



# The action plan for 1.5°C

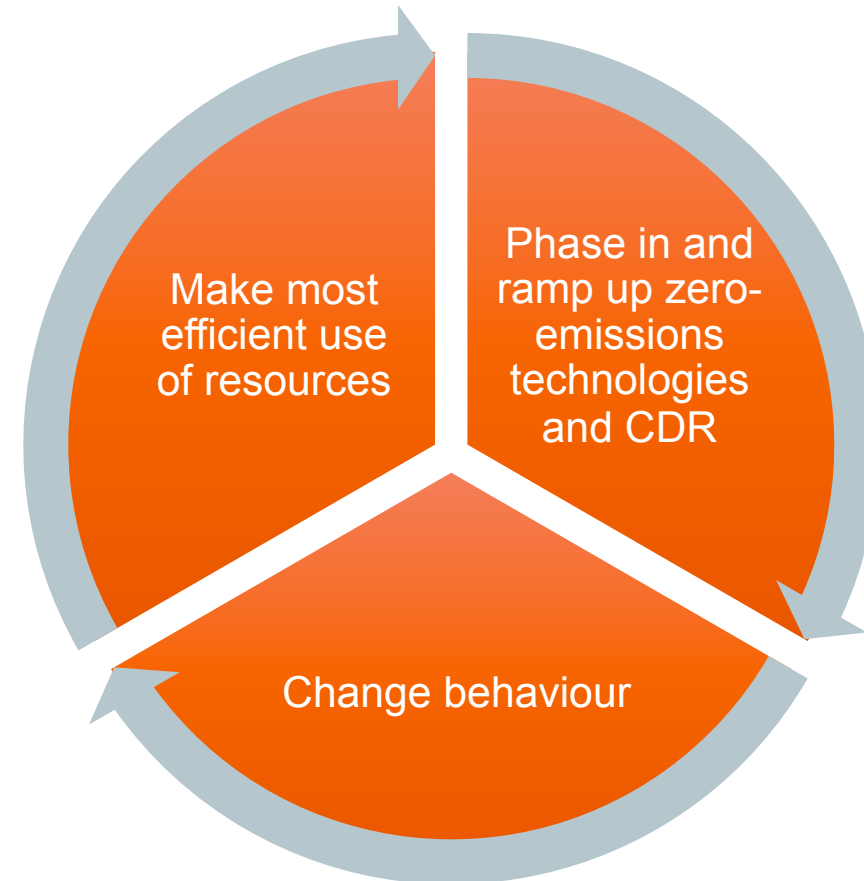
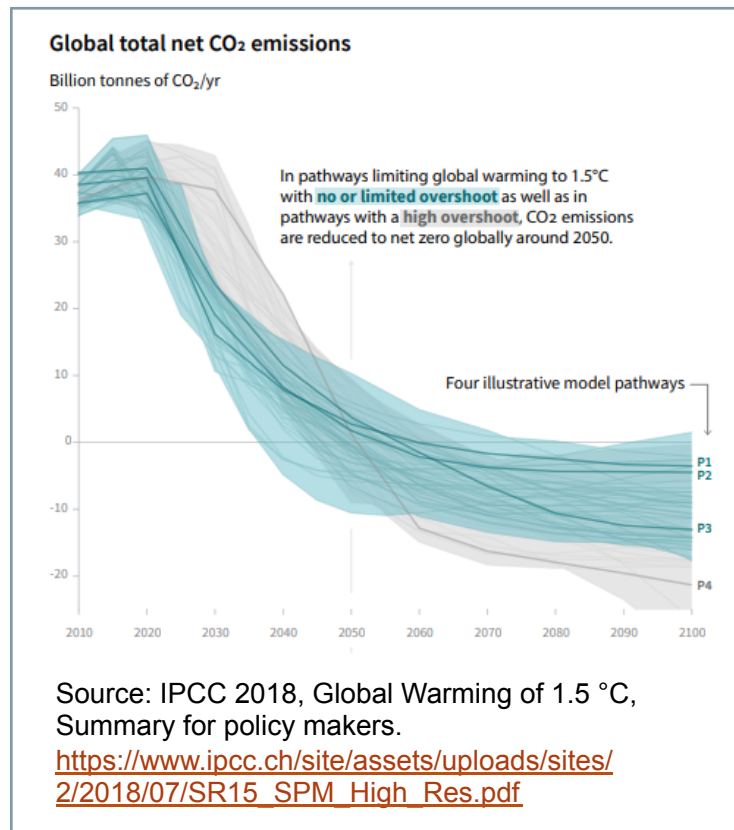
---

