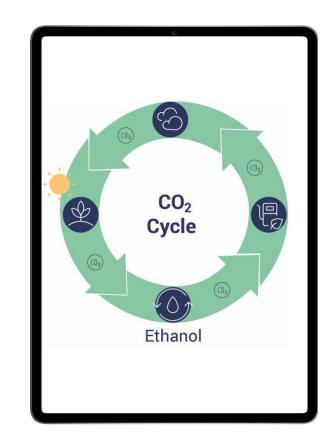


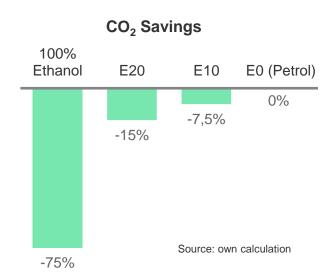
Renewable ethanol



Climate protection in the transport sector

- Produced from domestic, renewable raw materials
- Helps fossil carbons stay in the ground permanently and stops driving climate change
- Less greenhouse gases, nitrogen oxides & particulate matter compared to fossil fuel
- Road transport causes around 20% of greenhouse gases in Europe
- European ethanol saves on average
 75% of greenhouse gases compared to petrol







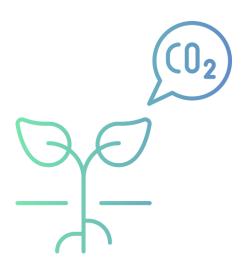
Ethanol



>75% less GHG emissions compared to fossil fuels*

- The GHG values of all elements in the value-added chain are added up
- The emissions from ethanol when used in combustion engines is zero
- European ethanol reduces annual GHG emissions by >10 Mt**





Range of products

Renewable ethanol



As an additive to **petrol** to improve the greenhouse gas balance



As **neutral alcohol** for food and beverages



As **neutral alcohol** for the processing industry: cosmetics, pharmaceuticals, disinfection, technical applications



As a basis material for the chemical industry





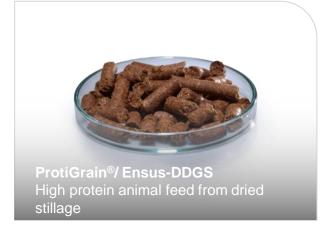
High-quality, renewable **ethanol** (alcohol)



Food and animal feed

From ethanol production











All raw material components are processed into high-quality products

Vitamins Starch Minerals Fibres



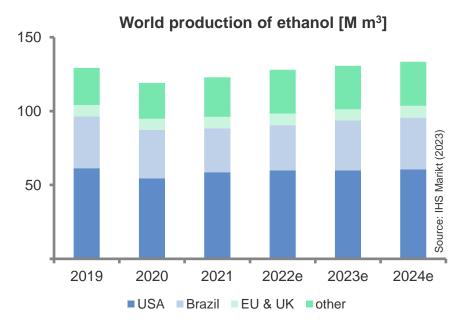
September 2023

The ethanol markets

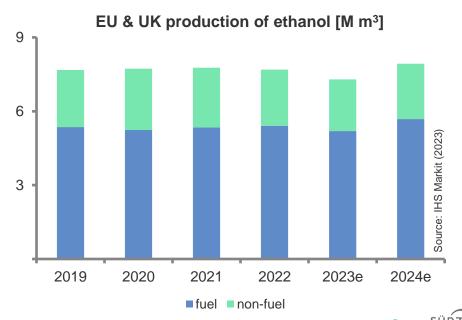


Production

- World production
 - 2023e: 129 million m³ (+3%)
 - Fuel applications: 110 million m³ (+4%)
 - 2024e: 132 million m³ (+2%)
 - Fuel applications: 113 million m³ (+3%)



- EU & UK production
 - 2023e: 7.3 million m³ (-5%)
 - Fuel applications: 5.2 million m³ (-4%)
 - 2024e: 7.9 million m³ (+9%)
 - Fuel applications: 5.7 million m³ (+9%)





Volumes

Ethanol market in the EU27 & UK in 2023 (in million m³)

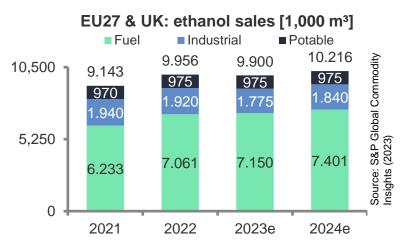
Consumption: 9.9 -1% (7.2 fuel | 2.8 non-fuel)

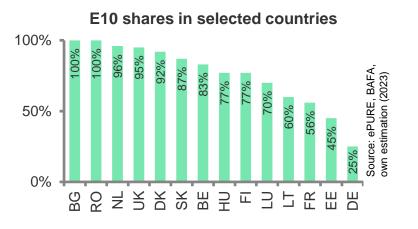
Production: 7.3 -5% (5.2 fuel | 2.1 non-fuel)

