

- 2 FACTS** Identifying problems and finding solutions: In the table below, use words and expressions from the *Spot on facts* pages in order to propose possible solutions for ecological challenges.

Ecological challenge	A possible solution
The extinction rate of living species	<i>Maintaining the habitats of species</i>
Over half of all animal species at risk of extinction	<i>Find solutions to replace/reduce deforestation</i>
Wildfires occurring more frequently	<i>Stop global warming</i>
Expanding needs of urban growth	<i>more green urban areas / build higher</i>
Isolated short-term solutions	<i>Tight the reason</i>
Air pollution, global warming and industrial waste	<i>Be more aware of your living style</i>
Increasing needs for water in production processes	<i>Find other materials that need less water recycle water</i>

- 3 FACTS** In an online forum for young people on sustainability, you meet a young entrepreneur who has never thought about carbon pricing as a workable solution for businesses. Answer this person's questions.

1. What is carbon pricing?

*= an economic strategy used to reduce greenhouse gas emissions by assigning a cost to emitting carbon dioxide and other greenhouse gases. → polluters have to pay for their emissions | carbon tax = fixed price per ton of CO<sub>2</sub> emitted*

2. What is the Paris Agreement?

*= international treaty on climate change (196 countries) at the UN climate change conference in Paris in 2015 → limiting global warming to well below 2°C (1.5°C is best)  
→ common goal*

3. How exactly do governments create incentives for people to switch to more efficient technologies?

- Subsidies/direct payments for efficient technologies (heat pumps, electric cars, solar panels)*
- tax credits for purchasing energy-efficient cars/products*

4. What are some examples of ecologically sustainable technologies?

- Renewable energies (solar panels, photovoltaics, wind turbines/farms, wave energy)*
- Clean transportation (electric vehicles, ebikes/scooters, electric buses, hydrogen fuel cars)*
- Recycling, direct air capture, green buildings (isolation, plants, heat pumps)*

5. You are talking about regulation, but I aspire to make money. Give me a reason why I should establish my business in a country with a carbon tax.

- early innovation/adoption to low-emission processes*
- ↳ cleaner products, green investors, attractive*
- governmental financial support bc of sustainable innovations*

# 9 Ecological challenges

## 1 LANGUAGE

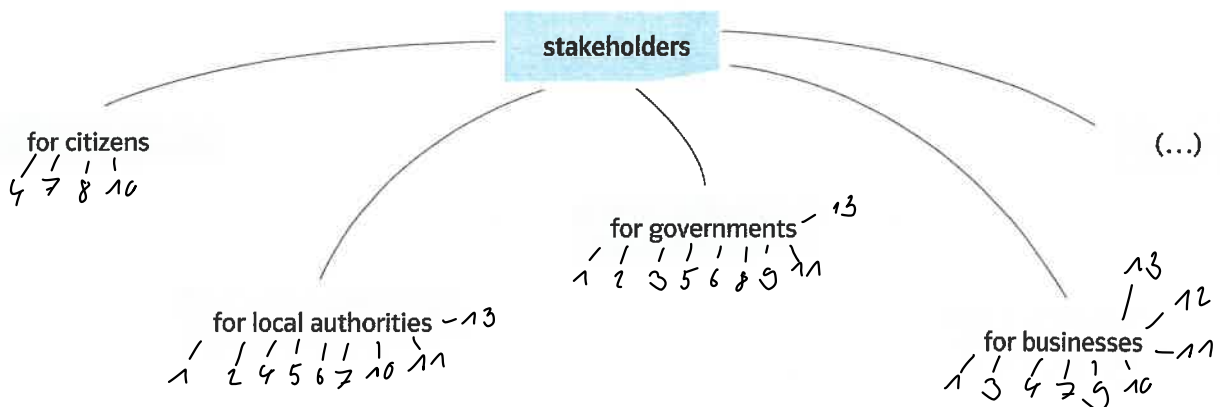
Imagine that you want to explain the notion of sustainable development to a student who is interested in the topic but who has never discussed it in depth. Match expressions that are usually used together and then cluster them into thematic groups.

- a) to tackle  
to reduce  
to promote  
to raise  
to recycle  
to minimise  
to adopt  
to combat  
to protect  
to practise  
to support  
to address  
to commit to
- air pollution  
eco-friendly practices  
environmental awareness  
plastic waste  
energy consumption  
sustainable habits  
climate change  
responsible consumption  
endangered animal species  
water scarcity  
eco-innovation  
one life shift  
carbon emissions

- b) to curtail  
1 to encourage  
2 to make  
3 to use  
4 to embrace  
5 to bridge  
6 to facilitate  
7 to mitigate  
8 to plant  
9 to advocate for  
10 to spearhead  
11 to increase  
12 to develop

1. to encourage → renewable → energies
2. to bridge → the gap → between rich and poor
3. to embrace → circular → economy principles
4. to make → informed → decisions
5. to facilitate → climate adaptation → (kein drittes Element nötig)
6. to mitigate → the impact of → extreme weather events
7. to plant → trees for → reforestation
8. to advocate for → restrictions on → palm oil plantations
9. to spearhead → sustainable → technologies
10. to use → green → transport
11. to increase → the impact of → strategies
12. to develop → lower-carbon products → (kein mittleres Wort nötig)
13. to support (nicht vorhanden, aber denkbar) → interpreneurship (meint vermutlich "entrepreneurship")

- c) Cluster the expressions of your choice in a mind map according to different stakeholders. Complete the mind map with ideas of your own.



- d) Using the ideas in your mind map, give a three-minute talk on the subject of sustainable development.