



Renewable Energy and Energy Efficiency in Algeria

Moussaoui Tahar

Chef Département Bâtiment, APRUE

Workshop

**“Investment climate for energy efficiency and renewable energy in
selected Mediterranean countries”**

04 December 2019 – Rome, Italy



Funded by the
European Union

Energy Profile of Algeria

Algeria's Key Indicators

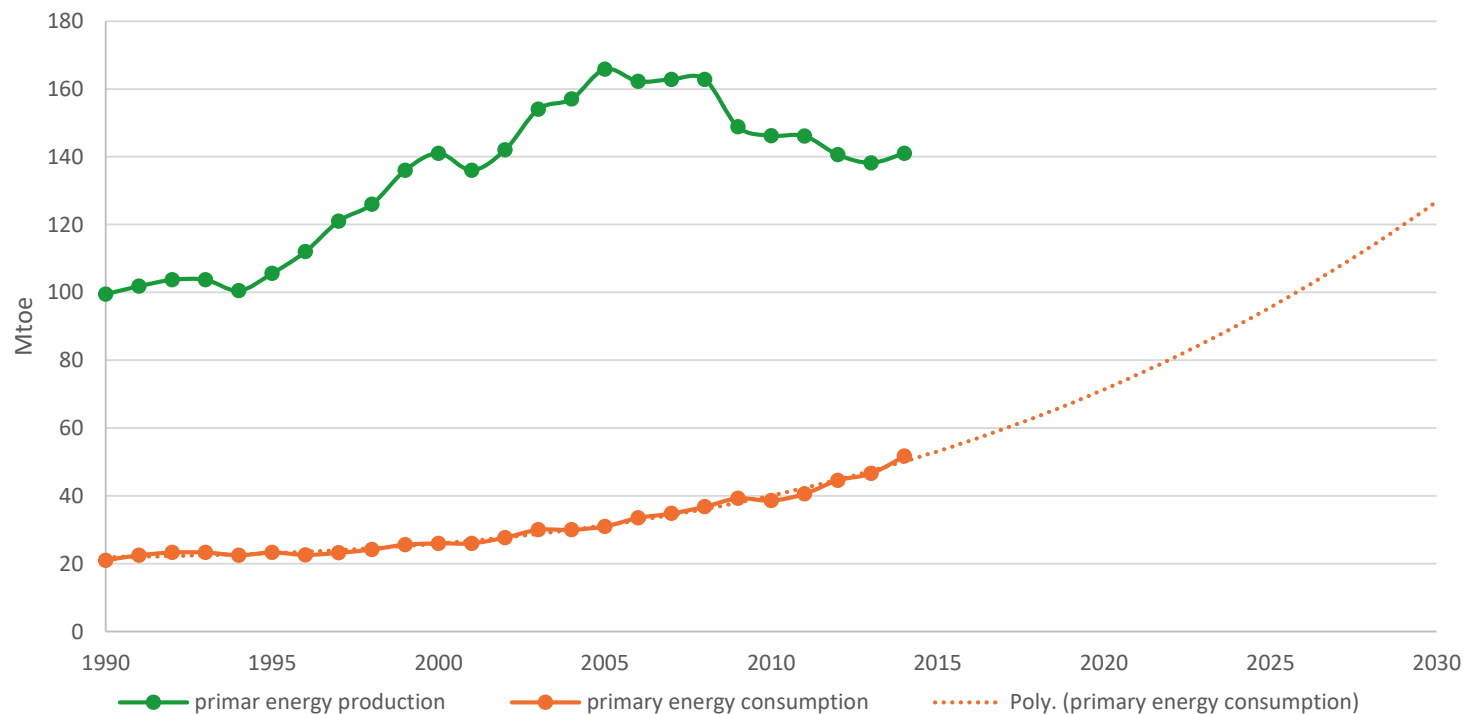
Key indicators	Amount
Population (2013 million)	39.21
GDP (billion 2005 USD)	127.19
CO ₂ emission (Mt of CO ₂)	113.87

