



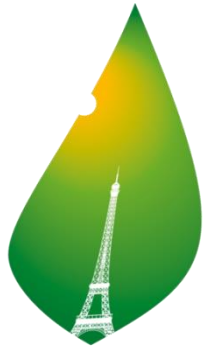
01.02.2021



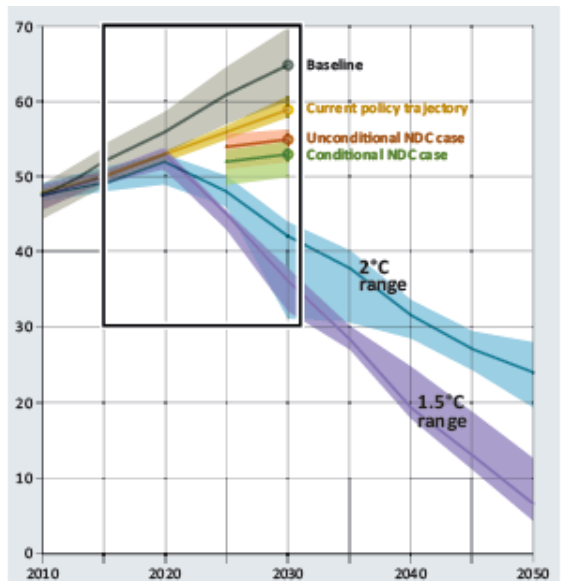
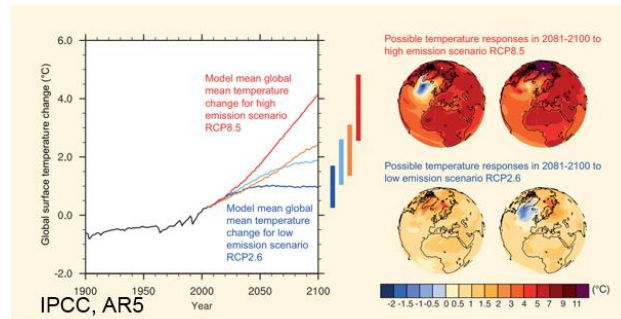
**EUFORES Webinar - Renewable Energy in Luxembourg**  
**An Ambitious Recovery Plan for a Green**  
**Recovery and Development of Renewable**  
**Energies in Luxembourg and in Europe**

Claude Turmes - Minister for Energy





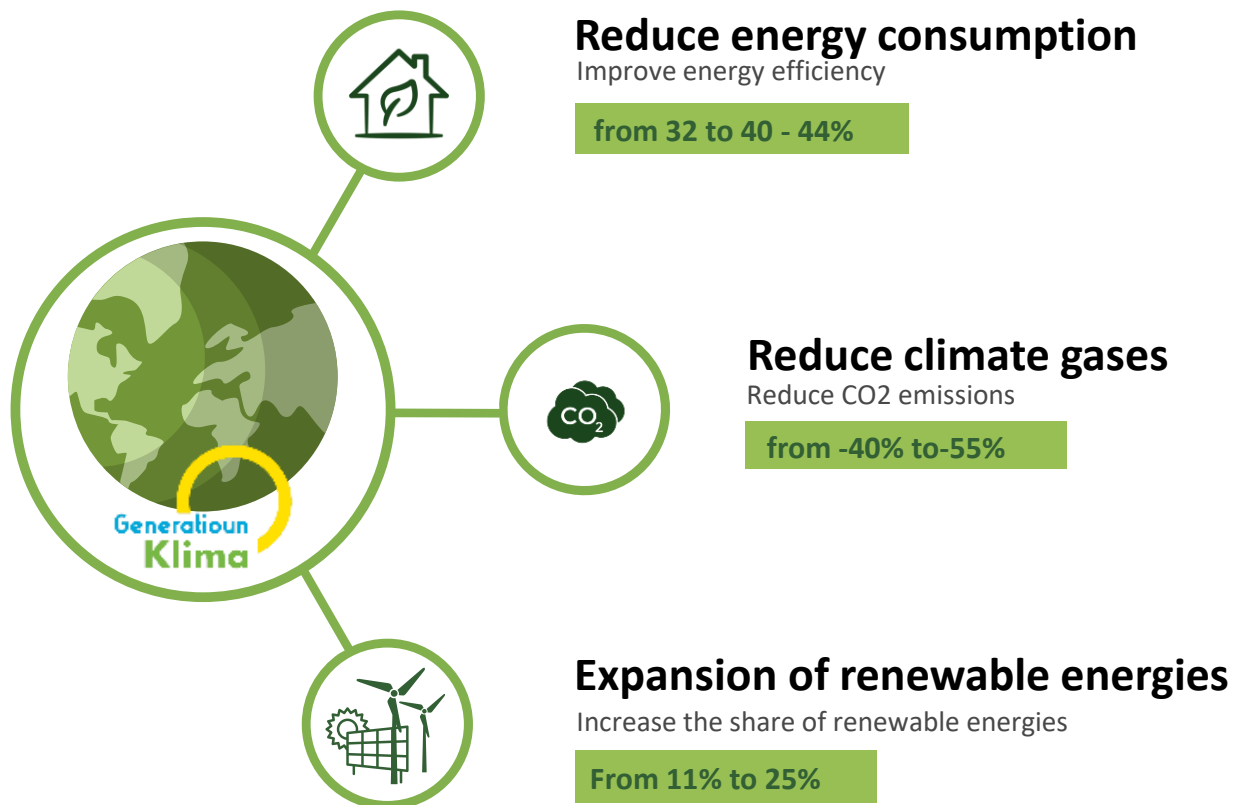
COP21 • CMP11  
**PARIS 2015**  
UN CLIMATE CHANGE CONFERENCE