Side event, COP24

Hanna Fekete, NewClimate Institute

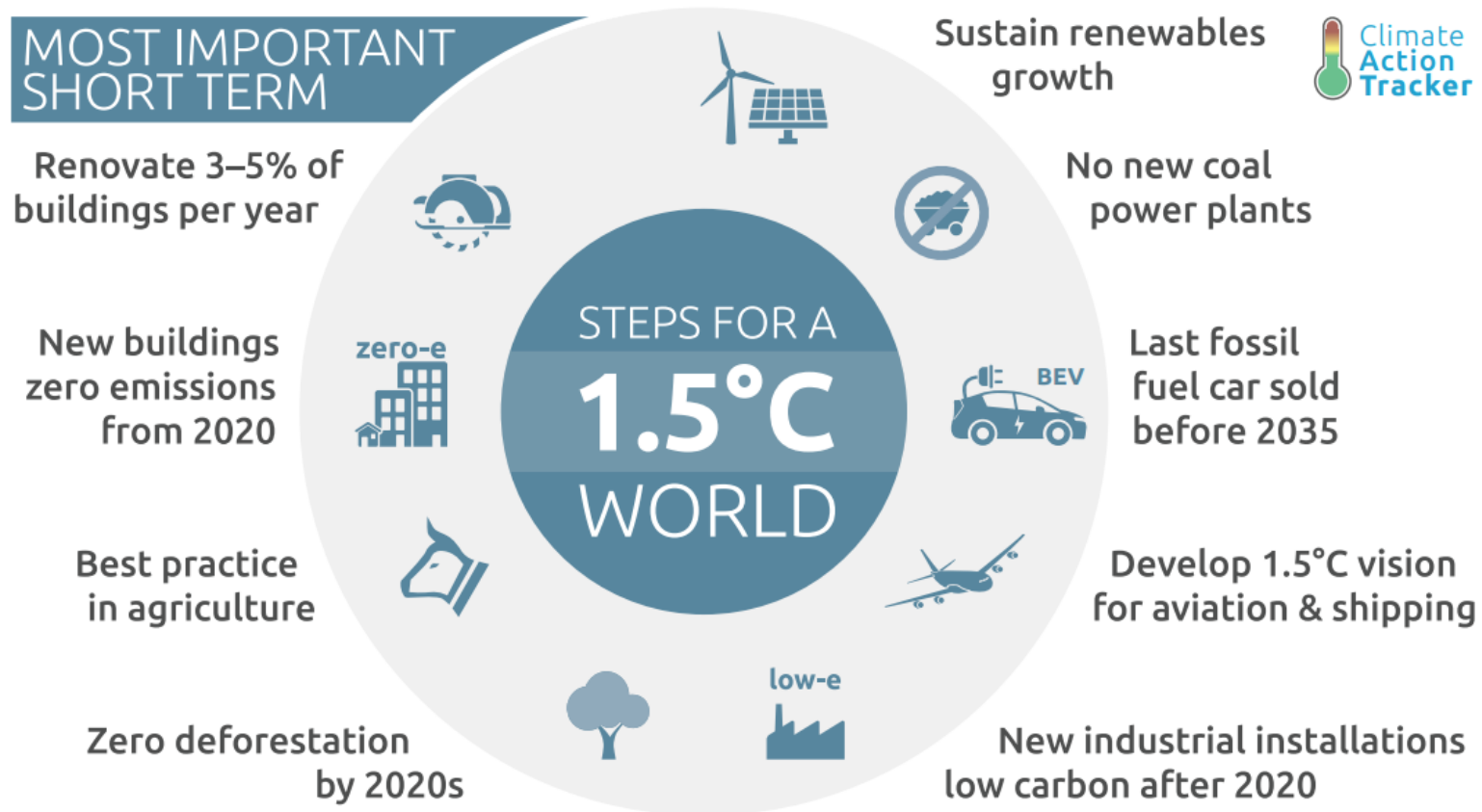
Katowice, 5 Dec 2018

# The global picture and required sector transitions



IPCC: „In pathways limiting global warming to 1.5°C with no or limited overshoot as well as in pathways with a high overshoot, **CO<sub>2</sub> emissions are reduced to net-zero globally around 2050**“

