



## OUR MISSION CLEAN ENERGY INNOVATION



In 2016 the EU joined **Mission Innovation**, a global partnership to accelerate **clean energy innovation** and support the Paris Agreement's goals through research and innovation.

### The EU's commitment to Mission Innovation



**Doubling public funding** on clean energy research and innovation



**Cooperating** with Mission Innovation **members on innovation challenges**



**Triggering private investment** in new businesses



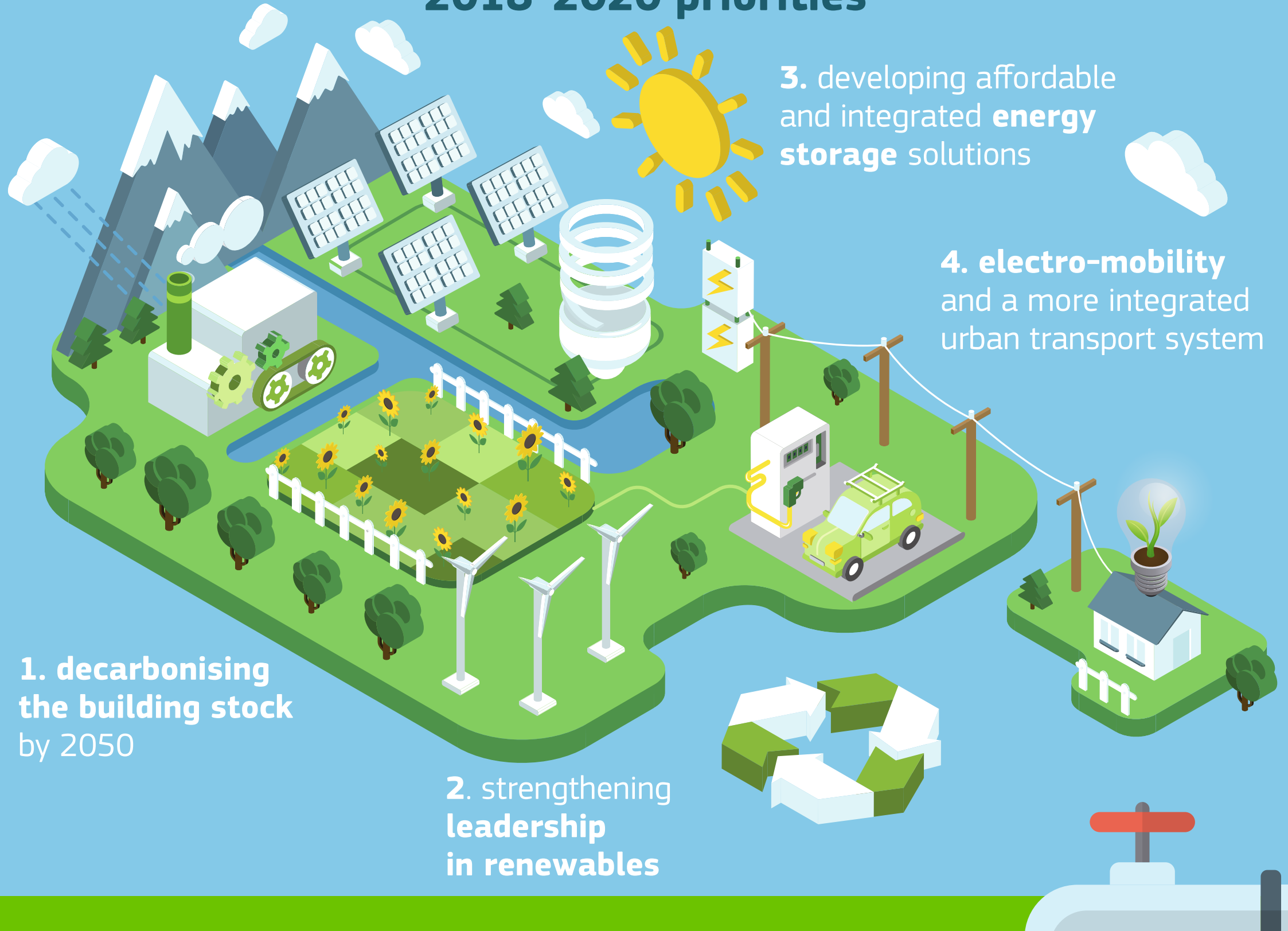
### Why our actions matter

The EU programme for research and innovation Horizon 2020 boosts industry's competitiveness, creates new businesses and jobs and contributes to the fight against climate change.

The EU will double public funding for clean energy research and innovation from around **€1 bn a year** to around **€2 bn a year** by 2020.



