

Recycling shredded used tyres and rubber waste into personalized recovered Carbon Black to limit use of fossil fuels and carbon dioxide emission



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Fact Sheet

Project Information

CBreCYCLE

Grant agreement ID: 101009283

[Project website](#)

DOI
[10.3030/101009283](#)

Project closed

EC signature date
5 October 2020

Start date
1 September 2020

End date
31 July 2023

Funded under
PRIORITY 'Societal challenges

Total cost
€ 3 569 375,00

EU contribution
€ 2 498 562,50

Coordinated by
SYNTOIL SPOLKA AKCYJNA
 Poland

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Digital democracy to dark matter: how Horizon supports research and innovation in Poland

Project description

Innovative tyre recycling solution

The production of rubber tyres is important for the European economy. However, the industry consumes fossil fuels, generates waste and harmful emissions, and only a small fraction of used tyres are recycled. Syntoil S.A. has developed a continuous pyrolysis process that limits the usage of fossil fuels and minimises waste and carbon dioxide emissions. The EU-funded CBreCYCLE project focusses on the main products of pyrolysis by developing a unique method that recovers carbon black (rCB) from the char and could replace traditional carbon black in tyre production and other applications. The project will seek support from the EIC Accelerator to develop an industrial scale demonstration and prepare the method for commercialisation.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > [fossil energy](#) > [coal](#)
[engineering and technology](#) > [environmental engineering](#) > [air pollution engineering](#)



Keywords

[Continuous pyrolysis](#)

[soot](#)

[char](#)

[cleaning](#)

[carbon black](#)

[recycling](#)

[recycled](#)

[circular economy](#)

[used tyres](#)

[shredded](#)

[rubber waste](#)

[low carbon dioxide](#)

Programme(s)

[H2020-EU.3. - PRIORITY 'Societal challenges'](#)

MAIN PROGRAMME

[H2020-EU.2.3. - INDUSTRIAL LEADERSHIP - Innovation In SMEs](#)

[H2020-EU.2.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies](#)

Topic(s)

[H2020-EIC-SMEInst-2020-4 - H2020-EIC Accelerator pilot -SME Instrument - Green Deal](#)

Call for proposal

[H2020-EIC-SMEInst-2018-2020](#) 

[See other projects for this call](#)

Sub call

H2020-EIC-SMEInst-2018-2020-4

Funding Scheme

[SME-2 - SME instrument phase 2](#)

Coordinator



SYNTOIL SPOLKA AKCYJNA

Net EU contribution

€ 2 498 562,50

Total cost

€ 3 569 375,00

Address

**UL PL POWSTANCOW SLASKICH 17A LOK 222
53 329 WROCLAW**

 **Poland** 

SME 

Yes

Region

Makroregion południowo-zachodni > Dolnośląskie > Miasto Wrocław

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Last update: 5 June 2024

Permalink: <https://cordis.europa.eu/project/id/101009283>

European Union, 2025