- Fuel ethanol sales expected to increase further in 2024
- Non-fuel ethanol sales expected to decrease slightly

E10 no. 1 petrol in many European countries

- Currently, 17 EU member states plus Norway and the UK have rolled out E10 at petrol stations
- Sales growth in particular in France, Sweden and UK
- E10 sales in Germany also increasing
- Start of E10 sale in Ireland, Austria and Norway in April 2023
- Introduction in Poland planned at beginning of 2024









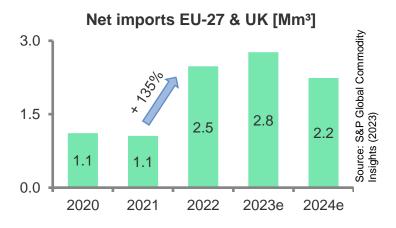
Imports and prices

Imports expected to remain at high level in 2023

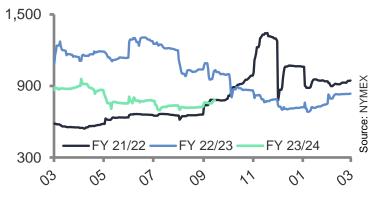
- Large price difference made imports to Europe attractive
- Price gap has decreased in recent months
- Europe needs imports to cover rising demand

European ethanol price* in 2023

- Average ethanol price in Q2 2023/24 € 746 (1,171) /m³
- Lower price level due to general normalisation of price levels on commodity markets
- Closed arbitrage over the last months making imports less attractive



European ethanol prices [€/m³]



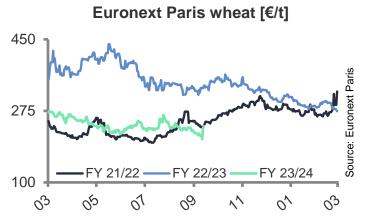
^{*} Ethanol T2 FOB Rdam, next date of expiry

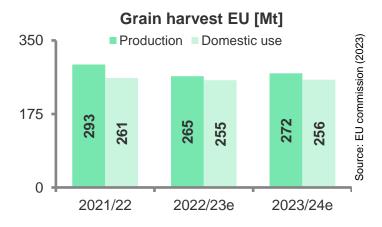


Feedstock market

Grain market 2023/24

- Grain prices in Q2 2023/24*: € 236 (350) /t
- EU grain harvest: 272 (265) Mt exceeds consumption of 256 (255) Mt
- Imports to EU are expected to normalize after sharp increase in grain year 2022/23
- IGC expects rise of global grain harvest with 2,294 (2,263) Mt
- Recent price increase due to battle operations at the black sea





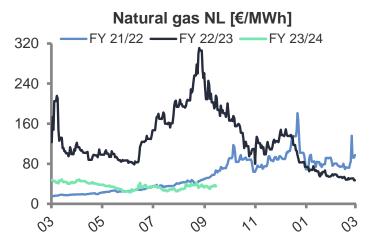


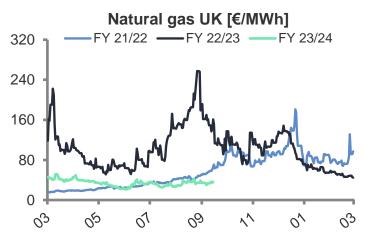


Energy markets

Gas price quotations shifted upwards on supply uncertainties

- Spot prices are up week-on-week on the Australian strikes limiting LNG sendouts
- Further price developments and security of supply in Europe will mainly be determined by
 - global LNG supply and demand (outcome of strike negotiations in Australia)
 - storage levels
 - natural gas consumption
 - weather conditions
- Crude oil price as central benchmark is slowly rising





Current political framework – RED* II



14% renewable energy in transport sector by 2030

Arable crops



- 2020 level, max. 7%
- Local, sustainable
- Proteins
- Commitment to 1G as reliable basis for low-emission transport sector necessary

Annex IX-A



- Min. 0.2% in 2022
- Min. 1.0 % in 2025
- At least 3.5% in 2030
- Strong market potential
- Very capital intense
- Investment security and investment incentives decisive

Annex IX-B



- Max. 1.7%, but still x2 versus today
- UCO imports: 10x within last 10 years
- Compatibility with law on waste needs to be ensured

Electricity



- Important component in the future
- But: discretionary multiplier (x4) does not save a single gram of CO₂
- Extension only reasonable if additional green electricity will be produced



^{*} Renewable Energy Directive

Green Deal and Fit-for-55 package



Parliament and Council agree on several key legislative initiatives

Fit-for-55: Overall goal to reduce GHG emissions by 55% in 2030

Emission Trading System (ETS)

