



Danish Energy
Agency



MINISTRY OF FOREIGN AFFAIRS
OF DENMARK
Danida

The joint
Danish-Ukrainian
cooperation
on energy policy
reforms



Key Data

Ukraine

Population (millions):	45 (2016)
CO ₂ -emissions (Mega tonnes):	189.4 (2015)
CO ₂ (t/capita):	4.20 (2015)
kg CO ₂ /GDP:	1.56 (2015)
Investment in RE (billion \$US):	0.23 (2016)

Source: IEA 2017, WorldBank 2016 and Frankfurt School-UNEP Centre/BNEF 2017



INDC goals - Ukraine

Greenhouse gas emissions level will not exceed 60% of 1990 GHG emissions level in 2030.

Ukraine's INDC will be revised after the restoration of its territorial integrity and state sovereignty as well as after the approval of post-2020 socio-economic development strategies with account of investment mobilization.

Denmark

Population (millions):	5.7 (2016)
CO ₂ -emissions (Mega tonnes):	32 (2015)
CO ₂ (t/capita):	5.63 (2015)
kg CO ₂ /GDP:	0.09 (2015)
Investment in RE (billion \$US):	2.5 (2016)

Source: IEA 2017, WorldBank 2016 and Frankfurt School-UNEP Centre/BNEF 2017

Green government-to-government cooperation

Inclusive, sustainable growth and development is a strategic objective of Denmark's development cooperation. Economies in transition and emerging economies are considered key players for achieving the global Sustainable Development Goals and it is important to provide support for their sustainable development, as they demand expertise, knowledge, technologies and investments to make appropriate strategic choices for their sustainable development. This is not least true with regard to development of their energy sector.

The Danish Energy Agency's global cooperation intends to assist partner countries with their transition to a low

carbon pathway reaching the National Determined Contribution (NDC) targets they committed to at COP21.

The primary modality of the Danish Energy Agency is to engage in government-to-government cooperation to promote the common climate change agenda. It strives for true peer-to-peer exchange to advance the understanding of policy options, strengthen planning - and framework conditions, and strengthen enforcement of regulation.

The overall development objective agreed to by the counterparts of the Partnership Program between Denmark and Ukraine is that the enabling environment for investment in sustainable energy is



Primary energy sources Первинні джерела енергії	2000 (fact), (факт)	2015 (fact), (факт)	2035 (forecast), (прогноз)
Coal, Вугілля	28,8	30,4	12,5
Natural gas, Природний газ	46,4	28,9	30,2
Oil products, Нафтопродукти	8,9	11,6	7,3
Nuclear power, Ядерна енергія	15,0	25,5	25,0
Biomass, biofuel and waste, Біомаса, біопаливо та відходи	0,2	2,3	11,5
Solar and wind power, Сонячна та вітроенергетика	0,0	0,1	10,4
Hydropower stations, Гідроелектростанції	0,7	0,5	1,0
Thermal power*, Теплова потужність *	0,0	0,6	2,1
Total, Всього	100 %	100 %	100 %

* Thermal energy of the environment and discharge resources of technogenic nature.

* Теплова енергія навколишнього середовища та скидання ресурсів техногенного характеру.



Source: Energy strategy of Ukraine for the period up to 2035 and IEA Statistics.

strengthened, assisting Ukraine in achieving its renewable energy, energy efficiency and energy independence targets.

Facing the challenges

Energy security and transition to efficient use and consumption of energy resources are the main focus areas of Ukraine in its energy sector development up to 2035. The

Energy Strategy of Ukraine up to 2035 lays out the objectives and mechanisms for the energy sector, provides the mechanisms of transformation until 2020 and defines strategic development targets up to 2035.

Ukraine aims at achieving an 11 % share of Renewable Energy Sources (RES) within the gross final energy consumption in the country by 2020, and in terms of energy efficiency a national energy saving target at 9% in 2020 compared to the average domestic final energy consumption for the period of 2005-2009. In 2035 RES are expected to be 25% of the primary energy sources.

Ukraine and Denmark cooperate on energy policy reforms

With support from the DEA, the Ukrainian-Danish energy cooperation is contributing to energy policy and planning reforms in Ukraine. DEA has substantial experience in cost-efficient long-term energy planning for an efficient energy system emphasizing both security of supply and environment. This knowledge is utilised in the Ukrainian-Danish Energy Centre (UDEC).

Joint effort in accelerating energy reforms

The UDEC is financed through an agreement between the Ministry of Energy and Coal Industry of Ukraine and the

DEA is supporting UDEC within six main areas:

1. Monitoring of the New Energy Strategy 2035
2. Short- and long-term forecasting and modelling
3. Enabling smart power systems incl. reserves, balancing and storage and forecasting
4. Structure for support to investors in Energy Efficiency and Renewables
5. Implementation of the National Energy Efficiency Action Plan 2020 and support to new plan towards 2035
6. Implementation of Renewable Energy Action Plan 2020 and support to new plan towards 2035

Ministry of Foreign Affairs of Denmark under the Danish neighbourhood programme.

The DEA entered an agreement with the Ministry of Foreign Affairs and DEA will deliver technical assistance to UDEC during 2015-2020. The total budget for the programme is 20 million DKK.

