



**SIEMENS**

**Public Privat Partnership Conference  
Workshop 1 - Electricity  
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Middle East, Africa, Asia, Pacific**

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Energy Sector

# Energy supply in the future will place major challenges on the infrastructure

## Three global megatrends in the energy sector

### Demographic dynamics



- **Population growth:**  
7.5 bn in 2020 (+1.1 bn)
- **Power consumption:**  
> 40% increase worldwide by 2030  
~ 2/3 of demand created by Emerging countries
- **Megacities (>10 million):**  
22 new megacities in 2015

### Resource scarcity



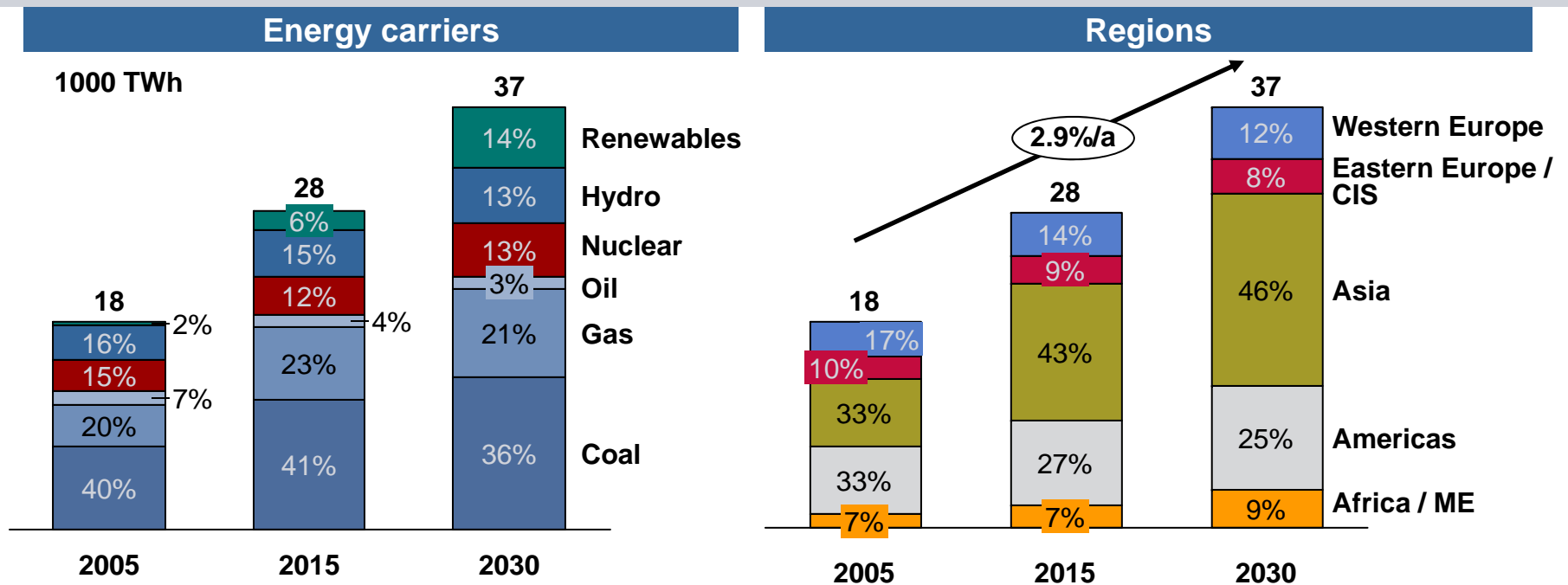
- **Geopolitics:**  
70% of world oil and gas supplies only in a few countries
- **Fuel diversity:**  
awareness of limited oil resources accelerates shift to broader fuel mix

### Environmental focus



- **Global emissions:**  
40% increase in air pollution over past 20 years
- **Climate change:**  
Global warming limited to an average increase of 2 degrees Celsius

