

## **Energy Talks & Dinner**

Andreas Pistauer 20 February 2020, Jakarta, Indonesia

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siemens.com/gas-power

## The Inverse Life Insurance



## Temperature: 470 degC

CO<sub>2</sub> content: 97%

#### **RUPTL 2019 projections**

- Electrification rate: 98% → target 100% in 2020
- Energy mix: 22.5% gas, 59.6% coal, 12.2% renewables and 5.8% diesel
- Renewable energy → target 23% in 2025
- Additional 57 GW by 2028

### Global energy demand to grow by 50% until 2050

thereof Asia accounting for >66%





#### Asia plays a critical role in shaping the future of the global energy landscape incl. total emissions

 Page 5
 2020
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 Source: EIA International Energy Outlook 2019

#### Today, five global megatrends driving the economy and changes in SIEMENS the energy sector



#### Our most advanced technologies help reduce emissions and save costs in multiple applications





- USC: most efficient and cleanest choice for coal power
- Jawa 9/10: 41.28% efficiency at 2 x 1000 MW output
- 30% less emissions and coal consumption
- Annual savings: ~3.1 Mt of CO<sub>2</sub> and ~1.7 Mt of coal\*
- HL-class: most efficient and cleanest choice for gas power



- SGT5-9000 HL: >63% efficiency at 567 MW output
- 26% less emissions and gas consumption\*\*
- Annual savings: ~0.51 Mt of CO<sub>2</sub> and ~0.163 Mtpa of LNG for 850 MW

<sup>\*</sup> compared to old CCGT plants with 50% efficiency

Page 7

#### Hydrogen<sup>1</sup> provides a scalable mid- and long-term storage option to align seasonal power production with the demand side





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& derived chemicals such as Ammonia, Methanol or others; <sup>2</sup> Compressed Air Energy Storage; <sup>3</sup> Li-Ion, NaS, Lead Acid, etc.



# Your future built on



Backlog Orders Revenues ~€70 bn ~€30 bn ~€27bn

Figures FY2018 pro forma, the portfolio additions announced in the Q42019 results are not reflected

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Page 9 September 2019



# Have a good evening!

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