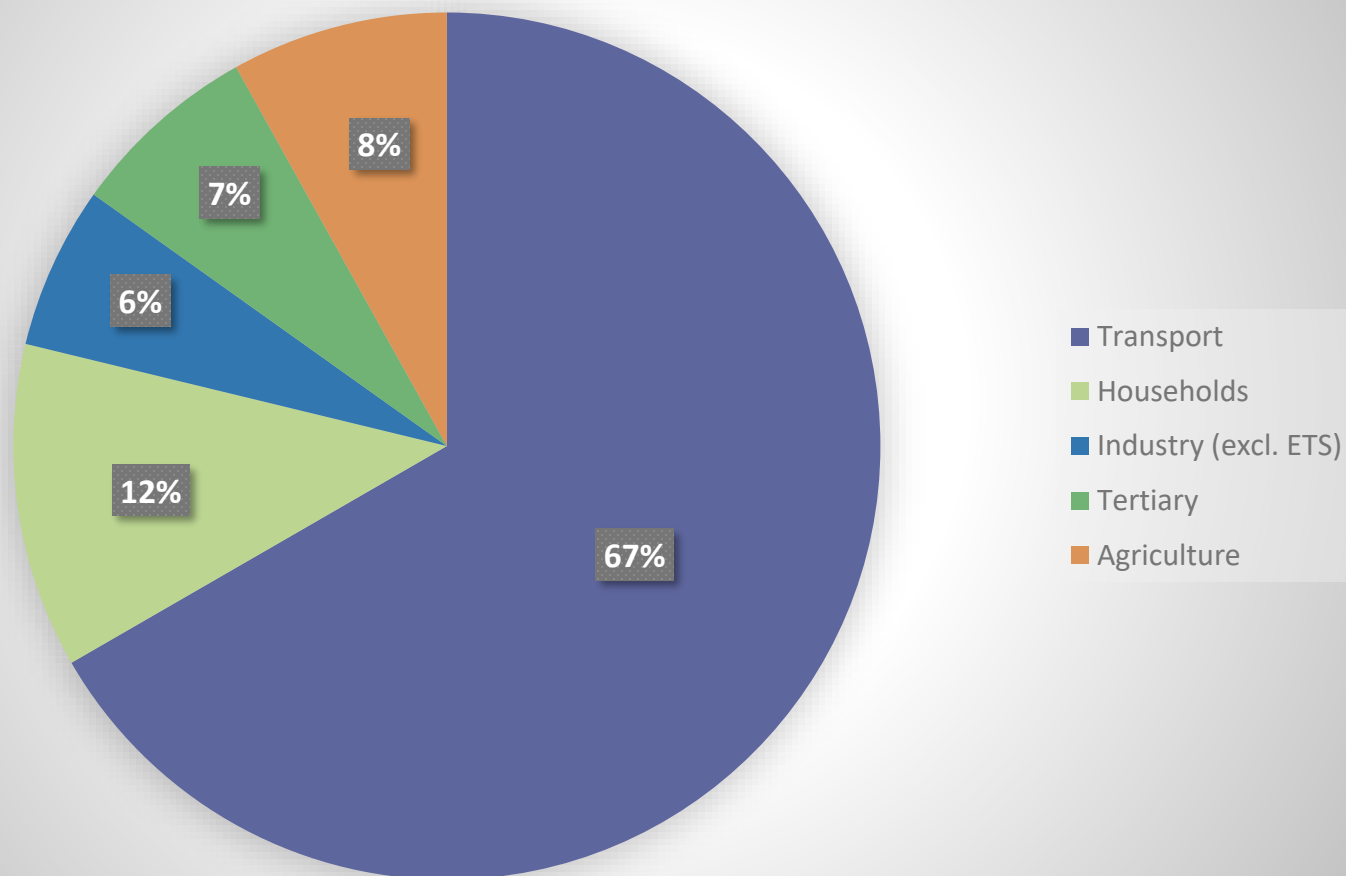
# National energy and climate plan

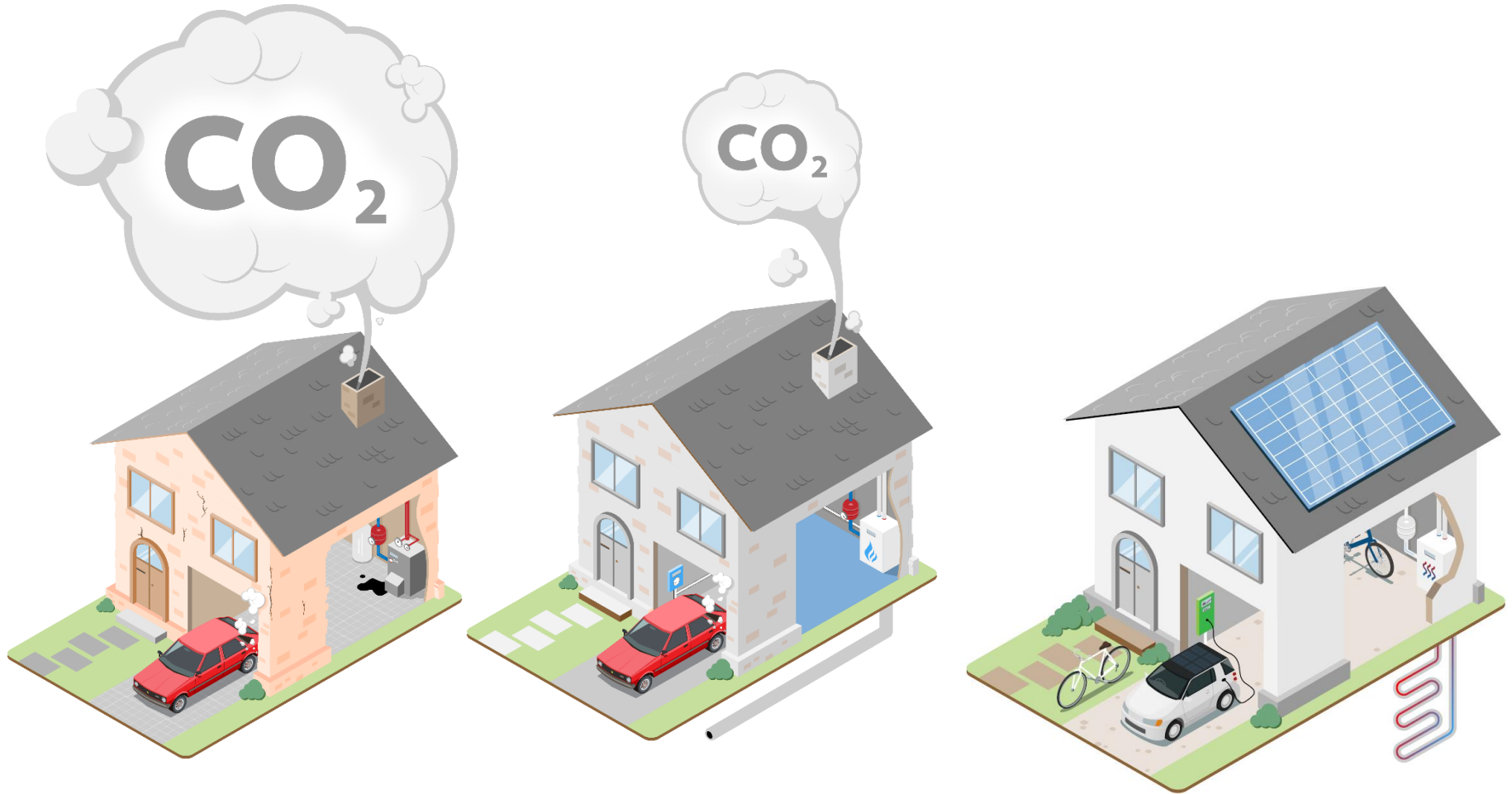
## Ambitious targets for 2030





## CO<sub>2</sub> emissions per sectors



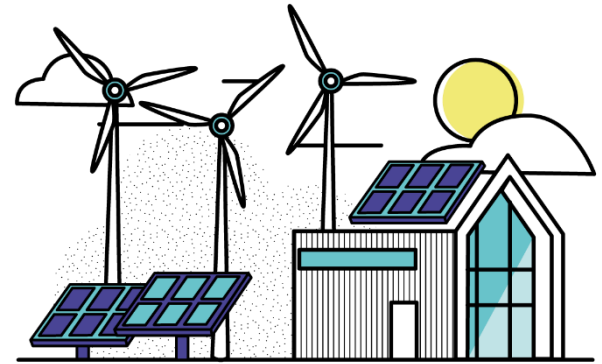




# Climate solutions

Energy efficiency first (40%-44% in 2030)

