

2023 Progress Report

Climate Transition Plan



Aligning with the
1.5°C trajectory



IMERYS



Contents

[Welcome >](#)

[At a glance >](#)

[Achieving our climate change commitments >](#)

[Approach and roadmap >](#)

[2030 GHG emissions reduction commitments >](#)

[Decarbonization levers >](#)

[Governance and funding >](#)

[Our progress to date >](#)

[Understanding our historical emissions >](#)

[Tracking our progress: scope 1 and 2 >](#)

[Our scope 1 and 2 decarbonization levers in action >](#)

[Tracking our progress: scope 3 >](#)

[Our scope 3 decarbonization levers in action >](#)

[Supporting the transition to a low-carbon economy >](#)

[Assessing the sustainability of our product portfolio >](#)

[Solutions for the energy transition >](#)

[Supporting sustainable construction >](#)

[Reducing the GHG footprint of consumer goods >](#)

Welcome

Welcome to Imerys' 2023 climate change transition report, designed to update our shareholders, customers, employees and other stakeholders on the key elements of our climate change strategy and highlight the progress we are making towards achieving our objectives.

As the world's leading supplier of specialty mineral and advanced material solutions, Imerys contributes to a vast range of products that touch every aspect of daily life. A wide variety of industries use our high value-added functional products, ranging from process manufacturing to consumer goods.

Our overriding purpose is to unlock better futures for our people, our customers and our planet. In striving to unlock the sustainable

potential of minerals, we are committed to operating in a responsible manner, respecting natural ecosystems, and ensuring that our solutions benefit our stakeholders and society over the long term.

Responding to the risks and opportunities created by climate change is essential to achieving our purpose. This includes the ways in which we are decarbonizing our operations and value chain, and adapting our product portfolio to support the transition to a low-carbon economy, which are the main focus of this report.

Leah Wilson,
Chief Sustainability Officer



“Our overriding purpose is to unlock better futures for our people, our customers and our planet.”

Imerys climate change transition - at a glance

Commitment

-42%

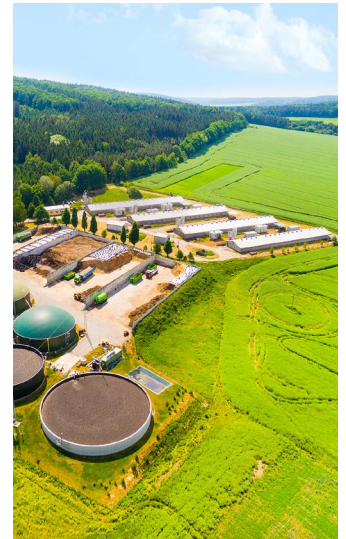
scope 1 and 2 GHG* emissions reduction by 2030 from our 2021 base year

-25%

scope 3 GHG emissions reduction by 2030 from our 2021 base year

€20-25M

per year to be invested up to 2030



Decarbonizing our operations and value chain via 7 primary levers

Energy efficiency and recovery

Fuel switching and biomass

Low-carbon and renewable electricity

Electrification

Process innovation

Managing our product portfolio

Working with suppliers

Adapting our product portfolio to a low-carbon economy by...

Developing solutions for the energy transition

Supporting sustainable construction

Reducing the carbon footprint of consumer goods

Achievement

-24%

scope 1 and 2 GHG emissions reduction in 2023 compared to 2021 base year

-6%

scope 3 GHG emissions reduction in 2022 compared to 2021 base year

€50M

invested since 2021



*GHG = Greenhouse Gases

ACHIEVING OUR CLIMATE CHANGE COMMITMENTS

The climate crisis poses an urgent and irreversible systemic threat to our planet, with almost unimaginable environmental and social consequences. This calls for global action towards a low-carbon economy in line with the internationally agreed acceptable limits of global warming, as set out in the [Paris Agreement](#).



[Approach and roadmap >](#)

[2030 GHG emissions reduction commitments >](#)

[Decarbonization levers >](#)

[Governance and funding >](#)

Imerys is committed to action in response to climate change. This means reducing our greenhouse gas (GHG) emissions in line with a 1.5°C trajectory certified by the Science-Based Targets initiative (SBTi) and developing solutions that support the transition to a low-carbon economy.

