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World Energy Situation – Energy Trilemma

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### About GE Vernova



### Our purpose: The Energy to Change the World

GE Vernova, the 131-year-old energy pioneer. Our unwavering commitment to powering the planet, now fully focused on the energy transition. No company has the unique combination to pioneer what's next – just as we have before. Together, with our customers and partners, we will chart the course to a better future.

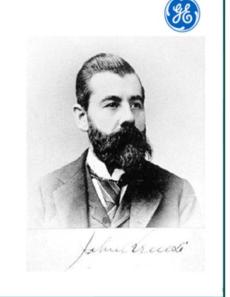


### Johann Heinrich "John" Kruesi 1. Chef Ingenieur bei GE

Ohne Johann Heinrich Kruesi gäbe es weder Plattenspieler, Glühbirne noch Isolierkabel. Aufgewachsen im Waisenhaus in Speicher, wanderte er 1870 nach Amerika aus und wurde 1877 die rechte Hand von Thomas Edison.

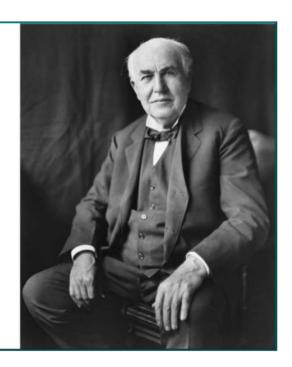
Der Werdegang von John Krüsi ist ein Musterbeispiel einer sogenannten Tellerwäscherkarriere, die ja oft mit dem «american dream» verbunden wird.

https://wikispeicher.ch/w/Kr%C3%BCsi John



When you have exhausted all possibilities, remember this...
YOU HAVEN'TJJ

Thomas A. Edison (1847–1931)



### Three future planned public companies





GE HealthCare

Driving innovation in precision health with 4M+ installations, 2B+ patient exams per year.





**GE VERNOVA** 

Accelerating the path to reliable, affordable, and sustainable energy, while helping provide 1/3 of the world's electricity.





**GE** Aerospace

Shaping the future of flight while powering 2/3 of commercial departures every day.

# GE Vernova is uniquely positioned

through its scale, breadth, and technological depth to play a key role in the energy transformation to address climate change.

ONSHORE WIND



OFFSHORE WIND



LM WIND POWER



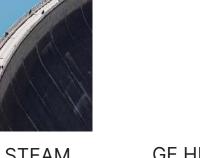
GAS

**POWER** 

STEAM POWER

**HYDRO** 

**POWER** 



GE HITACHI NUCLEAR POWER

POWER CONVERSION

### Strength + reach



~30%

World's electricity generated with the help of our technology



Gas turbines installed... world's largest fleet



54K

Wind turbines installed in >50 countries... #1 Onshore Wind in US<sup>a</sup>



30 % Global utilities served by our software



2,200GW

Global Installed Base

Small Modular Reactor

signed in North America

Enhanced Electric Gas Turbine (EGT) Aero + Storage + Hybrid Control

commercial contract



**\$29B** 

2022 revenue ~50% services



\$41

Financial Services enabled orders



~\$1B

Investment Advanced Research + Businesses ~3% of revenue



\$107E

at Source: American Clean Power Association
b) GE Vernova refers to the sum of our Renewable Energy & Power segments, without giving effect to eliminations and Corporate assustments
On a stand-alone basis, GE Vernova will include GE's particle of energy businesses and Digital.



