Renewable Energy:
Status, Opportunities and Perspectives in Ukraine
Key priority: Substitution of Natural Gas

Reduction of gas consumption for the years 2013/2014/2015 *

Dynamics of natural gas replacement during 2014/2015 years **

\[ \sum 1,204 \text{ MW} \]
introduced during 2 years

*According to "Naftogaz Ukraine"
(Excluding ARC, Luhansk and Donetsk regions).

**According to regional state administrations
National Renewable Energy Action Plan Until 2020

- adopted in accordance with Directive 2009/28/EC on the promotion of the use of energy from renewable sources;
- approved by the Cabinet of Ministers of Ukraine Decree №902-p dated October 1, 2014.

11% of RES in the end-use energy balance in 2020

- 12.4% of RES in district heating and cooling systems
- 11% of RES in electric power industry
- 10% of RES in transport sector
Total technically recoverable energy potential of renewable energy sources of Ukraine
Typical construction model of BioCHPP

- **Capacity:** 5.3 MW – electricity
  13 MW – heat power
- **Efficiency:** 87% (chips 1970 Kcal/kg)
- **Fuel:** chips, pellets
- **Cost:** 0.09 EUR/kW*h
  23.8 EUR/Gcal
- **Rates:** 0.12 EUR/kW*h
  44 EUR/Gcal

Necessary investments about 16 million EUR

The payback period is 3.5 years from the date of commissioning

*(construction time - 1 year)*