- More ambitious GHG reduction goal of 62% (vs. 43%)
- Introduction of a separate new ETS for buildings, road transport and fuels

Renewable Energy Directive (RED-III)

- Share of renewable energy overall shall increase to 42.5% (vs. 32%)
- More renewables in industry, heating & cooling and transport required

ReFuelEU aviation and Fuel EU maritime

- Sustainable aviation fuels (SAF) of 6% in 2030 increasing to 70% until 2050
- GHG savings in maritime fuels of 6% in 2030 increasing to 80% until 2050

CO₂ standards for cars and vans

- Increased CO₂ emission targets of -55% in 2030 and -100% in 2035 for new cars
- Clear violation of the principle of technology openness and neutrality despite limited loophole for synthetic fuels



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Revision "Renewable Energy Directive"



Agreement between Council and Parliament

Overall energy consumption

Target for renewable energies raised to 42.5% by 2030 with an additional
 2.5% indicative top up

Transport sector

- Member States can choose between one of two binding targets by 2030:
 - Reduction of greenhouse gas intensity by at least 14.5% or
 - At least 29% share of renewable energies
- Crop-cap no further restrictions: share in 2020 plus 1% (max. 7%)
- Binding combined sub-target of 5.5% for advanced biofuels and renewable fuels of non-biological origin (RFNBO), thereof at least 1%-point of RFNBOs

Approval of European Parliament on 12 September - next step formal approval of European Council



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CropEnergies



Innovation from Biomass

For our future:

Sustainability and climate neutrality

- Core business of mobility with sustainable and climate-friendly fuels
- New business area based on ethanol derivatives as an alternative to fossil raw materials
- Biogenic CO₂ as the raw material of the future and for the company's further development
- Protein products for the food and feed industry serve growth market and deepen value creation
- New business area for green electricity and green hydrogen

Raw materials from lignocellulose, i.e. wood/straw/ other plant parts



as raw material for biobased chemicals



meat substitute

Defossilisation of the chemical industry

Production of green methanol

More security of supply from European production

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Protein Concentrate "EnPro"



Investment of ~ € 75 million at Ensus plant

- New product will be marketed under the brand name EnPro
- High-protein product aimed at UK and European aquafeed and pet food markets
 - Protein content around 55-60%
 - GMO free and sustainable
- Diversification of overall product portfolio
- Total investment approximately € 75 million
- Commissioning scheduled for 2025
- Further investments of ~ € 25 million planned to improve plant reliability and reduce emissions of Ensus' production site



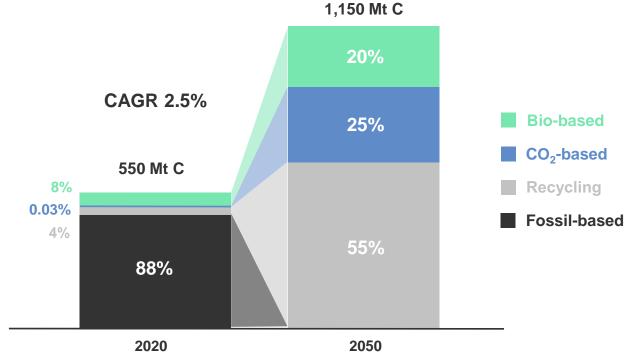
Biobased Chemicals (BBC)



Green carbons: growth opportunity for CropEnergies

Global demand for carbon for chemicals increases

(million tonnes of embedded carbon)



Source: Kähler, F., Porc, O. and Carus, M. 2023. RCI Carbon Flows Report: Compilation of supply and demand of fossil and renewable carbon on a global and European level. Editor: Renewable Carbon Initiative, May 2023. Available at: www.renewable-carbon-initiative.com

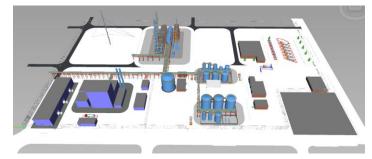
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Project ZETAC

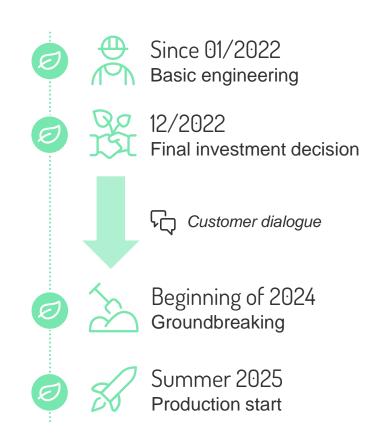


€ 120-130 million investment in renewable ethyl acetate

- Construction of the first of its kind production facility in Europe based on Johnson Matthey technology
 - Production of 50,000 t ethyl acetate with a valuable hydrogen by-product stream directly from ethanol
 - Location: Zeitz Chemical and Industrial Park
- Ethyl acetate is widely used in the manufacture of cosmetics, flexible packaging and coatings, paints and adhesives, as well as in the food, beverage and pharmaceutical industries







