



SUMMARY

Nexxoil READI technology turns organic waste into organic waste into synthetic fuel.

After more than 10 years of development at HAW Hamburg, we have developed a technology that is ready for commercialization. The first customers have already signed LOIs.





Problem definition	Pages 4-5
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Solution contribution: READi Page 6

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Nexxoil is superior to previous methods

Status Quo

Three processes are used to produce synthetic fuels from waste:

Hydrogenation (end product HVO,

e.g. from Neste)Biodiesel production

Pyrolysis process

READi procedure





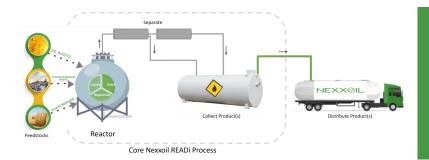
The laboratory and pilot scale tests have demonstrated significant advantages over all 3 processes.

Traction



80M in LOIs

+ Great customer interest

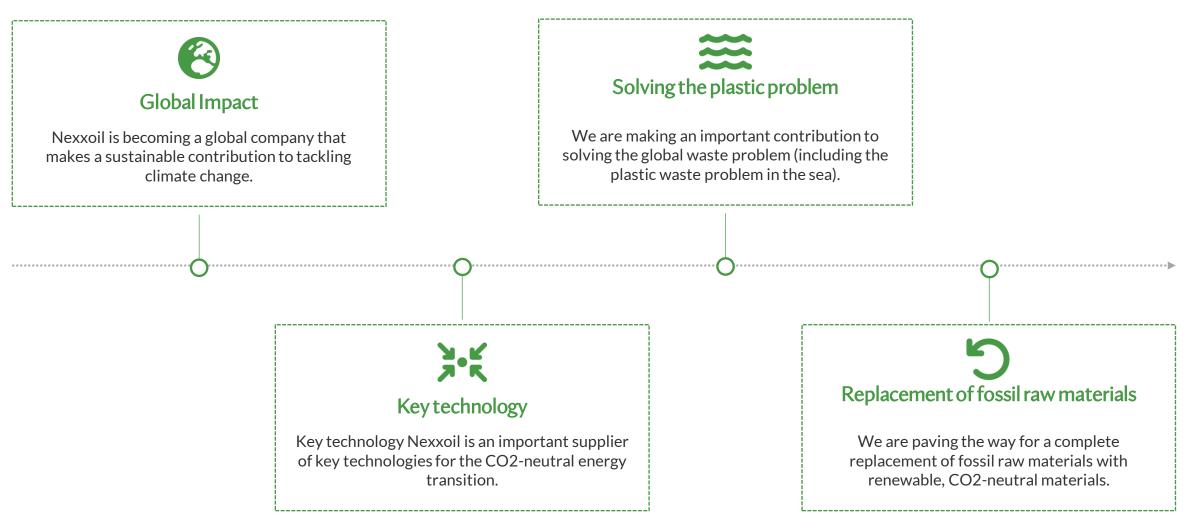


Goal of the financing round

- Financing the design & construction of the first commercial demonstration plant.
- Expansion of the use for chemical recycling of plastic waste



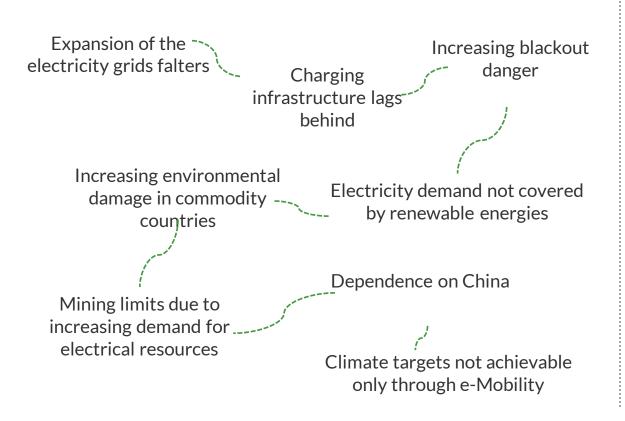
Nexxoil is part of the solution to the climate problem



