

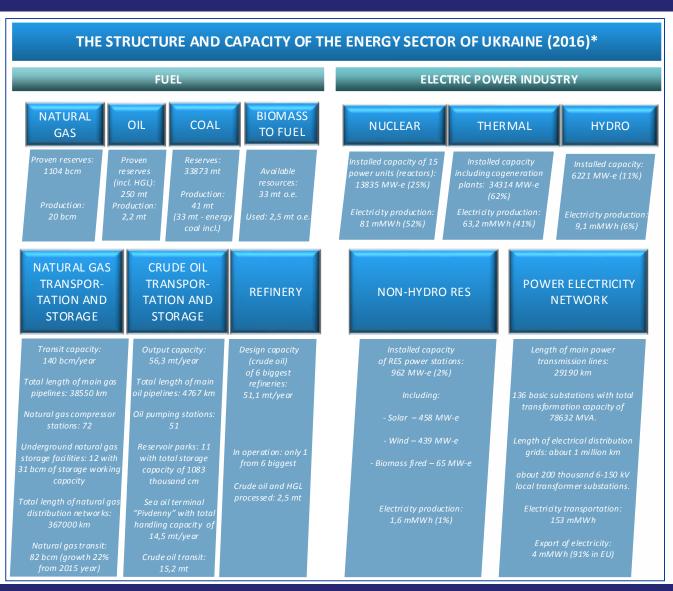
OF UKRAINE TILL 2035:

SECURITY, ENERGY EFFICIENCY, COMPETITIVE ABILITY

Brief description

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Energy Sector of Ukraine at a Glance in 2016



- Ukrainian energy sector in key estimations:
- Ranks in the top 10 in Europe
- Ranks in top 30 in the World
- Occupies ~ 30% of national economy
- Provides transportation
 20% of annual EU natural gas consumption
- Requires adaptation to new challenges, market conditions and modernization, and state policy for development

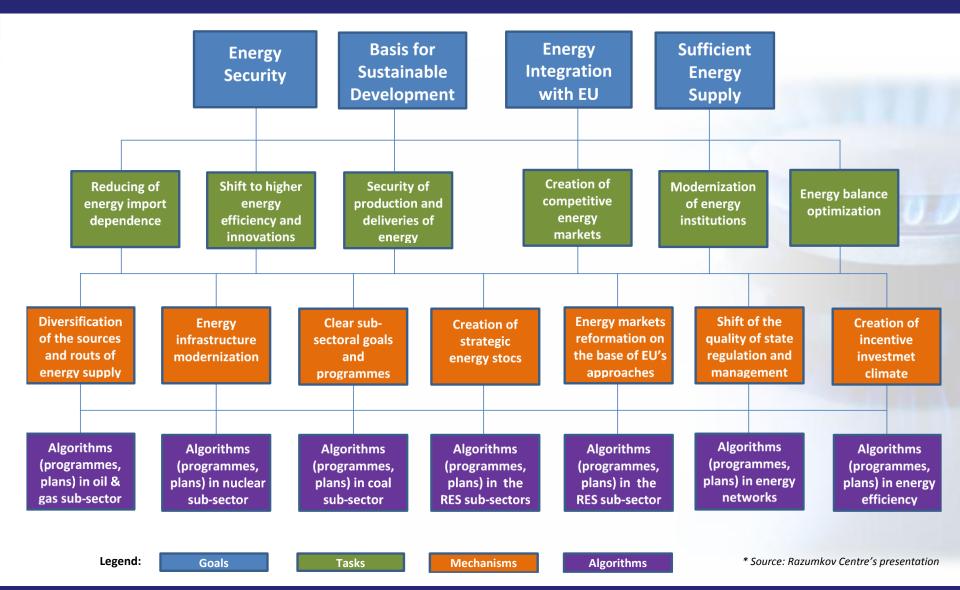


New Energy Strategy

* Razumkov Centre's analysis



Hierarchical Structure of the New Energy Strategy of Ukraine tlll 2035: the goals, tasks, mechanisms and algorithms