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Renewable Ethylen



A further step towards Biobased Chemicals (BBC)

Acquisition of 50% in the Dutch start-up Syclus BV

- Objective: construction and operation of a first of its kind ethanol-to-ethylene facility at the Chemelot industrial park in Geleen, Netherlands
 - Annual production capacity approx. 100,000 t
 - Technical and economic feasibility until end of 2023
 - Investment requirement in the range of € 120-130 million
- Renewable ethylene alternative to oil and gas
 - European demand for (fossil) ethylene approx.
 20 million tonnes per year
 - Main building block for plastics and polymers, e. g. packaging, building materials, automotive applications, paints, adhesives, fibers, clothing and many more everyday products





Chemelot industrial park

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Participation in East Energy

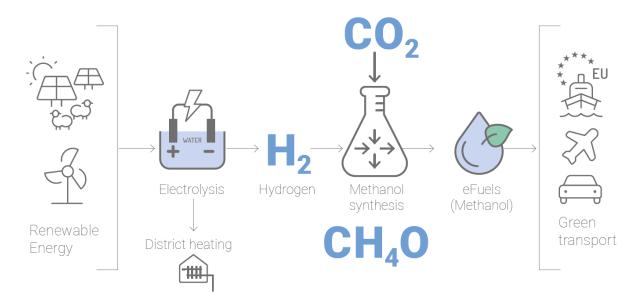


Energy transition requires green electricity

- In September 2022, CropEnergies acquired a 25% stake in East Energy
- East Energy plans the construction of several large photovoltaic parks in North-Eastern Germany
- Production of green hydrogen from self-generated electricity envisaged
- Production of methanol as fuel for ships and aviation under investigation



eFuels from solar and wind energy



CropEnergies acquires stake in LXP Group



Next step in strategic realignment

CropEnergies secured approx. 20% of the biotech startup

Access to innovative technology for 2nd generation feedstocks

- Patented process mild digestion of cellulosic and hemicellulosic biomass like forest and wood residues or straw for advanced biofuels and biobased chemicals
- In addition, high-purity, natural lignin for e.g., 3D printer ink, carbon fibers or phenolic resins
- Technology can also be integrated into existing biorefineries
- LXP Group GmbH plans to build a pilot plant using 15,000 t of biomass in 2024/2025







September 2023



Financials 1st quarter 2023/24

Overview 1st quarter 2023/24



•	Ethanol production	221 (281) ,000 m ³	- 21%
---	--------------------	-------------------------------	-------

• Revenues € 321.4 (398.9) million - 19%

EBITDA € 25.1 (97.8) million - € 73 million

Net income
 € 11.2 (64.9) million
 - € 54 million

Net financial assets (vs. 28.02.2023) € 295.6 (318.1) million - € 23 million

Operating profit



(in € million)	Q1 2023/24	Q1 2022/23	Δ
Revenues	321.4	398.9	- 19%
Overall performance	310.0	396.3	- 22%
Cost of materials*	- 254.0	- 277.1	+ 8%
Spread (gross)	56.0	119.2	- 53%
in % of overall performance	18.1%	30.1%	
Further operating expenses/income*	- 30.9	- 21.4	- 44%
EBITDA*	25.1	97.8	- 74%
Margin	4.4%	21.8%	-
Depreciation*	- 11.0	- 10.6	- 3%
Operating profit	14.1	87.2	- 84%

^{*}without restructuring costs and special items

- Decrease in production, sales volumes and revenues due to scheduled maintenance downtime
- Sharp price increase on the commodity markets caused by the Ukraine conflict now also reflected in raw material expenses







September 2023

Net earnings



(in € million)	Q1 2023/24	Q1 2022/23	Δ
Operating profit	14.1	87.2	- 84%
Restructuring costs / special items	- 0.2	0.0	-
At-equity result	0.0	0.1	- 81%
Income from operations	13.9	87.2	- 84%
Financial result	1.3	0.5	> + 100 %
Earnings before income taxes	15.2	87.7	- 83%
Taxes on income	- 4.0	- 22.8	+ 83%
Net earnings for the period	11.2	64.9	- 83%
Earnings per share (in €)*	0.13	0.74	- 83%

^{*}without restructuring costs and special items

- Increased interest income leads to improved financial result
- EPS follows earnings development



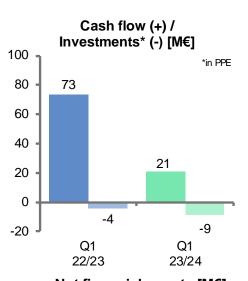
^{*}based on 87.2 million time-weighted shares