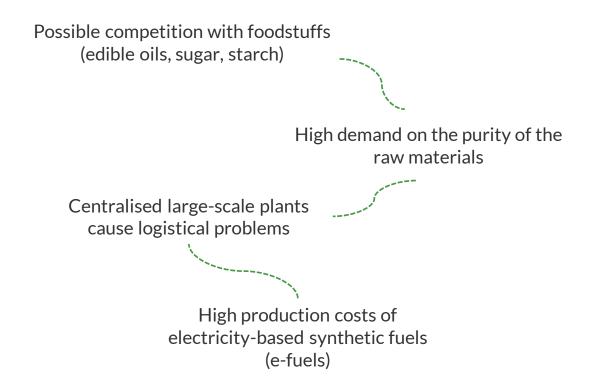


Current solutions are not scalable

Problems of Electromobility

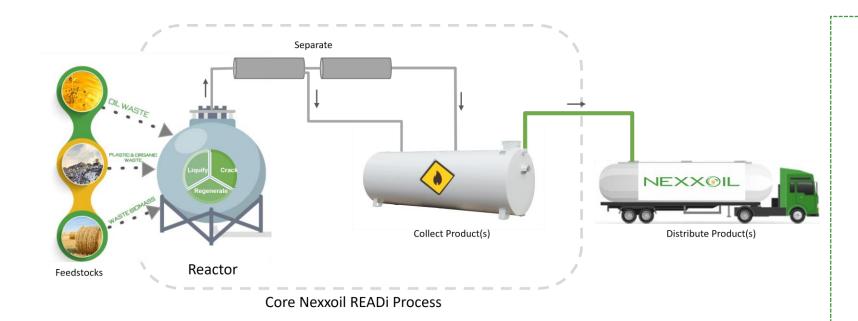


Problems so far of alternative raw materials





READi: Fuels from biogenic waste



Advantages

Energy yield ~80

Simply constructed production plant (know-how is in process control)

Low production costs can be used economically on a small scale (>2500t / year) & thus interesting for medium-sized production or disposal companies

INPUT

Biogenic or plastic waste

Suitable for contaminated raw materials & low-grade pyrolysis oils

OUTPUT

Produces a high-quality oil that can be converted into drop-in fuels of all types with little effort

READi is patented

There is no alternative process with comparable positive properties.



Strong tailwind from EU legislation

25%

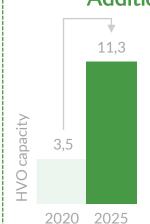
Greenhouse gas savings through renewable fuels required by 2030 TOM TONS/Y

Additional demand per year in Germany alone (excluding kerosine for aviation)

20M Tons/Y EAR

Lack of renewable fuel in Europe (in road transport alone)





Additional demand can currently only be met by HVO and companies like NESTE. However, the planned capacity of all plants for the whole of Europe in 2025 is only 11.3 million tonnes. tonnes.

HVO is predominantly based on PFAD, a by-product of palm oil production. Alternatively, HVO requires high-purity raw materials, which in the case of waste fats (e.g. UCO = Used Cooking Oil) means an additional cost.

4

A significant proportion of all these needs can be met by Nexxoil.

Source: greenea Horizon 2021



READi as part of the circular economy

Demand fuels



Demand for fuels will decline, but with 1.4 billion vehicles (incl. trucks) it will always remain very high - especially in China, South America, Russia, Africa and India.

Use of mineral oil

50%

50%

Fuels

Heating market, chemical industry, etc.

Demand fuels READi as an integral part of the circular economy

By producing petroleum substitutes from plastic waste, we are making a significant contribution to the establishment of a circular economy and at the same time serving the global demand for hydrocarbon molecules.

Advantages

Recycling of plastic waste

Recycling of animal production by-products

Recycling of problem waste (e.g. grease separator fats)In addition, great potential through the cultivation of biomass on marginal land (=> binding of CO₂ and at the same time production of renewable fuel)



NEXXOIL is cheaper & higher quality

	NEXX@IL	HVO	HVO Waste-based technologies		
Input	Processes waste materials (no high purity required)	High requirement for Biomass is processed into purity of raw materials fuel		Electricity from wind & solar energy	
End product	Oil of high quality and energy density (usable for many applications)	Oil of high quality, but worse specifications than NEXXOIL	Inferior pyrolysis oil	High quality, but not competitive oil	
Efficiency	High	High	Low	Low	
Process	Simple & easy to control	Logistical problems	Simple	High use of hydrogen / requires electricity from renewable energies	
Production costs*	0,9-1,0€/I	1,1-1,2€/	1,3 - 2,0€/I	1,7 - 2,9€/	



One-off payment & licence model

ONE-OFF SALE

€9,6M / plant

Purchase price: €8M/plant

In our model calculation, plant buyers get back the capital invested within 4-5 years.

LICENSING MODEL

€50 / ton end product

With planned plant size €250,000 license income per year per plant



Growth through inbound & outbound

OUTBOUND

>400 customers in the waste disposal sector (DE)



We start with medium-sized supply & production companies in DE, before we then begin global licensing.

