

Regional Workshop on Renewable Energy in Central Asia

26 – 27 April 2017

IRENA Headquarters, Abu Dhabi, UAE

Tracking Progress of Renewable Energy Targets in Central Asia: Achieving SDG7

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UNITED NATIONS

Economic and Social Commission for Asia and the Pacific

53 member States

9 associate members



UNITED NATIONS
ESCAP

Economic and Social Commission for Asia and the Pacific



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS

7 AFFORDABLE & CLEAN ENERGY

Ensure access to affordable, reliable, sustainable and modern energy for all



TARGETS INDICATORS

7.1 By 2030, ensure universal access to affordable, reliable and modern energy services

7.1.1 Proportion of population with access to electricity

7.1.2 Proportion of population with primary reliance on clean fuels and technology

7.2 By 2030, increase substantially the share of renewable energy in the global energy mix

7.2.1 Renewable energy share in the total final energy consumption

7.3 By 2030, double the global rate of improvement in energy efficiency

7.3.1 Energy intensity measured in terms of primary energy and GDP

7.A By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology

7.A.1 Mobilized amount of United States dollars per year starting in 2020 accountable towards the \$100 billion commitment

7.B By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support

7.B.1 Investments in energy efficiency as a percentage of GDP and the amount of foreign direct investment in financial transfer for infrastructure and technology to sustainable development services

GTF

Global Tracking Framework Report

3 RENEWABLE ENERGY

	Share in total final energy consumption (%)													Final use of renewable energy (petajoules)			Total final energy consumption (petajoules)
	Solid biofuels												Electricity	Heat	Transport		
	Renewable energy				Traditional use	Modern use	Liquid biofuels	Wind	Solar	Geothermal	Other (biogas, renewable waste, marine)						
1990	2010	2012	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	2014	
Azerbaijan ^b	0.72	4.45	2.85	2.12	0.74	0.34	0.97	0.00	0.00	0.00	0.00	0.00	0.06	3.43	3.56	0.01	330.64
Kazakhstan ^b	1.41	1.38	1.33	1.36	0.06	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00	19.54	0.92	0.00	1,501.79
Kyrgyzstan ^b	7.93	25.59	22.45	28.25	0.08	0.01	28.16	0.00	0.00	0.00	0.00	0.00	0.00	36.09	0.12	0.00	128.18
Tajikistan ^b	29.64	61.84	56.07	40.71	0.00	0.00	40.71	0.00	0.00	0.00	0.00	0.00	0.00	42.91	0.00	0.00	105.40
Turkmenistan ^b	0.28	0.07	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	746.40
Uzbekistan ^b	1.33	2.64	2.38	2.90	0.00	0.01	2.88	0.00	0.00	0.00	0.00	0.00	0.00	35.26	0.17	0.00	1,223.02

