

# CLIMATE CHANGE & DISASTER RISK REDUCTION SNAPSHOT

Moldova



Empowered lives.  
Resilient nations.

## Key Facts

In 2011,  
every citizen of Moldova  
emitted on average **1.4 tCO<sub>2</sub>**,  
which is lower ↓ than the  
world average of **4.98 tCO<sub>2</sub>**



Population: 3.556 million



Surface Area: 32,860 km<sup>2</sup>



Capital City: Chisinau



GDP (2014): \$ 7.9 billion



GDP p.C.(2014): \$ 2,234



HDI (2014): 0,693 (107)

## Intended Nationally Determined Contribution (INDC)\*

### Mitigation:

**Type:** Economy-wide unconditional and conditional absolute target from base year (1990) emissions

↓ **Unconditional:** By 2030, GHG emission reduction by **64 - 67%** below 1990 level with best efforts to reach **67%**

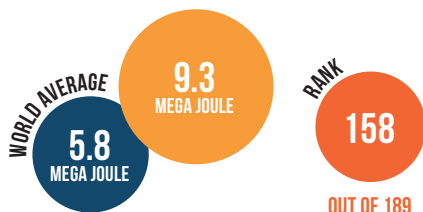
↓ **Conditional:** By 2030, GHG emission reduction by up to **78%** below 1990 level

**Adaption:** The Republic of Moldova's 2020 CC Adaptation Strategy and the Action Plan on its implementation create the enabling environment for specific sectors and ministries to "mainstream" CC adaptation and risk management in their strategies through a series of NAPs and SAPs, supported by a long-term financial strategy that includes national resources and international support.

\* The Republic of Moldova is a non-Annex I Party to the UNFCCC.

## Energy Consumption and Intensity

Energy intensity in 2012  
in mega joule per 2011 PPP:



2012

Between 2011 and 2012, energy consumption increased by **35 petajoules**

2011

**Decrease** in primary energy intensity in **2012** compared to **2010**:

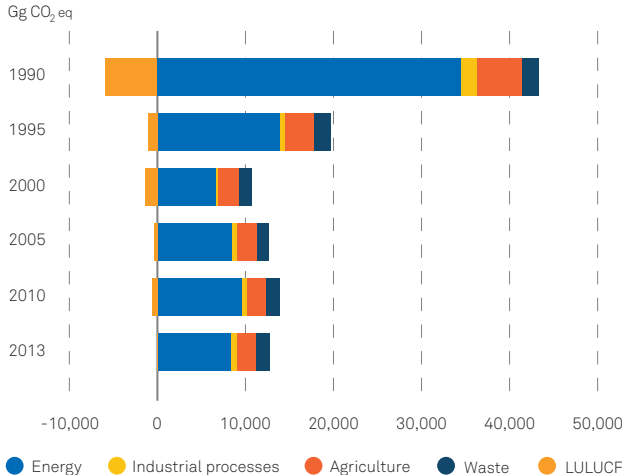
**-4.75 %**

World Average:

**-1.74 %**

# CLIMATE CHANGE MITIGATION

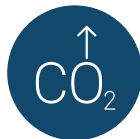
## GHG Emission by Sector over Time



In 2013, the **Energy sector** accounted for over **65 %** of the total GHG emissions which is a decrease of almost **30 percentage points** compared to 1990.



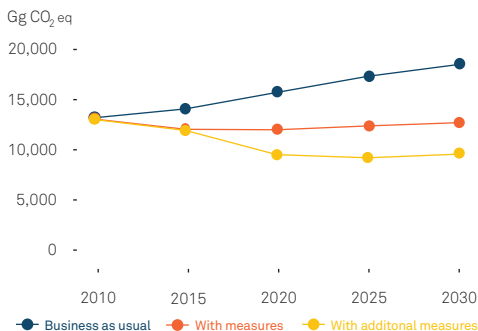
Oil reserves:  
**0.01** million tonnes



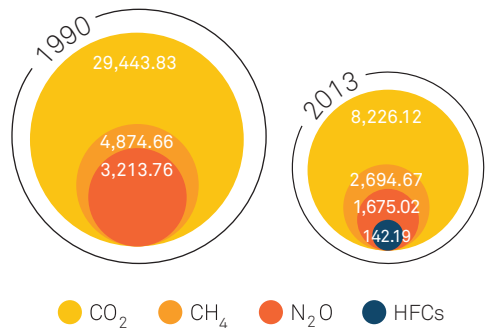
One tonne of total supplied energy causes **2.18 tonnes** CO<sub>2</sub> emissions.

