



Dr. Birgit Wetzel, Reform Group Meeting, Salzburg, October 14-18, 2019

Potential for Renewable Energy

in Central Asia

What is ahead

- ❖ The region
- ❖ The countries, geography and politics
- ❖ Energy potential



The BRI leads through Central Asia



Countries in Central Asia

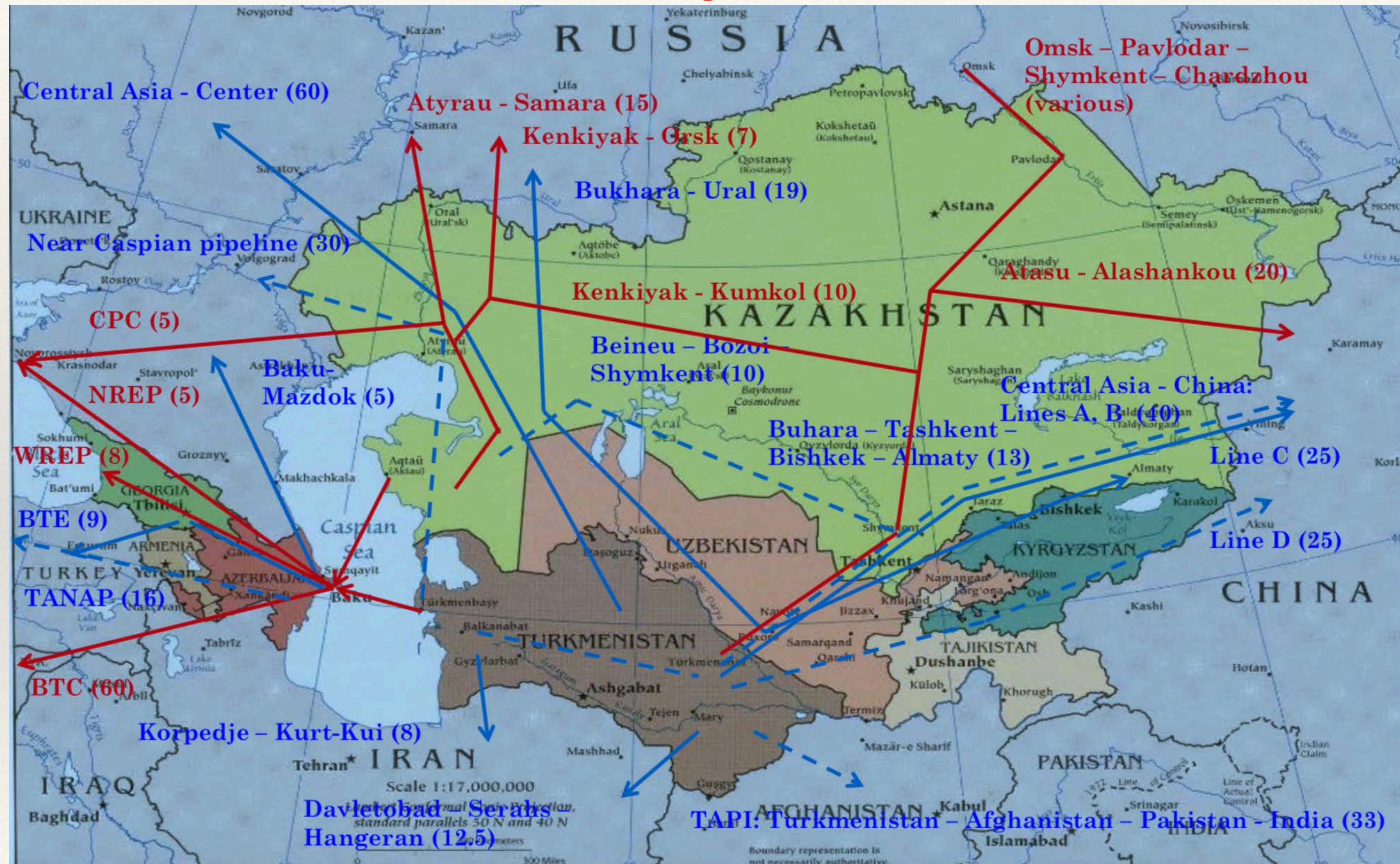
- ❖ Uzbekistan - „the population giant“
- ❖ Kazakhstan - „the land giant“
- ❖ Turkmenistan - „the gas giant“
- ❖ Kirgistan
- ❖ Tadjikistan
- ❖ (Afghanistan)

Central Asia is rich with energy resources

- ❖ ...is rich with energy resources:
- ❖ Oil, gas - and uranium!
- ❖ Sun and Wind!
- ❖ Water! ... in two countries

Central Asia exports

Carbohydrates



Renewable Energy offers great Chances for C.A.

- ❖ Central Asia has an enormous potential for renewable energy
- ❖ Also, and therefore, it has a good potential for an independent economic and political development
- ❖ The question is how to develop its potential!



