



INVEST KAZAKHSTAN
THE LAND OF GREAT OPPORTUNITIES

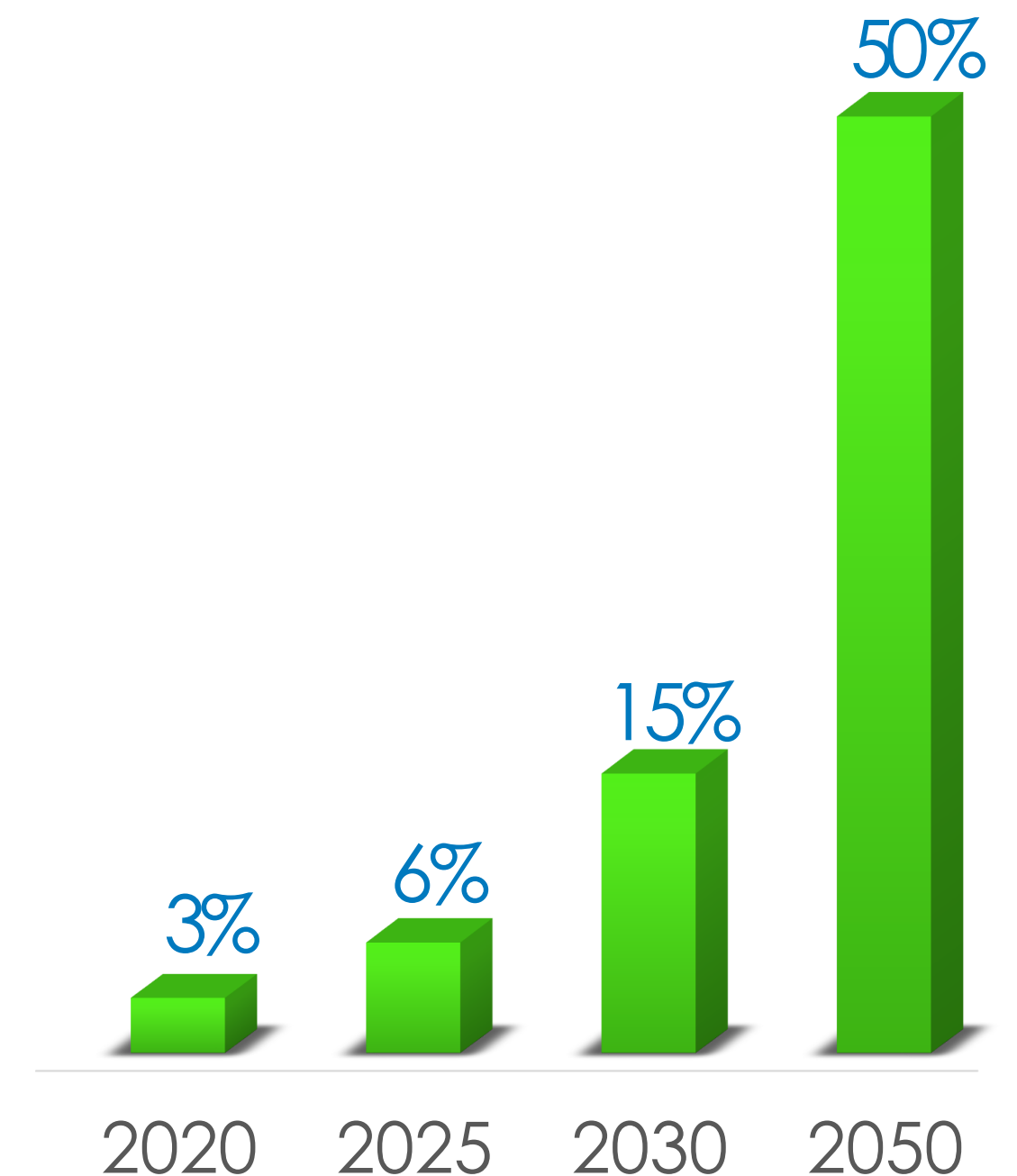
RES: INVESTMENT POTENTIAL OF KAZAKHSTAN



KEY INDICATORS OF RES DEVELOPMENT

- " KAZAKHSTAN – 2050 " STRATEGY
- THE CONCEPT OF TRANSITION TO A "GREEN ECONOMY "
- STRATEGY FOR ACHIEVING CARBON NEUTRALITY
- EUROPEAN "GREEN DEAL" - CARBON TAX ADJUSTMENT MECHANISM

