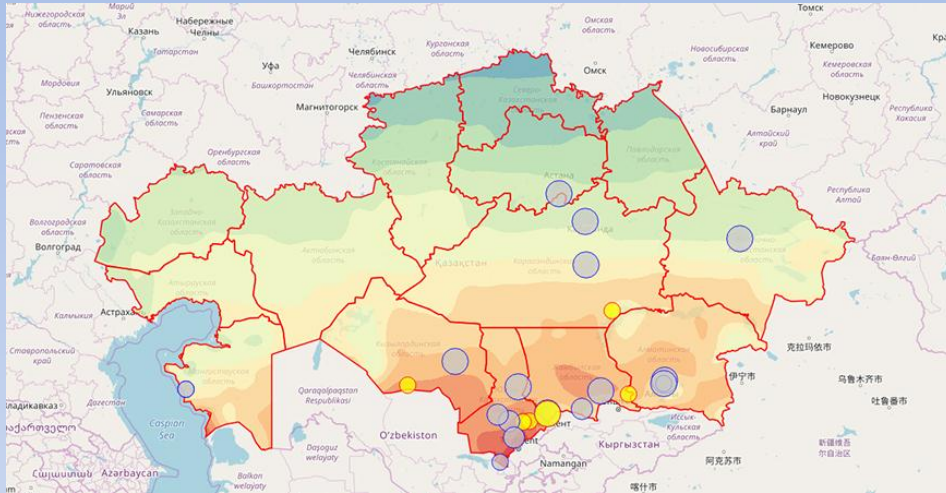




# **RENEWABLE ENERGY IN THE REPUBLIC OF KAZAKHSTAN**

Baku, Azerbaijan  
17<sup>th</sup> of October, 2018

# Kazakhstan Renewable Energy Resources Atlases



## Solar Atlas

The Atlas of Solar Resources of Kazakhstan has been created within the framework of the Project of Kazakhstan's Ministry of Energy and United Nations Development Program "Providing Assistance to the Government of Republic of Kazakhstan to Implement the Green Economy Transition Concept of Republic of Kazakhstan and Institutionalize the Green Bridge Partnership Programme"



## Wind Atlas

The Atlas of Wind Resources of Kazakhstan has been created within the framework of UNDP/GEF and the Government of the Republic of Kazakhstan "Kazakhstan - an initiative to develop the wind energy market"

# Kazakhstan Renewable Energy Resources



**920** bn.  
kWh a year

**Wind Energy**



**3000** Solar hours  
a year

**Solar Energy**



**62** bn.  
kWh a year

**Hydro Energy**

## THE MAIN PROVISIONS OF THE LAW ON SUPPORT OF RENEWABLE ENERGY IN THE REPUBLIC OF KAZAKHSTAN INVESTORS SUPPORT MECHANISM

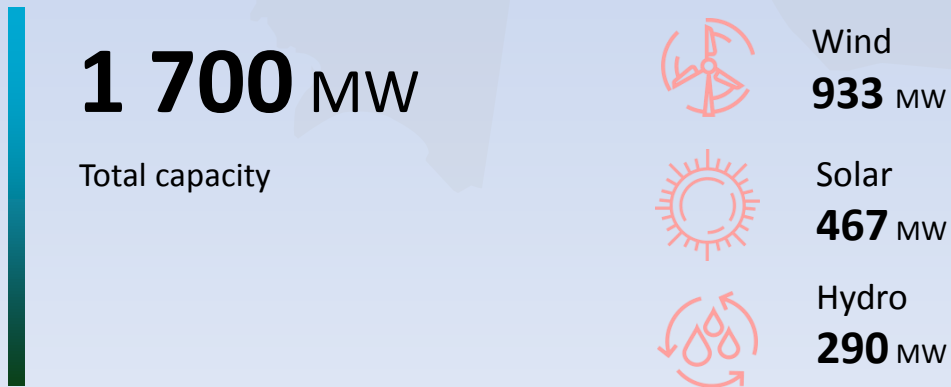
- 1 Guaranteed purchase of all produced renewable electric energy for 15 years
- 2 Buyers are conventional stations
- 3 Exemption from renewable energy transmission services payment
- 4 Priority dispatching of renewable electric energy
- 5 Annual indexation of feed-in tariffs and auction prices (inflation and the US dollar exchange rate)
- 6 Prices are set during renewable energy auctions