RUSSIA

Turgay Valley

Irtys

Altai Mountains

Caspian Depression

Volga

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Kazak Uplands

Lake Balkhash

KAZAKHSTAN

Aral Sea

Syr Darya

Ustyurt Plateau

Caspian Sea

Kyzylkum Desert

Turan Lowland

UZBEKISTAN

TURKMENISTAN

KYRGYZSTAN

Tarim

Tian Shan

CHINA

Pamirs

TAJIKISTAN

Amu Darya

AFGHANISTAN

IRAN

Uzbekistan has great potential for growth

Kazakhstan needs connectivity

Turkmenistan has vast amounts of gas

Kirgistan has plenty of water

Tajikistan has plenty of water, but a difficult
neighbor

Energy transition meets multiple barriers

- ❖ There is a large potential, but not much has been done in the past years
- ❖ The slow progress is a result of multiple barriers:

Obstacles for Energy Transformation:

- Inherited old monopolistic and centralized structures, a Soviet legacy.
- Maybe close ties between government officials and energy business structures
- Subsidies for fossil fuels and nuclear energy
....creating artificial low prices
- Lack of technical equipment (open the window in winter.....)
- Lack of awareness!



Forecast: Prices for Renewable Technology

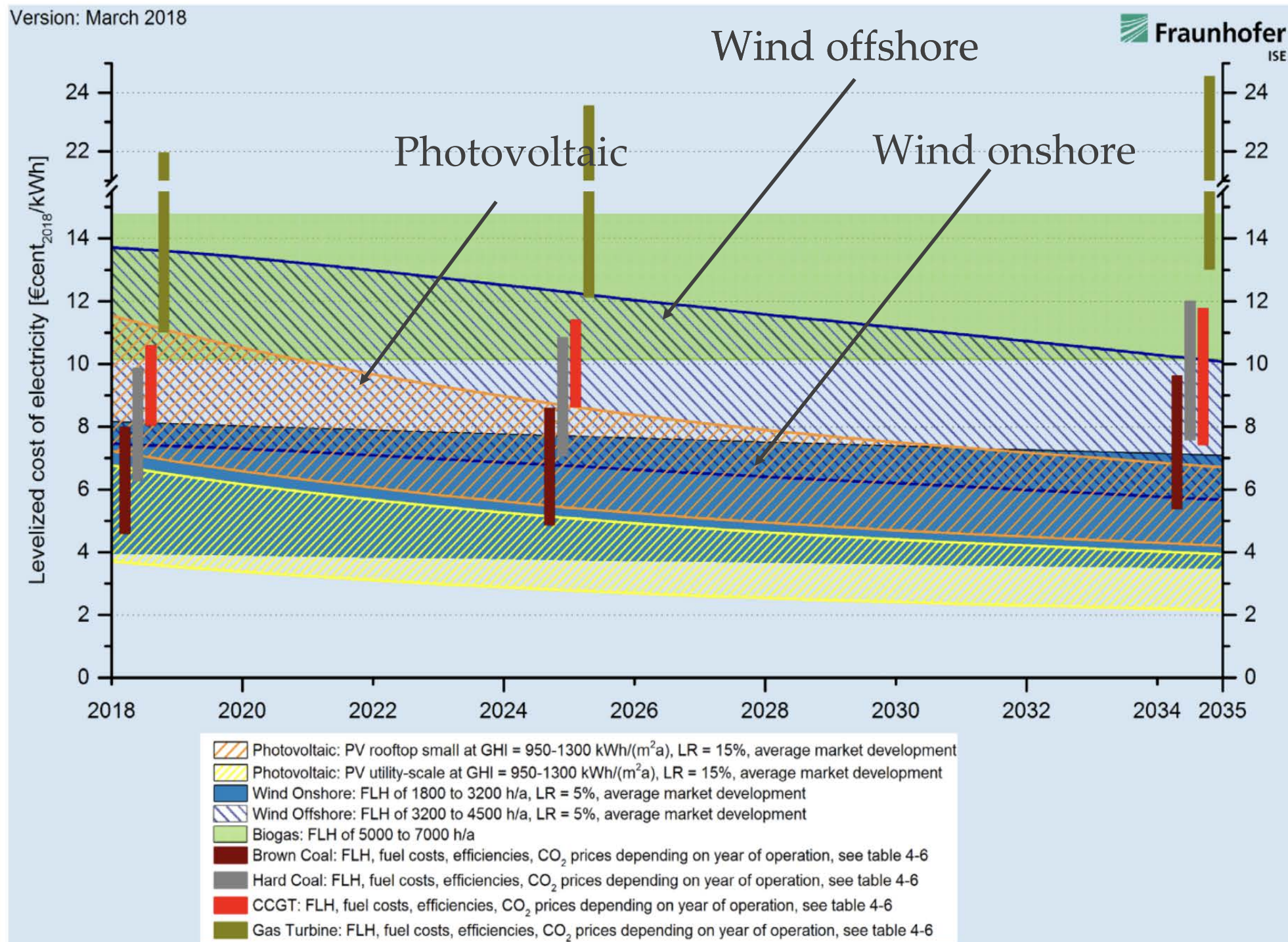


Figure 16: Forecast for the development of LCOE of renewable energy technologies as well as conventional power plants in Germany by 2035.

Renewable Energy is highly relevant for Central Asia

- ❖ Renewable Energy is highly relevant for Central Asia
- ❖ Energy is a top priority for the emerging economies
- ❖ Energy security and energy independence must be a top priority

Recent developments open up new opportunities

- ❖ Regional cooperation started November 12, 2017 at the conference of Samarkand
- ❖ EU as consultant

What are the best moves now?



Thank you!

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