



# **INTER-REGIONAL SEMINAR: SHARING LESSONS LEARNED AND BEST PRACTICES FROM THE DEVELOPMENT OF SDG 7 ROADMAPS**

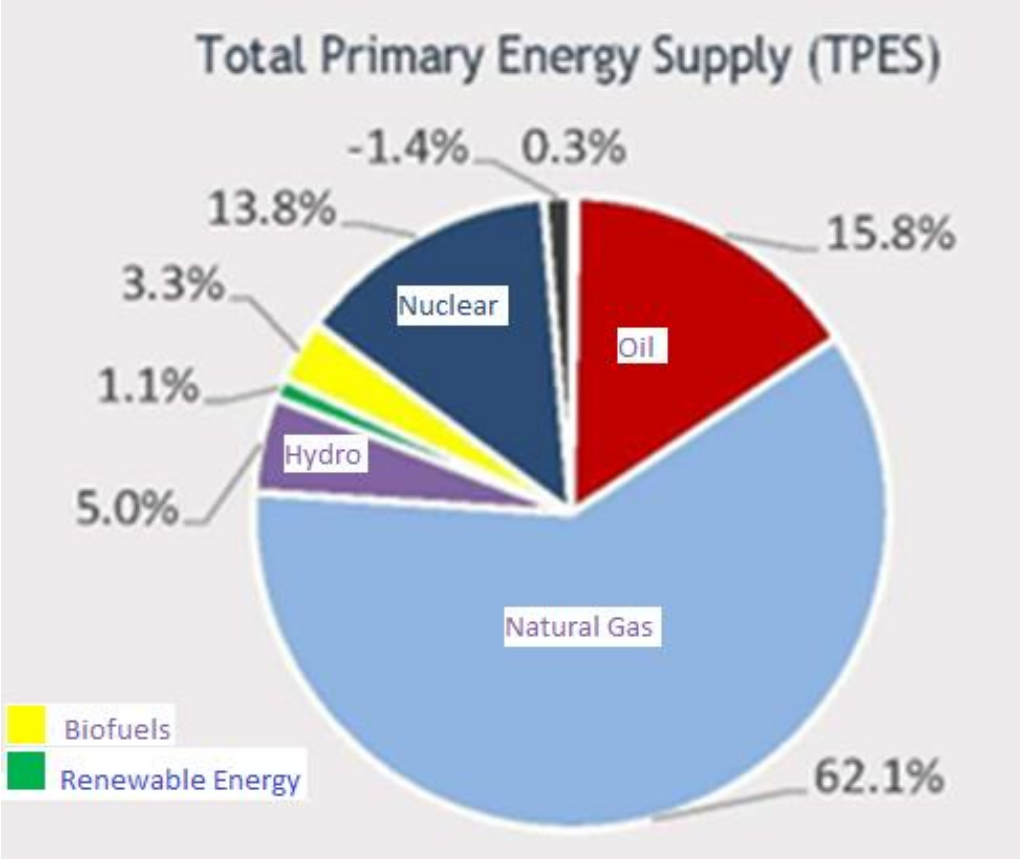
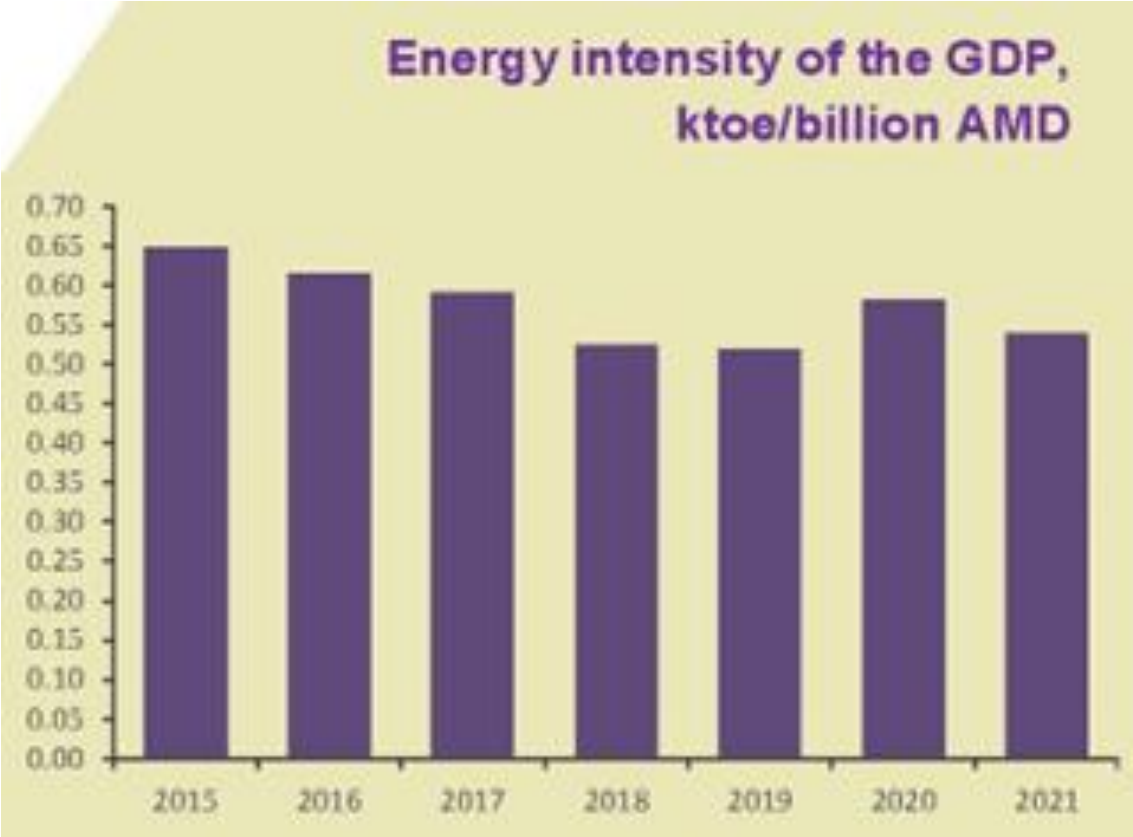
**8 November 2023 Almaty**

