As outlined in the Roadmap of the EU’s SPIRE PPP (Sustainable Process Industry through Resource and Energy Efficiency), “the European process industry represents the roots of the European economy by transforming raw materials into intermediate and end-user products”. What all sectors of the process industry have in common is that they are highly dependent on resources (such as energy, raw materials and water) for their production. As a consequence, the process industry is striving for long-term sustainability and efficiency in order to ensure competitiveness. The SPIRE Roadmap lists a number of concrete ambitions for the European process industry such as the reduction of fossil energy intensity e.g. through the introduction of novel energy-saving processes and the reduction of non-renewable, primary raw material intensity e.g. through increasing the use of renewable raw materials. These ambitions set the background for the PRODIAS project, which aims at providing new cost- and energy efficient downstream-processes to facilitate a competitive use of renewable feedstocks in the process industry.

Format:
Project

Year:
2015

URL:
https://www.spire2030.eu/prodias

Source:
Spire2030

Type of evidence:
- Scientific articles
- Projects/project reports

Sectors:
- Manufacturing

Expected changes of economic processes:
- Efficient use of resources
- More recycling and use of recycled materials
- Utilisation of renewable energy sources
- Shift in consumption patterns

Indirect effects on the economy:
Change in consumption patterns [10]

Environmental impacts:
- Use of resources [11]

Economic impacts:
- Investment [12]

Time frame for impacts to materialize:
- Short term (up to 2 years) [13]

Enabling factors:
- Technological development and cost of technologies [14]
- Business models and collaboration between companies in the value chain [15]

Administrative level:
- Regional/local [16]
- Industry [17]

Method of valuation:
- Quantitative assessment [18]

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Source URL: https://circular-impacts.eu/library/1273

Links