### 2018-2020 priorities



**1. decarbonising the building stock** by 2050

**2. strengthening leadership in renewables**

**3. developing affordable and integrated energy storage solutions**

**4. electro-mobility and a more integrated urban transport system**

### Cooperating on Mission Innovation challenges

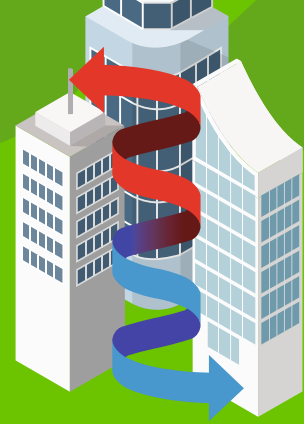
Horizon 2020: **€300 m** will support cooperation on innovation challenges from 2018-2020



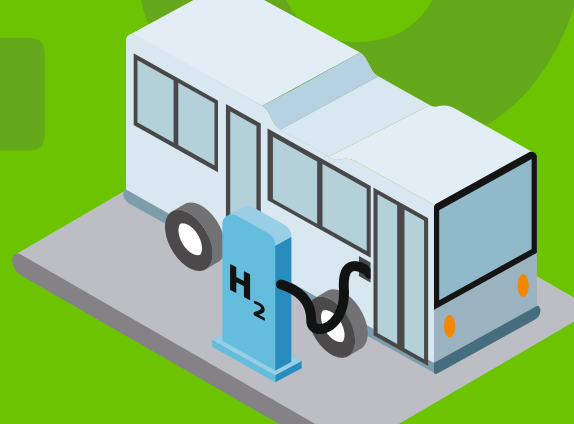
### Co-led by the European Commission



► **converting sunlight into storable fuel: €11 m**, of which €5 m is for the EIC Horizon Prize for Artificial Photosynthesis (open to international applications)



► **affordable heating and cooling of buildings: €55.5 m**



► Accelerating the development of a global **hydrogen market** (launched at the 3<sup>rd</sup> Mission Innovation Ministerial)

### Other Mission Innovation challenges



smart grids **€37 m**



off-grid access to electricity **€29 m**



carbon capture storage and use **€70 m**



sustainable biofuels **€20 m**



cross-cutting issues involving all innovation challenges **€76 m**

### Triggering private investment

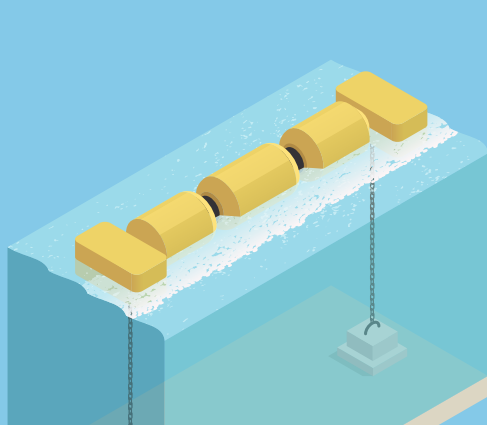
**Innovative financial instruments in addition to grants:** i.e. equity loans guarantees to help innovations reach the market



**Public financial instruments to de-risk** first-of-a-kind energy demonstration projects

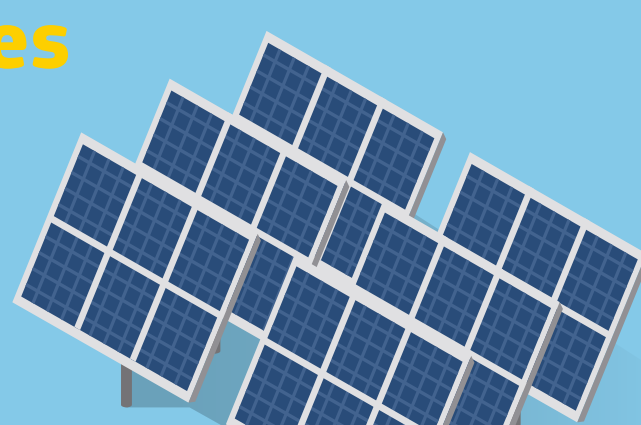
Key for new businesses to **reassure and attract private investors**

### EU & industry join forces



**Wave Energy Device**

A full-scale 350 kW demonstration device in Portugal; EU funding €10 m out of €19 m cost



**Innovative PV Demo Line**

A pilot production line for new and highly-efficient photovoltaic technology in Germany; EU funding €15 m out of €30 m cost



**CHO TIPER**

Innovative gasification plant with less CO<sub>2</sub> emissions and waste; EU funding €30 m out of €62 m cost



**Northvolt**

New innovative battery cells production processes; EU funding €52.5 m out of €105 m cost

More information  
<http://ec.europa.eu/research/energy/>

MISSION INNOVATION  
Accelerating the Clean Energy Revolution  
<http://mission-innovation.net/>

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