Our climate change roadmap is aligned with the commitments of the Paris Agreement, and includes transparent objectives and concrete actions to significantly reduce the GHG emissions of our operations, our value chain and our products.

Approach and roadmap

A systematic approach

To help Imerys achieve its purpose, we have implemented an ambitious, innovative and systematic Group-wide program, called **SustainAgility**. Aligned with the United Nations' Global Compact Principles and contributing specifically to nine of the UN Sustainable Development Goals (SDGs), SustainAgility is a robust framework focused on empowering our people, growing with our customers, and caring for our planet.

Addressing climate change is a key pillar of SustainAgility. This means that it permeates all aspects of our business, from the energy we buy and the processes we use, to the way we manage our supply chain and the products we provide to our customers.

SustainAgility: vision and ambition

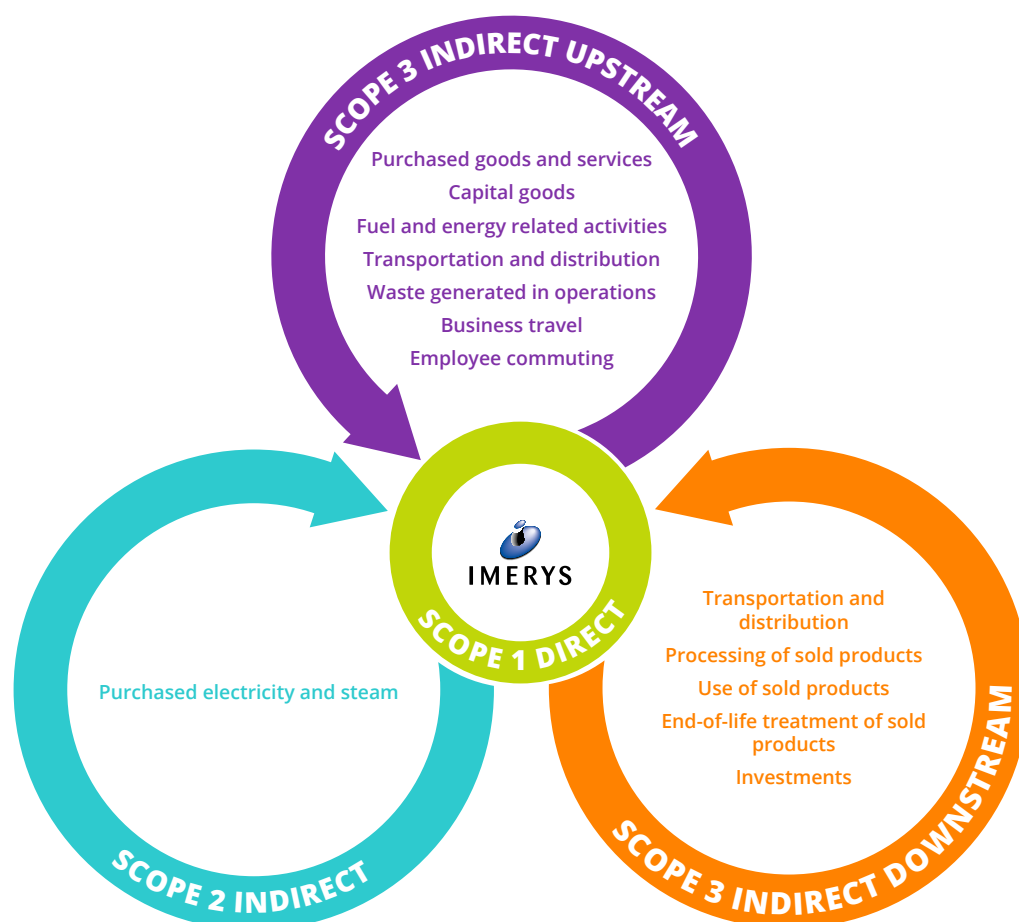


Our climate change strategy is underpinned by a rigorous assessment of the climate-related risks and opportunities facing our business. Imerys faces both physical risks related to climate change and risks and opportunities related to the transition to a low-carbon economy. These risks may impact the Group financially and operationally and require us to both mitigate those risks and adapt how we operate. We will be publishing further information on how we are adapting our operations in forthcoming reports.