- In building
  - Strictest efficiency norms in EU for new buildings
  - Renovation strategy
- In industry
- In transport

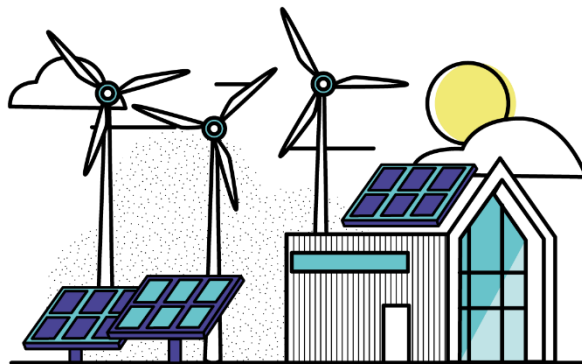




# Climate solutions

Fast build-up of renewables (25% in 2030)

- Solar
- Wind
- Sustainable biomass (origin: greater region)
- International cooperation (offshore wind, solar, ...)





## PRODUCTION D'ÉLECTRICITÉ

### PRODUCTION D'ÉLECTRICITÉ À PARTIR DE SOURCES RENOUVELABLES

# 12,2 %

DE LA CONSOMMATION  
NATIONALE



CAPACITÉ DE PRODUCTION  
ÉLECTRIQUE EN 2019

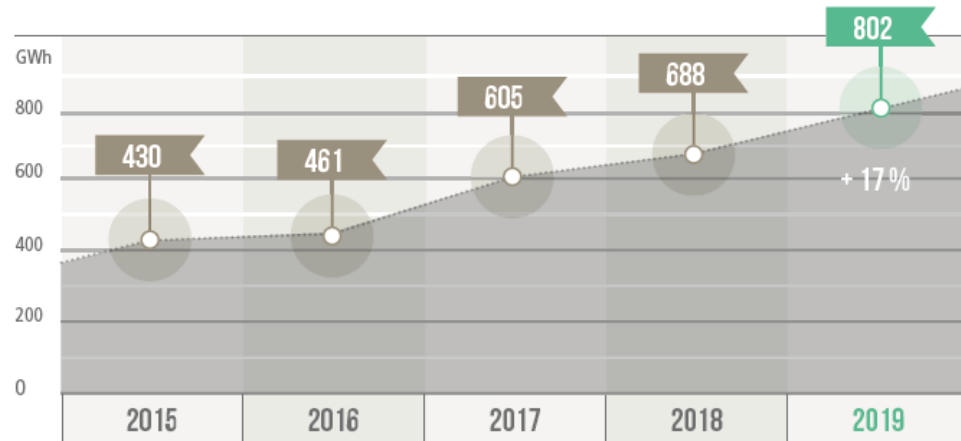
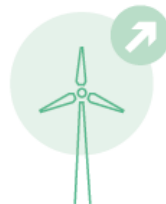
# 488 MW

DONT

# 377 MW

RENOUVELABLE

CE CHIFFRE VA  
AUGMENTER DANS  
LES ANNÉES À VENIR.



