

Current research projects involving collaboration with the fossil industry

Reference date 2 September 2024

What do we mean by fossil industry

The use of products made from fossil resources is woven throughout our society. From the clothes we wear to the buildings we work in, they often incorporate products that originated in fossil fuels. Therefore, to determine whether a research project involves collaboration with the fossil industry, the following delineation was used: "Companies with so-called upstream activities: the exploration and extraction of oil and gas." Collaborations with general chemical and energy companies are not included in this overview.

Only current, ongoing projects are included in this overview. An exception is equipment donations (or money for purchase); those dates relate to the past five years. The condition for collaboration in current projects is that the research focuses on developing knowledge to accelerate the energy transition, phase out fossil fuels as soon as possible and/or avoid further CO₂ emissions.

The overview was prepared with reference date 2 September 2024 and is a snapshot, which will be updated approximately twice per calendar year. For more details, please see [this page](#).

In the overview, we categorize collaborations based on the type of collaboration.

Explanation of types of collaboration agreement

Think Tank

The Sustainable Industry Lab think tank brings together science, business, government and civil society partners to help Dutch industry make the transition to sustainability.

Donation of (funds for) equipment

This involves either a contribution to purchase scientific equipment, or a donation of equipment to conduct research, or providing equipment free of charge for the purpose of experimental research. This involves equipment that is no longer being used by the donating party and is therefore "written off," but is still of value for research at the university.

Consortium

This involves several companies and knowledge institutions conducting joint research. Such a form of collaboration is usually funded by a grant (mainly by NWO, Top Sectors such as ChemistryNL or Energy, and EU grants). The companies involved are often co-financiers of these studies.

Bilateral

This refers to a direct agreement between the university and one company to conduct a specific research project. Usually these are projects funded by the company involved. In one case, the research is co-financed by ChemistryNL.

Letter of Intent

This is a declaration of intent in which parties express the desire for collaboration. This does not yet involve the implementation of a research program or funding.

Indirect consortium

These are collaborations of the NWO DeepNL program. This NWO research program is made possible by a contribution from the Nederlandse Aardolie Maatschappij (NAM), but it does not involve direct collaboration with the fossil industry. The implementation of DeepNL takes place according to regular NWO procedures and quality standards and is completely independent. NAM is not involved in the decision-making or substantive steering of the program.

Research collaborations fossil industry

Think tank

Title: Sustainable Industry Lab (SIL)
Type of collaboration agreement: Think tank
Industry members: Shell, ExxonMobil, BP International, ElementNL
Other partners: ± 40 affiliated parties, see <https://sustainableindustrylab.nl/members>
Public funding body: Dutch Ministry of Economic Affairs and Climate Policy
Duration: Since January 2020
Total research project budget for all partners: € 800.000
Funding industry partner to UU: €0

Donation of (funds for) equipment

Title: Donation agreement - Thermographic system
Type of collaboration agreement: Donation
Industry partner: NAM
Public funding body: N.A.
Total research project budget for all partners: € 80.677
Funding industry partner to UU: € 80.677

Title: Donation Sanchez triaxial machine
Type of collaboration agreement: Donation of equipment
Industry partner: Shell Global Solutions
Public funding body: N.A.
Total research project budget for all partners: €0
Funding industry partner to UU: €0

Consortium

Title: LOSS
Type of collaboration agreement: Consortium
Industry partners: NAM
Other partners: ± 18 partners in total, see <https://nwa-loss.nl/en/consortium/partners/>
Public funding body: NWO (ORC programme)
Duration: Feb 2020 – March 2027
Total research project budget for all partners: € 4.624.480
Funding industry partner to UU: €0

Title: Return-ACT
Type of collaboration agreement: Consortium
Industry partners: Shell, EBN, BP International, Neptune Energy, ENI, Lundin, Harbour Energy, Equinor, Wintershall
Other partners: ± 18 partners in total, see <https://return-act.eu/consortium>
Public funding body: Accelerating CCS Technologies (ACT)
Duration: Dec 2021 – July 2025 (extended with 4 months because of delays related to the corona pandemic)
Total research project budget for all partners: € 7.400.000
Funding industry partner to UU: € 110.000

Title: Improving reservoir property prediction and producing a database of Dutch geothermal plays
Type of collaboration agreement: Consortium
Industry partner: EBN
Other partners: 6 partners in total, see <https://projecten.topsectorenergie.nl/projecten/improving-reservoir-property-prediction-and-producing-a-database-of-dutch-geothermal-plays-36866>
Public funding body: TKI Energie
Duration: Sept 2021 – Dec 2025
Total research project budget for all partners: € 495.298
Funding industry partner to UU: €0

Title: SUNER-C
Type of collaboration agreement: Consortium
Industry partner: TotalEnergies, Engie
Other partners: ± 26 partners in total, see cordis.europa.eu/project/id/101058481
Public funding body: EU
Duration: June 2022 – May 2025
Total research project budget for all partners: € 4.026.403,75
Funding industry partner to UU: €0

Title: ARC-CBBC
Type of collaboration agreement: Consortium
Industry partner: Shell
Other partners: ± 10 partners in total, see <https://arc-cbbc.nl/founding-partners>
Public funding body: NWO, Ministry of Economic Affairs and Climate Policy (EZK), ChemistryNL
Duration: May 2016 – May 2026
Total research project budget for all partners and Funding industry partner to UU: We are consulting with our partners to make this information public. These budgets have been included in the total sums that were used for the [visualisations](#).

