

Renewable Energy in Central Asia

Hanno Schaumburg/ Dr. Birgit Wetzel
Burghausen, 28.August 2020



R U S S I A

BELARUS

UKRAINE

KAZAKHSTAN

GEORGIA

ARMENIA

AZERBAIJAN

TURKEY

UZBEKISTAN

KYRGYZSTAN

CHINA

TURKMENISTAN

TAJIKISTAN

SYRIA

IRAQ

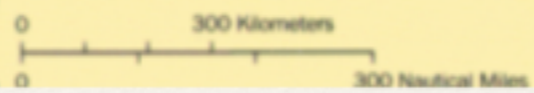
IRAN

AFGHANISTAN

PAKISTAN

INDIA

Scale 1:19,000,000
Lambert Conformal Conic Projection,
standard parallels 47°N and 62°N



Boundary representation is



RUSSIA

Turgay Valley

Irtys

Altai Mountains

Caspian Depression

Volga

WWW.FREEWORLDMAPS.NET

Kazak Uplands

Lake Balkhash

KAZAKHSTAN

Aral Sea

Syr Darya

Kyzylkum Desert

Ustyurt Plateau

Caspian Sea

Turan Lowland

KYRGYZSTAN

Tarim

UZBEKISTAN

Tian Shan

CHINA

TURKMENISTAN

Pamirs

TAJIKISTAN

Amu Darya

IRAN

AFGHANISTAN

Governments across Central Asia
are looking above ground,
rather than below it,
for the resources that will power the region's
future.

Uzbekistan and Tajikistan - two countries where solar and wind are better represented in power generation, at a dismal 3%.

About 1% of **Kazakhstan's** power generation capacity comes from these resources, while

Turkmenistan and Kyrgyzstan are still struggling with these technologies.

Energy Transition in Central Asia?

So far, more talk than action

Bureaucracy and structures
make implementation difficult,
while highly-subsidized energy tariffs
render most renewable projects
commercially unviable
without the help of state funding.

However, if the ambitious goals set
by these countries
for renewables
in the energy matrix and
a reduction of CO2 emissions are to be fulfilled,
a lot more needs to be done.

Kazakhstan set the target of 50% by 2050!

There is a rich potential,
but not much has been done in the past years.

The slow progress is a result of multiple barriers:

- Inherited old monopolistic, 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!

1. What can be done to develop the energy potential?
2. What can be done to foster and implement sustainable and profitable energy ...and to attract local & foreign investments?

What is needed most: MONEY & Investors

- The situation in
- Uzbekistan
- Kazakhstan
- Turkmenistan
- Kyrgyzstan
- Tadjikiistan



RUSSIA

Turgay Valley

Irtys

Altai Mountains

Caspian Depression

Volga

WWW.FREEWORLDMAPS.NET

Kazak Uplands

Lake Balkhash

KAZAKHSTAN

Aral Sea

Ustyurt Plateau

Caspian Sea

Syr Darya

Kyzylkum Desert

Turan Lowland

KYRGYZSTAN

Tarim

UZBEKISTAN

Tian Shan

TURKMENISTAN

CHINA

Pamirs

TAJIKISTAN

Amu Darya

IRAN

AFGHANISTAN

Thank you for your Interest in Renewable Energy in Central Asia

- Birgit Wetzel - mail@birgitwetzels.de - www.birgitwetzels.de