

DEMOCRATIC AND POPULAR ALGERIAN REPUBLIC  
MINISTRY OF THE ENVIRONMENT AND RENEWABLE ENERGY



# NATIONAL GREENHOUSE GASES INVENTORY IN ALGERIA

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# Summary

- ▶ Presentation of National Waste Agency (NWA)
- ▶ Presentation of Algeria
- ▶ The GHG inventories in Algeria

# Presentation of National Waste Agency (NWA)



## About the National Waste Agency (NWA)

The NWA was created by Executive Decree No. 02-175 of May 20<sup>th</sup> , 2002. Placed under the supervision of the Ministry of Environment and Renewable Energies,



## Statutory missions

- Provide assistance to local authorities in the field of waste management;
- Process data and information on waste;
- Establish and update a national waste data bank;
- popularize the techniques of sorting, collection, transportation, treatment, recovery and disposal of waste;
- Implement and operate the public system for recovery and recovery of packaging waste EcoJem,

# presentation of Algeria



**42.2 million** inhabitants  
(January 2018)

2 381 741 km<sup>2</sup>

surface



Algeria



1<sup>st</sup> Africa, In Mediterranean basin, in Arab world



More than **80%** of the population is concentrated in the littoral and the highlands

**10<sup>th</sup>**

In all the world

Algeria is in a region highly vulnerable to the effects of climate change,



## Erosion

- 13 million hectares affected by erosion
- 4 million in a serious way
- Algeria loses nearly 400,000 ha annually



## Drought (since the 70's)

- a drop in rainfall about 10% in the last 20 years
- a disruption of the agricultural calendar
- a drop in grain yields of up to 50%.



the **Floods** that have hit many parts of the country 10 times since 1971.

Given this fact, Algeria is working to gradually integrate the environmental dimension into its development process, and it is engaged on both national and international levels as follows:

2002

- 1st Report to the Government on Climate Change

2006

- National Agency for Climate Change
- National Designated Authority of the CDM

2009

- UNEP / RISOE - CDM Projects Portfolio
- National Climate Dialogue / UNDP

2011

- National Climate Plan

2013

- Study of the Vulnerability of the Algiers Region to Climate Change

2014-  
2018

- Update of the National Climate Plan
- Support Program for Environmental Sector Policy (PHASE) with support from the European Union

2016

- Designation of the National Focal Point of the Green Climate Fund (GCF)



# Contribution of Algeria to the global effort to fight against CC

At its meeting of May 24<sup>th</sup>, 2015, the board of Ministers, adopted the updating of the national program for renewable energy and energy efficiency.

## Main actions planned for the realization of the national contribution:

### Flagship actions in the Energy sector:



- Substantial increase in the share of renewable energies in national electricity generation by 2030;
- Generalization of efficient lighting;
- Thermal insulation of dwellings between 2021 and 2030;
- Increase in the shares of liquefied petroleum gas and natural gas in fuel consumption between 2021 and 2030;
- Reduction of the flared gas rate from 2021,

### Flagship Actions in the Forest Sector:



- Afforestation and reforestation;
- Prevention of forest fires and improvement of control methods.

### Flagship actions in the Waste sector:



- Waste recovery ;
- Composting of organic waste and green waste;
- Energy recovery and recovery of methane from Technical Landfill Plants, and wastewater treatment plants.

## Organically:

- 2012 Realization of the national climate plan
- 2013 Vulnerability study of the region of Algeria by climate change
- 2014-2018 update of the national climate plan

## At the institutional level

- 2006 the creation of the national climate change agency and the designated national entity
- Designation of the National Focal Point of the Green Climate Fund (GCF)

## At the regulatory level:

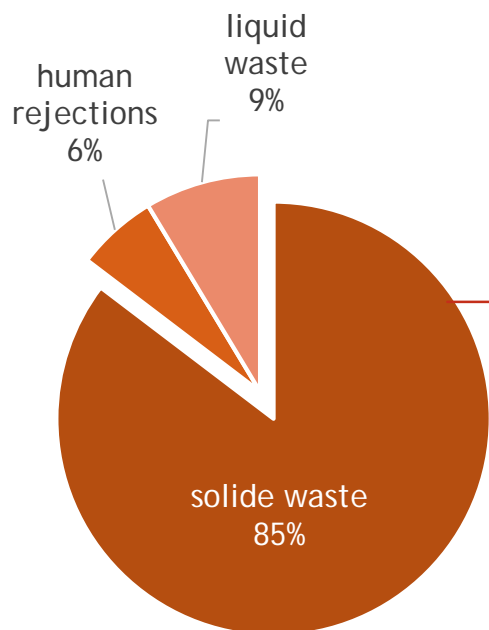
- the implementation of laws and decrees for the fight against climate change, including:
- the law 03-10 for the protection of the environment
  - Decree 05-12-07 for the creation of the National Agency for Climate Change
  - Decrees 13-11-11, 05-375, 07-68, for missions and access to higher position by reporting of the National Agency for Climate Change