KEY INDICATORS OF RES DEVELOPMENT:



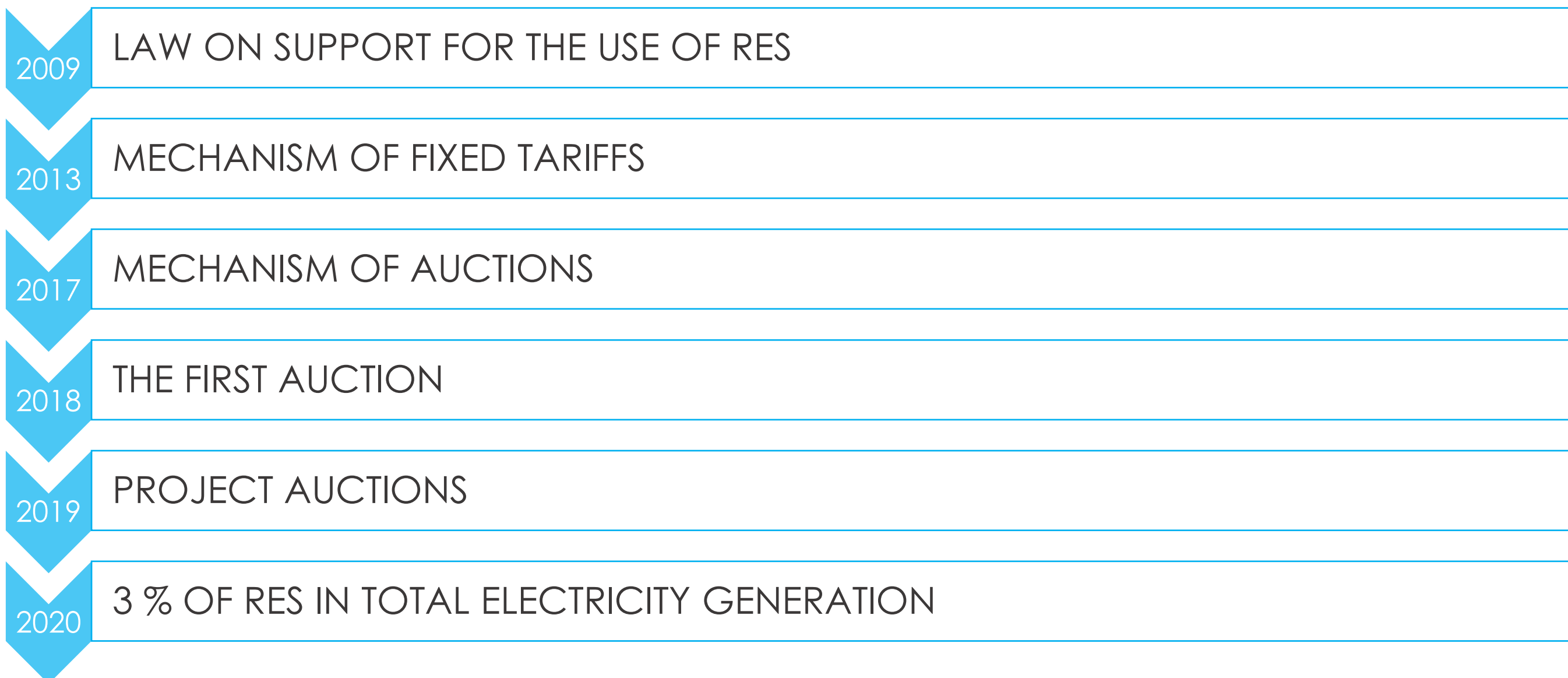
THE PARIS AGREEMENT

Reduction of greenhouse gas (GHG) emissions in 2030 by 15% compared to 1990 levels.



