Prices of Energy and European Energy Strategy

Presentation – at the Roundtable Discussion «Energy Policy and Economic Development of the EU», KAS, Zagreb, 30 May 2017





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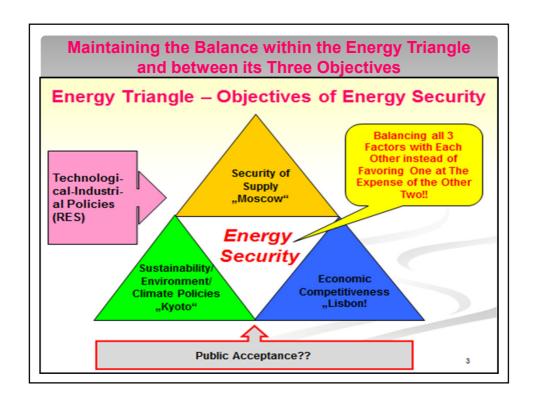
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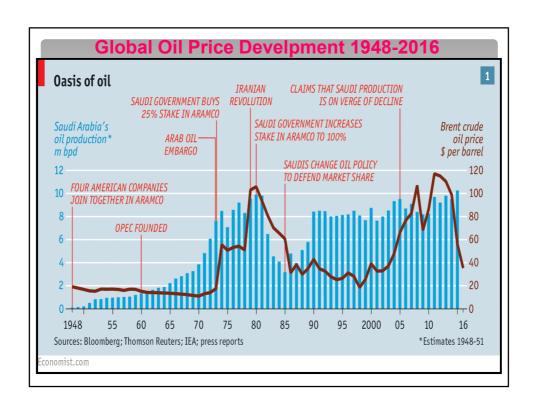
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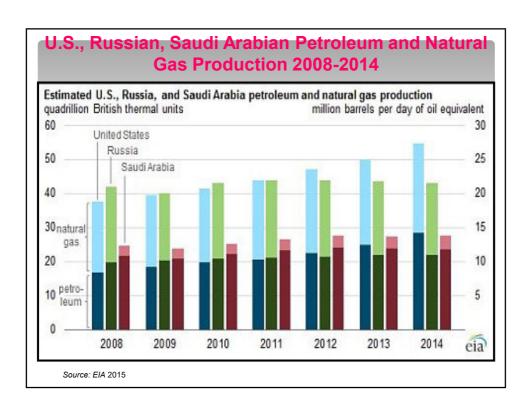
- Energy Prices and EU Energy Strategy:
 - Impacts on Energy Supply Security and Economic competitiveness in short-, medium- and longer-term perspective;
 - Decline of global oil and gas prices: structural factors, not traditionally volatile developments;
 - 2. U.S. shale oil and shale gas revolution:
 - manufactory revival millions of new jobs;
 - Strengthening global competitiveness of U.S: industry and companies for decades ahead:
 - 3. Decarbonization: fossil fuel (subsidies) vs. RES (subsidies) cost devel.
 - 4. EU-Energy Security Strategy:
 - Balancing the three objectives of the "energy trilemma";
 - Coal vs. gas
 - 5. Lesson of German Energiewende:
 - creating two parallel energy systems, which ultimately need to be subsidized both;
 - Blueprint for other countries and the rest of the world?
 - > Feed-in tariff system replicated in China and other countries