Temporal Vector: the Main Phases of the Energy Strategy

Till 2035

Till 2025

Till 2020

Sector
Reforms
on the basis
of EU
Legislation
Implementation

Optimization and **Innovative Development** of the Energy Infrastructure **EU-Ukraine** Energy **Markets** Integration

Sustainable
Energy
Development
Adjusting the
energy policy in
line with the
European and
global
tendencies

Phase 1. Energy Sector Reforms: Key Tasks

Till 2020



Completion of the implementation of the 3rd EU Energy Package; modern energy markets formation



Institutional reforming of the state energy companies and integration to ENTSO-G



Increasing of domestic natural gas production



Progressive decreasing of GDP energy intensity



Increasing of the RES share and investments in regard to Emissions Reduction National Action Plan



Phase 2. Optimization and Innovative Development of the Energy Infrastructure: Key Tasks

Till 2025



Integration to ENTSO-E



Modernisation of the energy grids infrastructure, smart-grids implementation



Development of heating infrastructure depending on local resources and regional specifics



Country's achievement to self-provision with natural gas from domestic production



Follow-up increasing of the RES share and investments in regard to Emissions Reduction National Action Plan



Phase 3. Ensuring Sustainable Energy Development: Key Tasks

Till 2035



Innovative development and CHP plants and NPP construction instead of disposal or obsolete units



Extensive implementation of smart-grids and client-oriented networks



Adaptation of the gas transportation system to the actual demands of the all-European gas market



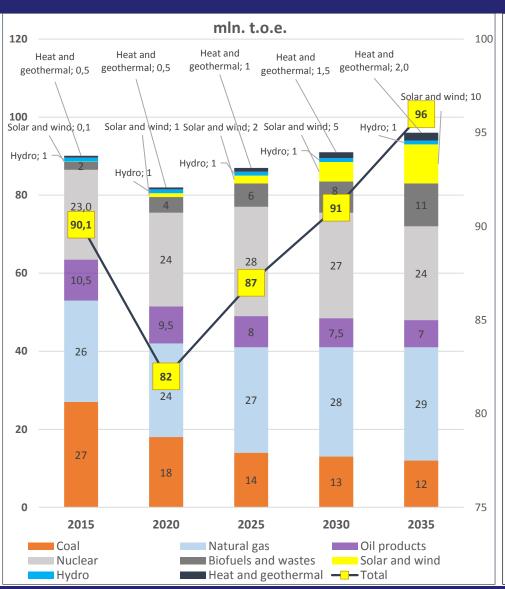
Increasing domestic natural gas production

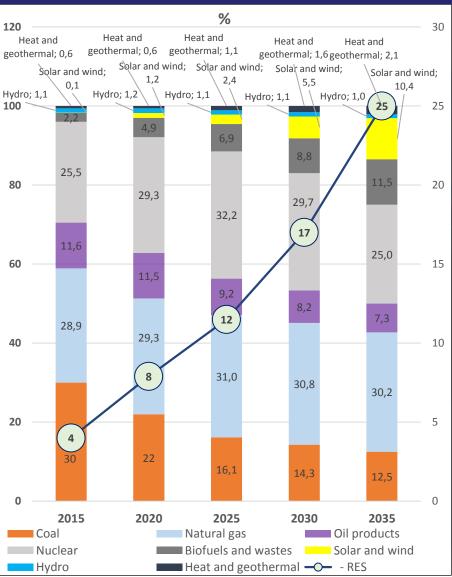


Follow-up increasing of the RES share up to 25% of GES and investments to further emissions reduction



Forecast of the Structure of the Primary Energy Supply







Strategy's Benchmark Indicators

A. Energy Efficiency Approaching	2015	2020	2025	2030	2035
GDP energy intensity (t.o.e. /'000 \$PPP 2005)	0,28	0,20	0,18	0,15	0,13
Losses share in electricity grids (%)	>12	10	9	8	<7,5
B. Expansion of the RES	2015	2020	2025	2030	2035
RES share in the Total Primary Energy Supply (%)	4	8*	12	17	25

^{*} RES share in the final energy consumption is estimated 11% of the total final energy consumption in 2020.





Thank you for your attention!



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