# RENEWABLE ENERGY DEVELOPMENT TARGET INDICATORS

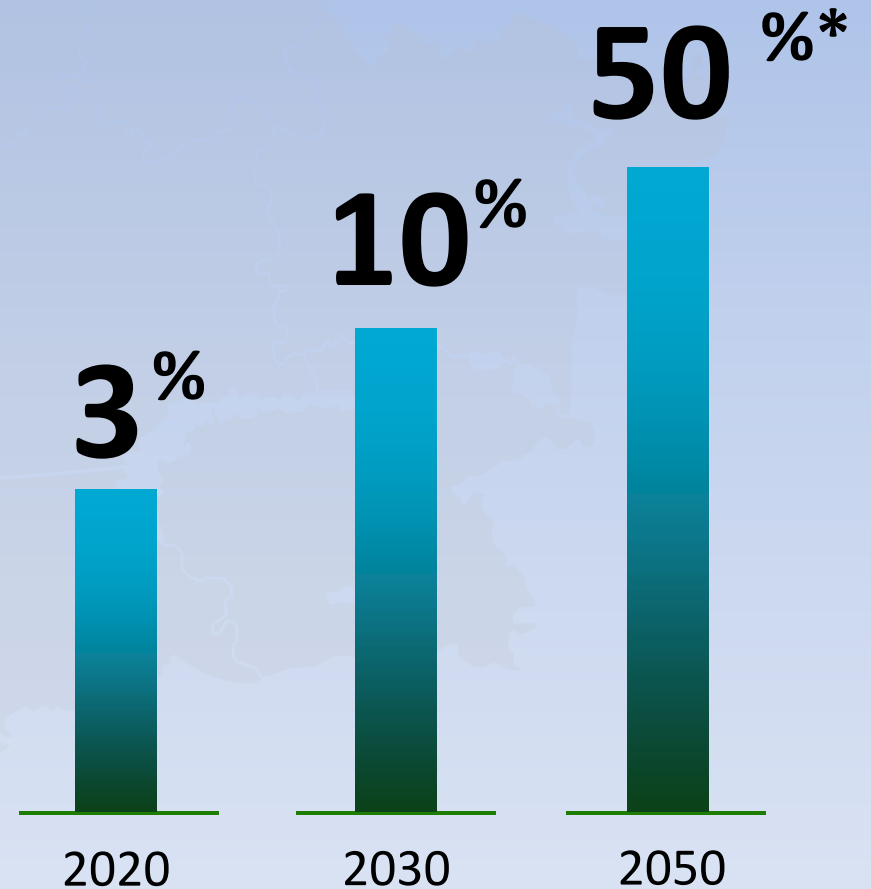
## 2018



## Target Indicators 2020

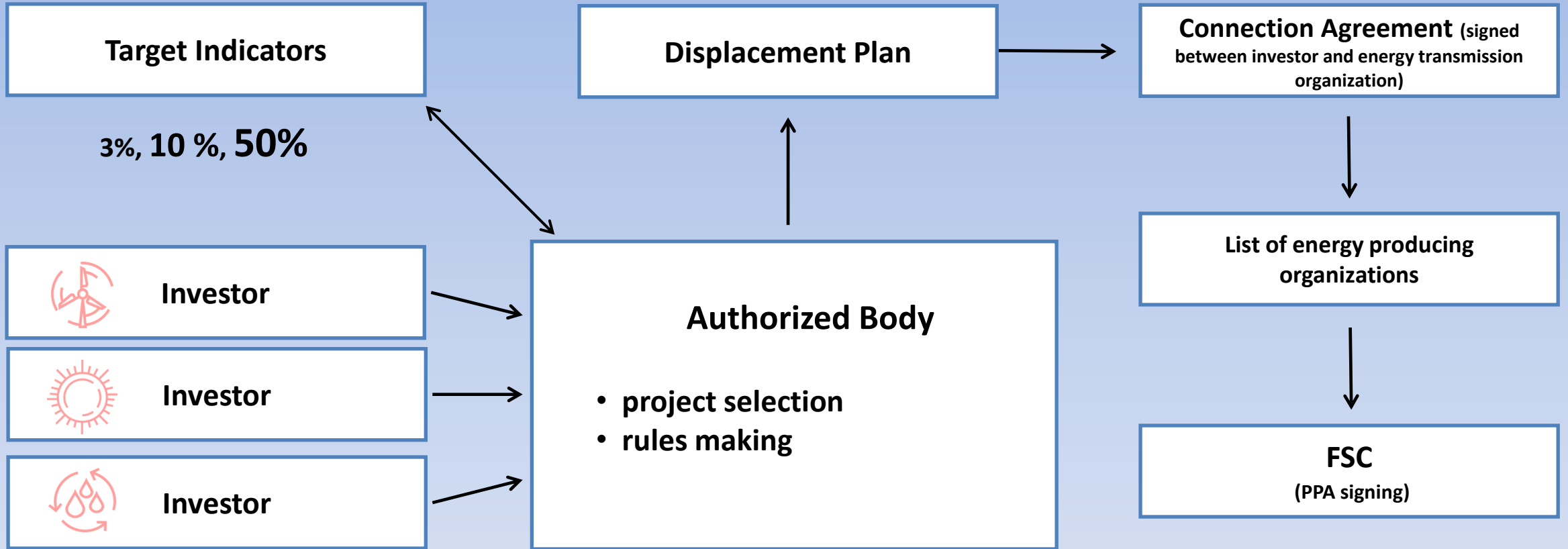


