The <u>impact</u> of Europe's <u>dependence on coal</u> on the <u>health</u> of European citizens

COP24, Coal and the Polish Presidency of the next UN climate negotiations - Outdated outlook or modern vision - what would Poland really gain from more ambitious climate action in Europe

7 November 2018

EP, Brussels



Dr. Vlatka Matkovic Puljic, vlatka@env-health.org

HEAL's member network

>80 organizations in 28 countries

Doctors associations

Patient groups

Nurses associations

Public health institutes

Research institutes

Not-for-profit health insurers

Women's groups

Youth groups

Environmental groups

Promoting environmental policy that contributes to good health

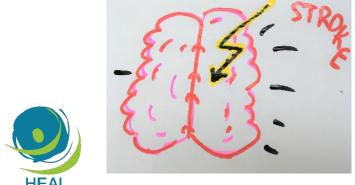


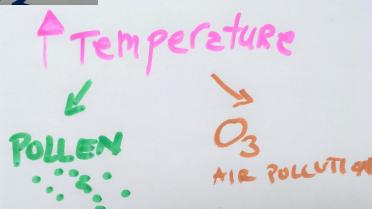
Coal and health

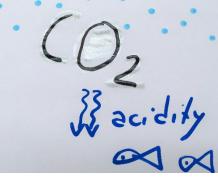












Why consider COAL in Europe?

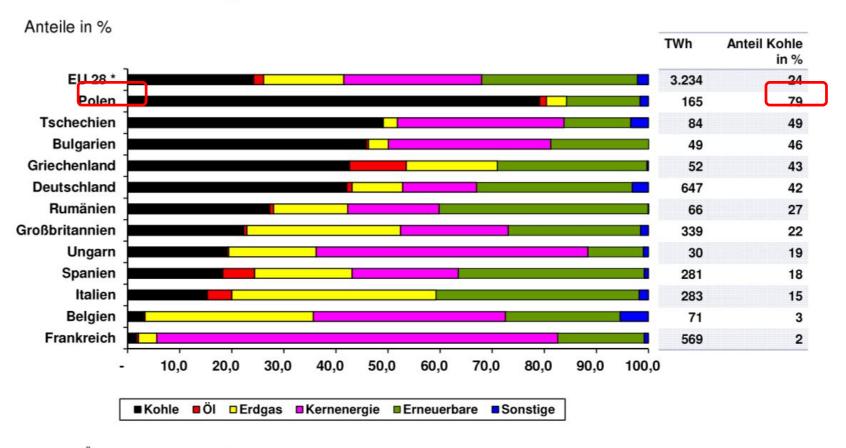
- EU 3 largest GHG emitter worldwide (of around 10% of total global emissions; 1 China 20%, 2 USA 15%)
- Thus, EU-28 is one of the most important contribution to CLIMATE CHANGE
- EU wants to be leader on climate mitigation, yet coal still major energy source (Poland, Germany, ...) and new plants in the pipeline





Coal as a major energy source

Stromerzeugungsstrukturen ausgewählter Staaten Europas 2015





Stand: 04/2017 Quelle: Eurostat

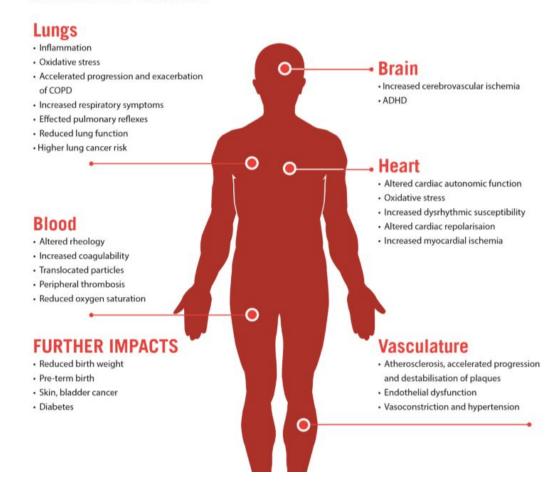


HEALTH IMPACTS from coal power in EU-28, for year 2015

- 19,500 premature deaths
- 10,000 cases of chronic bronchitis
- 5.9 million lost working days
- 12,600 hospital admissions
- 458,000 asthma attack in children

Not included: health costs from Hg, life cycle of coal, water pollution

Health damage from coal power plant emissions How inhalation of particulate matter (PM) may affect our health





The Economic Impact

• The **economic impact** of health damages caused by air pollution from coal power in EU-28, for year 2015 is in the range of

