



Session 2



SESSION "CATALYZING EFFORTS TO IMPROVE THE ENVIRONMENTAL FOOTPRINT IN THE OSCE REGION"

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MINISTRY OF ENERGY
OF THE RUSSIAN FEDERATION

Main directions of the Russian Federation's state policy on energy security

2



securing reliable and stable energy **supply to the consumers in Russia**



contributing to global energy security

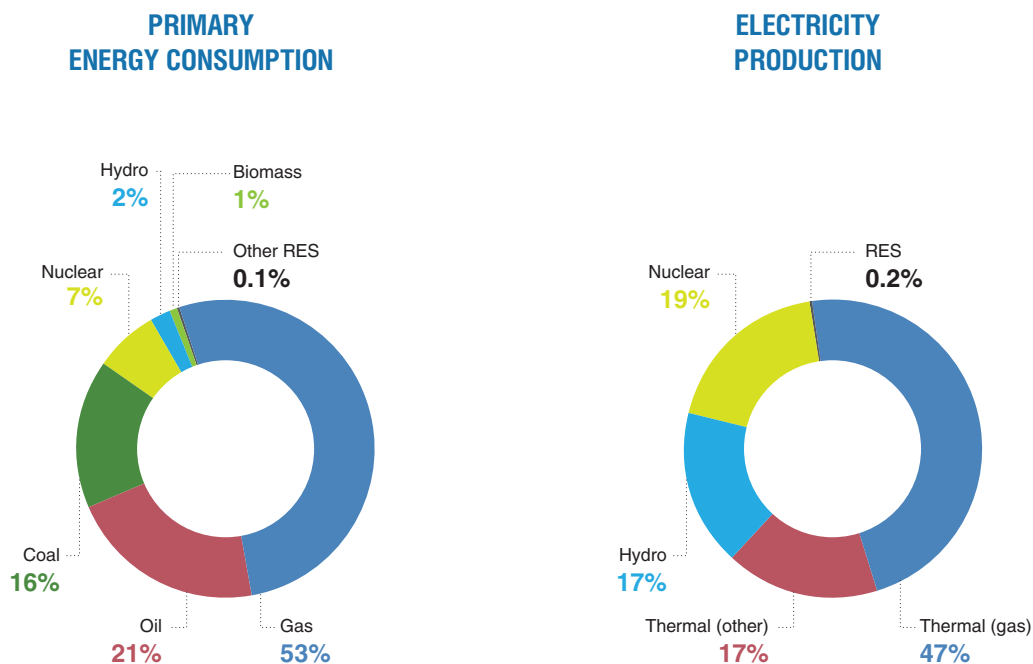


reducing negative impact on the environment
and providing environmental safety



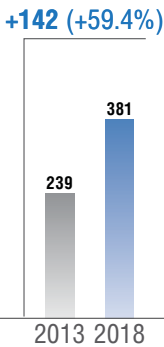
promoting energy savings and improving **energy efficiency**

**THE ENERGY SECURITY DOCTRINE IS THE KEY DOCUMENT FOR STRATEGIC
PLANNING IN THE SPHERE OF NATIONAL SECURITY OF THE RUSSIAN FEDERATION**

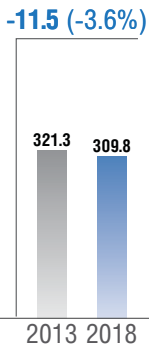


Data: International Energy Agency

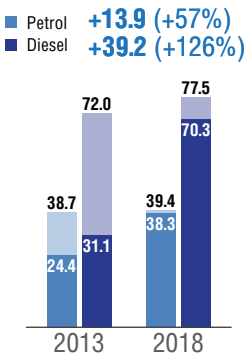
The number of gas fueling stations



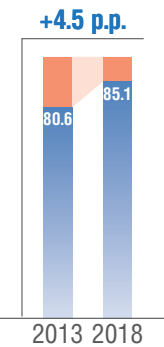
Specific fuel equivalent consumption in electricity (proportional method), in gr. of fuel equivalent/KWt-h



Petrol and K5 class diesel production, mln t



Utilization rate of oil associated gas, %



FIRST STAGE (2015-2018)

- Drafting sectoral **BAT reference documents**
- Creating **national energy technology forecast system**
- Developing **the regulation package required**

SECOND STAGE (2018-2022)