INBOUND



Already order enquiries from potential customers due to activities of Prof. Willner

MULTIPLIERS







Memberships in associations



Negotiations with distribution partner for South East Asia are already in process



Solid foundation for our growth

PARTNERSHIPS

Signed LOI, potential turnover with the contractual partners in the next three years approx. EUR 80m.

READI FOR WASTE OIL AND GREASE

Process development completed

READI FOR SOLID RAW MATERIALS

Developed on a laboratory scale, rapid development possible for various raw materials.

PATENTS

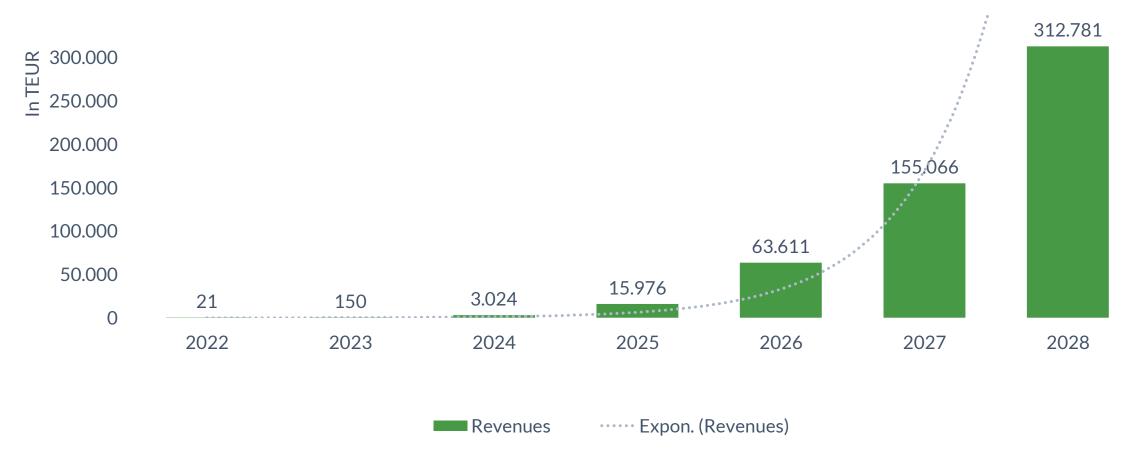
Technology protected by patents in Europe, USA, Canada, Brazil, India, Australia.

"THERE IS CURRENTLY NO COMPARABLE OFFER ON THE MARKET".

Comment from a potential partner



Strong growth after investment phase



No consideration of subsidies. Potential of up to 50% of the commercial demonstration plant. (sh. https://www.pnoconsultants.com/de/foerdermittel/regenerative-kraftstoffe)



Strong growth after investment phase

			2025	2026	2027	2028
		2				
			4	18	30	50
			1	3	8	16
					2	5
			100	1.100	4.850	12.600
20	150	3.024	15.976	63.611	155.086	312.781
	0	-2.520	-13.230	-52.093	-125.197	-250.151
-387	-820	-1.385	-2.139	-3.461	-4.645	-4.877
	9	15	22	34	44	44
-786	-1.140	-1.164	-2.871	4.226	15.014	36.348
	-387	-387 -820 9	20 150 3.024 0 -2.520 -387 -820 -1.385 9 15	100 20 150 3.024 15.976 0 -2.520 -13.230 -387 -820 -1.385 -2.139 9 15 22	4 18 1 3 100 1.100 20 150 3.024 15.976 63.611 0 -2.520 -13.230 -52.093 -387 -820 -1.385 -2.139 -3.461 9 15 22 34	20 150 3.024 15.976 63.611 155.086 30 -2.520 -13.230 -52.093 -125.197 -387 -820 -1.385 -2.139 -3.461 -4.645 9 15 22 34 44



Experienced management team



THORSTEN DUNKER

MD & CEO

>30 years of entrepreneurial experience

20+ GF of BioMedion GmbH

Supervisory Board Lurch AG



GEORG SCHLINGENSIEPEN

MD & CFO

>30 years of entrepreneurial experience

Managing partner of Nexxoil GmbH since 2010









Supported by strong advisors



PROF. DR.-ING. **THOMAS WILLNER**

Co-Founder

Inventor of READi technology

Chairman of Dechema's **Alternative Fuels** CommitteePolicy advisor

Numerous publications: https://nexxoil.com/publication



DR. WOLFGANG BRYSCH

Co-Founder

Serial Entrepreneur & Founder

U. A. in the fields of pharmaceuticals, cosmetics, nutritional supplements

MetrioPharm





HOLGER DUNKER

Investor

CFO of THIMM Packaging Systems, an European leader in packaging solutions.