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CURRENT RES INDICATORS



WPP

1 108 MW



SES

1 148 MW



HPS

270 MW



BGP

2 MW

CURRENT SITUATION
(share of RES – 5,8 %)

TOTAL CAPACITY
2525MW

RES POTENTIAL



WIND POTENTIAL

920 billion kWh/ year



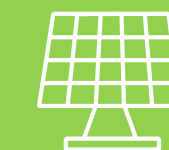
HYDRO POTENTIAL

62 billion kWh/ year



GEOHERMAL SOURCES

4.3 billion kWh/ year



SOLAR POTENTIAL

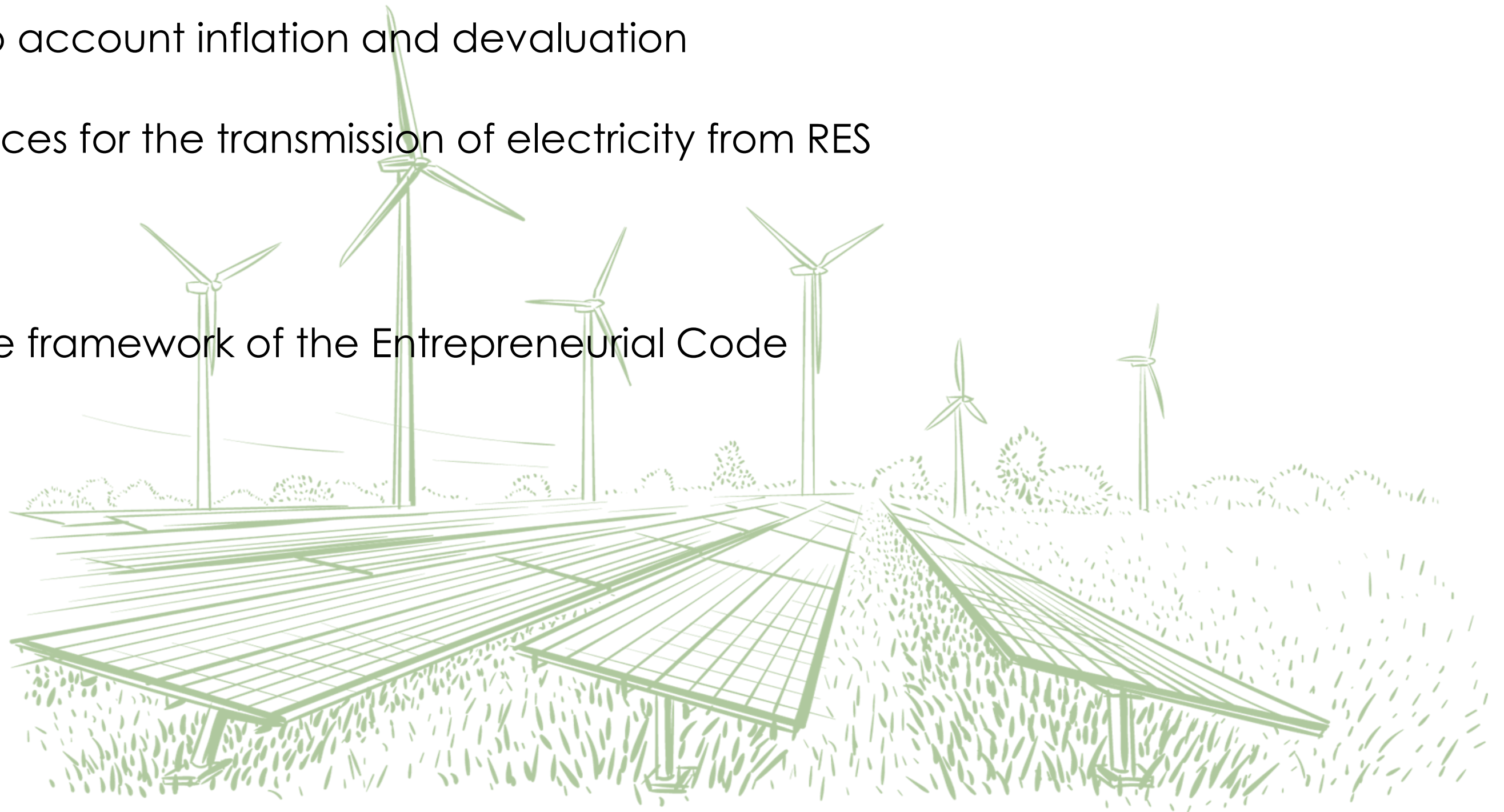
2.5 billion kWh/ year



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Source: Ministry of Energy of the Republic of Kazakhstan

