



SUSTAINABLE ENERGY

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OUTLINE





PILLARS OF THE ENERGY SECURITY STRATEGY OF ARMENIA

Realization
of the
economically
viable renewable
energy
potential

Enabling energy efficiency

Diversification of fuel supply and regional integration

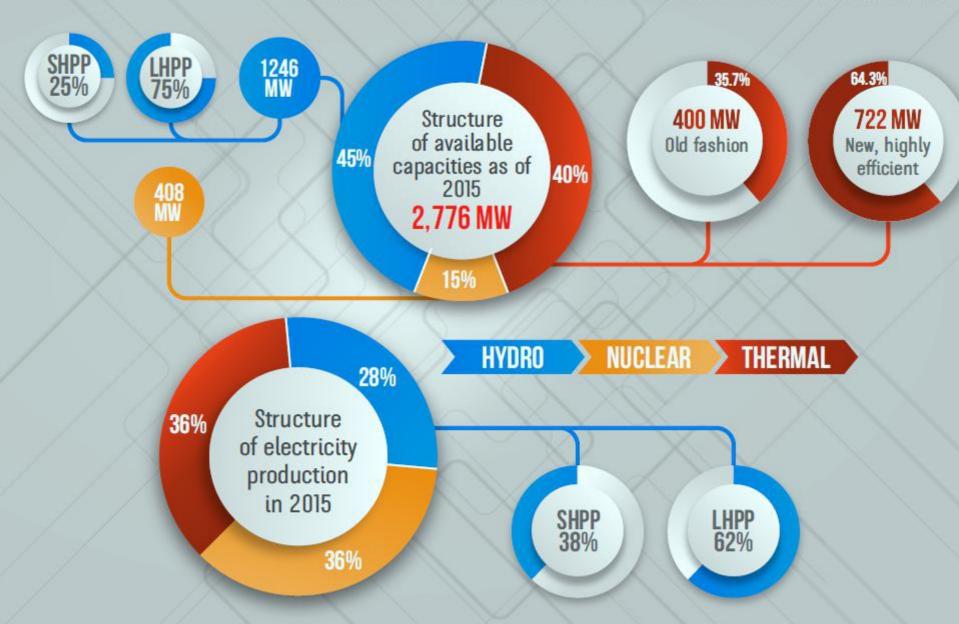
Safe
operation
of the existing
nuclear units and
a construction
of new
units