IEA, 2016

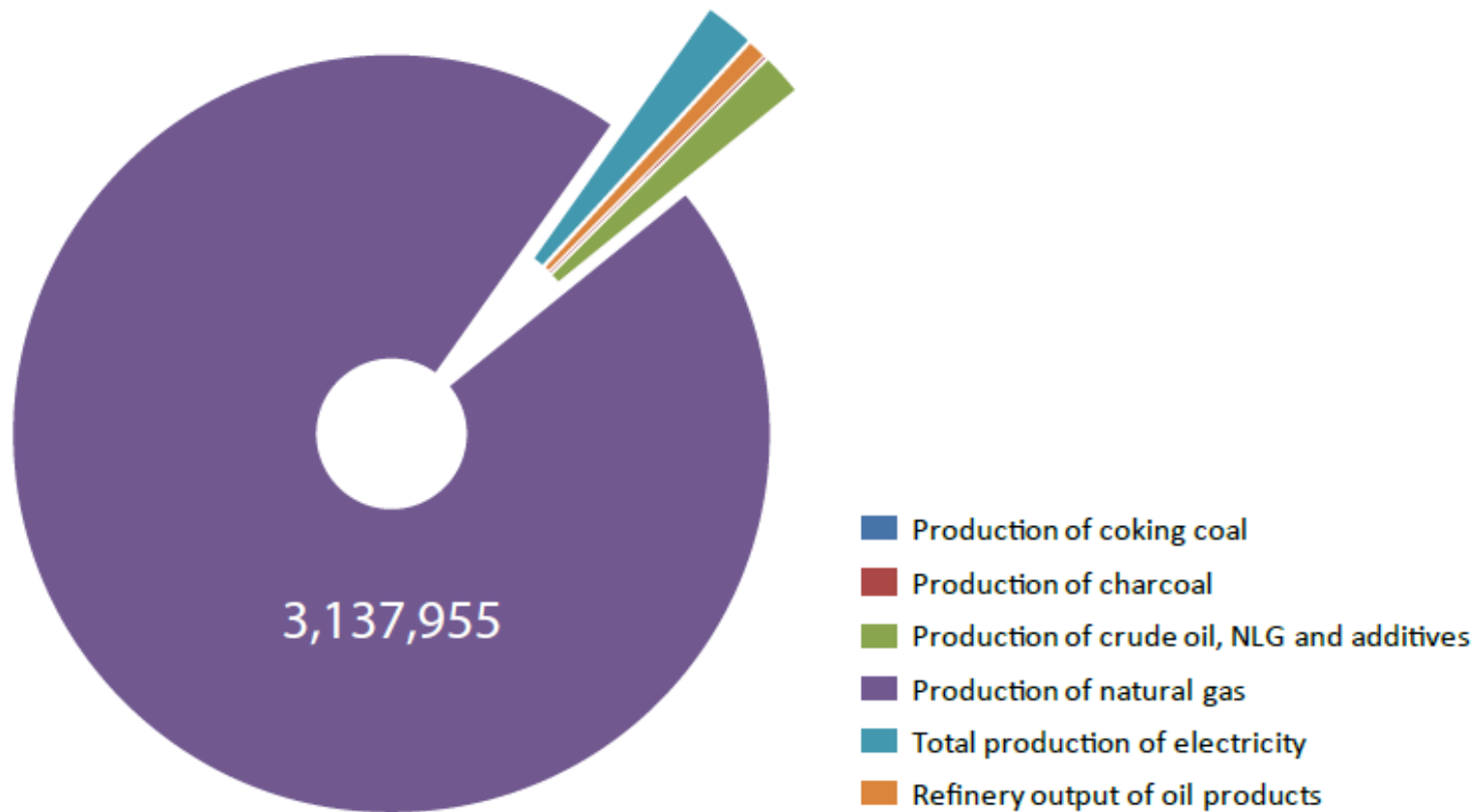
• Energy Consumption and Production

In 2015

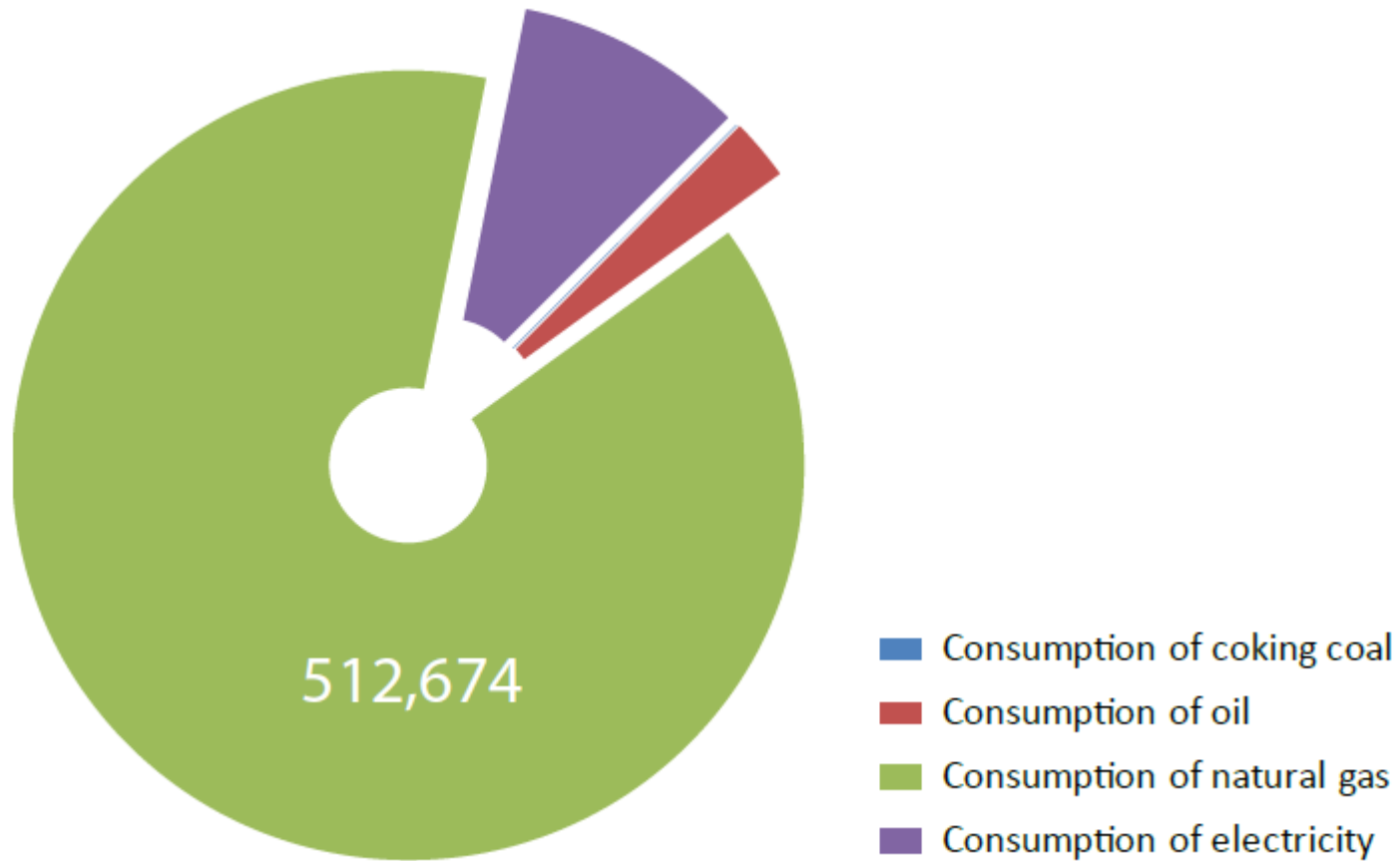
- total production of electricity in the country was 65,588 ktoe with most (99.3 per cent) produced from fossil fuels.
- Generation from renewable sources is almost negligible.
- Final consumption of electricity has been increasing over the years from a low of 18,595 ktoe in 2009 to 54,313 ktoe in 2015



Total energy production, (ktoe)



Total energy consumption, (ktoe)



Energy indicators

Energy production(Mtoe)	Unité / 2017 / APRUE	165.862
Net imports(Mtoe)	Unité / 2017 / APRUE	4189
Total Primary Energy Demand(Mtoe)	Unité / 2017 / APRUE	59 583
Part d'ER dans la Demande d'Energie primaire ER share in the Primary Energy Demand (%)	Unité / 2017 / APRUE	0.1
Total Final Energy Consumption(Mtoe)	Unité / 2017 / APRUE	44 646
Installed Electrical Production Capacity(MW)	Unité / 2017 / APRUE	19 474
Electric production(GWh)	Unité / 2017 / APRUE	1.6
ER share in installed power generation(%)	Unité / 2017 / APRUE	0.01
Power consumption(GWh)	Unité / 2017 / APRUE	137.041
CO2 emissions(MtCO2)	Unité / 2017 / APRUE	4189