- 1 Purchase of electricity – SFC of a 20-year-old PPA at an auction tariff in tenge
- 2 Indexation of RES tariff taking into account inflation and devaluation
- 3 Exemption from payment of services for the transmission of electricity from RES
- 4 Priority dispatching of electricity
- 5 Investment preferences within the framework of the Entrepreneurial Code



CURRENT SITUATION IN KAZAKHSTAN

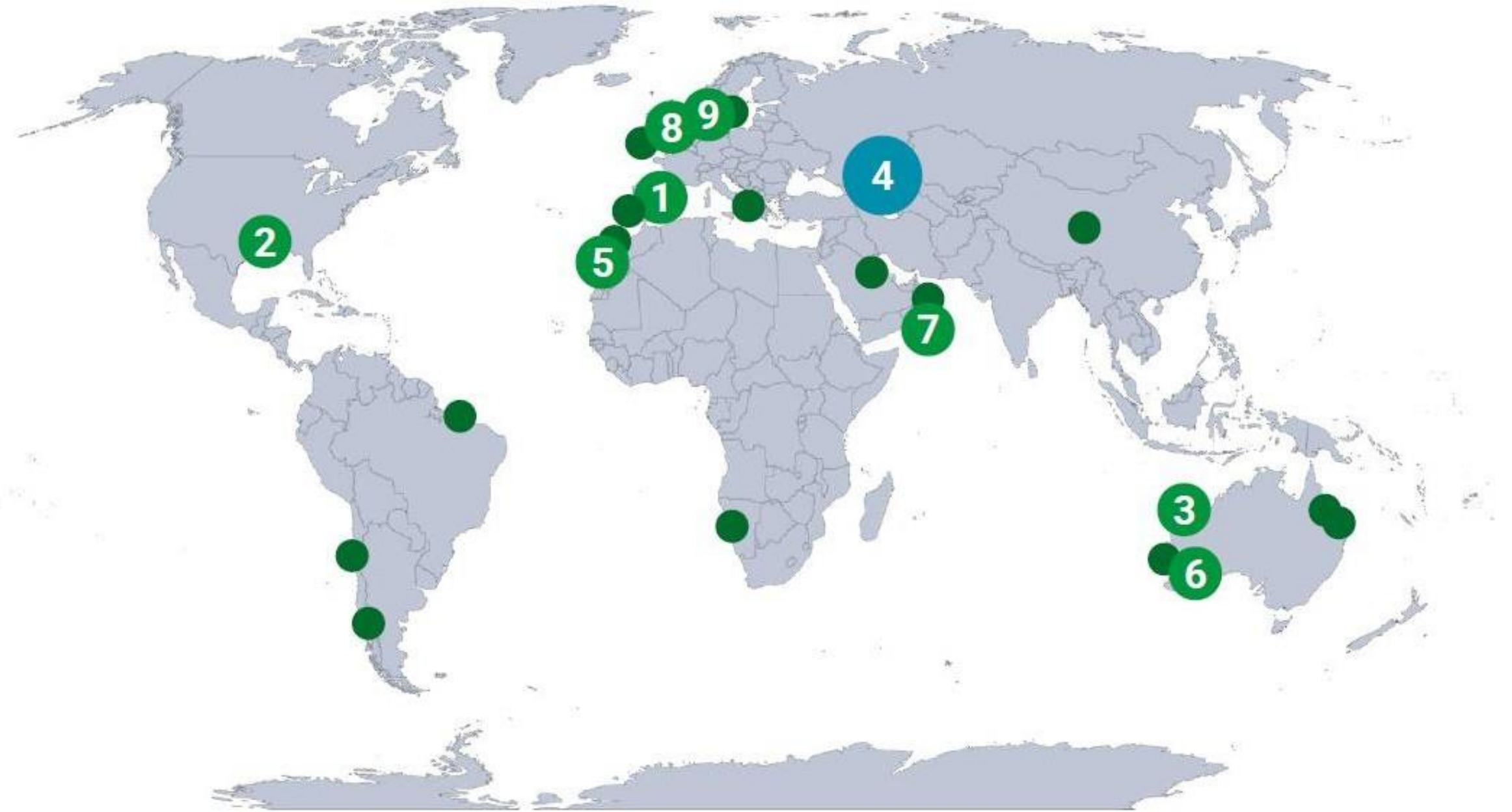
5 INVESTMENT PROJECTS FOR THE PRODUCTION OF "GREEN" HYDROGEN ARE PLANNED TO BE IMPLEMENTED IN KAZAKHSTAN