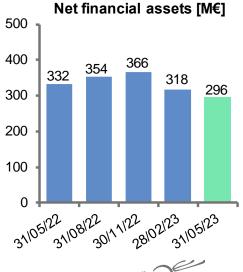
Cash flow



(in € million)	Q1 2023/24	Q1 2022/23	Δ
Cash flow	20.6	73.4	- 52.8
Change in net working capital	- 31.9	35.1	- 67.0
Net cash flow from operating activities	- 11.3	108.5	- 119.8
Investments in property, plant et al.	- 9.0	- 4.2	- 4.8
Investments in financial assets	- 0.8	- 1.1	+ 0.3
Increase / Decrease in financial receivables	- 11.5	- 126.7	+ 115.2
Payments into current financial investments	24.9	0.0	+ 24.9
Cash flow from investing activities	3.6	- 132.0	+ 135.6
Cash flow from financing activities	1.0	9.7	- 8.7
Changes in exchange rates / consolidation basis	0.1	- 0.2	+ 0.3
Change in cash and cash equivalents	- 6.6	- 13.9	+ 7.3
	31/05/2023	31/05/2022	Δ
Net financial assets	295.6	331.6	- 36.0

- First investments for renewable ethyl acetate plant
- Increase in working capital driven by higher margin calls





Outlook 2023/24 confirmed



- Revenues between € 1.27 to € 1.37 (previous year: € 1.49) billion
- EBITDA in a range of € 140 to € 190 (previous year: € 294) million
- Operating profit between € 95 to € 145 (previous year: € 251) million

Assumptions

- Gradual decrease in volatility on the sales, raw material and energy markets
- The introduction of E10 in further European countries points to stable sales of fuel ethanol
- This will be met by continued high import volumes



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Sustainability

CropEnergies climate targets - we are on track



Targets

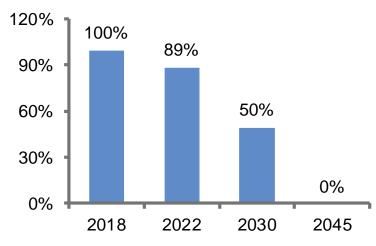
- Reduction of fossil CO₂ scope1 & 2: 50% by 2030
- Intermediate target of 24% by 2026
- "Net zero" by 2045 or before

Future Measures

- Usage of waste heat
- Improve energy efficiency
- Electrification of processes (e.g. heat pumps, vapor recompression)
- Fuel switch

CropEnergies is part of the Südzucker Group commitment to SBTi*, including the goal of - 30% scope 3 emissions by 2030

Scope 1 and 2 emissions





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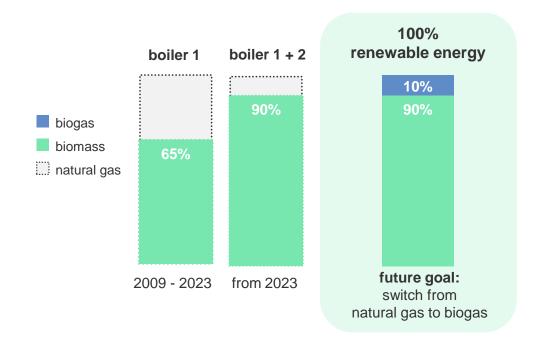
^{*} Science Based Targets initiative

BioWanze



Our first plant on the way to a fossil free production process

- Second biomass boiler in test phase fully operational in Q3/2023
- 50,000 t CO₂ reduction per year





New biomass boiler



Sustainability initiatives and external ratings



Review of developments FY 2022/23

- CE underlined it's strong commitment to global sustainability goals by joining several voluntary initiatives in 2022/23
- CE increases transparency through participation in ratings and disclosure projects
- CE is aiming to increase its engagement in sustainability platforms