COORDINATORS



Azerbaijan



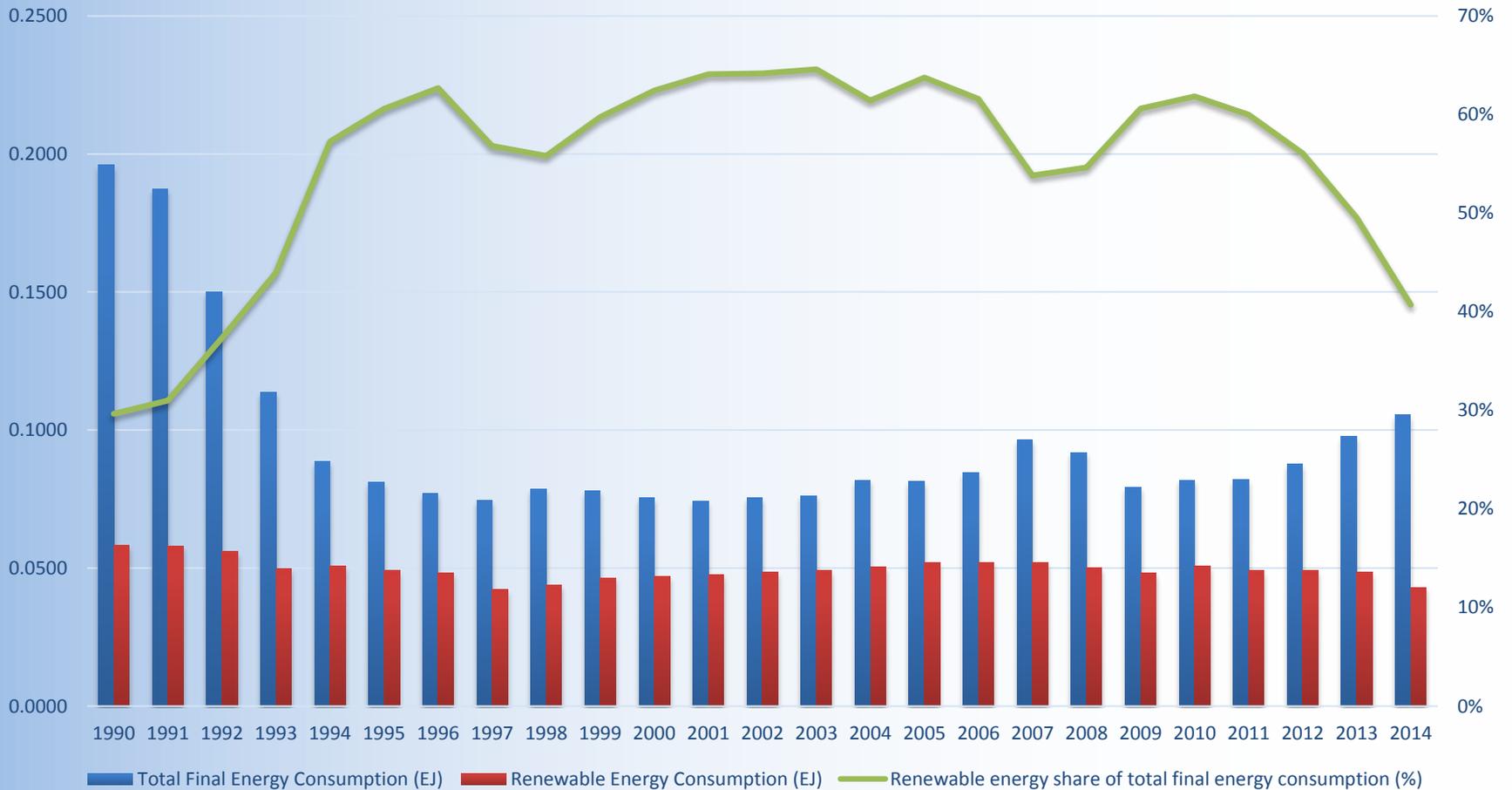
Kazakhstan



Kyrgyzstan



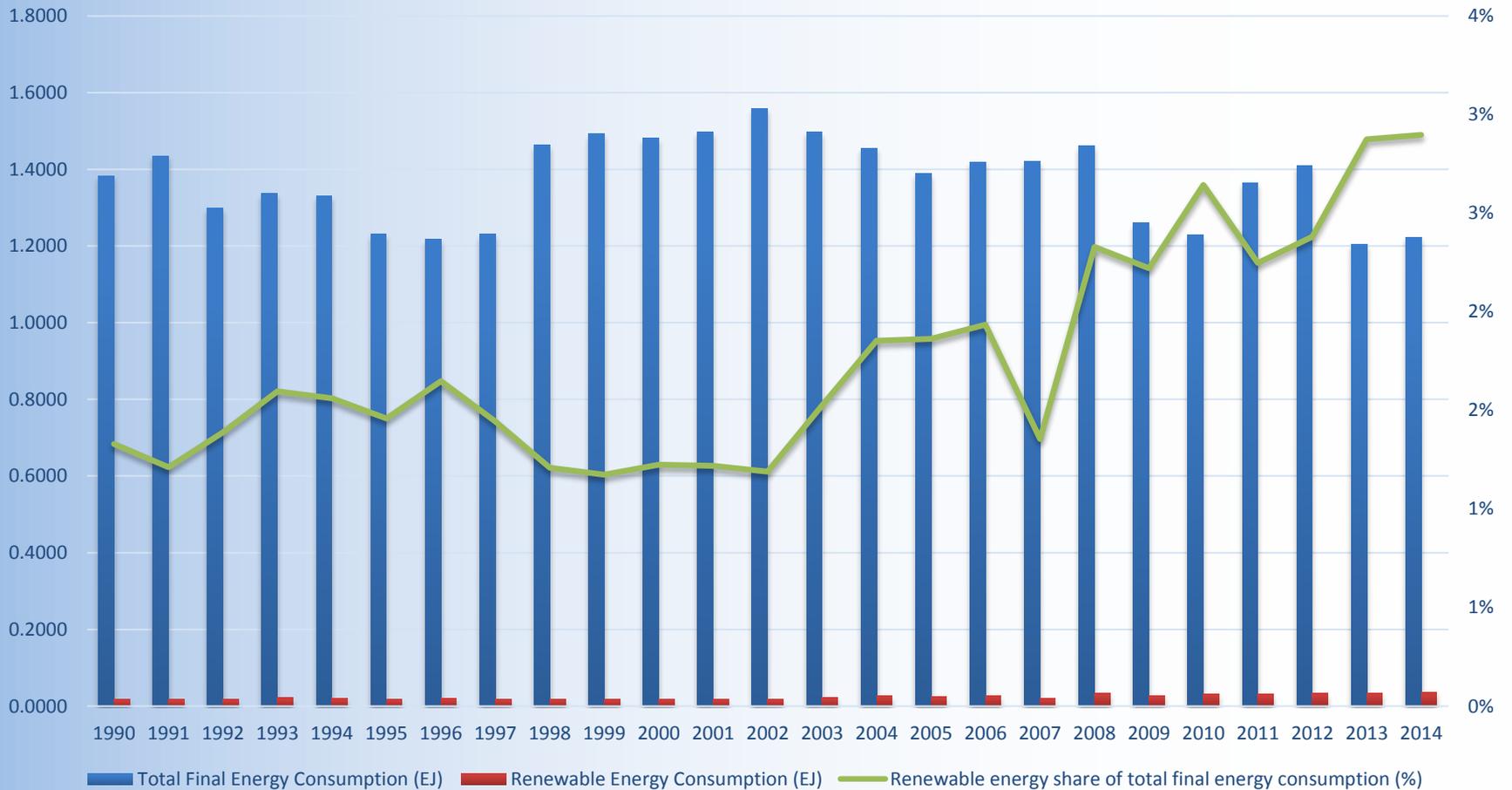
Tajikistan



Turkmenistan

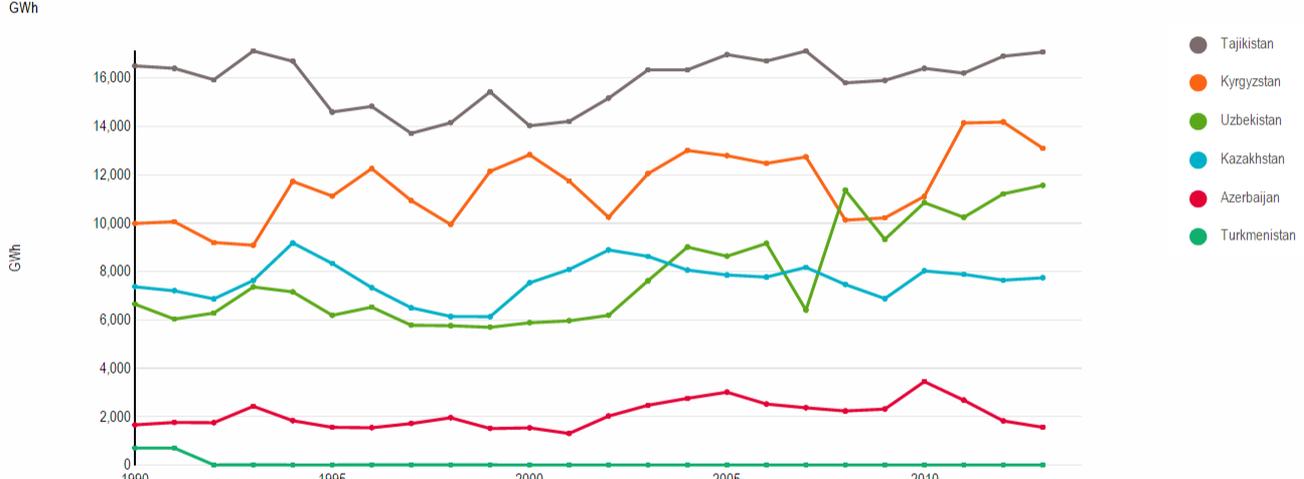


Uzbekistan



- Energy Supply & Use
- Access
- Efficiency
- Renewables
 - Renewable Energy Production
 - Renewable Electricity Output
 - Total
 - by Resource
 - Hydro
 - Wind
 - Solar PV and thermal
 - Geothermal
 - Tide, wave and ocean
 - Waste
 - Solid Biofuel
 - Liquid Biofuel
 - Biogases
 - Renewable Installed Capacity

