



Расчетно-финансовый центр
по поддержке возобновляемых
источников энергии

RES DEVELOPMENT IN THE REPUBLIC OF KAZAKHSTAN

ASTANA
2017

RENEWABLES RESOURCE POTENTIAL IN THE REPUBLIC OF KAZAKHSTAN



920

billion kWh a year

Wind energy



3000

Sunny hours a year

Solar energy



62

billion kWh a year

Hydro energy

MAIN PROVISIONS OF THE LAW ON RES SUPPORT IN THE REPUBLIC OF KAZAKHSTAN

INVESTOR SUPPORT MECHANISM

- 1 purchase of the whole volume of RES electricity is guaranteed during 15 years
- 2 conditional consumers * act as buyers through the Accounting and Finance Center
- 3 exemption from paying for transmission service for RES electricity
- 4 priority dispatch of RES electricity
- 5 financial settlement of RES related imbalances is carried out by the Accounting and Finance Center
- 6 investment preferences in accordance with the Commercial Code of the Republic of Kazakhstan

* Conditional consumers are energy generating organizations that use coal, gas, sulfur-containing raw materials, oil products and nuclear fuel; participants of the electricity market that buy electricity outside of the Republic of Kazakhstan; hydro power plants with installations located in one hydro scheme with the total capacity exceeding 35 MW, except for those that were commissioned after January 1, 2016.