Title: BatteryNL
Type of collaboration agreement: Consortium
Industry partner: Shell
Other partners: ± 36 partners in total, see <https://www.batterynl.nl/consortium/>
Public funding body: NWO
Duration: Sept 2022 – Sept 2030
Total research project budget for all partners: € 9.686.201
Funding industry partner to UU: € 25.657

Title: RELEASE
Type of collaboration agreement: Consortium
Industry partner: Shell
Other partners: ± 38 partners in total, see <https://nwo-release.nl/consortium>
Public funding body: NWO
Duration: Sept 2020 – Sept 2026
Total research project budget for all partners: € 10.226.127
Funding industry partner to UU: € 39.109

Title: CATlight
Type of collaboration agreement: Consortium
Industry partners: Shell, ExxonMobil
Other partners: BASF, Toyota, DENSSolutions, CL solutions
Public funding body: NWO
Duration: to be decided
Total research project budget for all partners: € 1.631.887
Funding industry partner to UU: € 41.363

Title: Groeifondsproject GroenvermogenNL and GroenvermogenII
Type of collaboration agreement: Consortium
Industry members: Shell, BP
Other partners: ± 35 partners in total, see <https://www.nationaalgroeifonds.nl/overzicht-lopende-projecten/thema-energie-en-duurzame-ontwikkeling/groenvermogen-ii>
Public funding body: Ministerie van Economische Zaken en Klimaat
Duration: 8 - 10 years
Total research project budget for all partners: still under development, € 73 million allocated so far
Funding industry partner to UU: €0

Title: Virtual Human Platform for Safety Assessment (VHP4Safety)
Type of collaboration agreement: Consortium
Industry partners: Shell
Other partners: ± 33 partners in total, see <https://www.nwo.nl/en/cases/virtual-human-platform-will-eventually-render-animal-experiments-obsolete>
Public funding body: NWO
Duration: June 2021 – May 2026
Total research project budget for all partners: € 10.500.000
Funding industry partner to UU: € 0

Title: WadSED
Type of collaboration agreement: Consortium
Industry partners: NAM
Other partners: ± 22 partners in total, see <https://www.nwo.nl/en/researchprogrammes/perspectief/perspectief-grants/wadsed-wadden-sea-and-estuaries-system-dynamics-and-sediment-management-under-climate-change>
Public funding body: NWO
Duration: June 2023 – June 2029
Total research project budget for all partners: € 2.925.750
Funding industry partner to UU: € 0

Title: WarmingUP GOO (follow up on WarmingUP consortium)
Type of collaboration agreement: Consortium
Industry partners: Shell Geothermal
Other partners: 14, see <https://projecten.topsectorenergie.nl/projecten/warmingup-geothermie-en-opslag-opshaling-37622>
Public funding body: RVO
Duration: March 2023 – Feb 2027
Total research project budget for all partners: €5.441.101
Funding industry partner to UU: € 0

Title: AquaConnect
Type of collaboration agreement: Consortium
Industry partners: Shell
Other partners: ± 47 partners in total, <https://www.aquaconnect.nu/aquaconnect-consortium/>
Public funding body: NWO
Duration: July 2021 – June 2025
Total research project budget for all partners: €5.141.647
Funding industry partner to UU: € 0

Bilateral

A total of five research projects fall under the category 'Bilateral', which are so-called bilateral contracts. This concerns two research projects with TotalEnergies, one with Concawe consortium, one with BP and one with Shell. The total amount that actually ends up at UU through these four bilateral contracts and is directly funded by the industry partners is € 3.778.250.

Title: Processing of bio-derived and renewable feedstocks
Type of collaboration agreement: Bilateral
Industry partner: B.P. International Limited
Duration: 2023 - 2028
Total budget range: € 1.500.000 – 1.750.000
Funding industry partner to UU: € 1.500.000 – 1.750.000

Title: Evolution of the mechanical and transport properties of rock salt under simulated cavern wall conditions during cyclical hydrogen storage
Type of collaboration agreement: Bilateral
Industry partner: Shell Global Solutions
Duration: October 2022 – September 2025
Total budget: € 478.000
Funding industry partner to UU: € 478.000

Title: Sustainable biomass feedstock supply chains for advanced biofuels
Type of collaboration agreement: Bilateral
Industry partner: Concawe
Duration: Until 31-12-2024
Total budget: € 306.610
Funding industry partner to UU: € 146.125

Title: Renewable fuel production
Type of collaboration: Bilateral Collaboration
Industry partner: TotalEnergies OneTech Belgium SA
Duration: 2024 - 2029
Total budget: € 1.200.000
Funding industry partner to UU: € 1.200.000

Title: Hydrogenolysis of Polyolefins over (Post-) Metallocene-based Catalysts
Type of collaboration: Bilateral Collaboration
Industry partner: TotalEnergies OneTech Belgium SA
Duration: 2024 - 2026
Total budget: € 363.000
Funding industry partner to UU: € 363.000

Letter of intent

Titel / Title: ETCA
Type of collaboration agreement: Letter of intent
Industry partner: Shell
Other partners: ± 24 partners in total, see <https://www.energytransitioncampus.com/why-join-us.html>
Duration: - (no collaboration as of yet)
Total research project budget for all partners: €0 (no collaboration as of yet)
Funding industry partner to UU: €0

Indirect consortium

Title: DeepNL (12 [subprojects](#))
Type of collaboration agreement: Indirect consortium
Public funding body: NWO
Duration: variable per sub-project, longest running project runs until April 2026
Total research project budget for all partners: € 5.045.813
Funding industry partner to UU: €0