### SOURCES D'ÉNERGIE DANS LA PRODUCTION D'ÉLECTRICITÉ

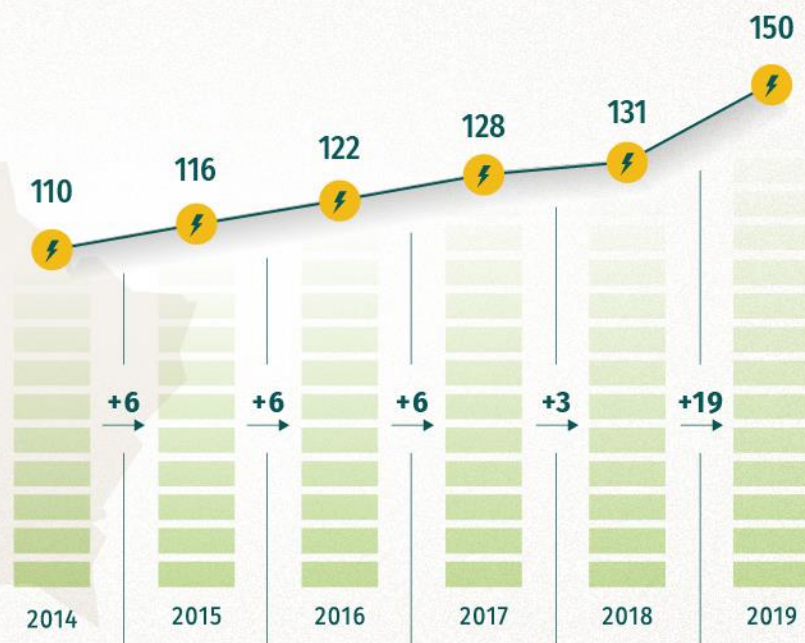






## Production énergie photovoltaïque en MW

› Développement  
de la puissance installée



Quelle: ILR





## Alimentation électrique par système solaire

\*2019 – avec une consommation moyenne  
de 1400 kW/an par personne

Électricité pour  
**100 000**  
personnes\*



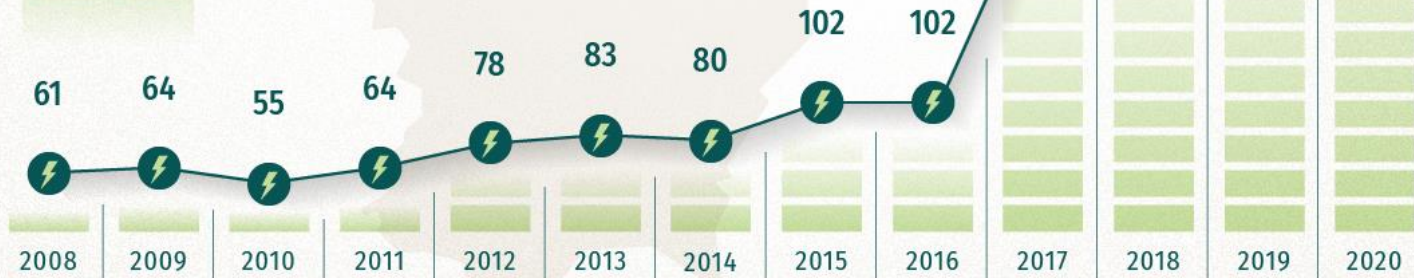


## Production énergie éolienne en GWh

› chiffre Eurostat/ILR