And a young team with industry experience



PATRICK BIEDINGER

Process Engineer, M.Sc.



STEVEN DOSZ

Process Engineer, B.Sc.



BASSAM HAITHM

Process Engineer, M.Sc.



YASIN INCEDAG

Process Engineer, M.Sc.



SVENJA ISERLOTH

Process Engineer, M.Sc.



ALEXANDER KAMMANN

Project Engineer, MSc



ONUR DEMIRKAYA

Process Engineer, M.Sc.



WOLF LIMBURG

Process Engineer, M.Sc.



We have reached all milestones for 2022





SUCCESSFUL SERIES-A FUNDING



ENLARGEMENT OF THE TEAM

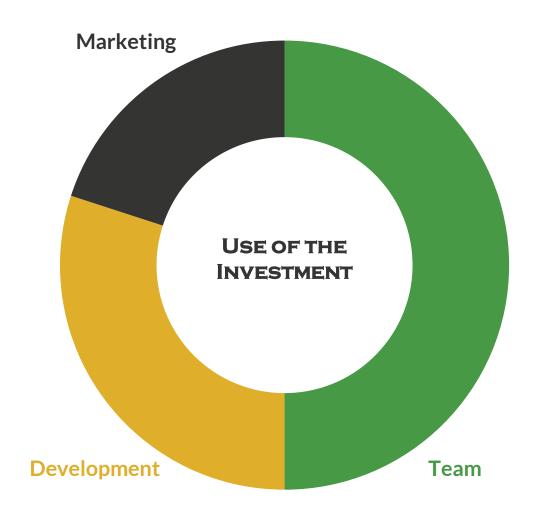


COMPLETION OF THE PILOT PLANT

...AND SUCCESSFUL PRODUCTION OF FIRST SMALL QUANTITIES. NO SURPRISING CHALLENGES SO FAR.



Attractive investment condition Series B



Investment at a €12M premoney valuation

€4M has already been invested in the company by the founders, about €1.6M in Series A. In addition, there is €16M in public funding.



EXIT-SZENARIO

We aim to sell the company to a strategic investor within the next four years. Interested parties e.g. plant manufacturers, large waste disposal companies, mineral oil companies.



Piloting & scaling of the technology

PREPARATION

SERIES

Construction of the commercial demonstration plant with the customer

Supporting the customer in acquiring public grants

Planning of production-ready modules for 2500 t/a

BUILDING COMMERCIAL

DEMO PLANT

Delivery capacity for plants (5000 t/a, 2 modules à 2500 t/a)

Operating demonstration plant

Start marketing Germany/Austria/Switzerland

SCALING

Building several plants (modules of 2.500 t/a)

Construction of a stationary plant (50,000 t/a, 5 modules with 10,000 t/a each)

2023 2024 2025



Let's change fuel technologies together

Thorsten Dunker

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Phone: 0157-38397841

https://nexxoil.com/investoren



Sources & additional material

After concluding a non-disclosure agreement, we will be happy to send you our business plan, providing detailed references to sources for our information. Here is just a small selection:

Greenea Horizon 2030 - Which investments will see the light in the biofuel industry - Greenea

Expansion of the greenhouse gas reduction quota:

https://www.bmu.de/media/beschlossene-anpassungen-der-treibhausgasminderungsquote-thg-quote

Fuel consumption in Germany e.g. at FNR:

https://mediathek.fnr.de/biokraftstoffe-in-deutschland.html

Unresolved problems in the expansion of the electricity grid:

https://www.handelsblatt.com/politik/deutschland/energiewende-stromtrassen-verteilernetze-deutschlands-probleme-beim-netzausbau/20827146.html

Publications Prof. Willner:

https://nexxoil.com/publications



Patent situation

	Thermochemical Biomass conversion	Biorefinery process	Process for the cleavage high molecular weight organic waste	Process for the thermal conversion of heteroatomic crude oils into low heteroatom light and medium oils
International Registration date	22.06.2010	22.06.2010	03.03.2011	19.06.2013
Germany (Prio)	+	0	+	0
Europa	0	0	-	0
USA	+	+	+	-
China	Ŧ	+	Ŧ	+
Canada	+	+	+	+
Brazil	+	+	+	+
India	+	+	+	
Australia	+	+	+	
Israel	+	+	+	