Total Renewable Electricity Generation, 1990-2014



Source : International Energy Agency (IEA), Renewables Information Statistics

1990 : 2014

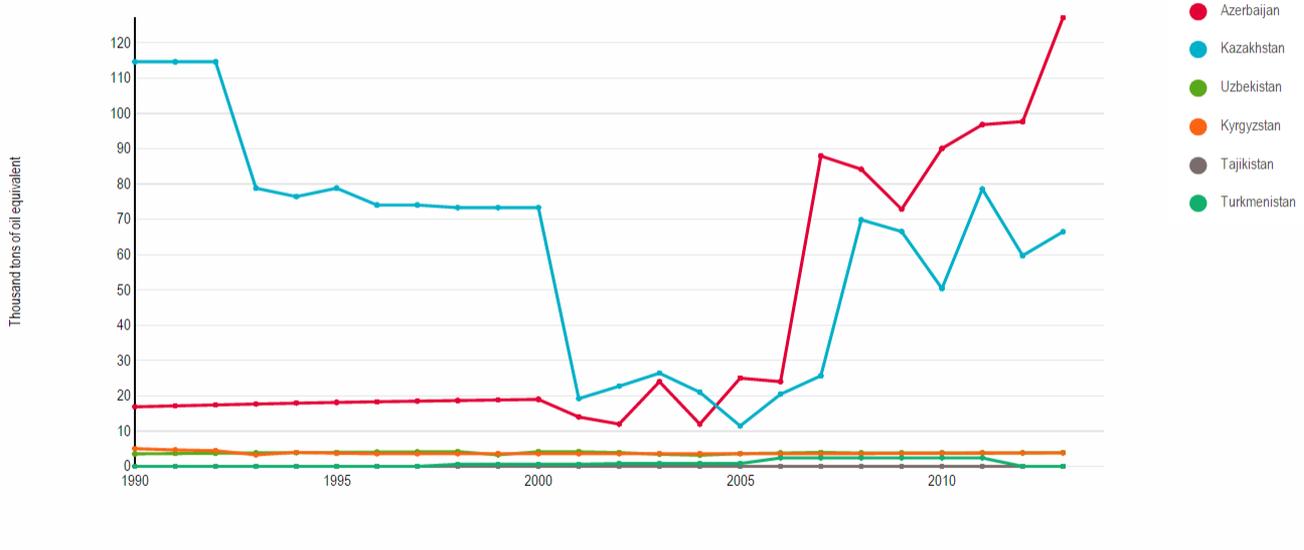
Reset

- Energy Supply & Use
- Access
- Efficiency
- Renewables
 - Renewable Energy Production
 - Total
 - Excluding Hydro
 - by Resource
 - Hydro
 - Wind (includes tide, wave, ocean)
 - Solar
 - Geothermal
 - Biofuels and Waste
 - Liquid Biofuels
 - Solid Biofuel
 - Renewable Electricity Output
 - Total
 - by Resource
 - Hydro

Renewable Energy Production Excl. Hydro, 1990-2014

Thousand tons of oil equivalent

Show no data Max to Min



Source : ESCAP based on data from the International Energy Agency (IEA), Renewables Information Statistics