Developing our climate change roadmap

Imerys' journey to identify, map, assess and quantify GHG emissions began in the 2000s. We started monitoring our scope 1 and 2 emissions in 2007 and set our first emissions reduction target in 2018, which was validated by the SBTi in 2019. Since then, we have been continually improving our reporting and now have robust scope 1 and 2 monitoring in place.

We started scope 3 monitoring in 2018, focusing initially on estimated GHG emissions from purchasing and transportation. In 2021 we improved the ways in which we quantify scope 3 emissions, and in 2023 we extended this to downstream emissions from processing, use and end-of-life of sold products – and also set our first scope 3 emissions reduction target. As a result, our progress on implementing plans to reduce scope 3 emissions is less advanced compared to scope 1 and 2.



Our scope 1, 2 and 3 emissions explained

Scope 1 emissions: direct emissions from the combustion of fuels to produce thermal energy and from the chemical reactions of certain processes at Imerys production sites.

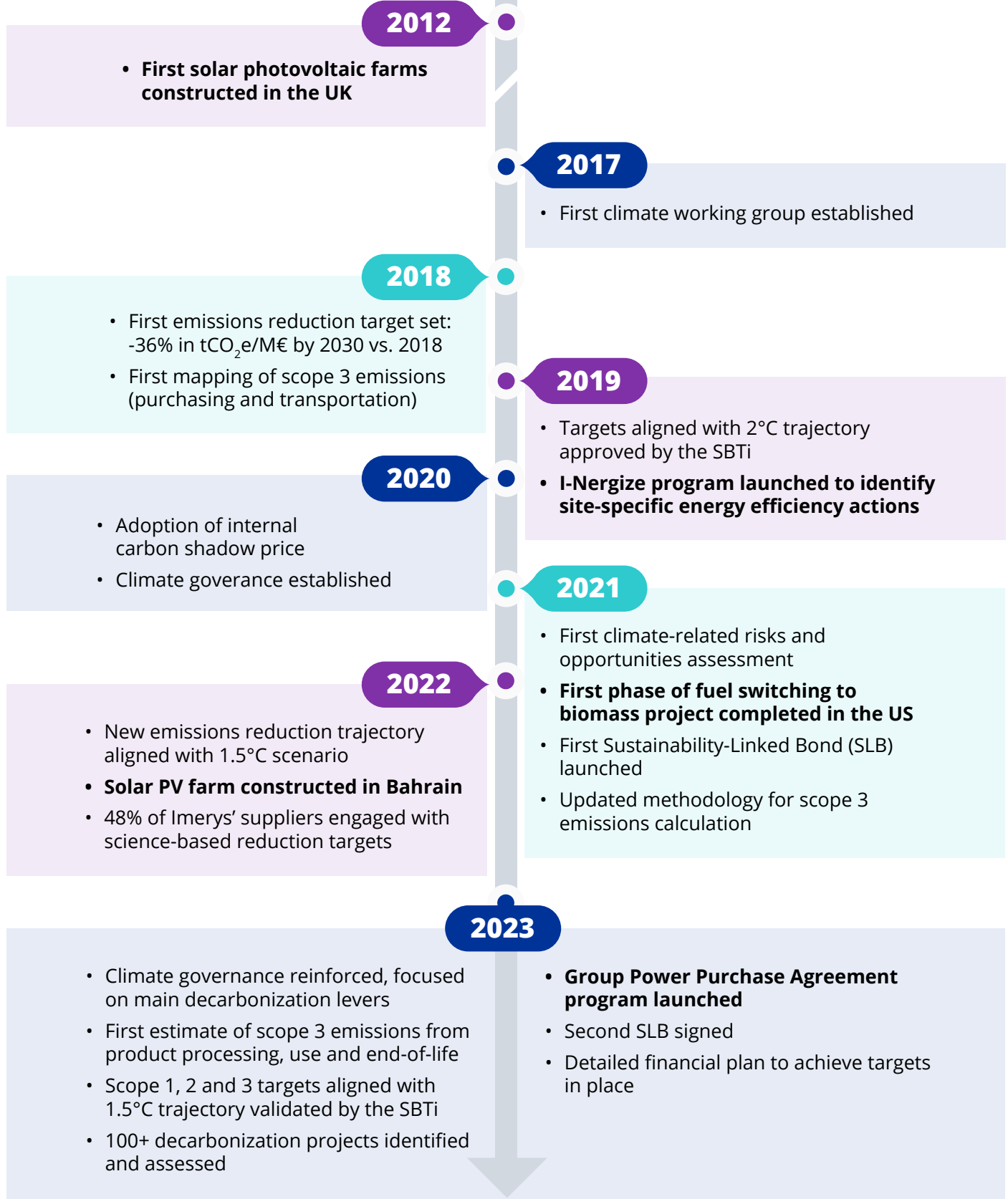
Scope 2 emissions: indirect emissions from our consumption of purchased electricity and steam.

