

# BATTERIES

**A major opportunity for a sustainable society**

*R&I Projects for Policy*

Transport emissions have significant impact on climate change and poor air quality.

Electric vehicles contribute to cleaner transport and reduce Europe's dependency on imported oil, but need efficient batteries to become affordable.



**Road transport** accounts for about 20% of the EU's greenhouse gas emissions.

**The EU has made a commitment to cut greenhouse gas emissions in all sectors**

In the EU around **500 000 premature deaths** a year are caused by air pollution.

**Energy** 40% of electricity in Europe is generated from fossil fuels.

**to 80% below 1990 levels** by 2050.

**90% of Europeans** are exposed to harmful air pollution in urban areas.

**Research and innovation for new and better solutions**

The EU has invested in research and innovation on battery technologies. **€375 million** 2007-2015

FP7 and Horizon 2020

**135 projects** have produced results to:

- develop next-generation electric batteries
- improve air quality
- reduce dependency on oil and ensure a more stable energy supply
- generate new jobs and businesses relating to transport, energy and battery production

## Actions for policymakers

- establish a common **infrastructure for fast charging** electric vehicles
- develop fit-for-purpose performance and safety assessment standards for batteries
- facilitate the **recycling and reuse of batteries** for new purposes
- harmonise **charging protocols and billing systems** in Europe
- support **European battery cell production**
- promote research on new battery materials and chemistries
- support the transition to electricity production from renewable sources

### MORE INFORMATION

Read the full R&I Projects for Policy report on **Batteries**: <http://europa.eu/!kk96Yr>

#EUTransportresearch

Find all R&I Projects for Policy editions on: <http://ec.europa.eu/research/p4p>

### See also:

<http://ec.europa.eu/research/transport>

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