

Softwire 2022 Removal statement

This is to confirm that Softwire has fully removed its measured footprint with durable carbon removal offsets.



Michelle You, Co-founder and CEO



812

Total tonnes CO₂ removed*

* based on Softwire's calculations

Removal

Softwire purchased offsets equivalent to removing and storing 812 tonnes CO₂e: 540 tonnes through biochar, 192 tonnes through enhanced weathering, 7 tonnes through bio-oil, 8 tonnes through direct air capture with ocean storage, and 65 tonnes through woody biomass sinking. An additional 207 tonnes of afforestation were purchased to bridge the enhanced weathering, direct air capture with ocean storage and bio-oil removals. These are certified medium and high-durability carbon removal methods.

Emissions period for removals

01/01/2022 - 31/12/2022

Biochar (540 tonnes)

Delivery partners: Wakefield, Douglas County & Freres

Offset date: 01/05/2022 - 31/07/2022

Retirement IDs & registry links:

64.3002406801000010000000047234 -
64.3002406801000010000000047280
<https://grex.grexel.com/pu-FI/public/cancellationstatement/f84787ff-22eb-4488-913b-e1ecf4a3fc2b>

64.3002406555908610000000140801 -
64.3002406555908610000000140892
<https://grex.grexel.com/pu-FI/public/cancellationstatement/6.8d9b762-586b-4580-9ced-b12919472aag>

64.3002406555908610000000208501 -
64.3002406555908610000000208795

64.3002406555908610000000210751 -
64.3002406555908610000000210771

64.3002406555908610000000261302 -
64.3002406555908610000000261311

64.3002406555908610000000260173 -
64.3002406555908610000000260247
<https://grex.grexel.com/pu-FI/public/cancellationstatement/del96ed1-3ac5-4bfl-b801-3b5c72a9c8d3>

Afforestation (207 tonnes)

Delivery partners: TIST

Offset date: by 31/12/2022

Enhanced weathering (192 tonnes)

Delivery partner: UNDO

Offset date: from 2024 - 2044

Bio-oil (7 tonnes)

Delivery partner: Charm Industrial

Offset date: by 31/12/2028

Direct air capture with ocean storage (8 tonnes)

Delivery partner: Equatic

Offset date: Estimated from 2026

Woody biomass sinking (65 tonnes)

Delivery partner: Rewind

Offset date: by 31/12/2024

Details on providers

Freres is a family owned and operated lumber producer based in the US. Their feedstock is composed of forestry residues from their own operations, agricultural waste and waste wood.

Wakefield is an American company that uses the FSC-certified pine bark waste from paper mills to form biochar. They supply local farmers with the biochar they produce at a discounted rate for use on their crops and land remediation. Wakefield also add biochar to their soil mix which they sell commercially.

Douglas County is an independently owned sawmill in Oregon. All of the timber processed by Douglas County are originally cut by third parties or subcontractors, typically sourced within a 60 mile radius of the sawmill. 70-75% of supplied material is FSC or SFI certified, with the remainder coming from government operated sources (with even stricter regulations) and small volume harvesters. Each log that goes through the mill is fully utilised, including the production of biochar as a by-product of their biomass-fired fuel production. The boiler is primarily fed bark from the company's own lumber operations and additional biomass waste is sourced from the local region.

The International Small Group and Tree Planting Programme (TIST) is led by small groups of subsistence farmers in countries such as Tanzania, Kenya, Uganda and India. Planting is managed by the farmers who plant native species on marginal land, ensuring there are no conflicting land uses (such as food production) at the planting sites.

UNDO is a leader in enhanced rock weathering (ERW). Enhanced weathering speeds up naturally occurring weathering of minerals by reducing the particle size of the rock, which is usually basalt. This increases surface area, which speeds up the reaction and thus the rate of carbon dioxide removal. The basalt dust has a consistency like sand or fine gravel. It is spread on agricultural land using farm machinery. Over time, the basalt reacts with atmospheric CO₂ to form minerals which wash into the soil and water courses. These minerals have high durability.

Based in the US, **Charm Industrial** uses plants to capture CO₂ from the atmosphere. They then convert biomass to bio-oil via fast pyrolysis, prepare the bio-oil for injection, transport it to an injection well, and inject it deep underground.

Equatic uses a process called electrochemical ocean alkalinity enhancement to convert atmospheric CO₂ into two forms: carbonate rocks (which can be used in construction) and dissolved bicarbonate ions that are durably stored in the ocean. Equatic's approach is unique because it does this onshore in a closed system, making it easier to measure carbon removal.

Rewind sequesters carbon by sinking waste biomass from agriculture and forestry in the anoxic layer (2 km deep) of the Black Sea, where the biomass does not decompose due to the absence of oxygen.

Retirement Statement

With this retirement statement the CO2 Removal Certificates (CORC) are retired and cancelled for the use by the beneficiary. These CORCs are no longer tradable and onward sale of the indicated certificate numbers is prohibited.