# the GHG inventories in Algeria

## The results of the inventory of the year 1994

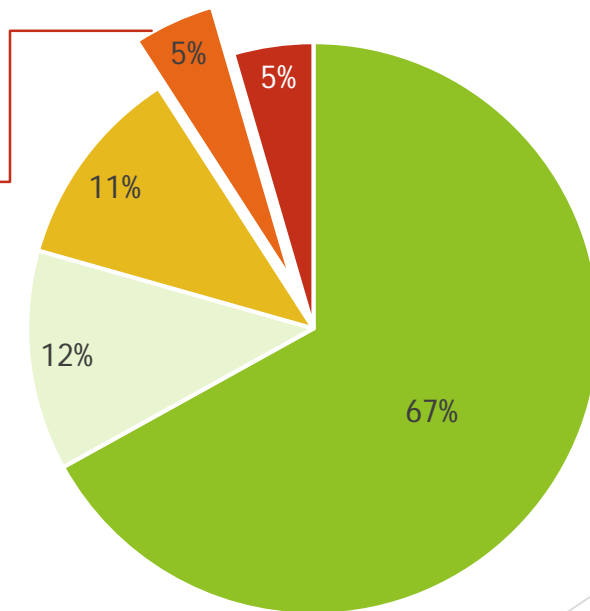
The greenhouse gas emissions of the 1994 inventory are estimated at 75 870.09 (Gg) of (CO<sub>2</sub>), 913.97 Gg of (CH<sub>4</sub>) and 31,39 Gg (N<sub>2</sub>O). CO<sub>2</sub> sequestration by forests is estimated at 4331.46 Gg. It can be considered that during the year 1994, Algeria emitted 104.794 million TE-CO<sub>2</sub> or 3.92 TE-CO<sub>2</sub>t / inhabitant. If we take only CO<sub>2</sub> emissions, the CO<sub>2</sub> emission rate per capita is 2.84 tonnes.

### Gas Emission by Sector



waste sector

### Representation of each sector



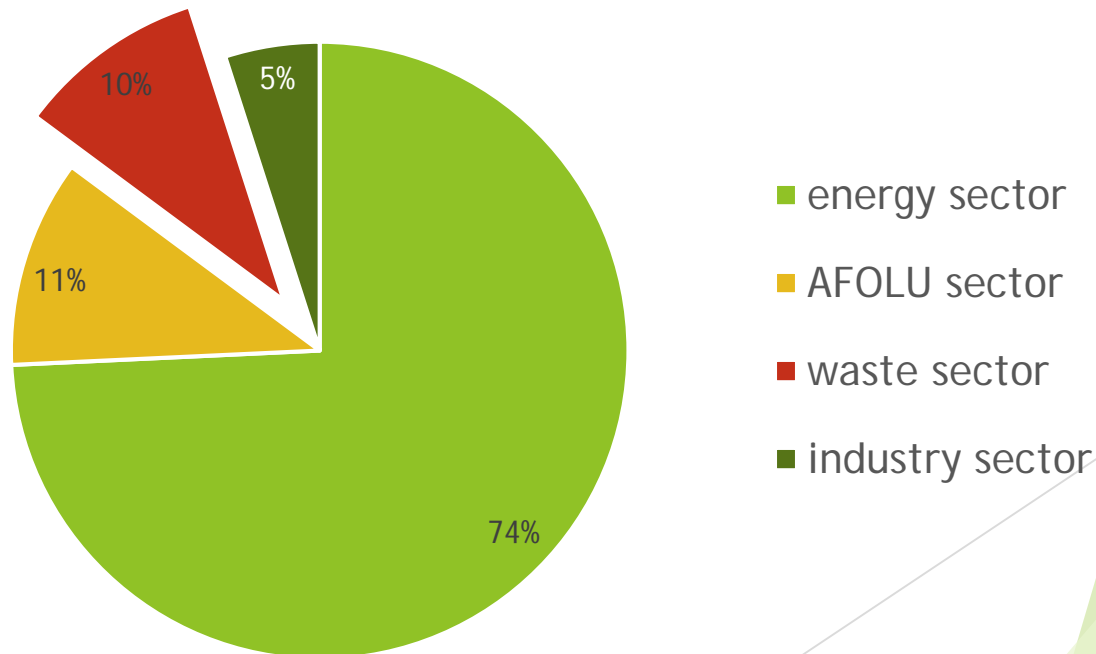
- energy sector
- land use
- agreculture
- waste sector
- industry

## The results of the inventory of the year 2000

The global GHG emissions for the year 2000 total 117310 Gg or 117,310 million tonnes CO<sub>2</sub> equivalent for the year 2000. For the same year, CO<sub>2</sub> absorption by forestry is estimated at 14167 Gg, or 14,167 million tonnes of CO<sub>2</sub>, which leads to the conclusion that net emissions in Eq.CO<sub>2</sub> are 103143 Gg, or 103,143 million tonnes..

### Gas Emission by Sector

Representation of each sector



## ► Reference

- national statistics office
- National waste agency
- Presentation of Mr, DJEMOUAI kamel - Extracted excerpt from a Presentation made on the occasion of WED, June 2013 - Hilton Hotel, Algiers
- national inventory of the year 1994
- national inventory of the year 2000
- website of the national climate change agency

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Thank You