UDEC is based in the Ministry of Energy and Coal Industry in Kiev. The Head of UDEC and a technical coordinator has been appointed by the Ministry of Energy and Coal Industry. A chief Advisor from DEA has been located in Kiev since May 2015. DEA provides technical assistance to UDEC and participates in the established Inter-

ministerial Working Group chaired by Head of UDEC .

The energy cooperation aims at contributing to the preparation of a long-term framework for energy planning and policy by Ukraine and towards improvement of data and scenarios for energy supply and consumption towards 2035.

The UDEC work programme defines the specific tasks to be carried out in relation to the specific activities, set up the organisation as well as division of responsibility between relevant parties. A Steering Committee chaired by the

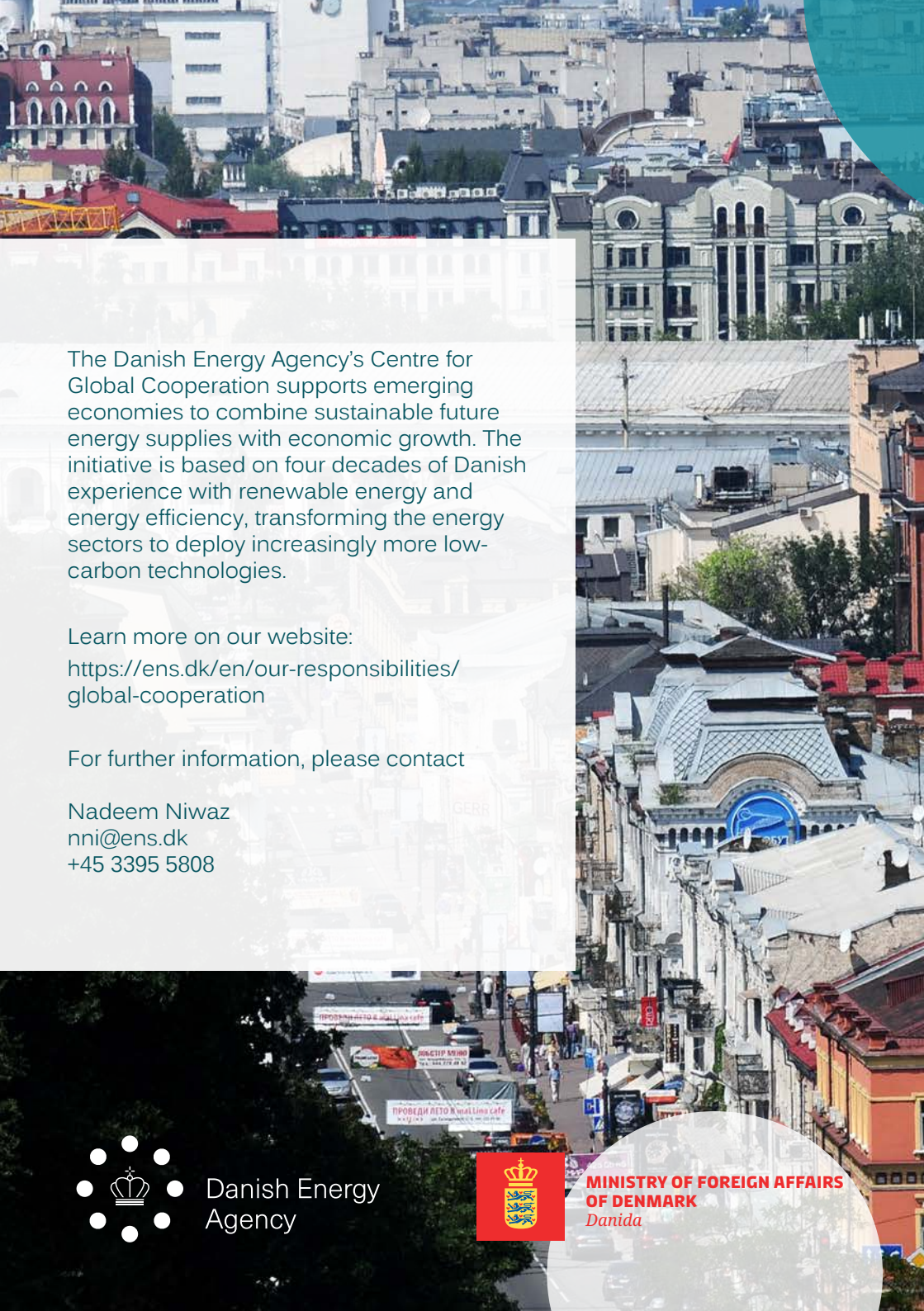


Minister of Energy and Coal Industry of Ukraine ensures high-level participation and progress within the activities. The Danish Ambassador of Ukraine is vice-chair in the Steering Committee and members are DEA and government institutions in Ukraine under the cooperation.

Additional to the Ministry of Energy and Coal Industry, key partners in Kiev are State Agency for Energy Efficiency and Energy

Savings, State Statistics Service of Ukraine, Ministry of Ecology and Natural Resources and Ministry of Economic Development and Trade. The cooperation enhances the basis for necessary Ukrainian energy policy and planning reforms and strengthens the collaboration between Ukraine and Denmark.





The Danish Energy Agency's Centre for Global Cooperation supports emerging economies to combine sustainable future energy supplies with economic growth. The initiative is based on four decades of Danish experience with renewable energy and energy efficiency, transforming the energy sectors to deploy increasingly more low-carbon technologies.

Learn more on our website:

<https://ens.dk/en/our-responsibilities/global-cooperation>

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