SUSTAINABLE ENERGY: SCALING UP RENEWABLE ENERGY CAPACITIES

ENERGY POLICY OF ARMENIA

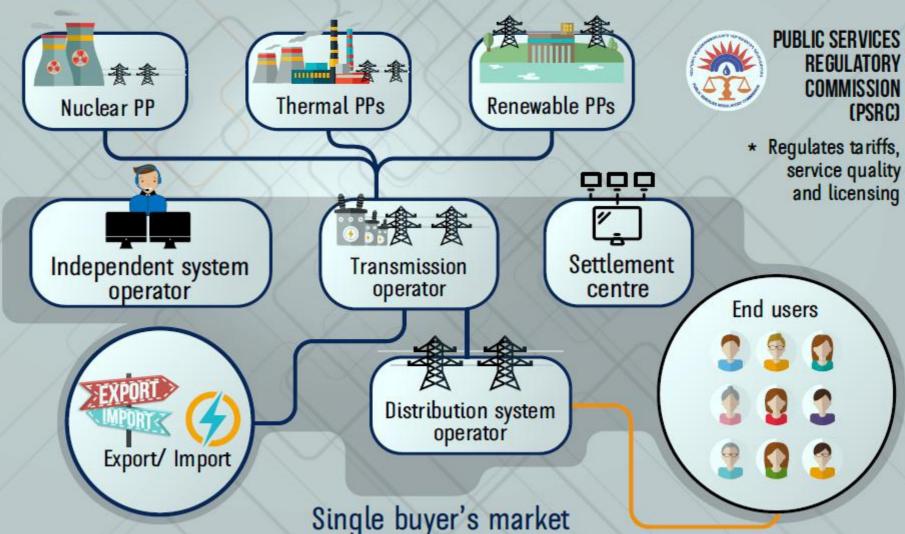
ARMENIA IS A COUNTRY WITH DIVERSIFIED ENERGY MIX



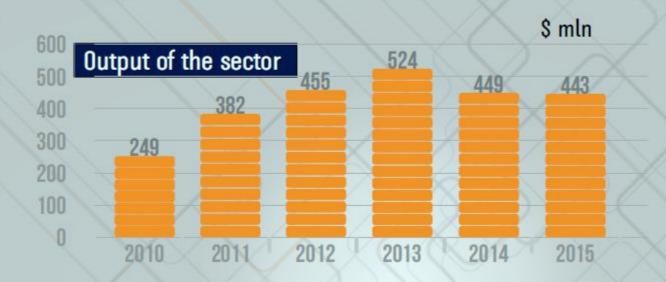




STRUCTURE OF ARMENIAN POWER MARKET











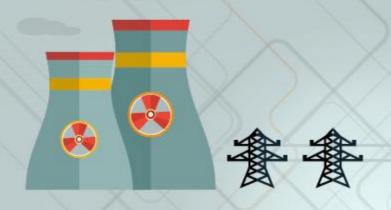






SCALING UP RENEWABLE ENERGY CAPACITIES

MORE THAN 40 YEARS OF EXPERTISE IN NUCLEAR ENERGY



VVER - 440 (V-230)

\$300 mln to prolong the life cycle until 2026

2026

New nuclear power plant with maximum of 600 MW installed capacity or small modular reactors





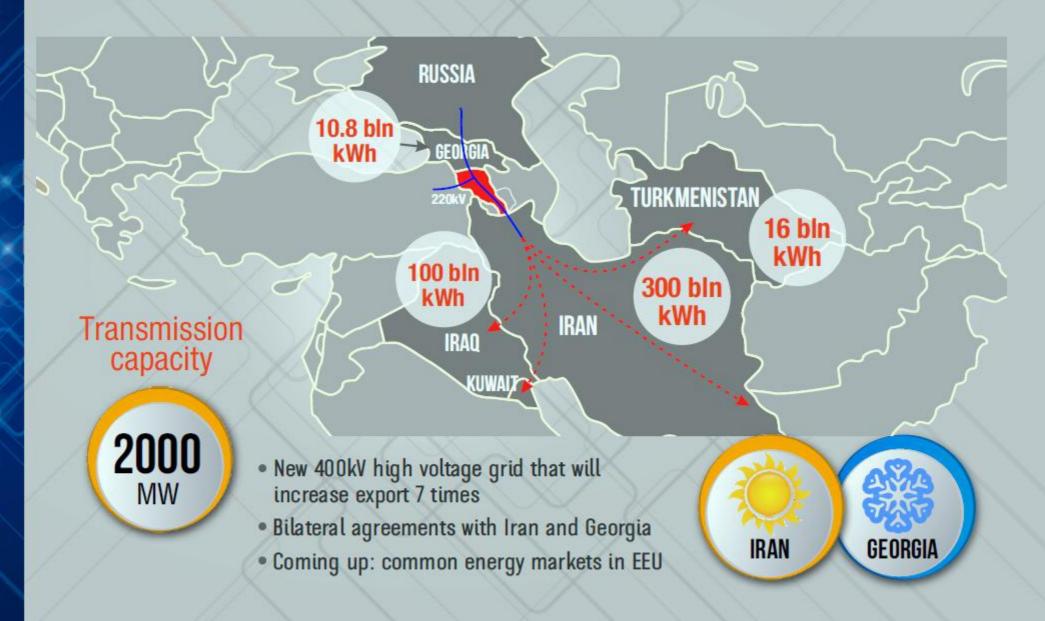






FOREIGN TRADE RELATIONS

ARMENIA HAS DEVELOPED INFRASTRUCTURE TO EXPORT ELECTRICITY





ENABLING AGGRESSIVE GROWTH FOR RENEWABLE ENERGY

Purchase of all produced electricity is guaranteed by the Law on Energy for 20 years from all renewable plants (15 years for SHPP)