SOLAR & STORAGE SOLUTIONS



GRID SOLUTIONS



DIGITAL



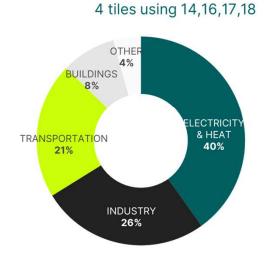
FINANCIAL SERVICES

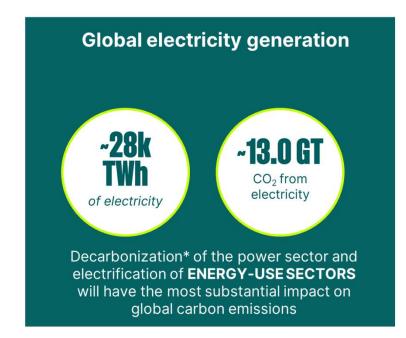




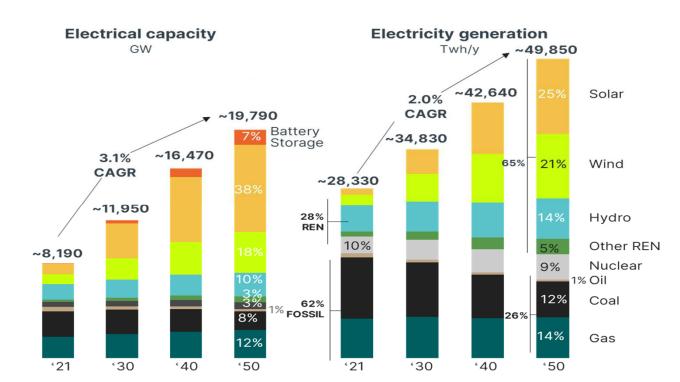


### Global CO<sub>2</sub> emissions (36.6 gigatons)



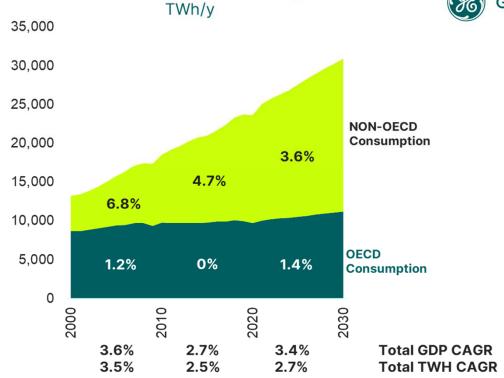


Source: IEA WEO 2022 and Gas Power at GE Vernova Marketing analysis using GE's Global Power Outlook 2022 and external data sets including IHS-Markit's Energy and Climate Scenarios

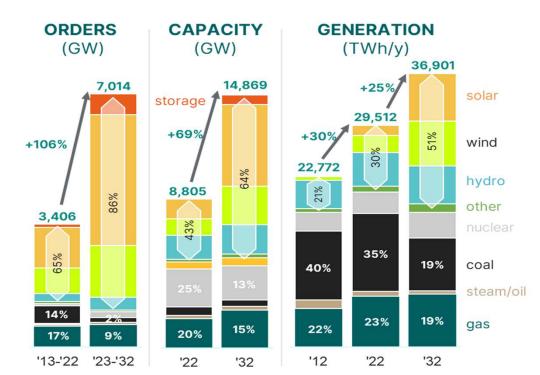


### **Global electricity consumption**









### Our true north:





### The world needs more electricity

- >50% increase over the next 2 decades
- ~800 MM people lack access to reliable electricity
- Enables economic growth, health and prosperity
- Electrification of transportation, industry and heat to decarbonize non-power sectors

30% of the world's electricity today is generated with GE's installed base

- ... we must help electrify the world
- ... while **decarbonizing it** with lower and zero-carbon-intensive technology
- ... that is sustainable, affordable, reliable/secure

### The Energy "Trilemma"



## How GE Technologies & Products serve the Energy Transition



### Grow Renewable Energy as fast as the world can afford



**Onshore Wind** 



Offshore Wind

### **Accelerate decarbonization with Gas...** pathway for Gas to Zero CO<sub>2</sub>



Hydrogen & CO2 neutral fuels



Gas Turbines



Carbon Capture

### Invest heavily in Grid ... for a diversified energy mix



Digital Services



**Grid Solutions** 

#### **Pre-combustion**



### Post-combustion

#### Use a near zero or carbon neutral fuel

- Hydrogen (blue, green, pink)
- Synthetic (renewable) methane
- Ammonia (NH<sub>z</sub>)
- Biofuels

#### Remove carbon from the plant exhaust

- Carbon capture technologies
- Oxy-fuel cycles

### Reconsider CO<sub>2</sub> free thermal energy





Small Modular Reactor (SMR)

#### Hydro

Hybrids

### Tacking Action on our Scope 1 & 2 Emissions



### Our Global Climate Actions

- Commitment to Environment, Social and Governance values (ESG)
- Lead transition to carbonfree future while continuing to help electrify the world
- Carbon neutral in our operations by 2030, net zero by 2050 inclusive of our sold products

### SUSTAINABILITY PRIORITIES



As of 2022, Scope 1 and 2 greenhouse gas emissions are down 28% compared to the 2019 baseline.

### Actions for our Switzerland operations

#### **Scope 1 Emissions**

- Birr factory equipment almost completely electric
- Working on further reducing Birr factory heating energy via efficiency increase, heat pumps and connection to Birr/Lupfig district heating system
- Car sharing pool access for employees, GE Switzerland GreenPolicy CO2 limits in place for all management cars

#### **Scope 2 Emissions**

- Birr factory & Baden offices on 100% Hydro Power
  - 296 tons (77%) CO2 reduction per year vs previous electricity mix
- Birr factory LED initiative (awarded by SFOE funding)
  - 3.94 GWh (87%) lower electricity consumption
- Regular Energy Kaizens to identify and drive further reduction opportunities