TARGET INDICATORS OF THE RES SECTOR DEVELOPMENT

2017

50 RES facilities

300 MW

Total capacity



WPP
100 MW



SPP
60 MW



HPP
140 MW

Target indicator 2020

1 700 MW

Total capacity



WPP
933 MW

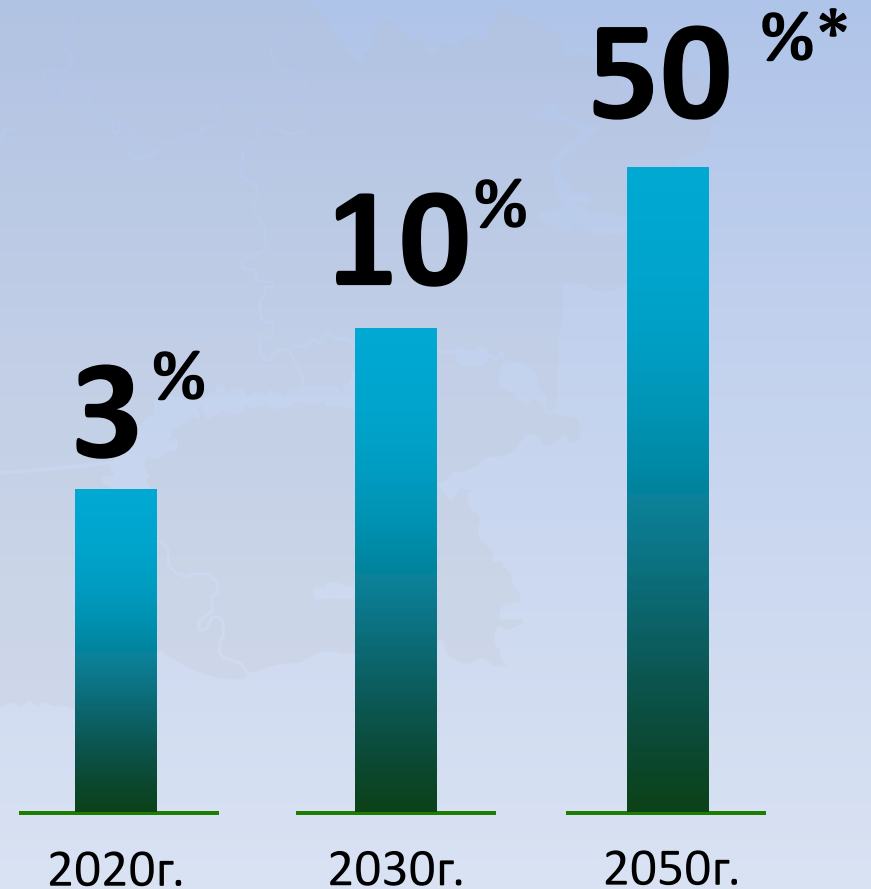


SPP
467 MW



HPP
290 MW

The share of RES in the total amount of electricity generation



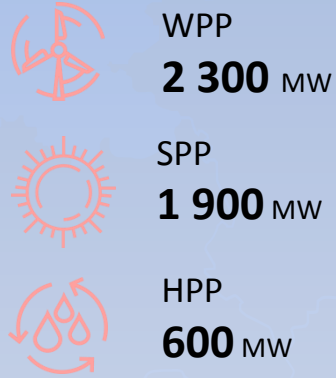
* - taking into consideration alternative energy

