

# Fossil fuel phase out: Global Coal Transitions

*PEP 1.5 Final Symposium; 03.09.2019*



Dr. Pao-Yu Oei (pyo@wip.tu-berlin.de)  
Research Group CoalExit, TU Berlin and  
German Institute for Economic Research (DIW Berlin)

Follow our research  
@PaoYuOei  
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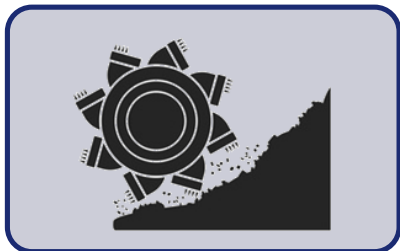


# Finding 1:

## The upcoming coal phase out affects countries differently

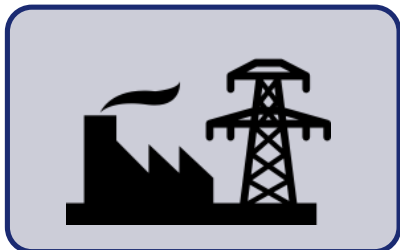
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**Need to differentiate between countries:**



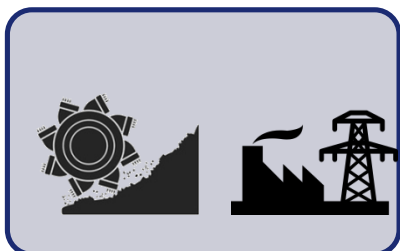
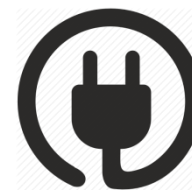
that only mine coal (e.g. Colombia)

- employment
- income from exports



those burning coal (e.g. UK and many countries in Europe)

- energy security
- (employment)



those doing both (e.g. US, China, India, South-Africa, Germany)

- energy security
- employment
- (income from exports)



# Finding 2:

## Political instruments need regional adjustments

e.g.  
Colombia

**Financial payments as compensation for a moratorium on new mines and export losses**



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**Support for RES to meet rising energy demand, enable energy access & create jobs**