*CSRD- Corporate Sustainability Reporting Directive

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EU-Taxonomy



FY 2022/23: first-time reporting of taxonomy aligned figures

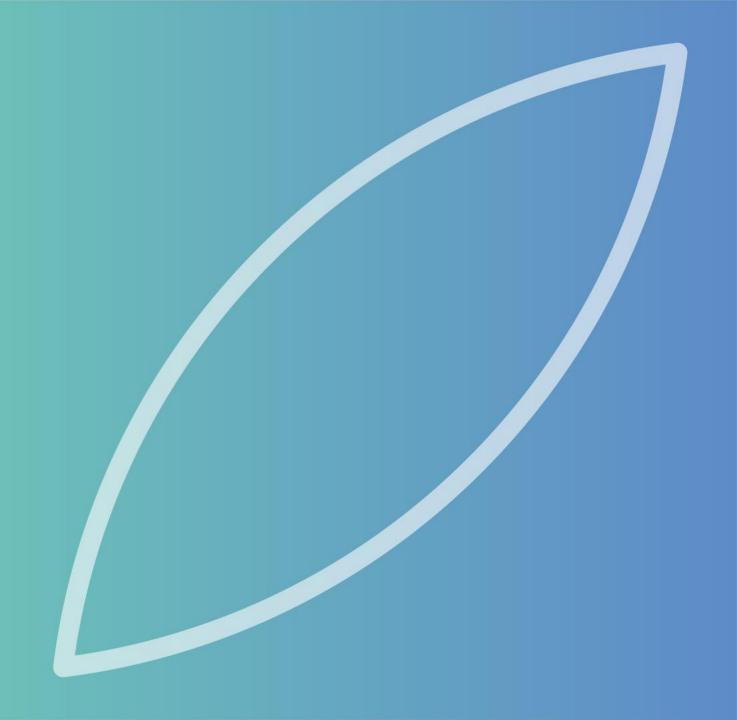


- Taxonomy-eligible sales mainly from the production of fuel ethanol from agricultural raw materials under environmental objective "climate change mitigation"
- Only sales from the production of residue-based ethanol are taxonomy-aligned

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Appendix



Super E20 for Europe



Higher biofuel blends needed to reach climate targets

Super E20: a step to climate neutrality

- Special requirements for E20 are now discussed in the German standardization DIN circle
- A future E20-standard would also help to increase the possibilities for renewable fuels (E20+)

Example Four Motors

- ✓ The special racing fuel was developed in cooperation between Shell and CropEnergies
- ✓ New fuel (2023): 60% renewable components, of which 20% ethanol, only 40% fossil fuel: ca. 40% CO₂ reduction and almost 103 octane

Super E20 at public fuel station

- ✓ Planned: 1st commercial petrol station for E20 in Mannheim
- √ Objective: proof of easy implementation in existing infrastructure

VDA Verband der Automobilindustrie

Position

Standardization of E20-fuel

Petrol with 15% to 20% (v/v) ethanol





○ Four Motor



Ethanol & eFuels – the perfect match

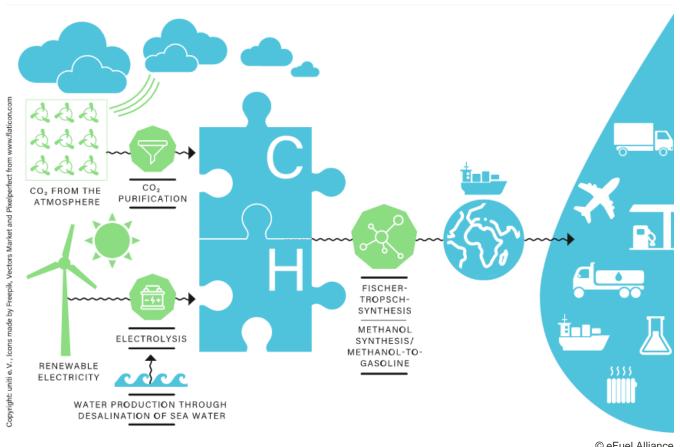


Ethanol as "octane booster"

eFuels need ethanol to increase performance

eFuels

- Manufactured using captured carbon dioxide together with hydrogen obtained from sustainable electricity sources such as wind and solar
- Climate-friendly but energy intense
- Ethanol is the perfect match to upgrade eFuels: high octane number, available and economically viable



© eFuel Alliance



Revision "Renewable Energy Directive"



Provisional agreement between Council and Parliament on 30 March 2023



OVERALL BINDING **TARGET BY 2030 (ART 3)**

42.5% + Endeavour to increase to 45% (but not mandatory)



TRANSPORT TARGET (ART 25)

- 14,5 % GHG intensity reduction or
- 29% RES consumption



ADVANCED & RFNBOS (ART 25)

- 5.5% of RE supplied to the transport sector.
- As part of this target, 1% must be RFNBO by 2030.
- MS are encouraged to set differenciated targets at national level



CROP-CAP & ANNEX IX-

- · 2020 share in transport +1% with 7% limit per MS
- Annex IX-B: limited to 1.7%; MS may modify that limit subject to approval by EC



CALCULATION FOR RE IN TRANSPORT (ART 27)

- Annex IX & RFNBOs: x2
 - · RE electricity: x4 to road & x1.5 to rail



ECCR (ANNEX V-C)

The possibility for biorefineries to claim CCR credits is maintained. however, only until 31 December 2035.



WASTE HIERARCHY AND **CASCADING PRINCIPLE** (ART 3)

- · MS shall take into account the waste hierarchy.
- Derogation allowed to ensure security of energy supply
- No direct financial support for the use of saw logs, veneer logs, industrial grade roundwood, stumps and roots to produce energy.



CULTIVATION EMISSIONS OF WASTE & RESIDUES

food or feed market, as in

RED II.