RES SECTOR DEVELOPMENT INDICATORS

Technical specifications issued

4 800 MW

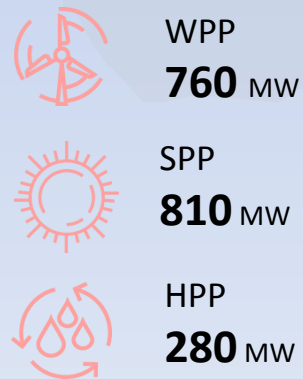
total capacity



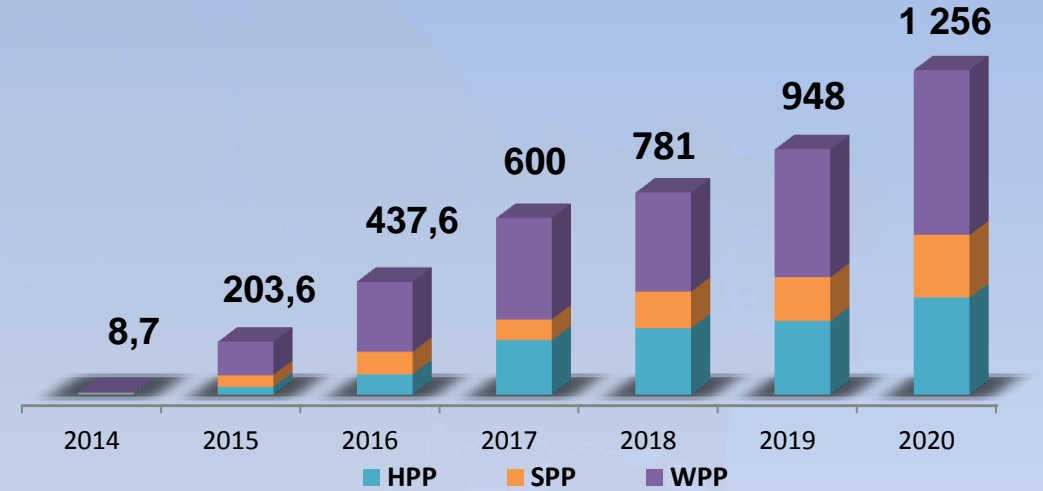
70 PPA agreements

1 850 MW

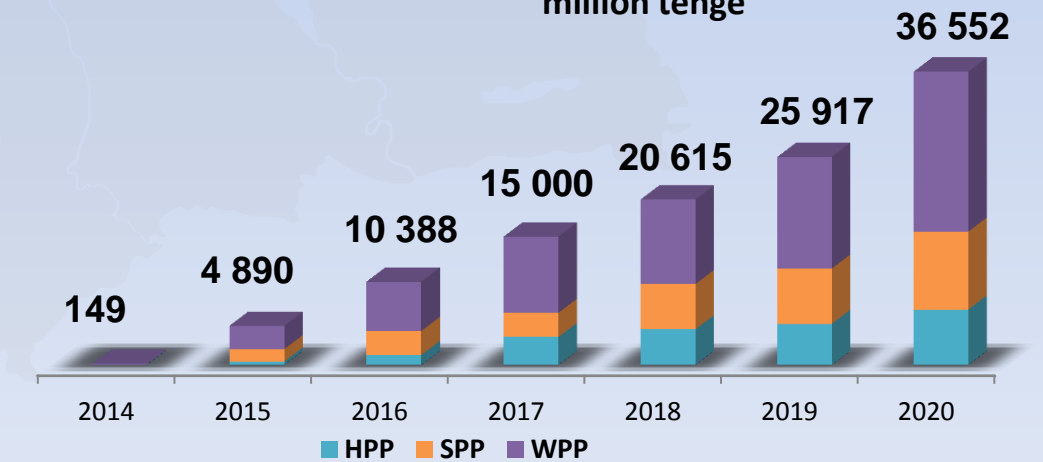
total capacity



The amount of electricity from RES facilities purchased by the Accounting and Finance Center, million kW-h)*