1990 : 2014

Reset

- Filters
- Draft
 - Scope
 - Document Type
 - Economic Sector

Country: AZE,KGZ,KAZ,UZB,TKM,TJK Effective date in: 1990-2017

DOCUMENT SEARCH

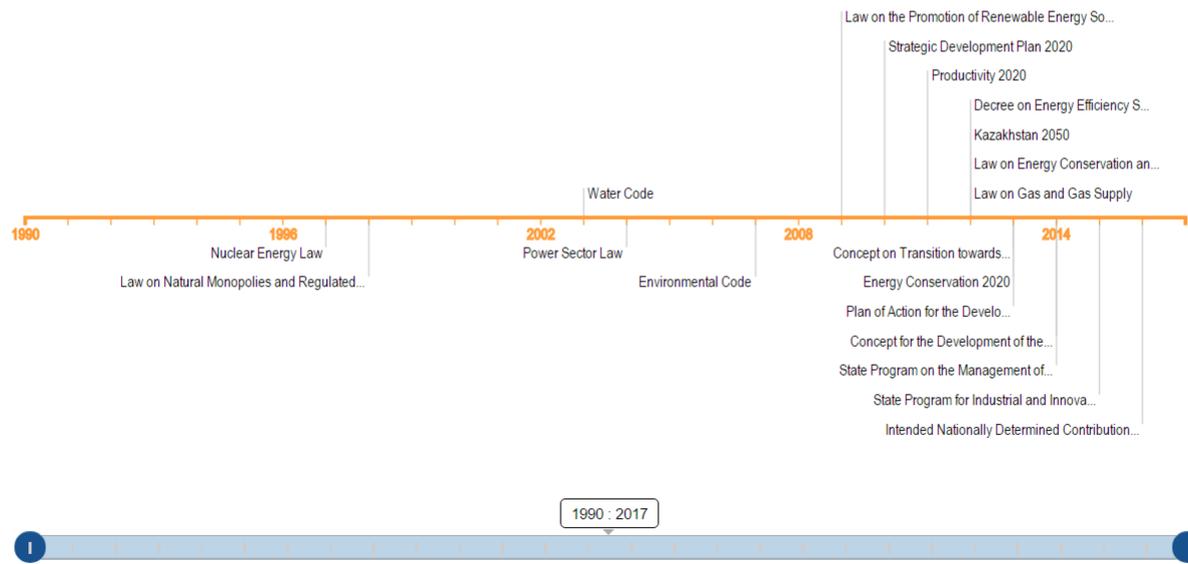
Renewable title content

Search found 64 items

Title	Effective Start Year	Effective End Year	Agency
<p>AZERBAIJAN: State Program on the Use of Alternative and Renewable Energy</p> <p>... Alternative and Renewable Energy Sources in the Republic of Azerbaijan Introduction Because of gradual ... developed countries widely use environmentally sound alternative (renewable) energy sources (solar and wind ... Japan and China have leading positions in this area. According to statistics, renewable energy sources ... Wind power has much importance among renewable energy sources. Germany holds the leadership in the</p>	2004		Office of the President of the Republic of Azerbaijan
<p>TAJIKISTAN: Targeted Comprehensive Program on Extensive Use of Renewable Energy Sources, 2007-2015</p> <p>... renewable energy. Art. 2. The Program focuses on capacity-related challenges, underscores the need for ... leveraging existing infrastructure to support accelerated deployment of renewable energy.---The policy lays ... the ground for increasing the uptake of renewable electricity and thermal power generation, biomass ... the Use of Renewable Energy Sources, 2007-2015.doc Solar, wind, hydropower, geothermal and biomass</p>	2007	2015	Government of the Republic of Tajikistan
<p>KYRGYZSTAN: Law on Renewable Energy</p> <p>... the Republic of Kyrgyzstan on Renewable Sources of Energy.doc Law on Renewable Energy is the principle ... policy for governing renewable energy sector of the Republic of Kyrgyzstan. The present Law is adopted by ... the Parliament to pursue policies for meeting binding targets of renewable energy sources (RES) ... energy statistics systems, monitoring and analysis.-- Article 3 of the Law defines the term renewable</p>	2008		Parliament of the Republic of Kyrgyzstan
<p>KAZAKHSTAN: Concept on Transition towards Green Economy until 2050</p> <p>... and renewable energy are a priority, adapting to climate change and addressing the challenges ... baseline. The Concept aims to broaden the deployment of renewable energy sources to reduce carbon intensity ... of growth. Share of renewable energy sources in electricity generation to reach 50 per</p>	2013	2050	Office of the President of the Republic of Kazakhstan

- Hong Kong, China*
- India
- Indonesia
- Iran (Islamic Rep. of)
- Japan
- Kazakhstan
- Kiribati
- Kyrgyzstan
- Lao PDR
- Macao, China*
- Malaysia
- Maldives
- Marshall Islands
- Micronesia (F.S.)
- Mongolia
- Myanmar
- Nauru

Kazakhstan Energy Policy and Regulation, 1990-2017



1990 : 2017

Reset

Search icons: magnifying glass, grid, and a cluster of dots.

