EU Circular Economy Stakeholder Forum

Impacts of circular economy activities on the labour market

A research study for the European Commission (DG Environment)

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Thursday 7 March, Brussels

How does a transition to a more circular economy affect jobs and skills demand in Europe?





Ellen MacArthur Foundation (2014) is the most commonly cited as the circular economy definition...

The circular economy aims to keep products, components and materials in the economy for as long as possible and thus tries to reduce or eliminate waste.

The two main strategies to increase the circularity of the economy are:
(1) Regeneration of biotic materials
(2) maintaining the value of abiotic materials for as long as possible through various feedback loops and recovery schemes



Circular economy 'activities' included in the study



Scenario analysis

- "What if" circular economy models identified are achieved at scale?
 - identify impact of circular economy on EU labour market
 - concept of *additionality* need to separate out the effects of circular economy from 'other trends'
- Three forward looking scenarios
 - Business as usual: continuation of historical trends
 - Moderate (measures in Circular Economy package + *moderate* additional sector transformations)
 - Ambitious (measures in Circular Economy package + *ambitious* additional sector transformations)



Key findings

- A more circular economy will contribute to resource efficiency, reduce negative environmental impacts and increase employment
- The increase in net employment (of around 700,000 jobs by 2030) comes about because
 - of a large structural change in the Waste Management and Recycling sector as a result of a large increase in demand for labour intensive recycling
 - a reduction in demand for 'primary' sectors, but these are typically imported and/or have fewer jobs associated with each unit of output
 - the increase in economic efficiency overall, leads to a small increase in jobs across most sectors (the rebound effect)



Net employment outcomes

Circular economy job impacts across the EU28 sectors in 2030 (thousands)

Agriculture Forestry and wood products Extraction (energy) and manufactured fuels Extraction (non-energy) Chemical Food manufacturing Metals Plastics Electronics Non-metallic minerals Motor vehicles (including sales) Waste management Other Manufacturing Repair and installations Utilities (gas, electricity and water) Construction Transport and warehousing Services



Key findings

- A more circular economy will contribute to resource efficiency, reduce negative environmental impacts and increase employment
- The change in skills demand will be *evolutionary*, rather than *revolutionary*
 - small-scale compared to other trends expected over the same period
 - inter-connected with these other trends
 - continued increase in demand for 'cross-cutting' competences and transversal skills
 - not a barrier to any transition
- There are large uncertainties
 - particularly the degree to which the recycling sector might become automated
- Rebound effects matter



For the detailed study see:



https://circulareconomy.europa.eu/platform/sites/default/files/

For more details about Cambridge Econometrics:



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