# Short-term steps for 1.5°C



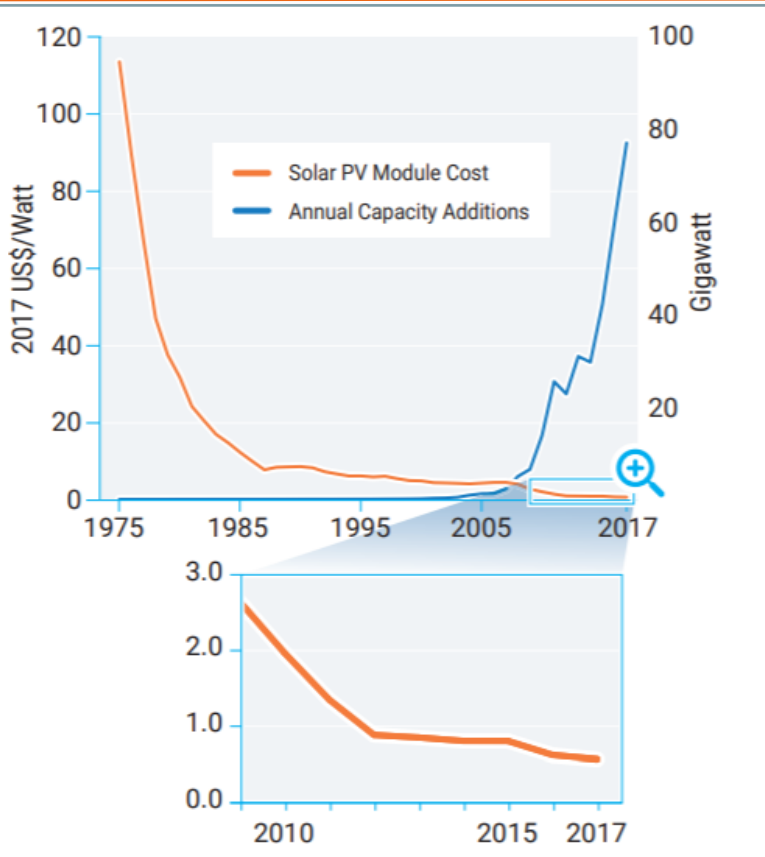
Source: Climate Action Tracker (2016). The most important short-term steps to limit warming to 1.5°. <https://climateactiontracker.org/publications/the-ten-most-important-short-term-steps-to-limit-warming-to-15c/>