Windows taskbar with icons for Start, Search, File Explorer, Settings, Edge, Word, PDF, PowerPoint, Outlook, Calendar, Mail, WhatsApp, Telegram, Skype, Excel, PowerPoint, and System tray (15:20, 26-Apr-17).

Search Infrastructure...

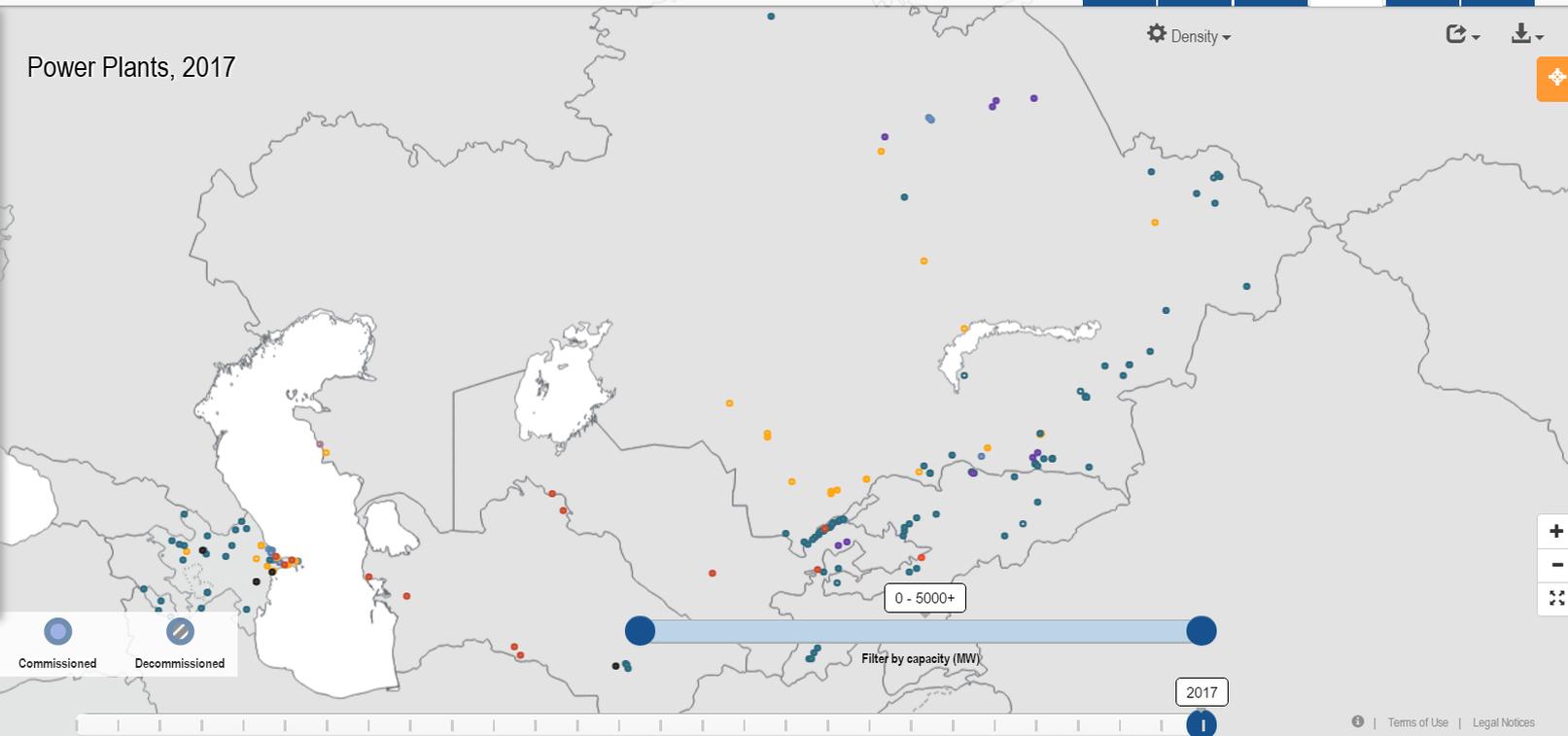
Power Plants, 2017

Infrastructure

Power Plants

- Coal 10
- Gas 16
- Petroleum 6
- Nuclear 1
- Hydro 117
- Wind 16
- Solar 27
- Geothermal 0
- Biomass 0
- Marine 0

Announced Under Construction Commissioned Decommissioned



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Search Infrastructure...