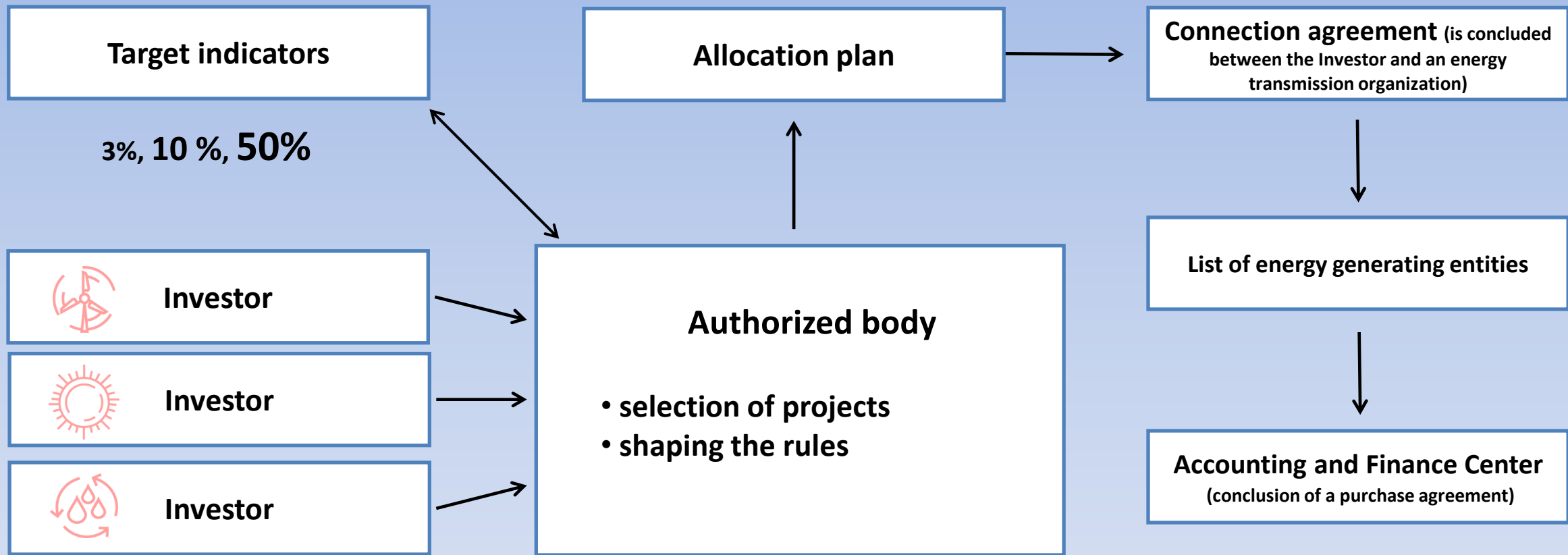


Costs associated with purchase of electricity from RES, million tenge



MECHANISM FOR SUPPORTING THE RES SECTOR PRIOR TO INTRODUCTION OF AUCTION TRADES

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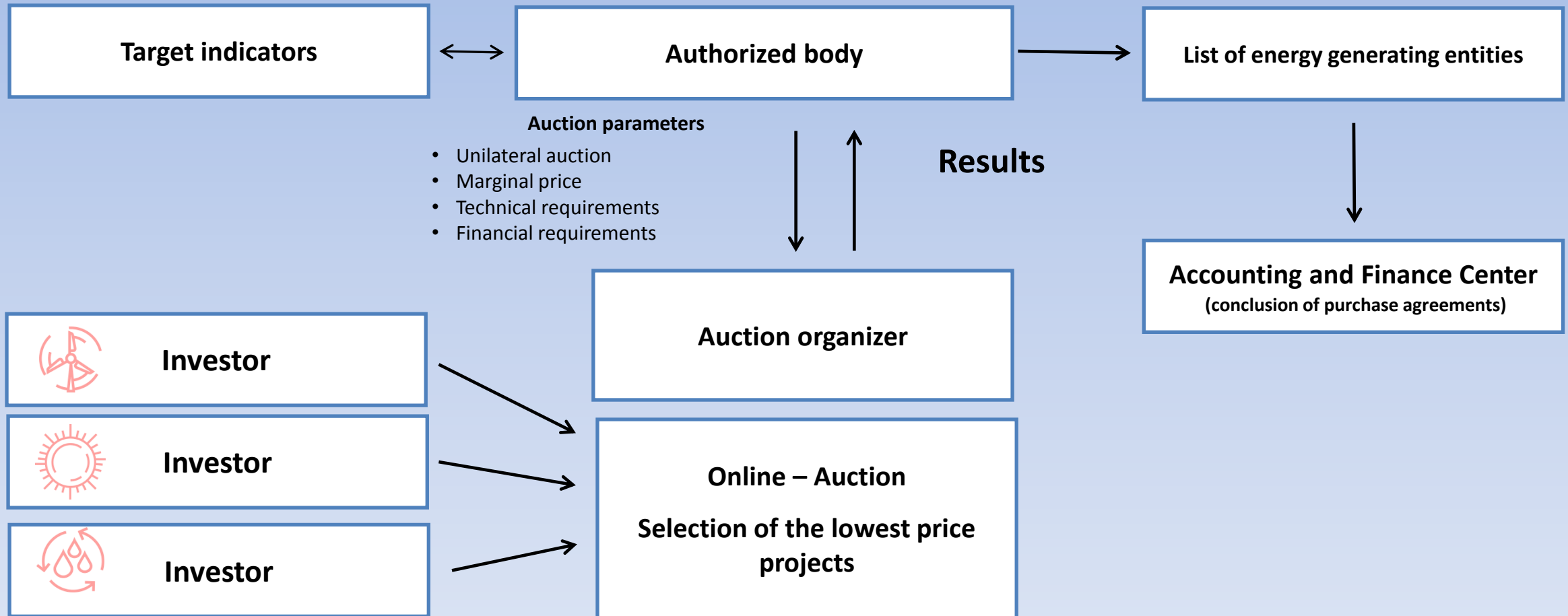


| Fixed tariffs | <u>WPP</u> | <u>SPP</u> | <u>HPP</u> |
|---------------------------------------|----------------------|-----------------------|----------------------|
| (USD exchange rate is 340 tenge / \$) | <u>66,7 \$/ MW-h</u> | <u>101,8 \$/ MW-h</u> | <u>49,1 \$/ MW-h</u> |

Average tariff for centralized flows
23,6 \$/ MW-h

* The share of the center in the wholesale market was more than 26% in 2016

A NEW AUCTION BASED MECHANISM FOR SUPPORTING THE RES SECTOR



THANK YOU FOR ATTENTION!