**Suren Shatvoryan, National Expert**

# ARMENIA ENERGY FACTSHEET 2021

In 2021, the Total Primary Energy Supply – **3.8** million toe

Total Primary Energy Mix



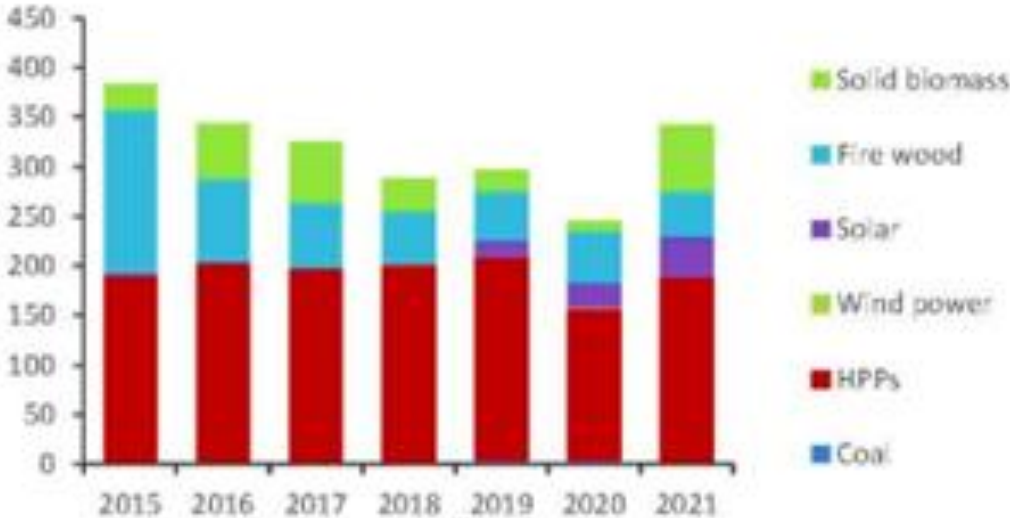
# ARMENIA ENERGY FACTSHEET 2021

## Electricity Generation

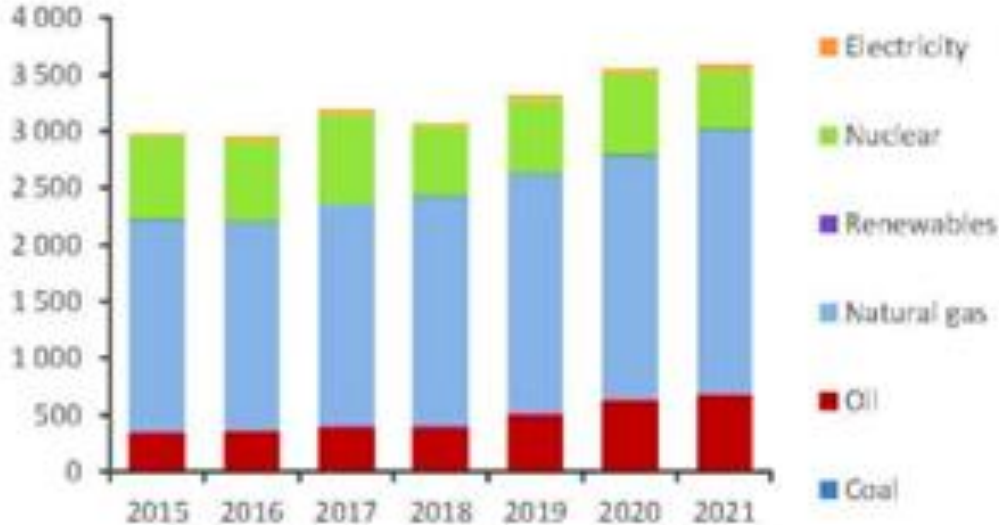
0.68

Armenia produced 0.68 mln toe electricity in 2021, of which by nuclear power plant (25.4%), natural gas fired thermal power plants (42.9%), hydro power plants (27.9%) and wind and solar plants (3.7%).