consumption by sector of activity

Total Primary Energy Demand Année :2017	%		Total Final Energy Consumption Année: 2017	%
Gaz Naturel / Natural gas	60		Industrie / Industry	15.5
Pétrole / Oil	40		Transports / transport network	40
Charbon / Coal	0.01		Residential	30
Hydro	1		Commercial and Services Publics	7
Eolien / Wind	0		Agriculture & forêts / Agriculture & forests	2
Géothermie/ geothermal	0		Pêche / fishing	1
Solaire / Solar	0		Hydraulique / Hydraulic	3
Biomasse/ biomass	0		Autre / others	1.5
Océan / Ocean	0			
Importations nettes d'électricité / Net electricity imports	0			

NATIONAL ENERGY EFFICIENCY PROGRAM

It is based on five instruments :

- PNME (National Energy Mastering Program)
- PNER (National Renewable Energy Program)
- FNMEERC. (National Fund for Energy Conservation Renewable Energy and Cogeneration)
- ICEM. (Intersectoral Committee for Energy Management)
- APRUE (National Agency for the Promotion and Rationalization of the Energy Use)

Institutional and Legal Framework

The Ministry of Energy is in charge of the energy sector.

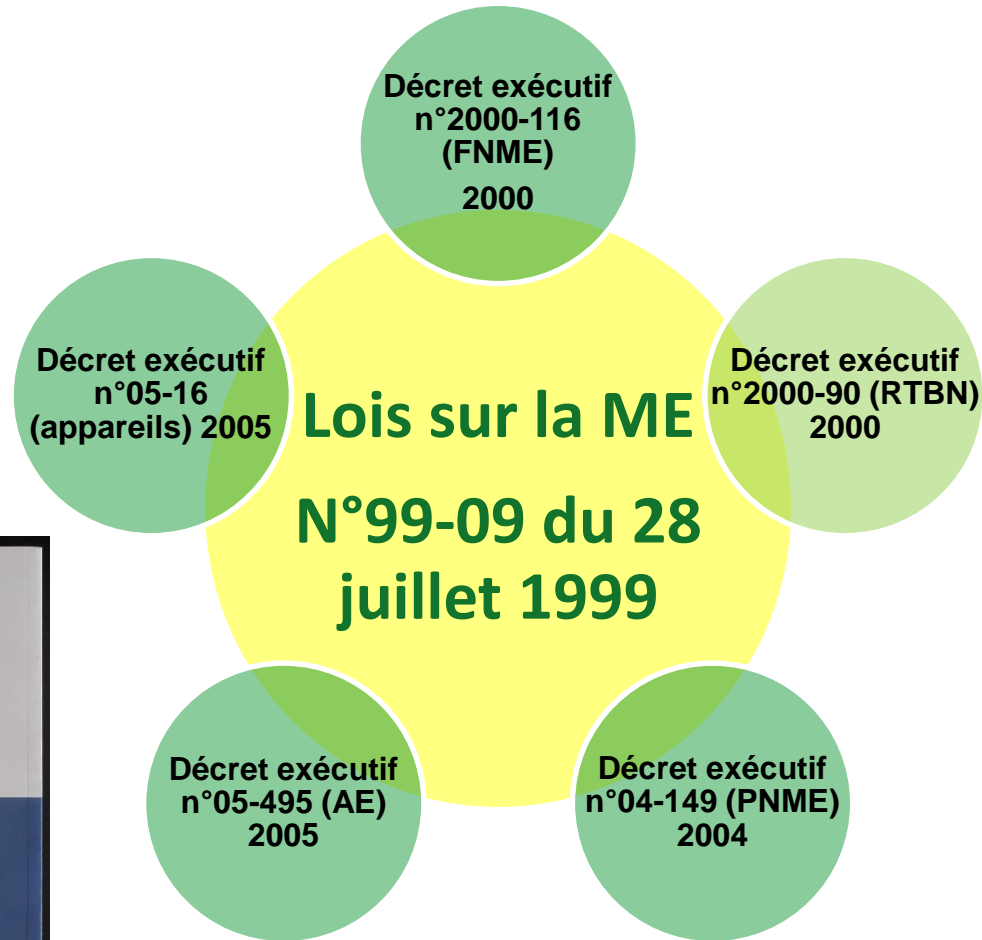
The energy regulator is the Algerian Electricity and Gas Regulation Commission (CREG).