# Shifting investment flows

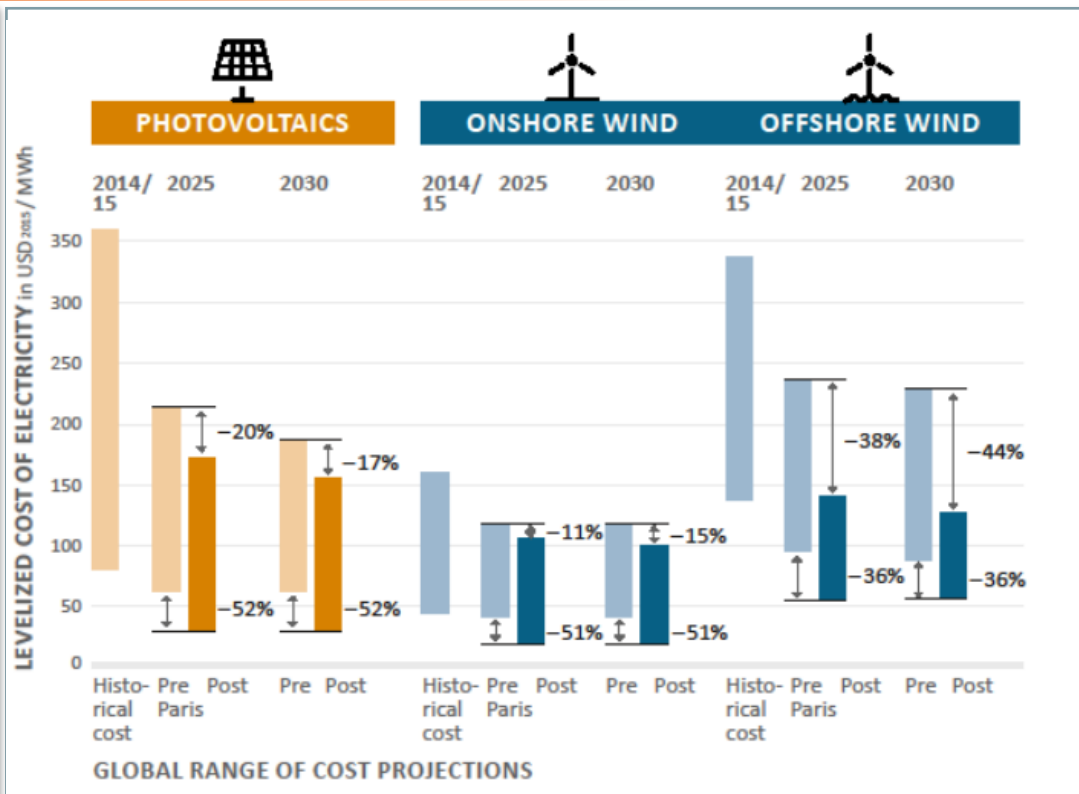
PARIS-ALIGNED	CONDITIONAL	MISALIGNED
<p><b>Fully aligned with Paris Agreement consistently across all scenarios</b></p> <ul style="list-style-type: none"> <li>• Solar energy</li> <li>• Wind energy</li> <li>• Small hydropower</li> <li>• Tidal, wave and ocean energy</li> <li>• System flexibility options (electricity energy storage, demand response, ...)</li> </ul>	<p><b>Aligned depending on conditions</b></p> <ul style="list-style-type: none"> <li>• Energy transmission and distribution infrastructure</li> <li>• Geothermal<sup>2)</sup></li> <li>• Gas (power plants, transport of gas)<sup>1)</sup></li> <li>• Large hydropower<sup>2),3)</sup></li> <li>• Bioenergy, incl. bio energy carbon capture storage<sup>3),4)</sup></li> <li>• Coal with carbon capture and storage (CCS)<sup>1),3)</sup></li> <li>• Nuclear<sup>3)</sup></li> </ul>	<p><b>Consistently Paris misaligned in all scenarios</b></p> <ul style="list-style-type: none"> <li>• Coal-fired power plants with unabated emissions over their lifetime</li> <li>• Oil power plants</li> <li>• Coal mining</li> <li>• New upstream oil and gas exploration and production</li> </ul>
<p>Footnotes:</p> <p>1) This investment area causes direct GHG emissions</p> <p>2) This investment area can cause direct GHG emissions</p> <p>3) This investment area is subject to critical sustainability and/or security concerns</p> <p>4) The production of bioenergy can cause substantial GHG emissions. We differentiate this from other investment areas, where emissions occur during the manufacturing process, because the impact of unsustainable production of the fuel is over-proportionally larger, and not limited to the manufacturing of the technology.</p>		

Source: Germanwatch and NewClimate (2018). Aligning Investments with the Temperature Goal of the Paris Agreement - Challenges and Opportunities for Multilateral Development Banks. <https://newclimate.org/2018/09/28/aligning-investments/>