Transaction details		From account		Beneficiary	
Transaction type Cancellation	Status Completed	Organization name Supercritical Tech Ltd	Organization ID 86XY16WC3M	Name of Beneficiary Softwire Technology Limited	Country of consumption United Kingdom
Transaction number 20230103000000067	Volume 47	Domain Puro Registry	Domain code PURO	Organization ID 86XY16WC3M	Location of beneficiary United Kingdom
Transaction started 03/01/2023, 15.14	Transaction completed	Account number 643002406800002157		Consumption period 01/01/2022 - 31/12/2022	Usage type GENERIC_COMPENSATION
Public Statement https://grex.grexel.com/pu-fi/public/cancellationstatement/f84787ff-22eb-4488-913b-e1ecf4a3fc2b	Standard PURO	Street 71-75 Shelton Street	ZIP code WC2H 9JQ	Retirement purpose 47 tonnes of carbon dioxide removal retired by Supercritical on behalf of Softwire Technology Limited as part of a portfolio to offset their 2022 emissions.	Type of beneficiary End consumer
		City London	Country Finland		

Certificate Number (From-To)	Volume	Production period	Issuing date	Issuing country	Issuing body	Types of credit	Earmark	Facility name and GSRN	CO2 removal method code and name	Type of mitigation outcome code and name
64300240680100001000000004723 - 4	47	01/05/2021 - 30/09/2021	31/10/2022	FI	Puro Standard and Registry	CORC_100	No support	Wakefield Biochar Facility 2 - 643002406801000718	C03000000 - Biochar	X010000 - Carbon Removal

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Transaction details		From account		Beneficiary	
Transaction type Cancellation	Status Completed	Organization name Supercritical Tech Ltd	Organization ID 86XY16WC3M	Name of Beneficiary Softwire Technology Limited	Country of consumption United Kingdom
Transaction number 20230103000000065	Volume 92	Domain Puro Registry	Domain code PURO	Organization ID 86XY16WC3M	Location of beneficiary United Kingdom
Transaction started 03/01/2023, 15.09	Transaction completed	Account number 643002406800002157		Consumption period 01/01/2022 - 31/12/2022	Usage type GENERIC_COMPENSATION
Public Statement https://grex.grexel.com/pu-fi/public/cancellationstatement/643002406559086100000014089-b12919472aae	Standard PURO	Street 71-75 Shelton Street	ZIP code WC2H 9JQ	Retirement purpose 92 tonnes of carbon dioxide removal retired by Supercritical on behalf of Softwire Technology Limited as part of a portfolio to offset their 2022 emissions.	Type of beneficiary End consumer
		City London	Country Finland		

Certificate Number (From-To)	Volume	Production period	Issuing date	Issuing country	Issuing body	Types of credit	Earmark	Facility name and GSRN	CO2 removal method code and name	Type of mitigation outcome code and name
643002406559086100000014080 - 643002406559086100000014089	92	01/03/2022 - 31/03/2022	21/04/2022	FI	Puro Standard and Registry	CORC	No support	Freres Lumber Co., Inc. - 643002406801000237	C03000000 - Biochar	X010000 - Carbon Removal

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Transaction details		From account		Beneficiary	
Transaction type Cancellation	Status Completed	Organization name Supercritical Tech Ltd	Organization ID 86XY16WC3M	Name of Beneficiary Softwire Technology Limited	Country of consumption United Kingdom
Transaction number 20230103000000066	Volume 401	Domain Puro Registry	Domain code PURO	Organization ID 86XY16WC3M	Location of beneficiary United Kingdom
Transaction started 03/01/2023, 15.13	Transaction completed	Account number 643002406800002157		Consumption period 01/01/2022 - 31/12/2022	Usage type GENERIC_COMPENSATION
Public Statement https://grex.grexel.com/ptu-FI/public/cancellationstatement/de196ed1-3ac5-4bf1-b801-3b5c72a9c8d3	Standard PURO	Street 71-75 Shelton Street	ZIP code WC2H 9JQ	Retirement purpose 401 tonnes of carbon dioxide removal retired by Supercritical on behalf of Softwire Technology Limited as part of a portfolio to offset their 2022 emissions.	Type of beneficiary End consumer
		City London	Country Finland		

Certificate Number (From-To)	Volume	Production period	Issuing date	Issuing country	Issuing body	Types of credit	Earmark	Facility name and GSRN	CO2 removal method code and name	Type of mitigation outcome code and name
6430024065559086100000020850 - 6430024065559086100000020879	295	01/01/2022 - 30/04/2022	12/05/2022	FI	Puro Standard and Registry	CORC	No support	Douglas County Forest Products - 643002406801000480	C03000000 - Biochar	X010000 - Carbon Removal
6430024065559086100000021075 - 6430024065559086100000021077	21	01/05/2022 - 31/05/2022	15/06/2022	FI	Puro Standard and Registry	CORC	No support	Douglas County Forest Products - 643002406801000480	C03000000 - Biochar	X010000 - Carbon Removal

Certificate Number (From-To)	Volume	Production period	Issuing date	Issuing countr	Issuing body	Types of credit	Earmark	Facility name and GSRN	CO2 removal method code and name	Type of mitigation outcome code and name
64300240655590861000000261302 - 64300240655590861000000261311	10	01/07/2022 - 31/07/2022	23/08/2022	FI	Puro Standard and Registry	CORC	No support	Douglas County Forest Products - 643002406801000480	C03000000 - Biochar	X010000 - Carbon Removal
64300240655590861000000260173 - 64300240655590861000000260247	75	01/06/2022 - 30/06/2022	08/07/2022	FI	Puro Standard and Registry	CORC	No support	Douglas County Forest Products - 643002406801000480	C03000000 - Biochar	X010000 - Carbon Removal