Compared to **1.96 world average** and **2.36 regional average**.

## GHG Emissions Scenarios



## GHG Emissions by Type<sup>1</sup>







<sup>1</sup> HFC data for 1990 is not available.

# CLIMATE CHANGE ADAPTATION & DISASTER RISK REDUCTION



## MOST SIGNIFICANT HAZARDS

-  Floods
-  Droughts
-  Wind storms
-  Landslides
-  Earthquakes



Flood in 2008: Affected the northern and southern areas of Moldova and caused damage of **US\$ 120 million**

## Priority Areas of UNDP Intervention for 2015–2030 in DRR

● Priorities for Moldova



## INFORM 2016

Global risk assessment for humanitarian crises and disasters

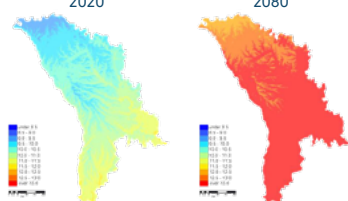
	Hazard & Exposure	Vulnerability	Lack of Coping Capacities	Country Rating
Global average	3.3	3.6	4.7	97 out of 191
Regional average	3.6	2.9	4.4	10 out of 18
Country	4.2 ▲	2.2	4.7 ▲	



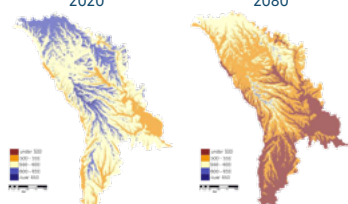
The anticipated rate of warming by 2080 is in the range of **+2.7 °C to +4.3 °C** under various scenarios with clear differentiation across northern and southern regions. Most of climate scenarios envisage a **decrease in the mean annual precipitation** by 2080 with an increase in precipitation during winter and spring months and rainfall reduction during summer.



Annual mean temperature in °C



Annual mean precipitation in mm



Source: Third National Communication to the UNFCCC (2013), A2 scenario

# FURTHER INFORMATION

## References<sup>2</sup>

Central Intelligence Agency, 2014: the World Factbook.

Government of the Republic of Moldova, 2015: Intended Nationally Determined Contribution (INDC).

Government of the Republic of Moldova, 2013: Third National Communication of the Republic of Moldova under the UNFCCC.

Low Emission Development Program.

IEA Energy Atlas, 2012. "CO<sub>2</sub> Emissions from Fuel Combustion".

International Energy Agency (IEA) and the World Bank, 2015. "Sustainable Energy for All 2015 – Progress Toward Sustainable Energy", June. World Bank.

UNDP Human Development Reports, 2014: Data Catalog.

World Bank, 2014: Data Catalog.

World Energy Council, 2013. "World Energy Resources: Coal".

## Policies and Strategies

National Environmental Strategy (NES), 2014-2023 (CC mainstreamed)

Climate Change Adaptation Strategy, 2015-2020

Strategy of sustainable development of the forestry sector in Moldova (CC mainstreamed)

National Water Supply and Sanitation Strategy, 2014-2028 (CC mainstreamed)

National Biodiversity Strategy and Actions Plan (CC mainstreamed)

Energy Strategy 2030 (CC mainstreamed)

National Strategy for Rural and Agricultural Development (CC mainstreamed)

## UNDP's Climate Change and DRR related interventions

Transforming the market for Urban Energy Efficiency (ESCO Moldova)

Sustainable Green Cities (under development)

Moldova Energy and Biomass Project

Disaster and Climate Risk Reduction Project, Phase II, 2013-2016

Climate Change Adaptation Process in Moldova, 2013-2016

Low Emissions Capacity Building Program

Clima East Moldova: Climate change mitigation and ecosystem-based adaptation in Orhei National Park



For more information, visit:  
<http://www.eurasia.undp.org/>

United Nations Development Programme  
Istanbul Regional Hub for Europe and CIS  
Key Plaza, İstiklal Sk. No: 11  
Şişli, 34381, Istanbul, Turkey

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<sup>2</sup> The links to the references are available in the web-version of the snapshot at <http://www.eurasia.undp.org/>