# Good examples: Global shift to renewables



Source: UNEP (2018). Emissions Gap Report 2018, based on Earth Policy Institute (2018), Barbose et al (2018), IRENA (2018).  
[https://newclimate.org/wp-content/uploads/2018/11/EmissionGapReport\\_2018.pdf](https://newclimate.org/wp-content/uploads/2018/11/EmissionGapReport_2018.pdf)



Source: Wachstmuth et al. (2018). Bringing policy making up to date  
[https://www.umweltbundesamt.de/sites/default/files/medien/1410/publikationen/2018-11-14\\_climate-change\\_24-2018\\_climate-policy-up-to-date\\_0.pdf](https://www.umweltbundesamt.de/sites/default/files/medien/1410/publikationen/2018-11-14_climate-change_24-2018_climate-policy-up-to-date_0.pdf)

# Good example: Protecting forests in Costa Rica

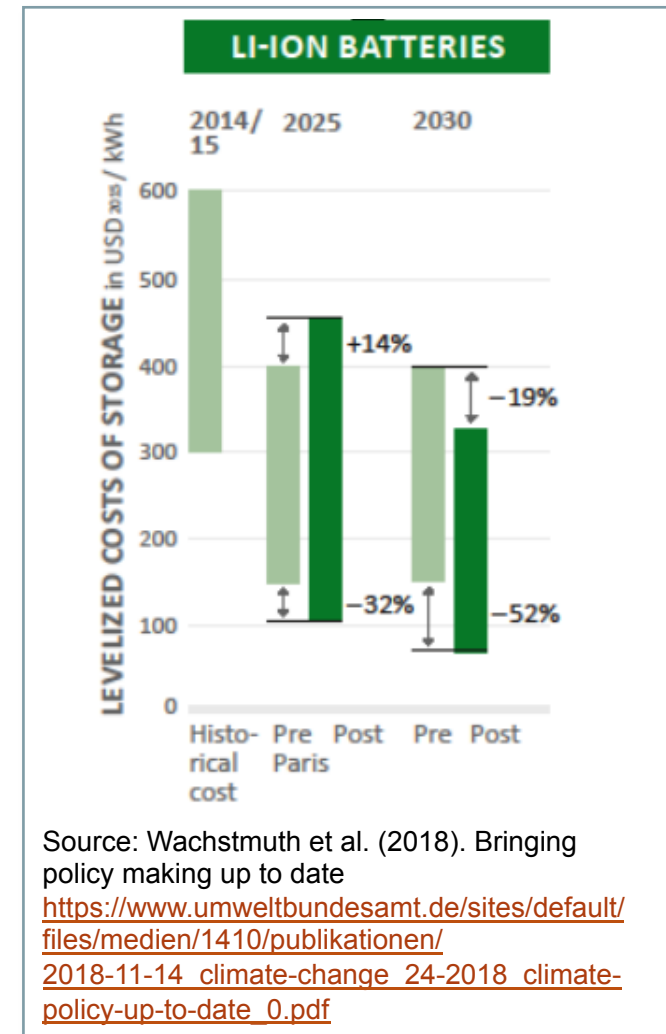
- » Forest area back at 75%, after being at 20% in the 1980s.
  - Payments for environmental services (using revenues from carbon tax and forest credits)
  - Protection of forest áreas
  - Monitoring
  - Putting monetary value on natural resources