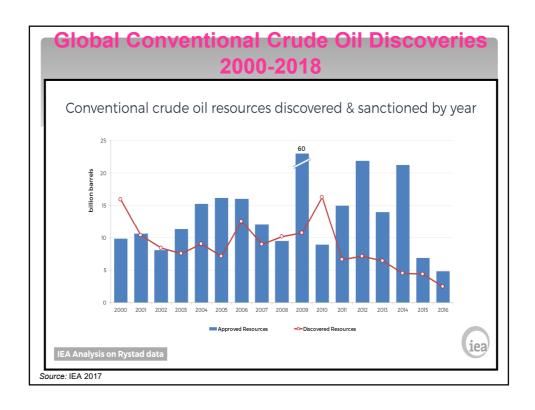


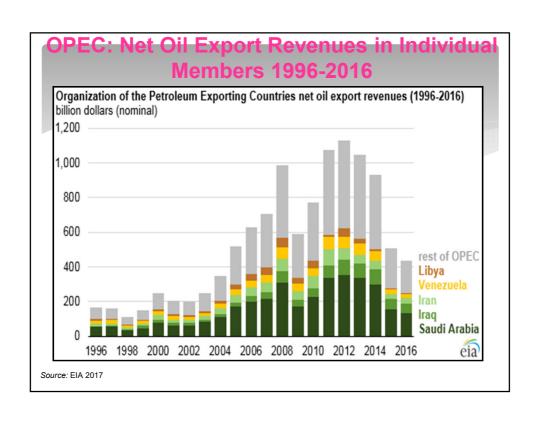


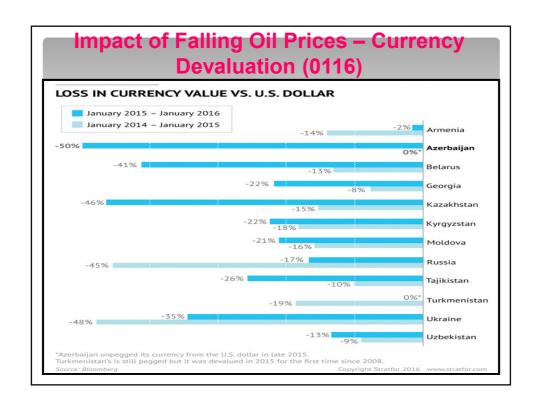
Introduction

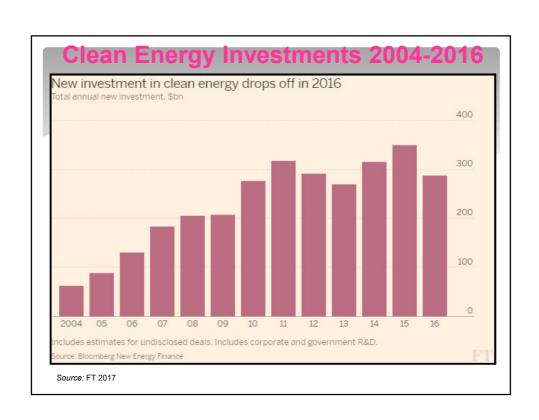
- Dramatic fall of oil prices between summer 2014 and January 2016: -70% (from US\$115 to <US\$30);
- Historical lesson of the mid-1980s:
 - Fuelled the collapse of the Soviet Union and its socialist empire;
- "peak oil" and "resource scarcity" assumptions outdated;
- Perspective 2040/50 and Core Argument: As long as fossil fuels will
 dominate the world's energy mix, oil supply and prices will remain critical
 for geopolitical shifts and sustainable stability of the world economy;
- Global energy supply security: not guaranteed without political stability in oil and gas producing countries – also depending on prices.
- Long-term trend and strategic objective: decarbonization of the world energy system:
 - Paris COP21 global change summit 12/2015;
 - Worldwide anti-fossil disinvestment movement;
 - 2012-2014: "green funds" outperformed "black funds";
 - But: ongoing state subsidies to fossil fuels some US\$550 billion in 2013.