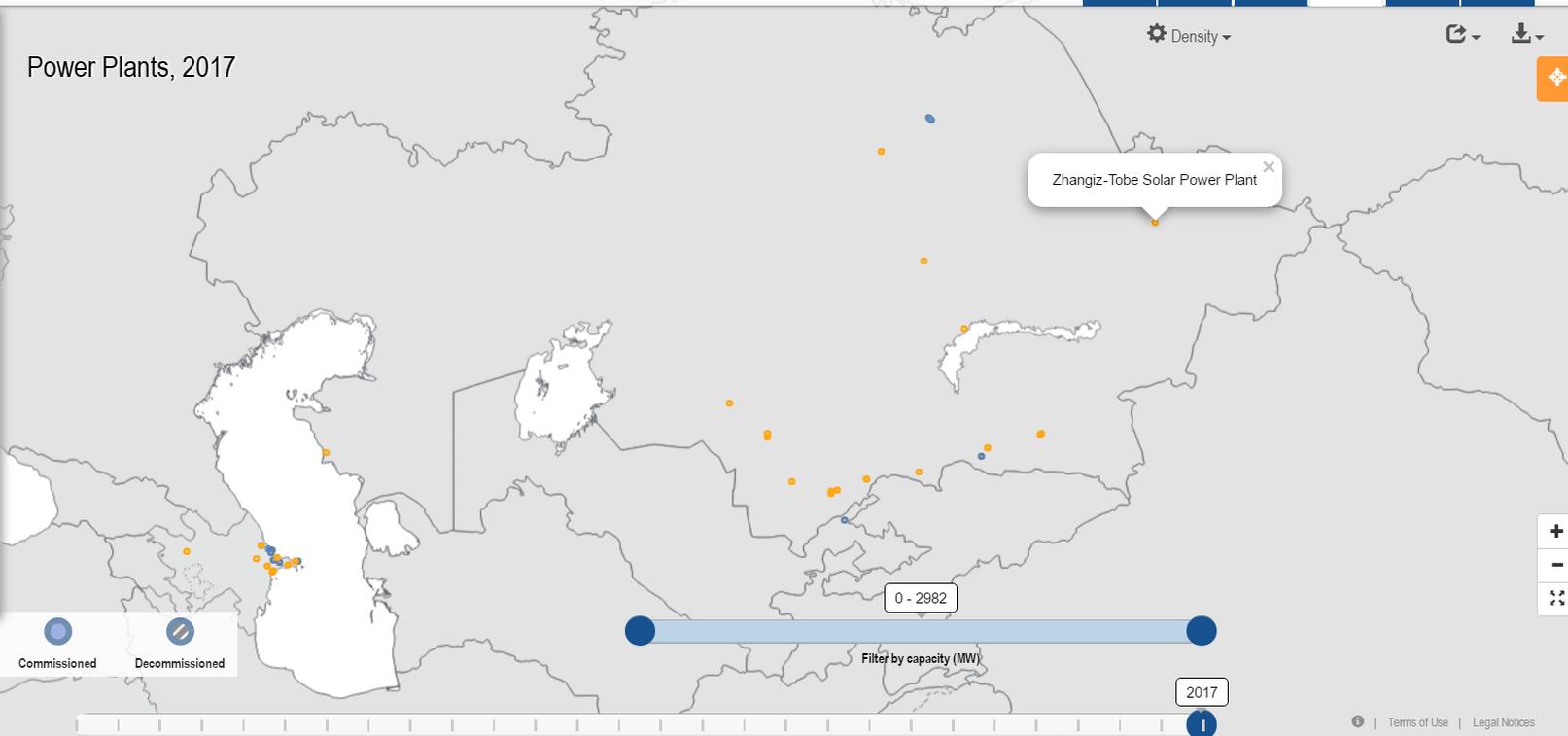
Power Plants, 2017

Infrastructure

Power Plants

- Coal
- Gas
- Petroleum
- Nuclear
- Hydro
- Wind 16
- Solar 27
- Geothermal 0
- Biomass 0
- Marine 0

- Announced
- Under Construction
- Commissioned
- Decommissioned



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THANK YOU