### RE share in total electric energy production



\* - including alternative energy

# RE SUPPORT MECHANISM BEFORE AUCTIONS



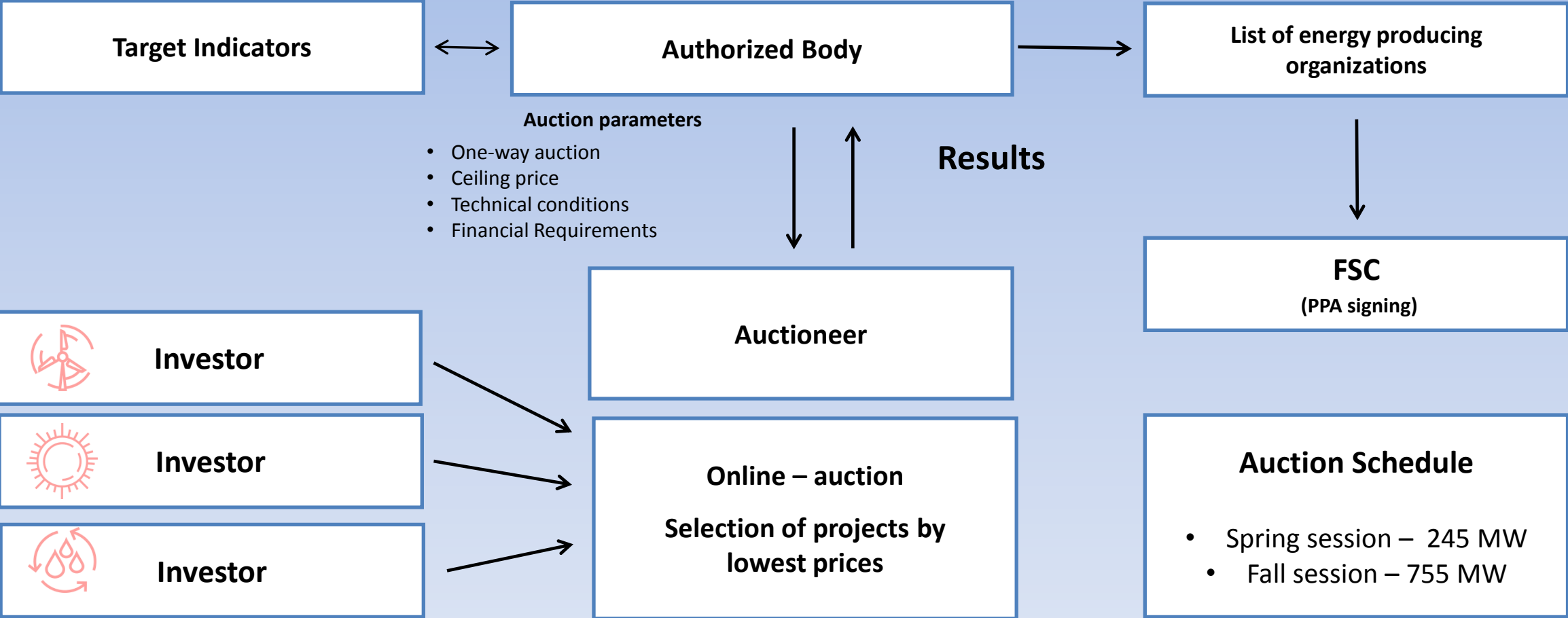
**Feed-in tariffs**  
(US dollar– 350 tenge/\$)