Primary energy production, ktoe



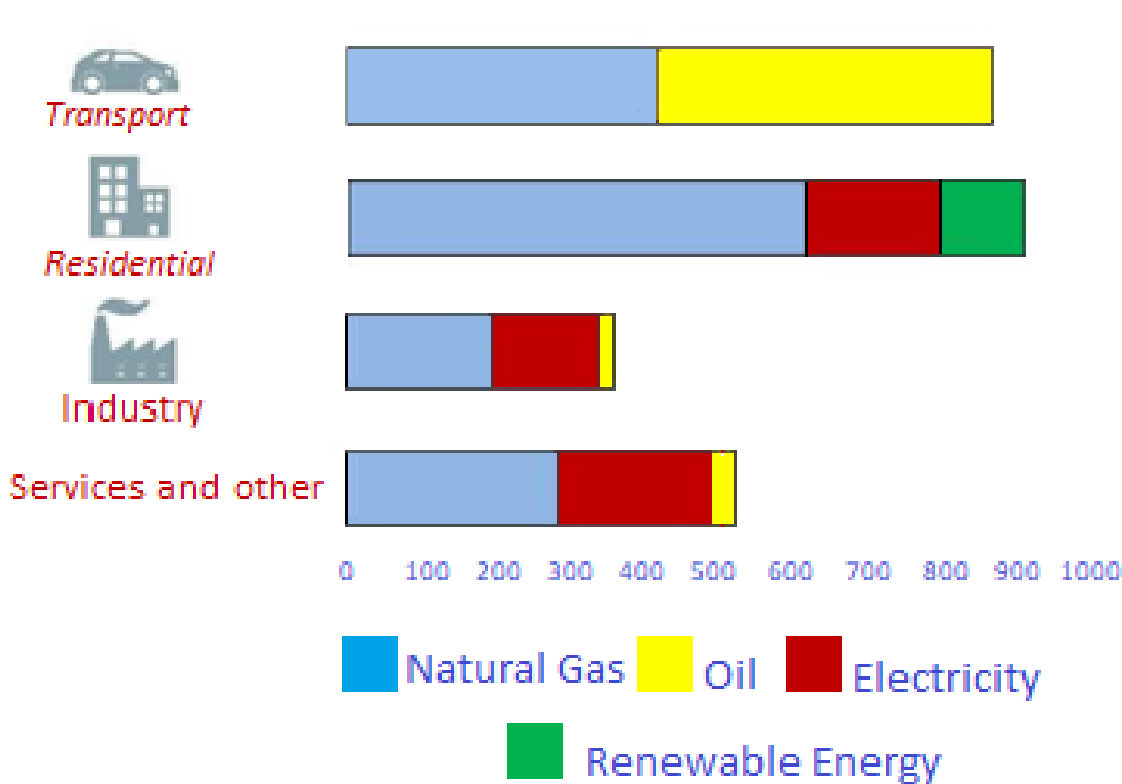
Energy imports, ktoe



# ARMENIA ENERGY FACTSHEET 2021

Total Final Energy Consumption

**2.77** mln toe



Households are the main and largest final consumers of energy (34.7 %), including natural gas and electricity.

Transport is the second largest energy consumer (32.5 %) driving the demand for imported oil products.

# POWER CAPACITY EXPANSION PLAN

About **USD 1.5 BILLION** will be invested in electricity generation by 2040

## Power plants under construction:

Yerevan CCGT-2- 250 MW, USD 250 million

Solar PV Power Plant Masrik-1 - 55 MW, USD 60 million

23 Small HPPs, 50 MW, USD 60 million investment

52 Small Solar PV Plants – with total installed capacity of 210 MW in 2022.

Wind Power Plant- 4 MW.

## **SUMMARY OF UPDATED FIRST NATIONALLY DETERMINED CONTRIBUTION (NDC)**

The new mitigation target to be achieved in 2030 equals 40 percent reduction below 1990 emissions levels.

"The NDC commitment will be met through domestic actions, although donor support will be indispensable in order to ensure its implementation."

"Armenia maintains its 2050 mitigation goal of reducing its GHG emissions to at most 2.07 tCO<sub>2</sub>eq/capita (communicated in the First NDC), to be reflected in its Long Term - Low Emission Development Strategy (LT-LEDS)."

The Updated First NDC includes an adaptation component.

# POLICIES AND PLANS IN THE ENERGY SECTOR

- The Republic of Armenia Energy Sector Development Strategic Program to 2040;
- Program on Energy Saving and Renewable Energy for 2022-2030

The Government aims to increase the share of SOLAR POWER generation at least to **15 %** or **1.8 billion** kWh by 2030. For that purpose, solar power plants with total installed capacity of **1000** MW including autonomous plants will be constructed.

