



Resource efficiency of manufacturing value chain: a competitiveness factor

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Research and
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Raw materials in EU policy

*Circular economy package
(2015)*

*Horizon 2020: research for
increased efficiency*

Factories of the Future (FoF)



Fighting climate change

*Combining climate targets
and energy policy*

*Included in industrial
research topics (NMBP)*

FoF03-2014 targets:

	Energy	CO ₂
Cradle to gate	-20%	-20%
Cradle to grave	-30%	-30%



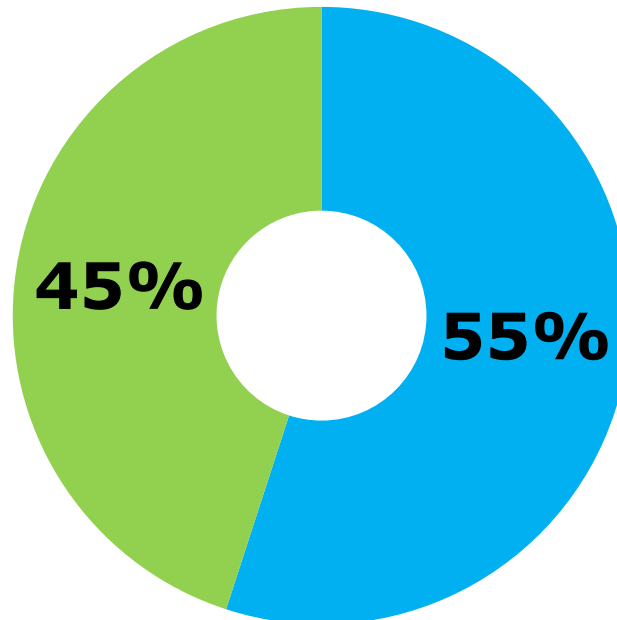
NMBP – WP 2018-2020

Climate, Energy and the circular economy

**Contributions
to focus areas**

**Climate, Energy
(25%)**

**Circular Economy
(20%)**



Bringing the digital to the physical world

**Contributions to
Industry 4.0
focus areas**

*including
innovation hubs
to bring
nanotechnologies
closer to markets,
and medical
technologies*

Horizon 2020 priorities

Jobs and competitiveness

Industry growth

*Impact and market uptake:
commercialisation is key*



Reduction across the value chain

*Product = [cradle to gate
cradle to grave*

Manufacturing value chain

*Chain-wide optimisation
⇒ **higher market impact***