Upstream Scope 3 emissions: any GHG emissions from purchased goods and services, capital goods, fuel and energy related activities, upstream transportation, waste generated in operations, business travel, and employee commuting.

Downstream Scope 3 emissions: any GHG emissions from downstream transportation and distribution, downstream processing, use and end-of-life of sold products, and investments.

Imerys' climate change journey

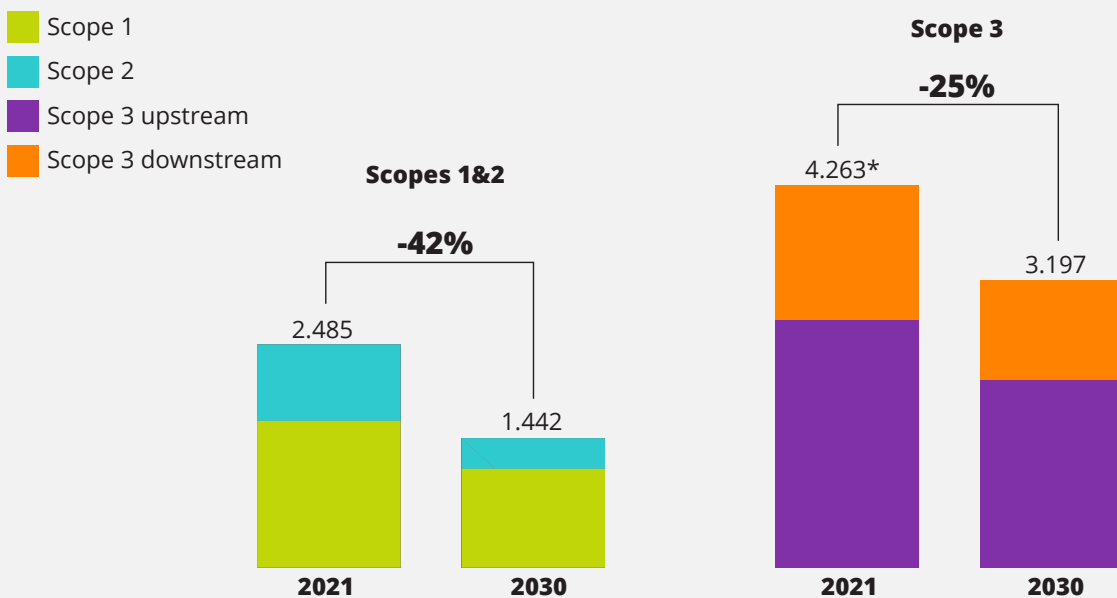
Mitigation action in place (bold)



2030 GHG emissions reduction commitments

We are committed to reducing absolute scope 1 and 2 GHG emissions by 42% by 2030, from our 2021 base year. We are also committed to reducing absolute scope 3 GHG emissions by 25%* within the same time frame. In order to accurately track progress towards our GHG targets, we may recalculate in good faith our base year emissions inventory in case of a recalculation event driving a significant increase or decrease in GHG emissions.

Reducing our emissions in line with the 1.5°C trajectory: 2021 base year vs 2030 target (MtCO₂e)



*Categories included in target



These near-term targets are in line with the most ambitious climate science scenario to limit the mean global temperature rise to 1.5°C, and have been validated by the SBTi.

