

Your partner in strategy, technology
and sustainability

Upcoming Conferences and Recent Reports



NEW DATA FOR 2020

Bio-based Naphtha and Mass Balance Approach
Status & Outlook, Standards & Certification Schemes

Principle of Mass Balance Approach

Feedstock	Process	Products
Use of renewable feedstock to meet full demand of chemical production (e.g. naphtha)	Utilisation of existing integrated production for all production steps	Allocation of the renewable share to selected products

Authors: Michael Carus, Doris de Guzman and Harald Käß
March 2021
This and other reports on renewable carbon are available at www.renewable-carbon.eu/publications

Bio-based Building Blocks and Polymers – Global Capacities, Production and Trends 2020–2025

Authors: Pia Skoczinski, Michael Carus, Doris de Guzman, Harald Käß, Raj Chivthapalli, Jan Ravenstijn, Wolfgang Baltes
January 2021
This and other reports on renewable carbon are available at www.renewable-carbon.eu/publications

REVIEWED AND EXTENDED 2021

Carbon Dioxide (CO₂) as Chemical Feedstock for Polymers
Technologies, Polymers, Developers and Producers

Authors: Pauline Ruiz, Achim Raschka, Pia Skoczinski, Jan Ravenstijn and Michael Carus, nova-Institut GmbH, Germany
January 2021
This and other reports on renewable carbon are available at www.renewable-carbon.eu/publications

NEW

Production of Cannabinoids via Extraction, Chemical Synthesis and Especially Biotechnology
Current Technologies, Potential & Drawbacks and Future Development

Authors: Pia Skoczinski, Pemp Grottenstern, Bernhard Bessie, Michael Carus and Achim Raschka
January 2021
This and other reports on renewable carbon are available at www.renewable-carbon.eu/publications

Commercialisation updates on bio-based building blocks

Bio-based building blocks
Evolution of worldwide production capacities from 2011 to 2024

Author: Doris de Guzman, Techno OxyChem, United Kingdom
Updated: European Summary and Market Review May 2020 – Originally published February 2020
This and other reports on the bio- and CO₂-based economy are available at www.bio-based.eu/reports

Chemical recycling – Status, Trends and Challenges
Technologies, Sustainability, Policy and Key Players

Plastic recycling and recovery routes

Author: Lars Krause, Florian Dietrich, Pia Skoczinski, Michael Carus, Pauline Ruiz, Lara Dammer, Achim Raschka, nova-Institut GmbH, Germany
November 2020
This and other reports on the bio- and CO₂-based economy are available at www.renewable-carbon.eu/publications



www.renewable-carbon.eu/publications

The best market reports available

“nova-Institute’s market and trend reports offer deep insight in the dynamics of special markets within the chemical industry. Our studies are built on top of latest insights from market experts, thorough research and a large number of individual interviews with industry players to ensure highest quality of the available market data.”

Michael Carus, CEO nova-Institute





2 – 3 February 2022

Hybrid Event
Cologne (Germany)



www.cellulose-fibres.eu

Cellulose fibres are among the winners of the European “Single-Use Plastics Directive (SUPD)”, which has been in effect since July 2021 and entails plastic bans for a variety of single-use products.

Cellulose fibres have been a success story within the textile market with a compound annual growth rate (CAGR) between 5 and 10 % over the last ten years and similar growth rates are expected in the coming decade. This makes cellulosic fibres the fastest growing fibre group in the textile industry and also the largest investment sector in the global bioeconomy.

Focus of the Conference

- Impact of plastic-bans on single-use products
- Transformation from fossil to renewable raw materials
- Challenges in developing new value chains
- Alternative raw materials for cellulose fibres
- Latest technology and market trends
- Market dynamics and stakeholders in the cellulose sector
- New ecosystems and partnerships
- Development of political environment
- Improvement of sustainability in production



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Cellulose Fibre Innovation of the Year 2022

Sponsors



Birla Cellulose
Fibres from nature



23 – 24 March 2022

Hybrid Event
Cologne (Germany)



www.co2-chemistry.eu

Meet the frontrunners in Carbon Capture & Utilisation (CCU) at one of the premier and most prominent conferences on CO₂ as renewable carbon feedstock for fuels and chemicals in the world.

The conference is one of the earliest and most established worldwide and has developed into a unique meeting place for the entire Carbon Capture & Utilisation (CCU) and Power-to-X industry and its customers. Take a look into the near future and exchange ideas with the leading pioneers.

Focus of the Conference

- Green Hydrogen Production
- Carbon Capture Technologies
- Advanced Technologies
- Artificial Photosynthesis
- Building Blocks, Bulk and Fine Chemicals
- Fuels for Transport and Aviation
- Strategy & Policy



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Best CO₂ Utilisation 2022

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10 – 12 May 2022
Hybrid Event
Cologne (Germany)



www.renewable-materials.eu

The unique concept of presenting all renewable material solutions at one event hits the mark: bio-based, CO₂-based and recycled are the only alternatives to fossil-based chemicals and materials.

Ready-to-use fossil-free sustainable material solutions with a low carbon footprint are in fast-growing demand. Innovative brand owners are keeping an eye out for such solutions, in particular those that will soon reach the mainstream.

For the second time, nova-Institute presents numerous market highlights from bio- and CO₂-based chemicals and materials as well as from chemical recycling: All material solutions based on renewable carbon. Over the course of three days, participants will get a comprehensive overview of the latest developments in the renewable material sector, with a focus on industry-ready solutions from a wide spectrum of sustainable raw materials and technologies.

The program includes a diverse range of bio-based chemicals and materials such as bio-based building blocks, polymers, plastics and biocomposites, CO₂-based materials as well as mechanically and chemically recycled materials.



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www.renewable-carbon.eu/newsletters

Topics include:

- Agriculture, Forestry and Resources
- Automotive
- Bio-based Chemicals and Industrial Biotechnology
- Bio-based Materials, Plastics and Composites
- Carbon, Capture and Utilisation
- Digitalisation and Artificial Intelligence
- Energy
- Engineering
- Food
- Natural Fibres
- Pharma
- Policy
- Recycling
- Renewable Carbon
- Sustainability
- All events and conferences
- All press releases
- Bio-based News Daily Newsletter
- nova's Monthly Newsletter

Renewable Carbon Events

More information and events on
renewable carbon at

www.renewable-carbon.eu/events/



**Your news source on renewable carbon:
bioeconomy, CO₂ Utilisation, chemical recycling.**

220,000

Readers Monthly

> 28,000

Reports

> 13,000

Companies

> 3,500

Twitter Followers

@RenewableCNews

**International Directory for
Renewable Carbon Companies**

The ReCaCo has established itself as the main source of information on companies, associations and institutes in the renewable circular economy.

Research and Science-based Consulting Services

nova-Institute is a private and independent research institute, founded in 1994; nova offers research and consultancy with a focus on the smart transition of the chemical and material industry to renewable carbon.

- What are future challenges, environmental benefits and successful strategies to substitute fossil carbon with biomass, direct CO₂ utilisation and recycling?
- What are the most promising concepts and applications?

We offer our unique understanding to support the transition of your business into a climate neutral future.

Contact us directly or learn more at www.nova-institute.eu

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