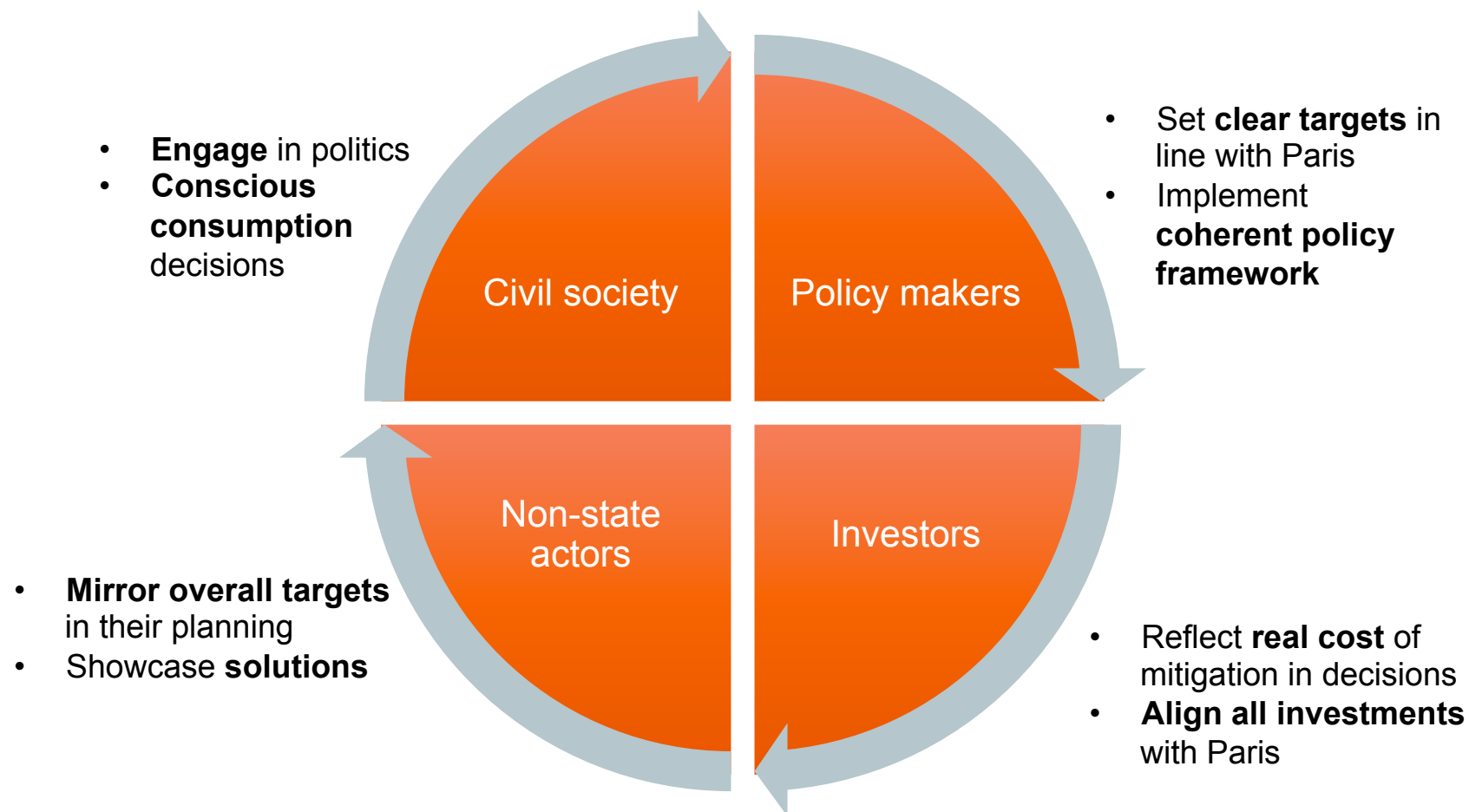
Source: adapted from Rodriguez (2016).  
[https://www.slideshare.net/OECD\\_ENV/2016-env-ministerial-carlos-manuel-rodriguez-costa-rica-biodiversity-breakout-session](https://www.slideshare.net/OECD_ENV/2016-env-ministerial-carlos-manuel-rodriguez-costa-rica-biodiversity-breakout-session)

# Good example: Electric car sales in Norway

- » Sharp increase of EV in vehicle sales in Norway
- » Supported by comprehensive policy package:
  - Tax incentive
  - Charging infrastructure
  - Behavioural incentives
- » EV sales picking up speed around the world



# Scale up climate action is a shared responsibility







**Thank you for your attention!**

**Contact details:**

Hanna Fekete

[h.fekete@newclimate.org](mailto:h.fekete@newclimate.org)

[www.newclimate.org](http://www.newclimate.org)

*NewClimate Institute is present at COP24. Come visit us at booth 94 and follow us on twitter @newclimateinst for updates on our events and outputs!*