SONELGAZ — the National Society for Electricity and Gas — is in charge of electricity and natural gas distribution in the country. The sector is vertically organized and there are other companies that handle generation, transmission and distribution. On a regional level,

The country is a member of Comite Maghrebin de l'Electricite (COMELEC) Power Pool.

The legal framework is provided by the Law on Electricity and Distribution of Gas No. 02-01. Table 5 highlights the key energy laws and policies in the country.

REGULATORY FRAMEWORK



Texts relating to the control of energy:

Law 09-99 of 28 July 1999 on the control of energy.

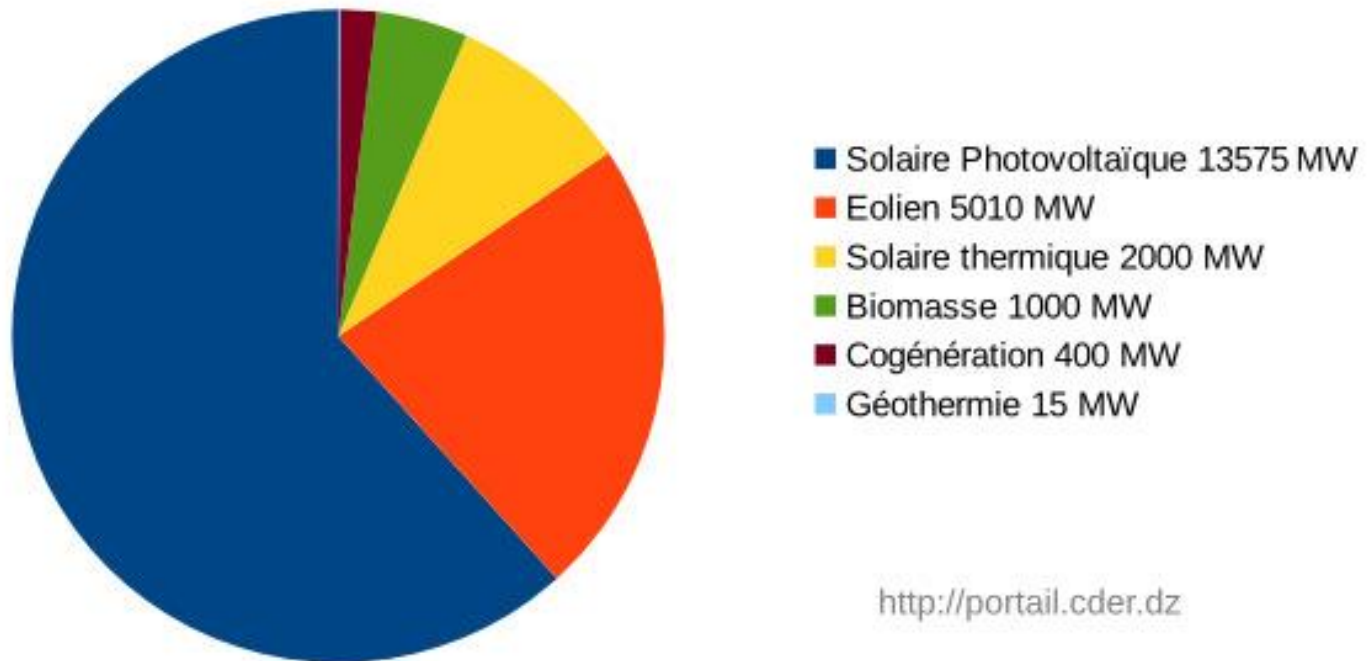
Executive Decree No. 2000-90 of 24 April 2000 on thermal regulation in new buildings.

Executive Decree No. 05-495 of 26 December 2005 on the energy audit of major energy consumers

PNER (National Renewable Energy Program)

Objectifs du programme algérien des Energies Renouvelables

22 GW à l'horizon 2030



<http://portail.cder.dz>

In November 2019:

The Installation of the National Commission for Renewable Energy and Energy Efficiency.

With the aim of addressing the obstacles and difficulties that impede the implementation of the national program.

The approach is to implement encouraging and incitative mechanisms in favor of investments in energy efficiency and renewables in Algeria

Thank you

Contact us!



www.meetmed.org



meetMED Project



@meetmed1



info@meetmed.org



Funded by the
European Union