Wind  
64,8 \$/MWh

Solar  
98,9 \$/MWh

Hydro  
47,7 \$/MWh

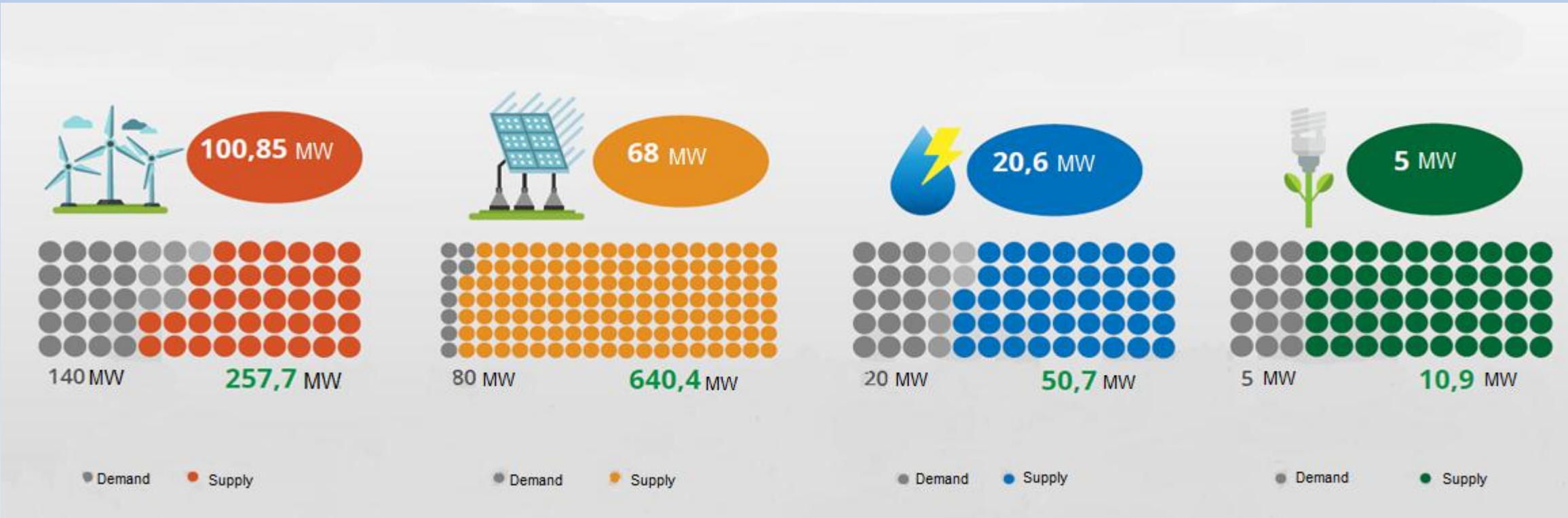
# NEW RE SUPPORT MECHANISM



# Pilot auctions results

<b>53 companies from 7 countries</b>	Kazakhstan	Turkey	Bulgaria
194,5 MW of 19 projects Selected	Russia	France	
	China	UAE	

Auction prices, tenge/kWh								
Wind Energy			Solar Energy			Hydro Energy		
Ceiling price	Minimal price	Fall	Ceiling price	Minimal Price	Fall	Ceiling Price	Minimal Price	Fall
22.68	17.49	23%	34.61	25.8	26%	16.71	12.8	23%





## Fall 2018 auctions results

Auctions held	Successful auctions	Declared Capacity
7	2	480 MW

Projects Selected			
Wind		Hydro	
4 projects	250 MW	3 projects	61 MW

Auction prices, tenge/kWh					
Wind			Hydro		
Ceiling price	Minimal price	Fall	Ceiling price	Minimal price	Fall
22.68	17.39	23%	16.71	13.88	17%



Financial Settlements Center  
of Renewable Energy

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