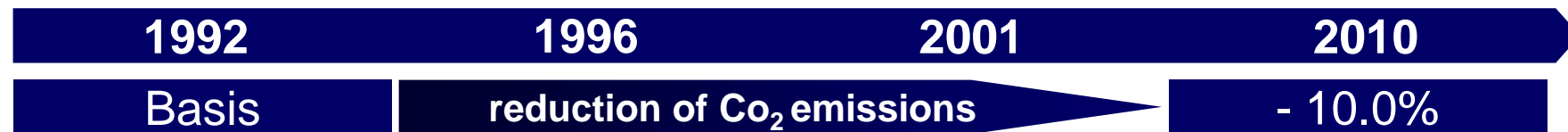
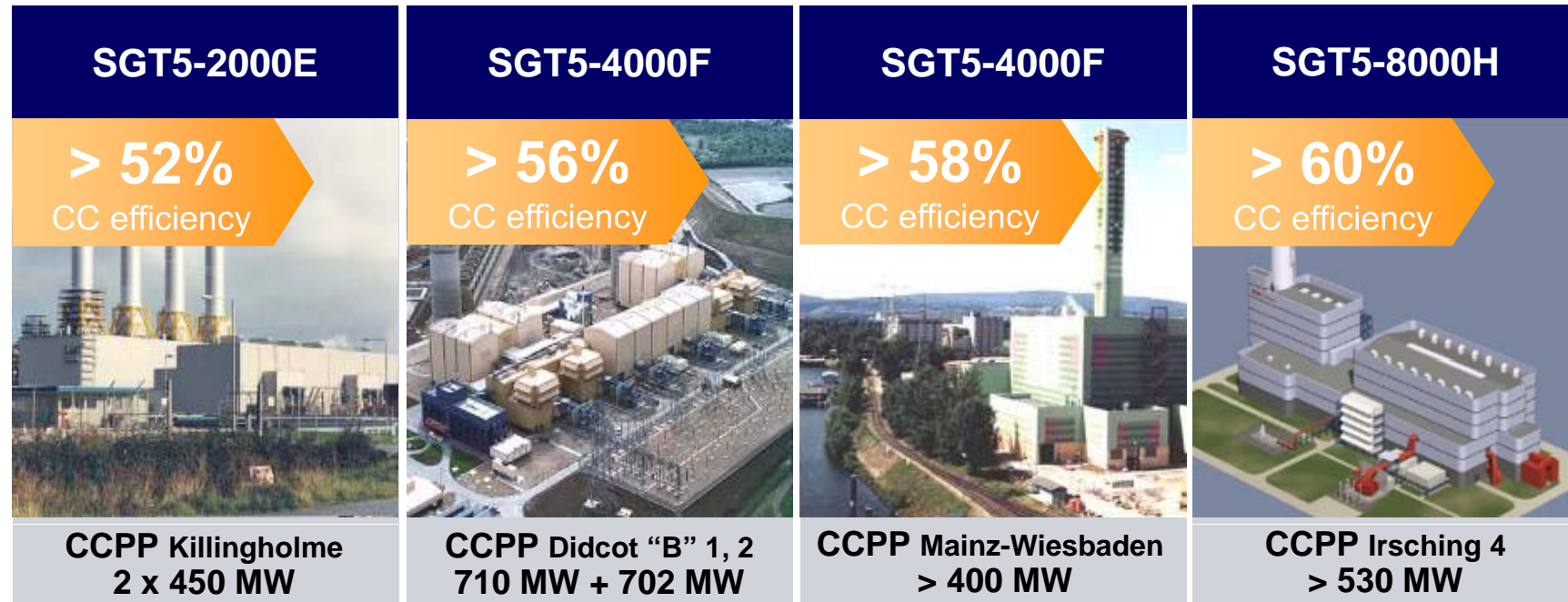
# Expected world electricity generation development



- The worldwide demand for electricity will continue to grow despite the ongoing recession.
- World electricity generation is expected to nearly double in 25 years.
- Fossil power generation will grow stable, further growth of market share from 2015 on will be overtaken by additional installations of renewable power generation.

# E F Energy Solutions Portfolio –

## Siemens combined cycle power plants: Development of efficiency



**Innovation is driving efficiency development and environmental friendliness**

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# Locations of Siemens Power Plants in Syria



**Zayzoun**  
CC Extension 170 MW  
PAC 2008



**Al Nasserieh**  
CC Extension 160 MW  
PAC 2008

**Deir Ali**                      **CCPP**  
2+1                      700 MW PAC  
2009



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**Thank you for your  
attention!**

Ayed Fattah

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