energy24

How the Climate Challenge and Energy Policy can Drive Innovation

3 case studies from the Czech Republic

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Fossil fuels: 81% of the world energy balance

Wind Turbines & Solar Panels make 0.8% of World Energy
Population & energy consumption grow fast

World population

World energy consumption

Source: Vaclav Smil
Global CO$_2$ emissions by world region, 1751 to 2015
annual carbon dioxide emissions in billion tonnes (Gt)
Energy efficiency is the driver of innovation

CO₂ emissions by scenario

Sustainable development scenarios

energy24 conference, Katowice, 11 December 2018 – Slide 5
Case 1: District heating project in Ledvice

10/2012 – 9/2013

District heating from Ledvice brown coal power plant (1 km from Ledvice town)

**Significant decrease of SO$_2$, dust and NOx emissions**

Hot water district heating replaced old, solid-fuel heating appliances in 109 homes

Cost: CZK 38.5 million (€1.5 million)

**50% grant from EU**
Case 2: Efficient and clean boiler in Braňany

2.5 MWth low-emission, high-efficiency, fluidised-bed boiler

2013 project: to decrease emissions from district heating system in Braňany

Total cost: CZK 13 million (€0.5 million)
- 29% EU fund, 6% National Ecological Fund
- CZK 8 million from city of Braňany and Severočeské doly a.s.

Corporate Social Responsibility

Heating for: housing apartments, school, cultural centre, library

Highest technical and environmental parameters: design life 20 years
Case 3: Vineyards in Brezno – North Bohemia
Thank you for your attention!

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