation of All Industries, Including Power



#### GE POWER

 $\sim$ \$30B revenue  $\sim$ 100,000 employees >150 countries

GAS POWER SYSTEMS



Schenectady, NY, USA

POWER SERVICES



Baden, Switzerland

STEAM POWER SYSTEMS



Baden, Switzerland

WATER & DISTRIBUTED POWER



Trevose, PA, USA

GE HITACHI NUCLEAR ENERGY



Wilmington, NC, USA

POWER DIGITAL SOLUTIONS



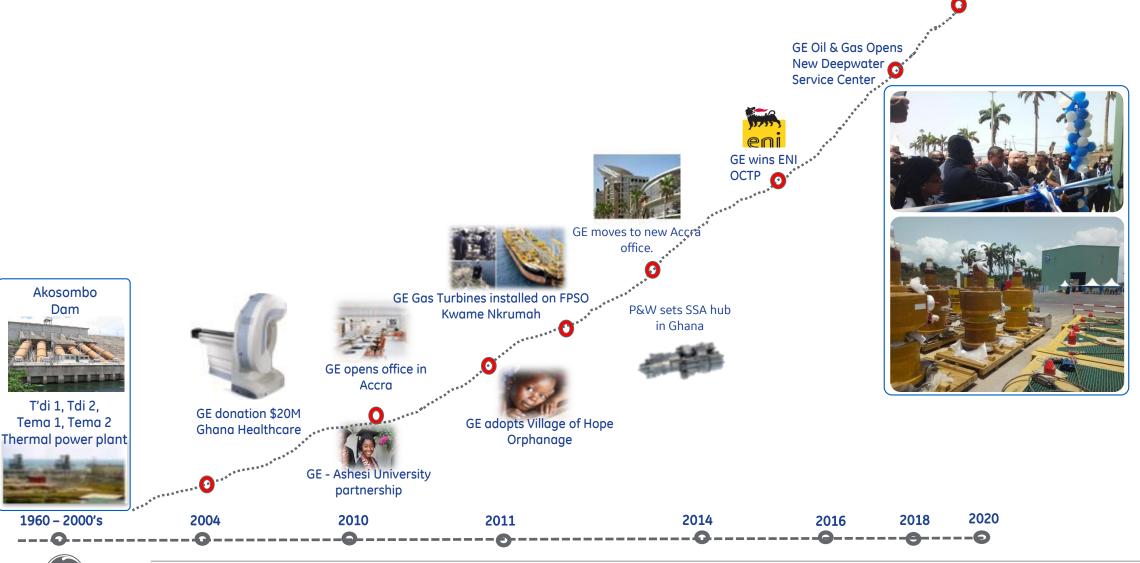
San Ramon, CA, USA

FUNCTIONAL EXPERTISE

OPERATIONAL EXCELLENCE

DIGITAL CAPABILITY

#### GE Ghana ... Our growth story so far

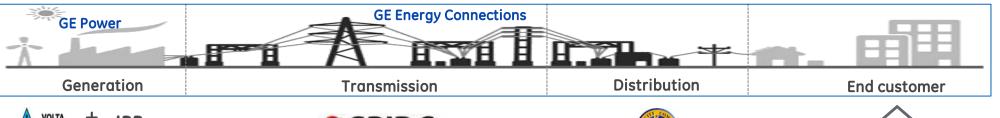




# Relevant Industry Standards

#### Ghana Power Landscape

#### **Electricity Supply Value Chain**



















Grid Stability / Frequency support **Transmission Losses** Spinning Reserve

**Distribution Losses Efficient control Systems**  **Energy Efficient Appliances** Cost Reflective Tariffs Peak power pricing

Safety is the ultimate standard: "Nothing is so important that it cannot be done safely"



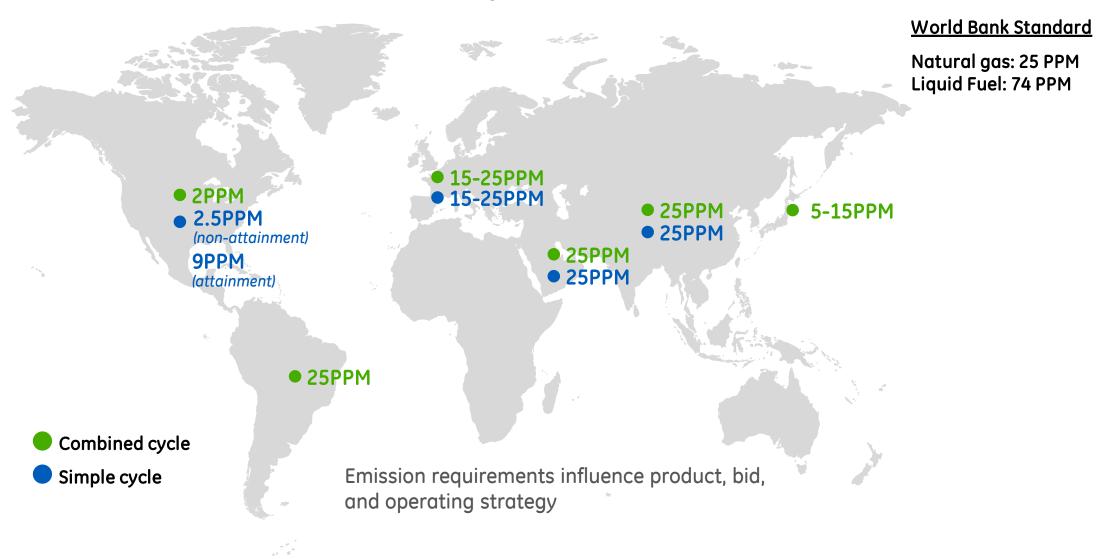
Min of Energy

#### Typically regulated pollutants

| Pollutant                              | Health Concerns                  | Gas Turbine Control Technology | Plant Control Technology            |
|--|----------------------------------|--------------------------------|-------------------------------------|
| Nitrogen Oxides (NOx)                  | Respiratory Effects              | Dry Low NOx<br>Water Injection | Selective Catalytic Reduction (SCR) |
| Carbon Monoxide (CO)                   | Reduce Oxygen Absorption         | Complete Combustion            | Oxidation<br>Catalyst               |
| Volatile Organic<br>Compounds<br>(VOC) | NOx and VOC<br>form Smog         | Complete Combustion            | Oxidation<br>Catalyst               |
| Particulate Matter (PM)                | Respiratory Effects              | N/A                            |                                     |
| Sulfur Oxides (SOx)                    | Respiratory Effects/Acid<br>Rain | Low Sulfur Fuels               |                                     |
| Carbon Dioxide (CO2)                   | Greenhouse Gas<br>Climate Change | Efficient operation            |                                     |



#### Global NOx Emission Requirements\*





## Questions?