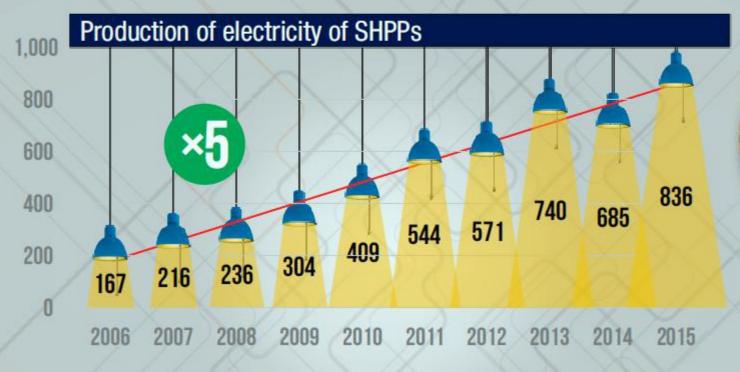
Special Mechanism for Guaranteeing Payments to all Generation Capacities

Tariff for renewables are fixed up-front and cover main economic risks





SUCCESS STORY OF SMALL HYDRO POWER SECTOR





During last 10 years

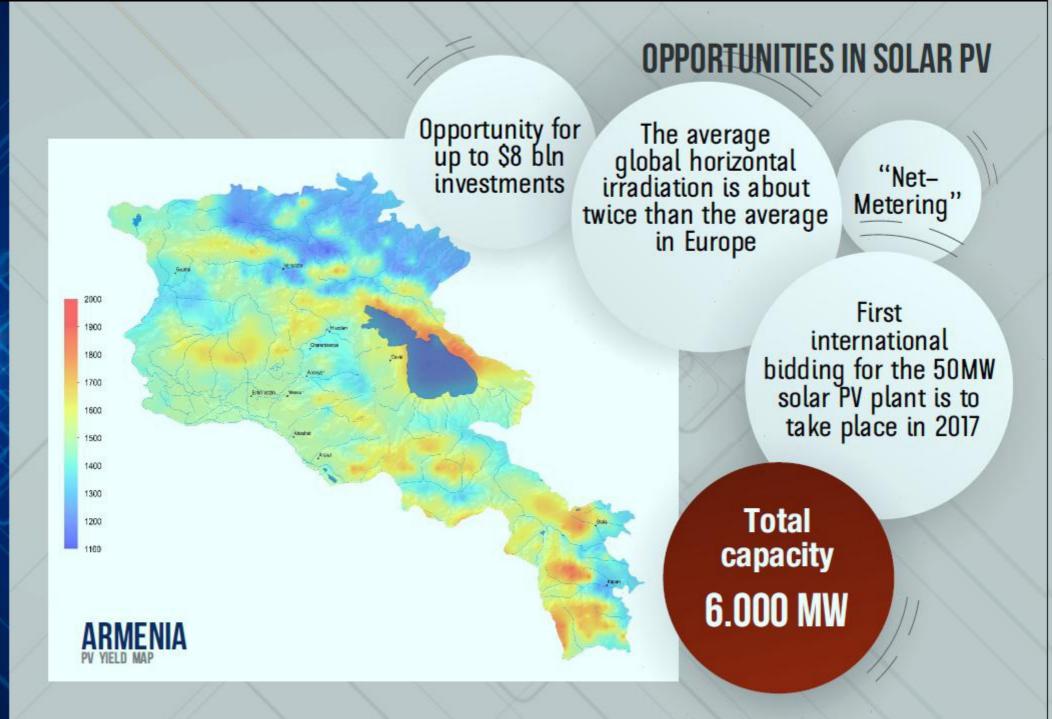


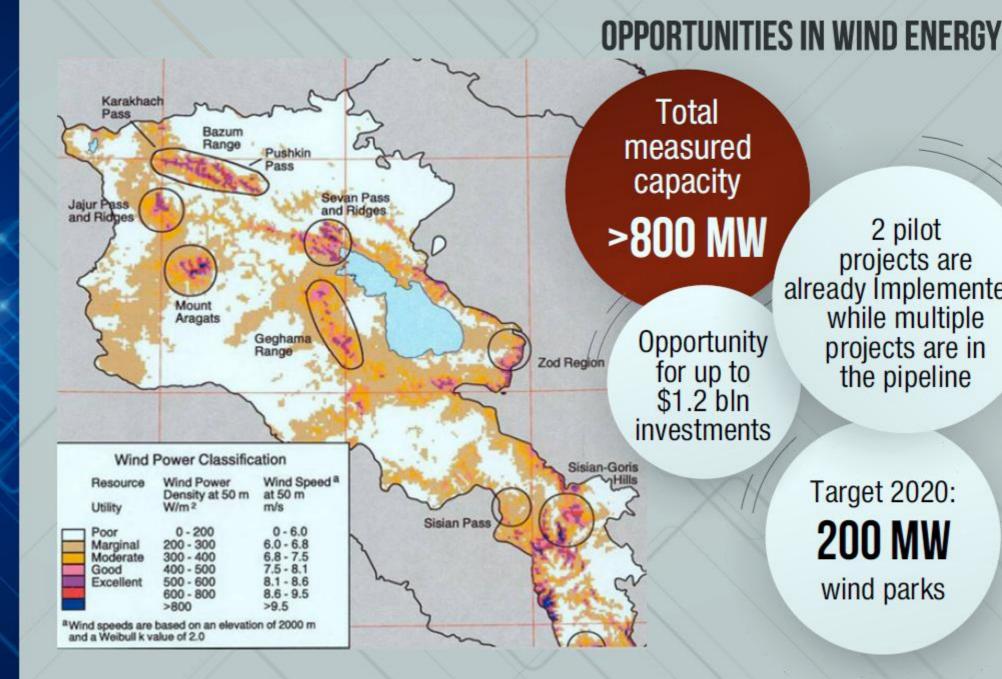
All 173 SHPPs, without an exception, were built by private investors

Estimated \$300 mln of investments, including FDI

There is still potential for growth







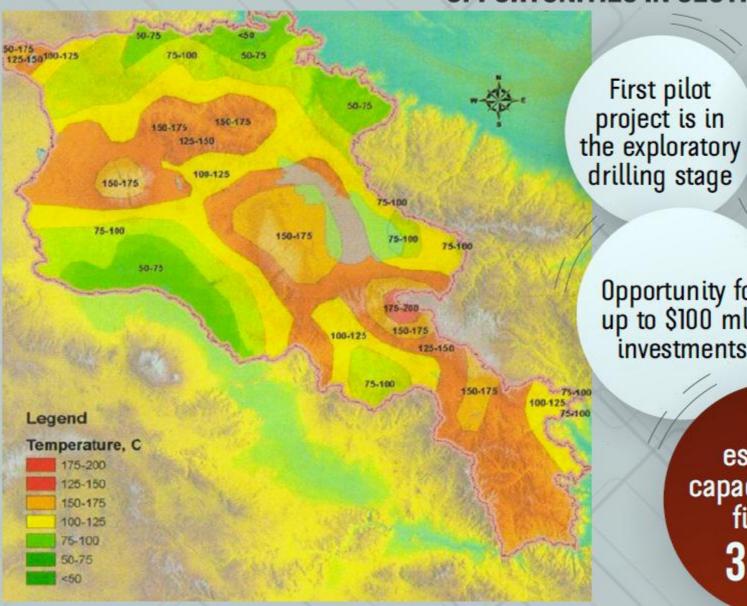
2 pilot projects are already implemented, while multiple projects are in the pipeline

Target 2020:

200 MW

wind parks





OPPORTUNITIES IN GEOTHERMAL ENERGY

International bidding for the construction rights is planned for 2018

Opportunity for up to \$100 mln investments

Additional 3 sites with high potential are identified

Total estimated capacity for the first site **30 MW**

WHY **ARMENIA?**

STRENGTHS

PPA is guaranteed by Law for renewables with feed-in-tariffs

Diversified supply and competitive price of natural gas

Significant renewable resources







SUSTAINABLE ENERGY: SCALING UP

ENERGY CAPACITIES

RENEWABLE

Regional electricity and gas trade agreements

WHY ARMENIA?

SUSTAINABLE ENERGY

New opportunities of large renewable projects

Modernization of conventional energy

Tailored approach for investors

Scaling up renewable energy capacities

01 02 03 04 05

A guaranteed market for at least 15 years A grid that connects EEU with Middle East