**Active & passive labour market instruments to enable a just transition**



e.g.  
Europe or  
US

**Moratorium on new mines**



**Existing coal power plant fleets need to be closed**



**Support for RES to replace fossil capacities & create jobs**



**Active & passive labour market instruments to enable a just transition**



e.g.  
China or  
India

**Moratorium on new mines; maybe linked with compensations**



**Moratorium for new plants to prevent (stranded) assets**



**Support for RES to meet rising energy demand, enable energy access & create jobs**

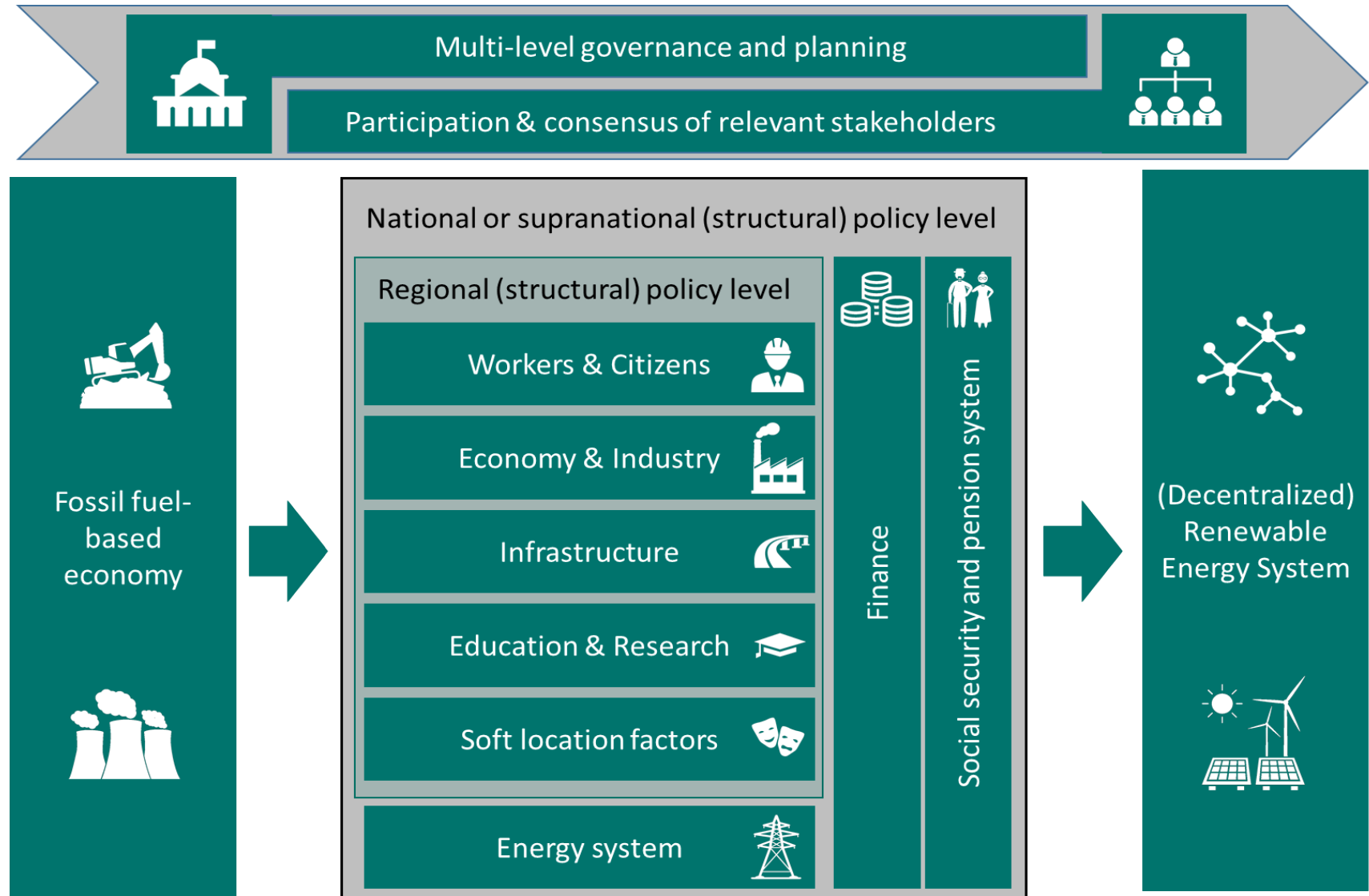


**Active labour market instruments to create new jobs**



# Finding 3:

## The energy system is just one element of a 'just transition'



# Kick-off of Discussions: Main Findings

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We need to enable a timely CoalExit to meet climate targets



Different challenges prevail for countries and regions



Technical solutions are comparably easy & well researched



Crucial to prevent coal investments from emerging countries



Only possible if developed coal countries set a positive example

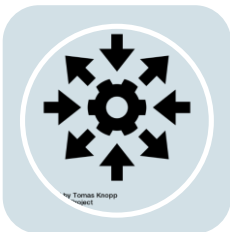
## How to



link different interdisciplinary research questions?



learn from experiences of regional case studies?



improve cooperation within academia (different research projects and institutions) and practitioners



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## Researchers

**Jan Baran**  
**Background:** Economics  
**Focus topics:** Labour economics, Pension schemes, Innovation and intellectual property, Social networks in economics  
**Affiliation:** IBS - Institute for Structural Research, Poland

**Andrzej Blachowicz**  
**Background:** Policy Making, Stakeholder Engagement  
**Focus topics:** EC Platform for Coal Regions in Transition (Secretariat)  
**Affiliation:** Climate Strategies, UK

**Hanna Brauers**  
**Background:** Industrial Engineering  
**Focus topics:** Coal phase-outs, natural gas phase-outs, political economy of energy transformations  
**Affiliation:** CoalExit, TU Berlin, DIW Berlin, Germany

**PUBLICATIONS (54)**

**2019** **Indonesia's Coal Dynamics:**  
Deon Arinaldo • Julius Christian Adiatma  
#coal #energy #Indonesia #just transition

**2019** **The death spiral of coal in the U.S.: will changes in U.S. Policy turn the tide?**  
Roman Mendeleevitch • Christian Hauenstein • Franziska Holz  
#CCS #climate policy #coal #energy policy #mining #ports #USA

**2019** **Socio-Economic Considerations for a Paris Agreement-Compatible Coal Transition in South Africa**  
Jesse Burton • Andrew Marquard • Bryce McCall  
#coal #energy #just transition #South Africa

**Main Finding**  
**A just and timely coal transition is possible but needs political support**  
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