All wastes and residues to be considered zero-Possibility for operators to emission up to their point of collection, regardless if maintained they are included in Annex IX and fit for use in the

use NUTS2 values is

NUTS 2 CULTIVATION

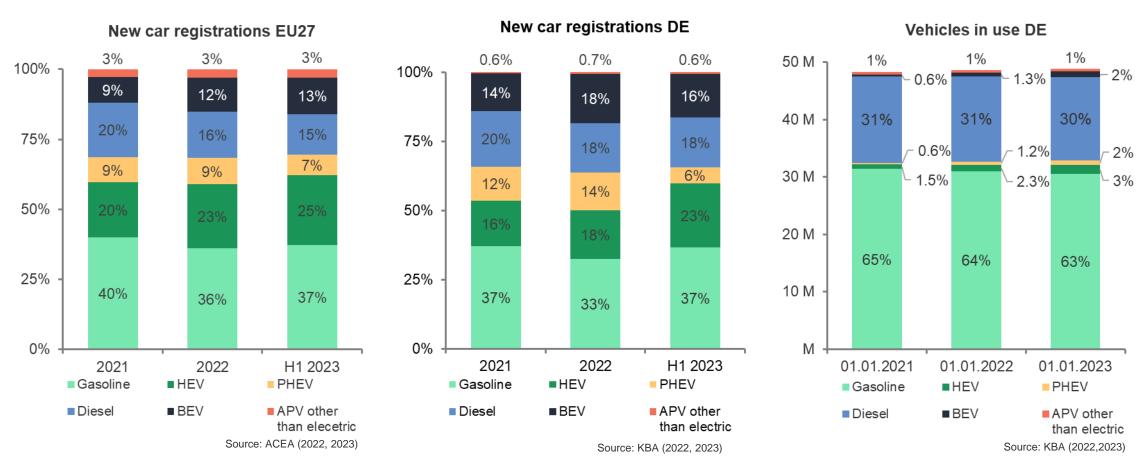
VALUES (ANNEX V-C)

September 2023

Climate-friendly liquid fuels will be essential



Development of car registrations and vehicles in use

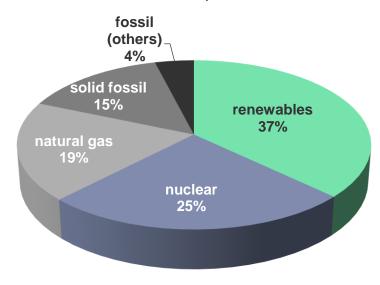


Gross electricity generation in the EU27



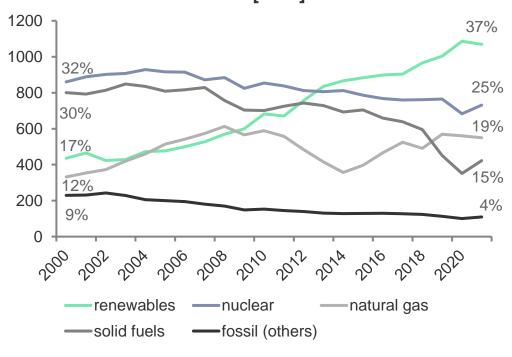
Total: 2,880 TWh





Source: Eurostat (2022)
* Preliminary data

Development of electricity generation in the EU27 [TWh]



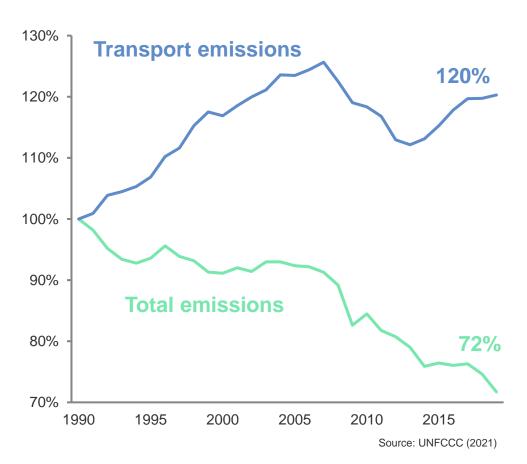
Source: Eurostat (2022), 2021 data is preliminary

Transport emissions

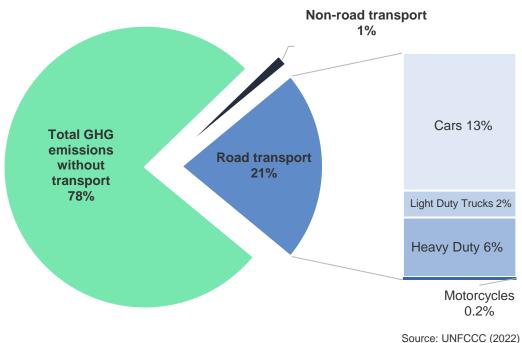


Still the EU's GHG problem child

EU transport emissions still rising



Importance of road transport emissions



Source: UNFCCC (2022)



