

# CLIMATE CHANGE & DISASTER RISK REDUCTION SNAPSHOT

Ukraine



Empowered lives.  
Resilient nations.

## Key Facts

In 2011,  
every citizen of Ukraine  
emitted on average **6.3 tCO<sub>2</sub>**  
which is higher than the  
world average of **4.98 tCO<sub>2</sub>**



Population: 45.363 million



Surface Area: 603,628 km<sup>2</sup>



Capital City: Kiev



GDP (2014): \$ 131.8 billion



GDP p.C.(2014): \$ 2,905



HDI (2014): 0.747 (81)

## Intended Nationally Determined Contribution (INDC)\*

### Mitigation:

Type: Economy wide, absolute



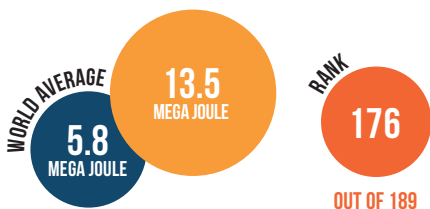
Will not exceed  
**60%** of 1990  
GHG emissions  
level in 2030

**Adaption:** Ukraine will support national adaptation processes in the context of the international commitments in this field. For a medium term outlook, the adaptation activities will be considered with the same priority as mitigation activities.

\* Ukraine is an Annex I Party to the UNFCCC.

## Energy Consumption and Intensity

Energy intensity in 2012  
in mega joule per 2011 PPP:



2012

**2,120 petajoules** of  
the cumulative energy  
consumption was

**AVOIDED**

2011

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

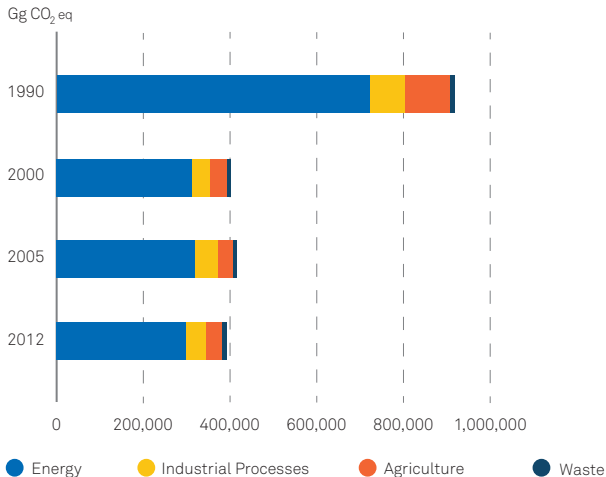
**-6.26 %**

World Average:

**-1.74 %**

# CLIMATE CHANGE MITIGATION

## GHG Emission by Sector over Time<sup>1</sup>



<sup>1</sup> Solvents are not included due to visual reasons.



Coal reserves:  
**33,873** million tonnes



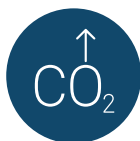
Oil reserves:  
**395** million barrels



Gas reserves:  
**1,104** billion standard m<sup>3</sup>



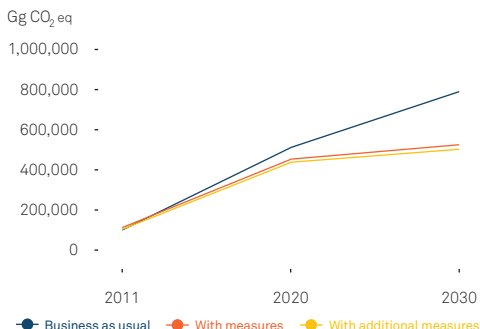
In 2012, the **Energy Sector** accounted for **77%** of the total GHG emissions.



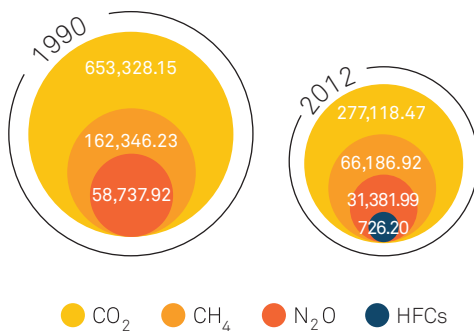
**One tonne** of total supplied energy causes **2.28 tonnes** CO<sub>2</sub> emissions.

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

## GHG Emissions Scenarios



## GHG Emissions by Type<sup>2</sup>



<sup>2</sup> HFC data for 1990 is not available.

# CLIMATE CHANGE ADAPTATION & DISASTER RISK REDUCTION



## MOST SIGNIFICANT HAZARDS

-  Floods
-  Storms
-  Landslides
-  Fires
-  Extreme temperatures

## Examples of the most significant disasters:



Drought in 2012:  
Economic damage  
**US\$ 1.5 million**

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

● Priorities for Ukraine



## INFORM 2016

Global risk assessment for humanitarian crises and disasters

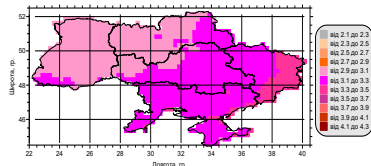
|                  | Hazard & Exposure | Vulnerability | Lack of Coping Capacities | Country Rating |
|------------------|-------------------|---------------|---------------------------|----------------|
| Global average   | 3.3               | 3.6           | 4.7                       | 104 out of 191 |
| Regional average | 3.6               | 2.9           | 4.4                       | 1 out of 18    |
| Country          | 6.9 ▲             | 4.4 ▲         | 5.1 ▲                     |                |



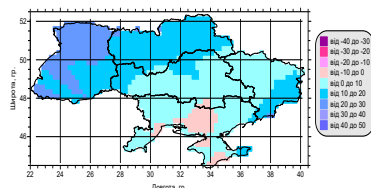
By the end of the 21st century climate models predict increasing average temperatures of **3.8 ± 0.8°C** compared to the baseline period (2001-2010).



Projections of annual average air temperature change (°C) in 2081-2100 compared to 1991-2010



Projected changes in rainfall (%) in 2081-2100 compared to 1991-2010



Source: UNDP Ukraine

# FURTHER INFORMATION

## References<sup>3</sup>

Central Intelligence Agency, 2014: the World Factbook.

Government of Ukraine, 2015. Intended Nationally Determined Contribution (INDC).

Government of Ukraine, 2013: Sixth National Communication of Ukraine under the UNFCCC.

Government of Ukraine, 2009: Third, Fourth and Fifth National Communication of Ukraine under the UNFCCC.

IEA Energy Atlas, 2012. "CO2 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.

UNFCCC, GHG Emission Profile Ukraine.

World Bank, 2014: Data Catalog.

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

## Policies and Strategies

Climate Policy of Ukraine (under development)

State Climate Policy Concept (2016-2030) (under development)

National Mitigation Plan and National Adaptation Plan on Climate Change 2016-2020 (under development)

## UNDP's Climate Change and DRR related interventions

Bioenergy Technologies Project

Energy Efficiency in Public Buildings Project

Improvement of the Living Conditions in Rural Ukraine Project

Energy Efficient Lighting Project

Community Based Approach to Local Development Project



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

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<sup>3</sup> The links to the references are available in the web-version of the snapshot at <http://www.eurasia.undp.org/>