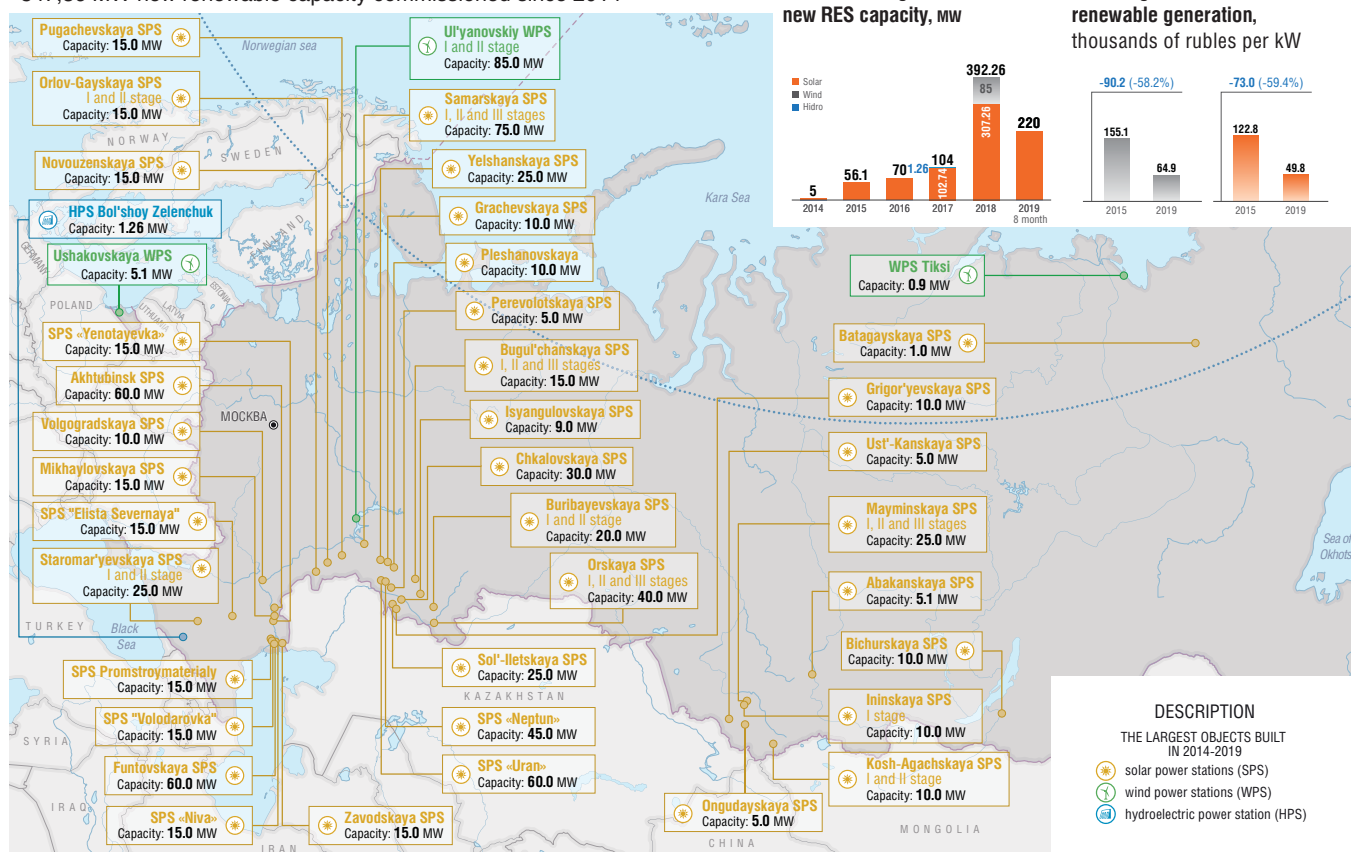
- Introducing **complex environmental licensing** for major industrial polluters
- Increasing **charges for negative environmental impact** to the cost of environmental protection measures
- **Banning the projects of constructing new and modernization of old enterprises** in case of non-compliance of energy and environment indicators to BAT

THIRD STAGE (2022 onwards)

- **Full-fledged implementation of measures** to enact BAT and introducing innovative technologies

Renewable energy development in Russia

847,36 MW new renewable capacity commissioned since 2014



“Hevel” factory producing solar modules with the efficiency factor of over 23% in Chuvashia (world's top 3 in efficiency)



A solar power plant remote control project in Bashkortostan



The production site for wind generator components in Rostov region



Windfarm integrated into intermittent generation system in Kaliningrad region



State aid to renewables

FEDERAL LAW “ON ELECTRICITY”

WHOLESALE ELECTRICITY AND CAPACITY MARKET (for RES generation >25MW)



Compensation
of technological
connection to electricity
grids for RES generation
from the federal budget

RETAIL ELECTRICITY AND CAPACITY MARKET (for RES generation <25MW)



- Selling capacity under Capacity Contracts for RES and solid household waste

- The responsibility of default supplier to buy electricity from RES in technologically isolated energy areas
- The responsibility of grid companies to buy electricity from RES under regulated tariffs to compensate for losses

Long term measures are coming to support the RES-based generation in the wholesale electricity and capacity market, as well as measures to stimulate renewable micro-generation

Development of digital technologies in the energy sub-sectors

OIL AND GAS COMPLEX



- Digital gas and oil field
- Cognitive systems to support experts' decisions in upstream
- Integrated management of added-value chain in downstream



COAL INDUSTRY



- Digital mine
- Digital open pit
- Digital logistics
- Digital management of the supply chain



POWER GENERATION



- Electricity supply management and monitoring system
- The platform to accumulate, process and use big data
- Future (strategic and investment) planning, as well as risk planning
- Client services for consumers



**THANK YOU
FOR YOUR ATTENTION!**