Production sites of CropEnergies



CropEnergies AG

Mannheim - Germany

Zeitz – Germany

CropEnergies Bioethanol GmbH

400,000 m³ ethanol thereof up to 60,000 m³ neutral alcohol

> 300,000 t ProtiGrain® (DDGS) 100,000 t liquefied CO₂

Grain and sugar syrups

Annual

capacity:

Raw

materials:

Wanze – BelgiumBioWanze SA

300,000 m³ ethanol > 60,000 t wheat gluten > 400,000 t ProtiWanze® 65,000 t liquified CO₂

Grain and sugar syrups

Loon-Plage – France

Ryssen Alcools SAS

> 100,000 m³ ethanol for fuel applications 90,000 m³ ethanol for traditional and technical applications

Raw alcohol

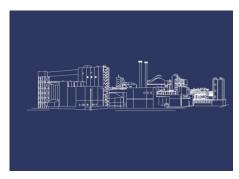
Wilton – UK Ensus UK Ltd

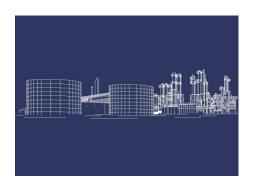
400,000 m³ ethanol 350,000 t DDGS 250,000 t CO₂

Grain

Capacity: more than 1.3 Mm³ ethanol and more than 1 Mt food and animal feed per year











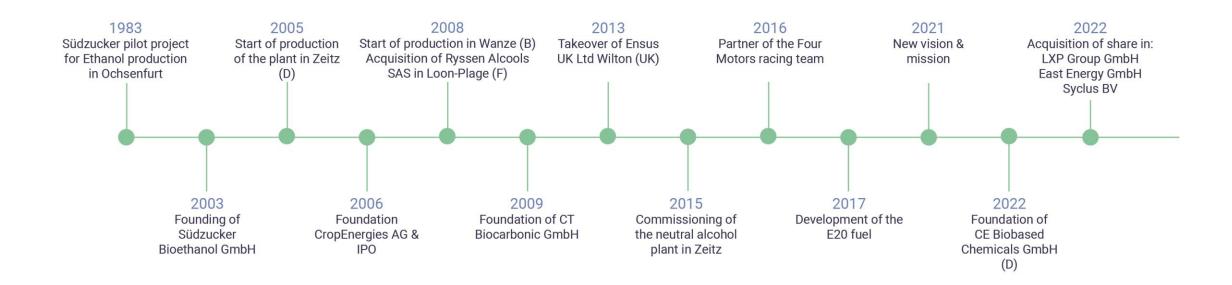
September 2023

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Corporate history

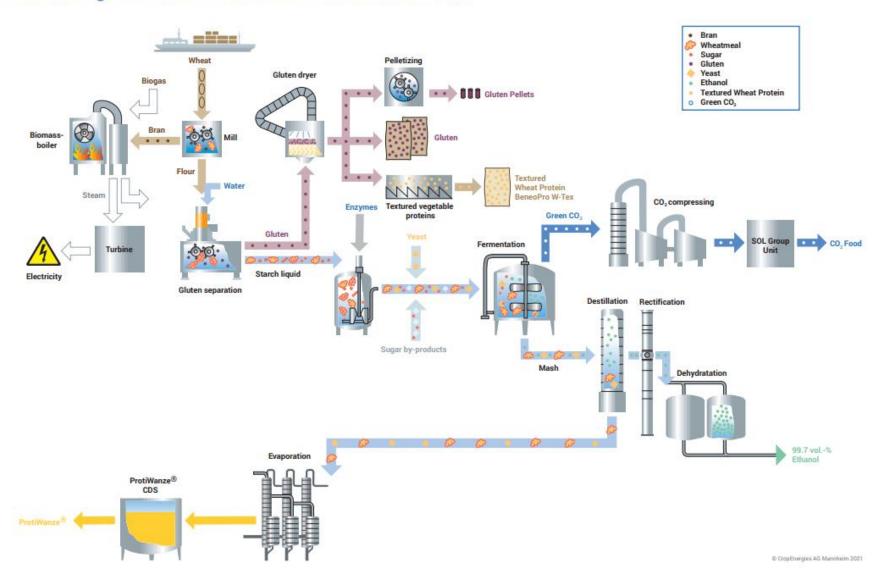


With roots in the Südzucker AG



Schematic Diagramm of the Production Process in BioWanze





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Innovation from Biomass

Financial Calender

11 October 2023: Report for the 1st half of 2023/24

10 January 2024: Statement for the 3rd quarter 2023/24

15 May 2024: Annual report and press and analysts' conference FY 2023/24

10 July 2024 Statement for the 1st quarter of 2024/25

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Transparency standard: Prime Standard

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