**415%**

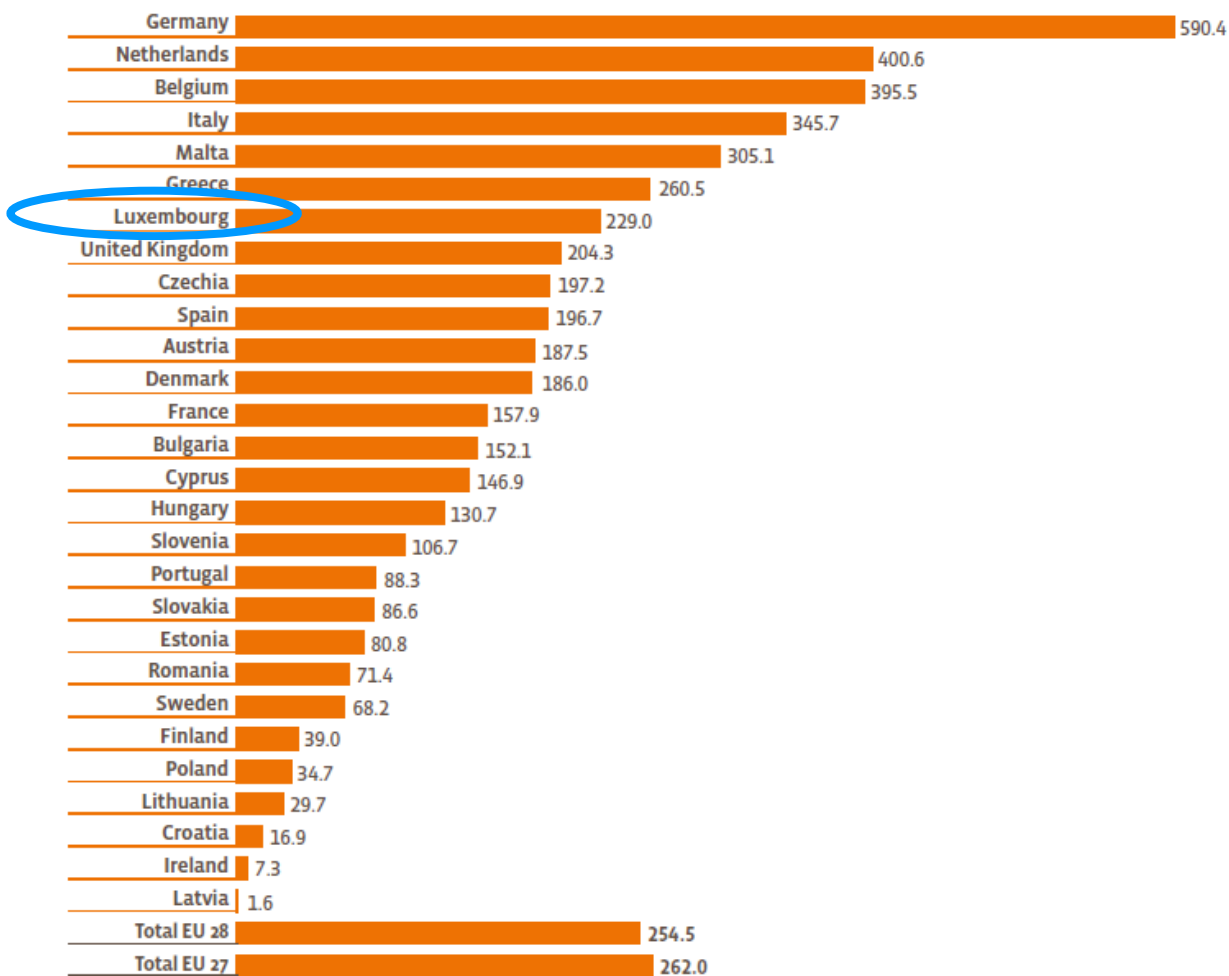
2008 → 2020





## Graph. n° 1

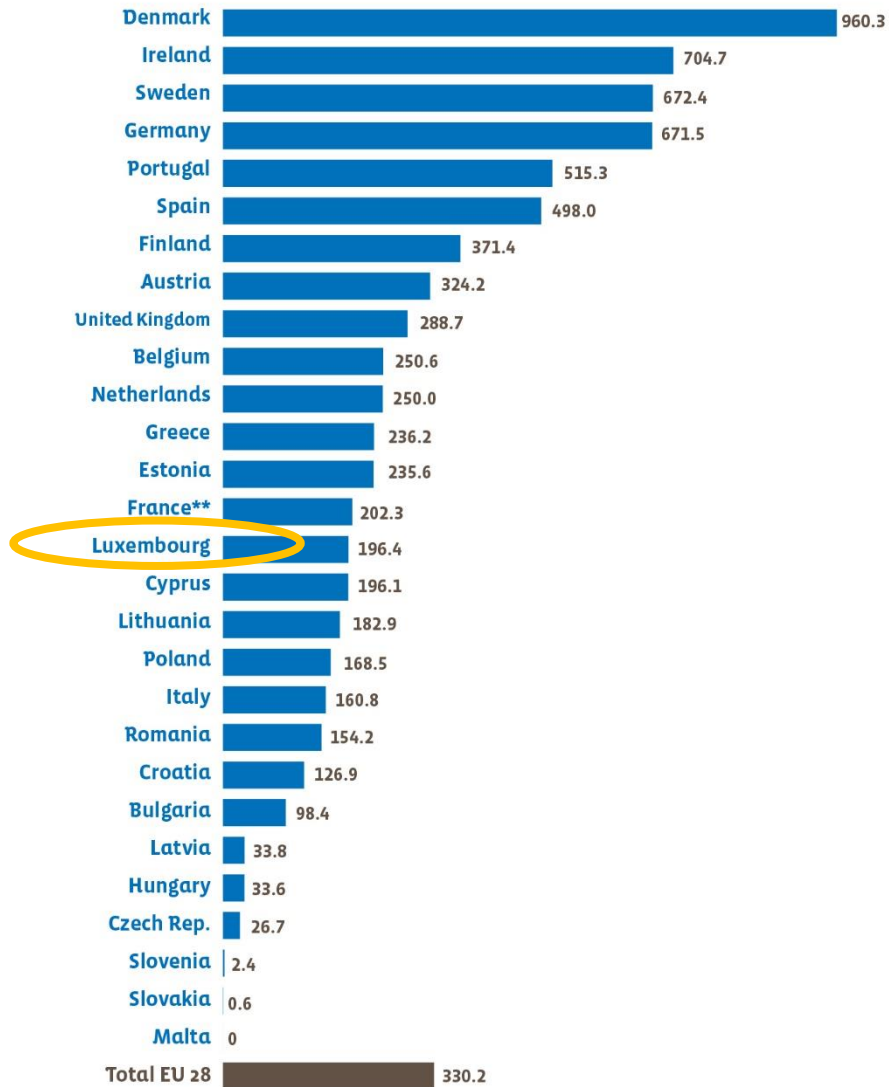
Photovoltaic capacity per inhabitant (W/inhab.) for each EU country in 2019





### Graph. n° 3

Wind power capacity per 1,000 inhabitants in the EU in 2017 (kW/1,000 inhab.)\*



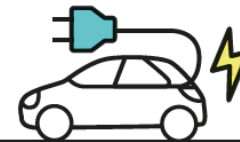
\*Estimate. \*\*Overseas departments not included for France. Source: EurObserv'ER 2018.