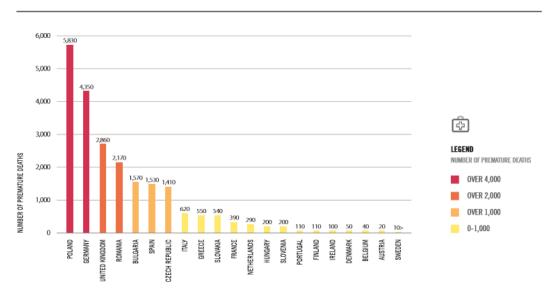




Coal power in Poland

PREMATURE DEATHS FROM COAL-FIRED POWER PLANTS

ACCORDING TO COUNTRY IN WHICH THE COAL PLANTS RESPONSIBLE ARE SITUATED (2013)



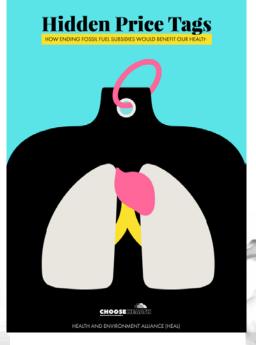
Vidin, Bulgaria Unition Vidin, Bulgaria Dimitrogast, Bulgaria Livywice, Polard Rybnik, Poland Patzryna, Polard Rybnik, Poland Patzryna, Polard Ololly Voder, Bulgaria Extraor, Polard Ololly Voder, Bulgaria Extraor, Polard Ololly Voder, Bulgaria Extraor, Polard Olodow, Polard Olodow, Polard Olodow, Polard Sieksko Bula, Polard Prostsowice, Polard Bieksko Bula, Polard Socke, Berse, Polard Sieksko Bula, Polard Socke, Bulgaria Jaroslaw, Polard Socke, Bulgaria Jaroslaw, Polard Dolon, Rubgaria Dolon, Rubgaria Polard Tomastow Mazowiecki, Polard Nako Nabland Roberia, Polard Dolon, Rubgaria Glimice, Polard Dolonow, Polard Olavece, Polard Dolonow, Polard Do

- Polish energy production causes 5830 premature deaths per year; Bełchatów power plant (the world's largest lignite-fired power station) is responsible for 1270 premature deaths per year;
- Poland is the most polluted EU country, with around 50 k premature deaths per year, from all sources;
- On the list of 50 most polluted European cities there are 36 from Poland.

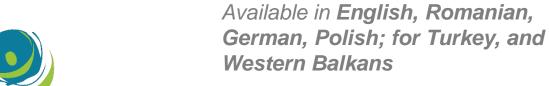


Health impacts and costs of coal power



















Policy recommendations

- A full <u>coal phase-out by 2030</u>. EU needs to walk the talk on climate action, health protection Accelerate clean energy transition, end subsidizing coal plants with capacity mechanisms, push EU neighbours for healthy energy, climate.
- Public health protection and climate action top priorities. Deliver on the Sustainable Development Goals and the Paris Climate Agreement with ambitious National Energy and Climate Plans. Make 'Health in all policies' a reality by involving the health sector in energy, climate deliberations and decisions.
- In the process of a full decarbonisation of its economy, carry out health impact assessment. Analyse health implications while steering away from harmful alternatives, such as unsustainable bioenergy, nuclear energy and geoengineering methods to reduce carbon emissions.





Voices of health experts



"As a Member of the European Parliament, I have been piloting the Petition against a huge open cast mine in the

area of Lower Silesia from the beginning, (that is from 2010). I hope that the weight given by a European Complaint as well as the national action of many others struggling with similar problems - governments, NGOs and private persons - will give a chance for our local government to arrange a dialogue with the national government and through that work out a common position that takes into account the needs of Polish energy without forgetting about the rights and health of local communities."

Lidia Geringer de Oedenberg, Member of the European Parliament. Poland



"Doctors are very concerned about air pollution and are calling on the government to take health into account

when taking decisions on energy policy.

Professor Dr. Marija Jevtić Medical faculty University of Novi Sad, Institute of Public Healtl of Vojvodin



"European doctors know air pollution to be an important risk factor for health, and the CPME has a long-standing

interest in this topic. Health professionals are committed to bringing new evidence-based information to the public as well as to decision makers and using their voice to bring about policy changes."

Birgit Beger, Secretary General, Standing Committee of European Doctors (CPME) "The external costs to health from coal power generation are bigger than for any other energy source. The costs of reducing

greenhouse gases are partially paid back because of lower health costs."

Professor Paul Wilkinson, London School of Hygiene and Tropical Medicine (LSHTM)





Thank you for your attention!

Dr. Vlatka Matkovic Puljic

Senior Health and Energy Officer vlatka@env-health.org

Health and Environment Alliance (HEAL) www.env-health.org

HEAL gratefully acknowledges the financial support of the European Union (EU) for our work. The responsibility for the content of this presentation lies with the authors and the views expressed in this publication do not necessarily reflect the views of the EU institutions and funders. The Executive Agency for Small and Medium-Sized Enterprises (EASME) and the funders are not responsible for any use that may be made of the information contained in this publication. HEAL EU transparency register number: 00723343929-96