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GLOBAL GREEN HYDROGEN PRODUCTION PROJECTS

- 1 HyDeal Ambition | Europe | 67 GW | 3.6 MtH₂/yr
- 2 Hydrogen City | Texas, USA | n/a | 3.0 MtH₂/yr
- 3 WGEH | Australia | 35 GW | 3.5 MtH₂/yr
- 4 **Hyrasia One | Kazakhstan | 20 GW | 2.0 MtH₂/yr**
- 5 Aman | Mauritania | 16-20 GW | n/a
- 6 AREH | Australia | 14 GW | 1.75 MtH₂/yr
- 7 Green Energy Oman | Oman | 14 GW | n/a
- 8 NorthH2 | Netherlands | 10 GW | n/a
- 9 AquaVentus | Germany | 10 GW+ | 1.0 MtH₂/yr
- Projects under 10 GW (selection)





INVESTMENT AGREEMENT WAS SIGNED BY THE EUROPEAN PROJECT'S DEVELOPER AND THE GOVERNMENT OF THE REPUBLIC OF KAZAKHSTAN IN THE PRESENCE OF THE PRESIDENT OF THE REPUBLIC OF KAZAKHSTAN AND THE PRESIDENT OF THE EUROPEAN COUNCIL

Svevind plans to produce 2 million tons of “green” hydrogen per year in Kazakhstan for domestic consumption and export to the EU. Subsequently, the company will build renewable energy facilities with a capacity of 40 MW



ALLIANCE OF “GREEN” HYDROGEN



Among the founders of the Association were Linde (Germany), Svevind Energy GmbH (Germany), Roedl & Partners (Germany), Qazaq Gaz (Kazakhstan), Atasu Group (Kazakhstan), Green Spark LTD (Italy), AIFC Green Finance Center (Kazakhstan), GCA Partners (Kazakhstan), Ajusa Hydrogen Technologies (Spain) and other international companies from the EU

THE AGREEMENT ON CREATION OF **ALLIANCE OF “GREEN” HYDROGEN OF KAZAKHSTAN** WAS SIGNED ON JUNE 29, 2022 IN AIFC AT THE FIRST FORUM ON “GREEN” HYDROGEN



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