Wind plants, the RoA Government is planning to construct utility scale wind power plants with total installed capacity of **500** MW, in 2025 – 2040

# **SUSTAINABLE DEVELOPMENT GOALS SDG-7**

Government's intention and commitment to achieve SDG 7 and other targets for sustainable energy transition

**7.1 By 2030, ensure universal access to affordable, reliable and modern energy services;**

**7.2 By 2030, substantially increase the share of RE in the energy mix;**

**7.3 By 2030, double the global rate of improvement in energy efficiency**

**7.A By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology;**

**7.B By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all**



# **SUSTAINABLE DEVELOPMENT GOALS SDG-7**

Collaboration with ESCAP on developing the SDG 7

**Armenia participates in UNDA project “Strengthening energy policies of Countries with Special Needs to build back better from COVID-19” intended to develop a national roadmap to achieve Sustainable Development Goal 7 (SDG 7) “Ensuring access to affordable, reliable, sustainable and modern energy sources for all”.**

**The policy makers will be provided with a policy development tool for**

- developing scenarios assessing the share of different energy resources**
- identify required technological interventions, and**
- guide development of a balanced national energy policy**

# **SUSTAINABLE DEVELOPMENT GOALS SDG-7**

Collaboration with ESCAP on developing the SDG 7

Activities undertaken so far:

- **a. Inception workshop in Yerevan - completed**
- **b. Data collection – ongoing**
- **c. Stakeholder consultation workshop – TBD**



THANK YOU

**Suren Shatvoryan, National Expert**  
**Senior Staff Scientist, Scientific Research Institute of Energy**  
e-mail: [suren.shatvoryan@energinst.am](mailto:suren.shatvoryan@energinst.am)