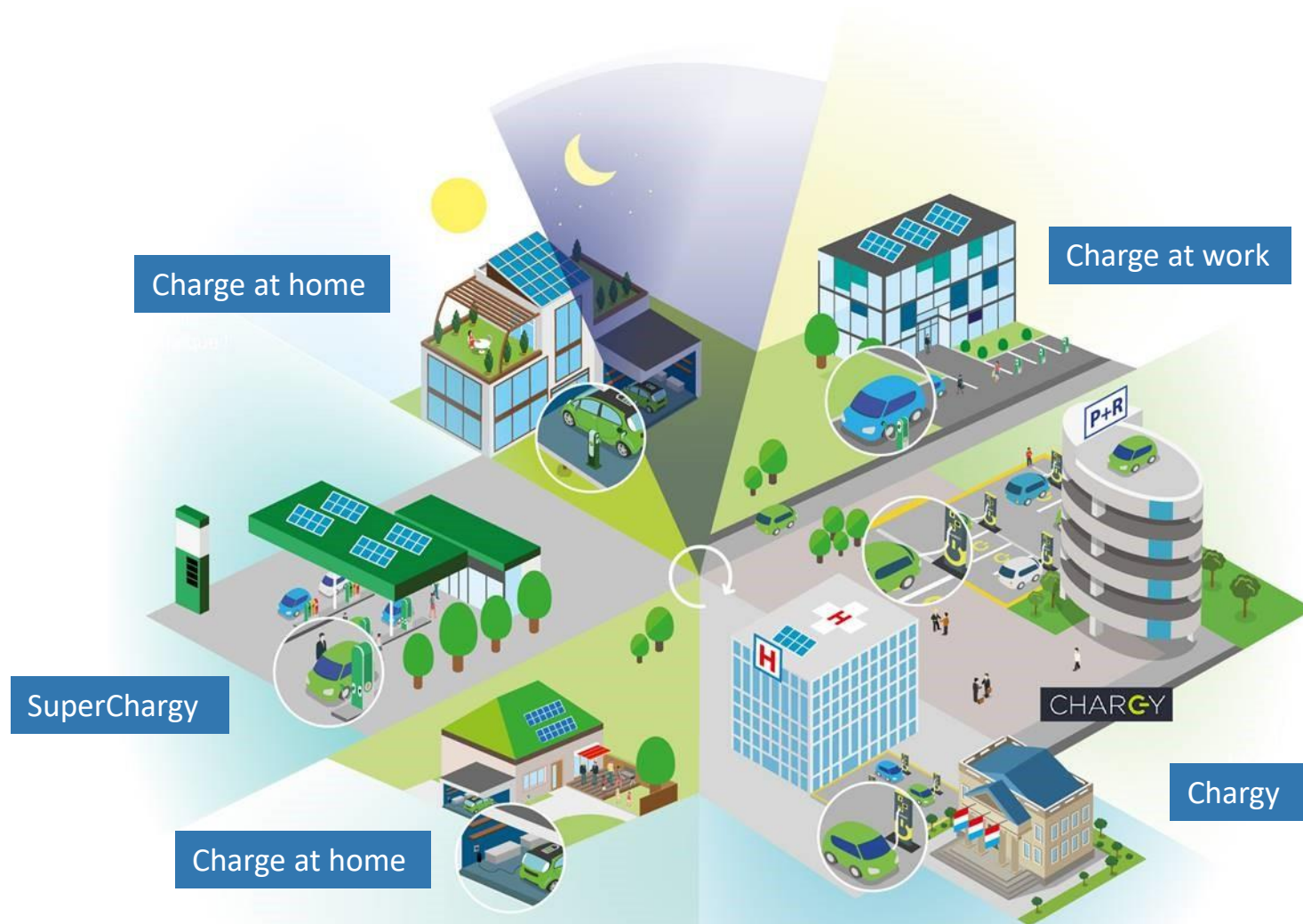


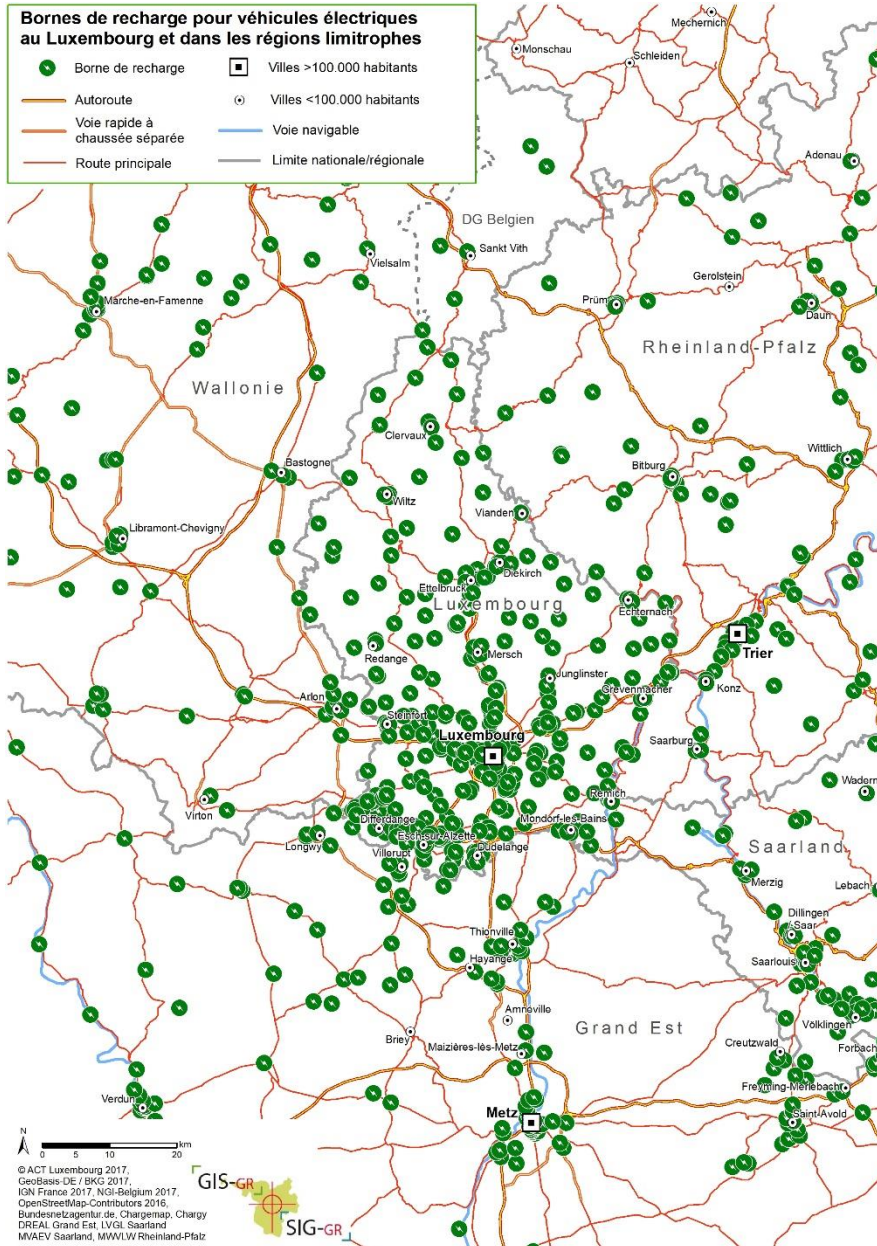
# Climate solutions

## Mobility

- Expansion of public transport
- Expansion of infrastructure for soft mobility
- Free public transport = less cars
- Car sharing
- E-mobility











# Climate solutions

Circular economy (wooden construction)

## Research and Innovation

- Luxembourg as test-bed and hub for climate solution businesses
  - Buildings of the future (plus energy, healthy, circular)
  - Eco-Quartier made in Luxembourg
  - Integration of renewables and e-mobility into grid
  - Transborder spatial and mobility planning
  - Climate positive lifestyles
- Global green finance hub
- Congress and communication



# Luxembourg and RES cooperation

Today: Luxembourg has two ongoing cooperations with Lithuania and with Estonia

