

**ENERGY EFFICIENCY: A BURNING ISSUE**

*Did you know...*

**In central and eastern Europe, energy waste is a legacy of the command economy. These countries use up to seven times more energy to produce each unit of GDP, compared with western Europe.**

*Source: EBRD Energy Policy, 2006*

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*Did you know...*

**Transition countries' energy needs are projected to rise by 60-80% over the next 20 years. In most, energy efficiency is their biggest potential source of new energy supply. Only four of the 27 countries are rich in oil and gas.**

*Source: EBRD Energy Policy 2006*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**

*Did you know...*

**EBRD countries of operations are, and are projected to remain, among the world's highest emitters of greenhouse gases, after the US and China and marginally ahead of the EU-15.**

*Source: World Resources Institute*


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*Did you know...*

**If all former communist bloc nations in eastern Europe and central Asia could reach western European levels of energy efficiency, world energy consumption could fall 7.2%.**

*Source: International Energy Agency*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**



**The EBRD is leading the way in addressing energy inefficiency, an enduring legacy of the command economy in central and eastern Europe. Learn more at [www.ebrd.com/country/sector/energyef](http://www.ebrd.com/country/sector/energyef)**



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*Did you know...*

**Under its Sustainable Energy Initiative, the EBRD proposes almost doubling its ‘green energy’ investments by 2009 to €1.5 billion to improve the region’s competitiveness, energy security and to rein in climate impacts of growth.**

*Source: EBRD Sustainable Energy Initiative*

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*Did you know...*

**Economic growth and a decline in carbon dioxide emissions can go hand-in-hand if energy saving policies are introduced. CO<sub>2</sub> emissions fell in relation to GDP by over 43% in central Europe between 1990-2002.**

*Source: US Energy Information Administration*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**

*Did you know...*

**Transition countries emit more greenhouse gas per unit of GDP than do western Europeans – 30 times more in some cases – and are responsible for 13% of global annual GHG emissions.**

*Source: US Energy Information Administration; EBRD Energy Policy 2006*


ENERGY ECONOMY **ENVIRONMENT** EFFICIENCY

*Did you know...*

**The Russian government calculates the country could save up to 40% of its current annual energy consumption through improved efficiency.**

*Source: Russian Ministry of Industry and Energy*

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*Did you know...*

**Energy prices in many transition countries are still subsidised, encouraging waste. In the Kyrgyz Republic, Turkmenistan and Uzbekistan, electricity consumers pay less than two US cents per kilowatt hour; cost recovery would be twice that.**

*Source: EBRD Sustainable Energy Initiative*

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*Did you know...*

**Industry in transition countries is characterised by obsolete, inefficient processes and technologies. In Russia, 22% of steel output in 2004 was by inefficient open-hearth furnaces versus 3.9% in India and 0% in the EU.**

*Source: EBRD Fact Sheet on Energy Efficiency in Russia*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**

*Did you know...*

**The EBRD loaned \$1 million to RAO-UES in 2001 to help Russia's largest power company establish its Energy Carbon Fund which has signed Russia's first carbon trades. These are paying for energy efficiency improvements in RAO-UES operations.**

*Source: EBRD Fact Sheet on Energy Efficiency in Russia*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**

*Did you know...*

**Households in Bulgaria can achieve 40-50% energy savings just through changing their windows or insulation. Businesses can also save: one baker cut his energy costs by 85%, using EBRD credit to improve efficiency.**

*Source: Bulgarian Energy Efficiency Agency; EBRD*

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*Did you know...*

**If it took advantage of all energy efficiency improvements available, Ukraine could reduce by half the 70% of its gas supply it now imports, greatly increasing the country's energy security.**

*Source: UkrESCO*

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*Did you know...*

**UkrESCO, the EBRD-funded Ukrainian Energy Services Company, has initiated 19 energy saving projects. It helped Ukraine's biggest chicken feed company save \$3 million on energy, an investment that paid for itself in 18 months.**

*Source: UkrESCO*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**

*Did you know...*

**Pollution from 200 large coal-fired plants in the EU-25, Norway and Switzerland claims 800,000 life-years annually. These plants could significantly reduce emissions by switching to cleaner fuels and using coal gasification techniques.**

*Source: WWF International*

ENERGY ECONOMY ENVIRONMENT EFFICIENCY

*Did you know...*

**By the end of 2005 the EBRD had financed 28 renewable energy projects, mostly in hydroelectricity, totalling €300 million, with an overall project value of double that amount.**

*Source: EBRD Sustainable Energy Initiative*

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*Did you know...*

**In Georgia, EBRD finance helped rehabilitate 260 megawatts of capacity – enough to supply one-quarter of the population – that had been out of commission for 13 years at the Enguri Hydro Power Plant.**

*Source: EBRD*

**ENERGY** ECONOMY ENVIRONMENT EFFICIENCY

*Did you know...*

**The EBRD has financed many large-scale power projects in Russia including Lenenergo, providing a 40% energy gain which is equivalent to the energy consumed by more than 250,000 Russians in a year.**

*Source: EBRD Fact Sheet on Energy Efficiency in Russia*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**

*Did you know...*

**In Bulgaria's renewable energy sector, ultra-efficient burners fuelled by wood, sunflower seed pods and other biomass pay for themselves in under three years. The locally-produced fuel is half the price of imported natural gas.**

*Source: Erato Bulgaria*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**

*Did you know...*

**In Bosnia and Herzegovina, the EBRD has invested in energy efficiency improvements in an old steel mill purchased by Mittal Steel. Anticipated annual energy savings are roughly equal to the energy consumed by 70,000 Bosnian homes.**

*Source: [www.ebrd.com/new/stories/2006](http://www.ebrd.com/new/stories/2006)*

**ENERGY ECONOMY ENVIRONMENT EFFICIENCY**

*Did you know...*

**In Moldova, EBRD investment in the power sector has reduced power outages and other losses by the equivalent amount of electricity that would serve over 200,000 households.**

*Source: EBRD*

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*Did you know...*

**In Bulgaria, 36 projects financed by the EBRD's Energy Efficiency and Renewable Energy Credit Line have yielded CO<sub>2</sub> emission reductions of 263,000 tons a year, equal to that produced by 40,000 UK households.**

*Source: [www.beerecl.com](http://www.beerecl.com)*

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[www.ebrd.com](http://www.ebrd.com)



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