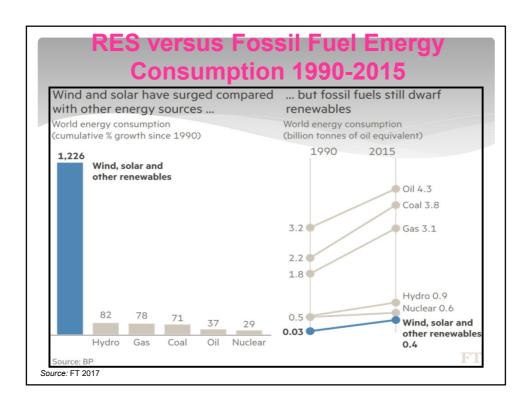


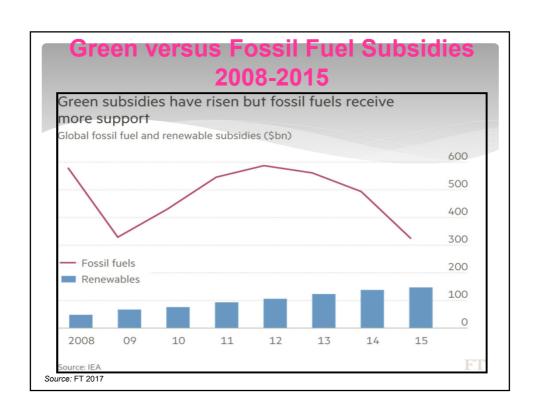


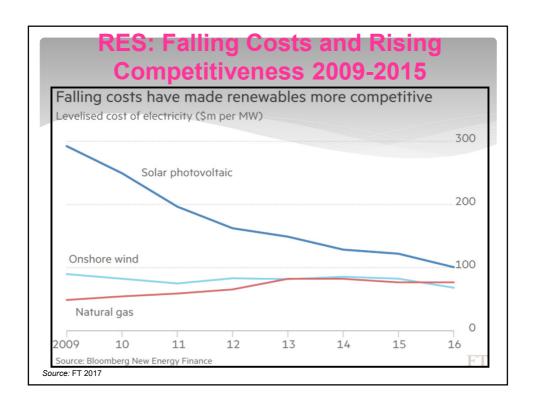


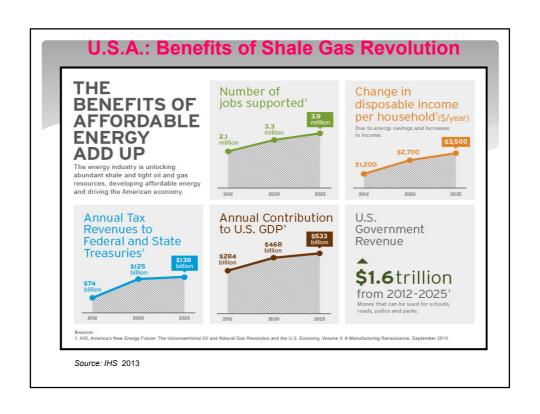


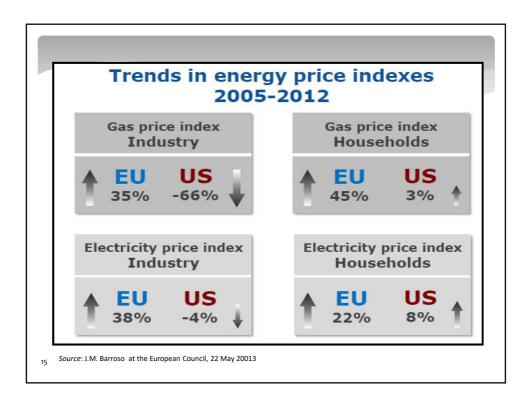


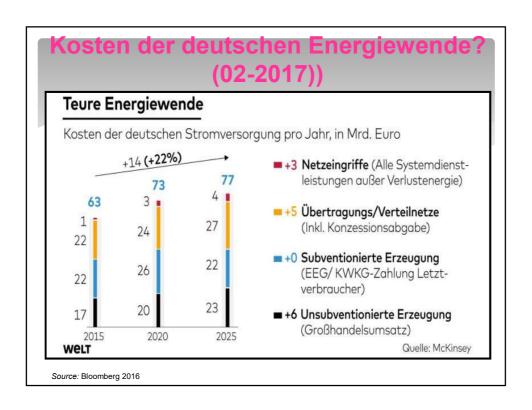




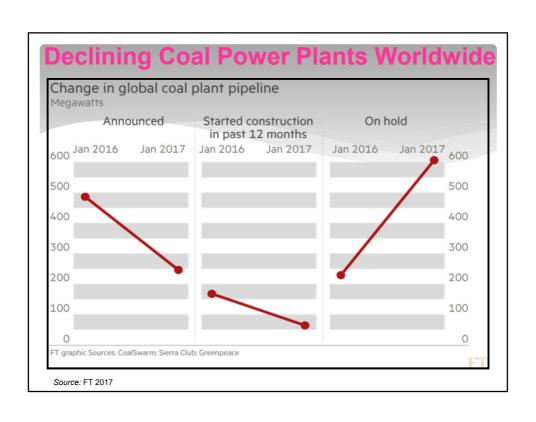


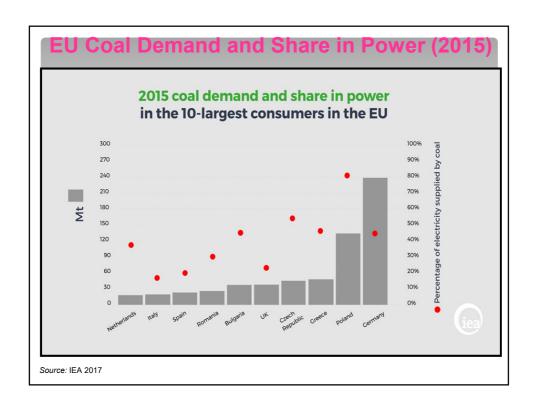


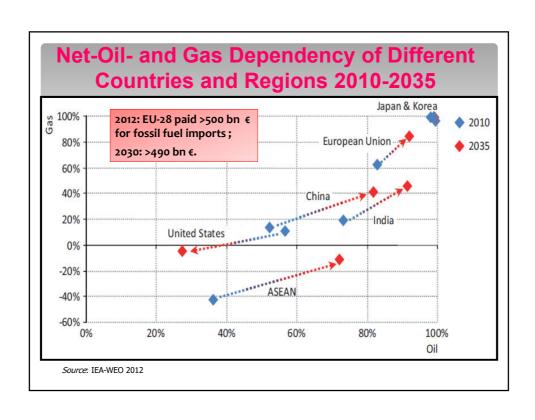


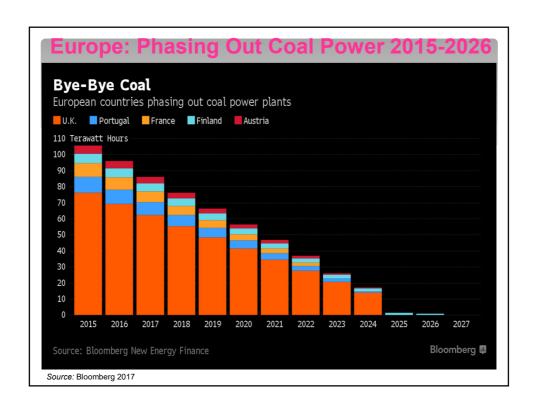


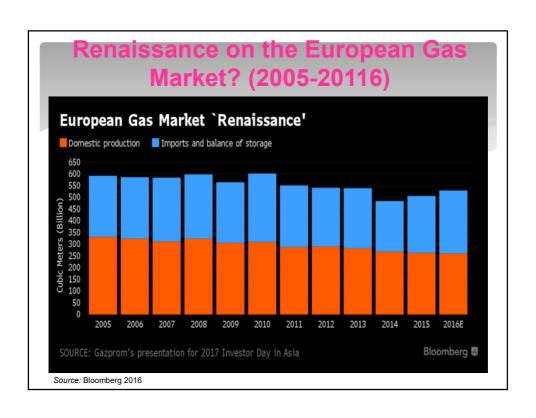


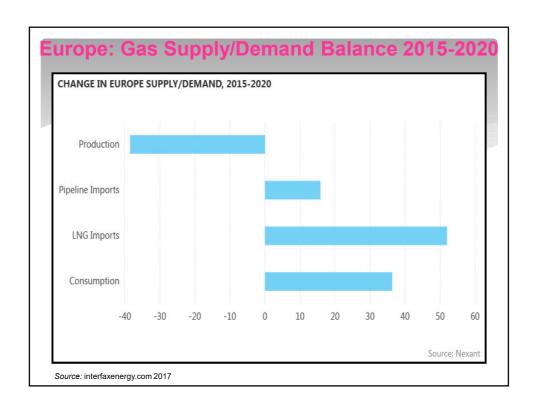


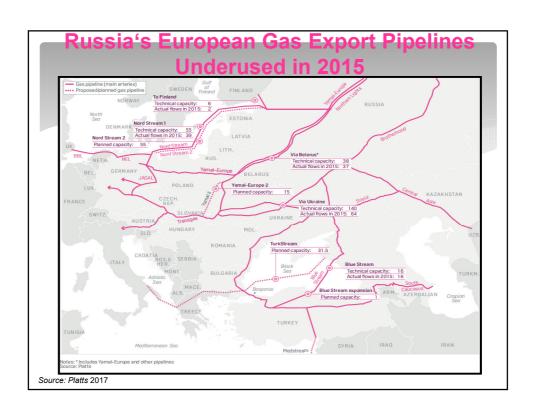


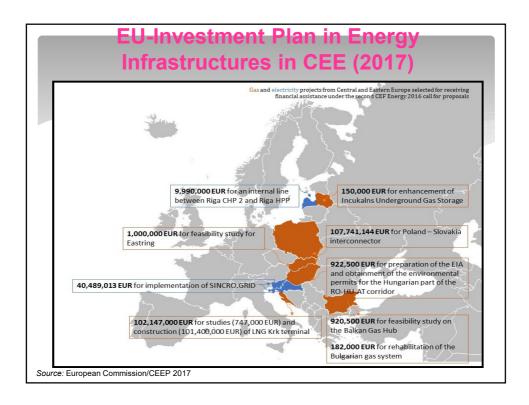












Conclusions and Perspectives

- 1. Energy and Energy Prices will remain a driver of geopolitical conflicts
- Oil price development and its direct impacts on state budgets and politicaleconomic stability of major producer countries (i.e. Russia, U.S., Iran, Venezuela, Australia et.al.) in the light of a worldwide oil, gas and coal oversupplies.
- 3. Lesson of the *German Energiewende*: Expansion of RES leads to two operating energy systems in parallel, creating to new energy supply risks and costly subsidies.

4. EU-Energy Strategy:

- > Balancing the three objectives of the "energy trilemma";
- > Decarbonization: phase out of coal? (coal vs. gas)

5. Looking Ahead:

- 1. Increasing interdependencies between *Energy Supply Security* and *Raw Material Supply Security* (i.e. rare earths etc.) as the result of the expan-sion of RES and other green technologies (impact: price increases).
- Electricity supply security (in context of cyber threats to CIs and increasing black-out risks) is becoming at least or even more as important as tradi-tional oil and gas supply security.

Thank you very much for your attention!

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