For period until 2030:

- Luxembourg is in talks with Lithuania and Estonia to continue our fruitful cooperation
- Luxembourg has a high interest in the EU RES finance mechanism
- Luxembourg is interested in investing bilaterally into joint projects eg offshore wind

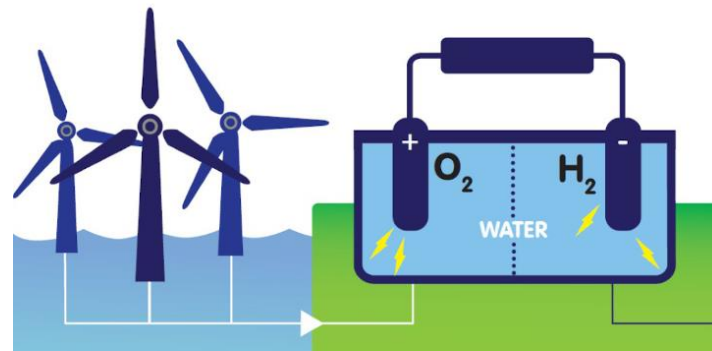


# Luxembourg and Green hydrogen

Luxembourg is active at different levels (EU, Penta, BeNeLux) to frame the new emerging hydrogen market

Our priorities are:

- Subsidies at EU level should be limited to green (additional renewables) hydrogen
- EU needs a dedicated hydrogen pipeline network (TEN-E discussions)
- Within BeNeLux and Penta we are as a landlocked country actively working to get access to “affordable green hydrogen”





**Thank you**