The [Science Based Targets initiative](#) (SBTi) is a corporate climate action organization that enables companies and financial institutions worldwide to play their part in combating the climate crisis, by developing standards, tools and guidance to set GHG emissions reductions targets in line with what is needed to keep global warming below catastrophic levels and reach net-zero by 2050 at the latest.

*This covers the following GHG Protocol categories: purchased goods and services, capital goods, fuel and energy related activities, upstream and downstream transportation and distribution, waste generated in operations, business travel, employee commuting, and investments.

Decarbonization levers

Reducing our scope 1 and 2 emissions

We have identified six key levers to help us decarbonize our operations to reduce our scope 1 and 2 emissions and meet our 2030 targets.



Energy efficiency and recovery

In 2019 we launched an energy program, called I-Nergize, to evaluate our sites' energy performance and improve energy efficiency, with site-specific action plans, including energy recovery. This program is currently focused on our top 68 energy-consuming sites, which represent 82% of the Group's energy consumption and 80% of our GHG emissions.



Electrification

We have initiated opportunity studies to identify feasible technologies to enable us to electrify plant equipment.



Process innovation

A dedicated process innovation team within the Group's science and technology organization is conducting process technology research, laboratory testing and pilot studies to develop solutions to reduce our process-related emissions.



Fuel switching and biomass

We have launched a comprehensive program to identify, assess and implement projects to switch fossil fuels to natural gas and biomass waste.



Managing our product portfolio

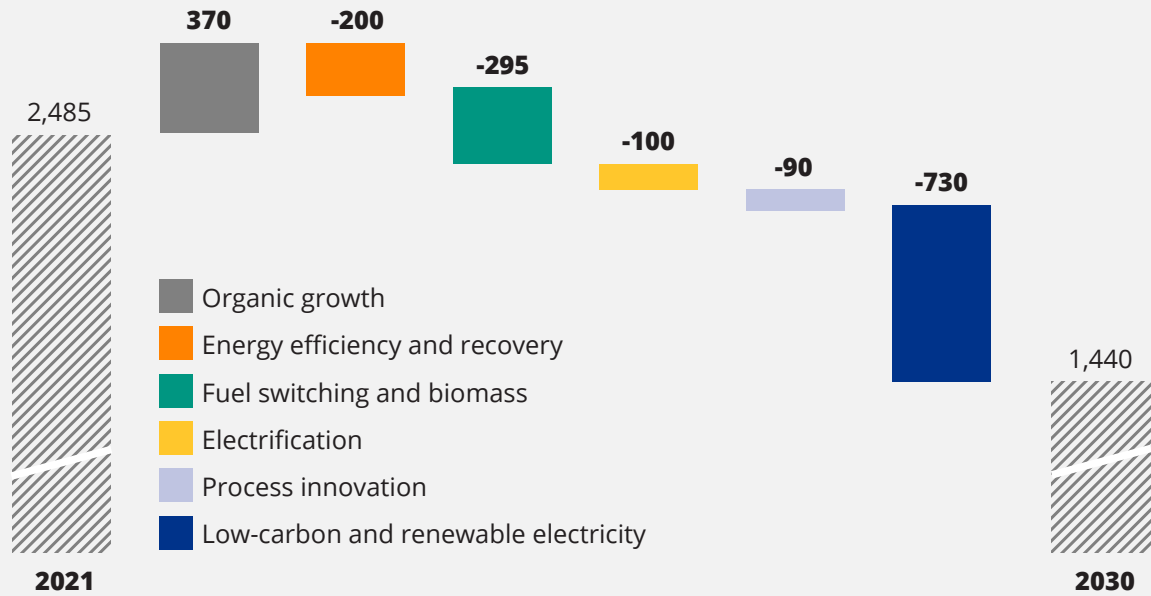
We are currently estimating the GHG emissions associated with producing the main product families in our portfolio. This will help us steer production towards a low-carbon portfolio, identify raw materials that will have a lower impact in operations, and manage our growth while reducing emissions. We are also using this transversal lever to reduce our scope 3 emissions (see [p12](#)).



Low-carbon and renewable electricity

We have launched a Group-wide program to increase the sourcing of low-carbon and renewable electricity.

How our key levers will reduce our scope 1 and 2 GHG emissions by 42% by 2030 (ktCO₂e)

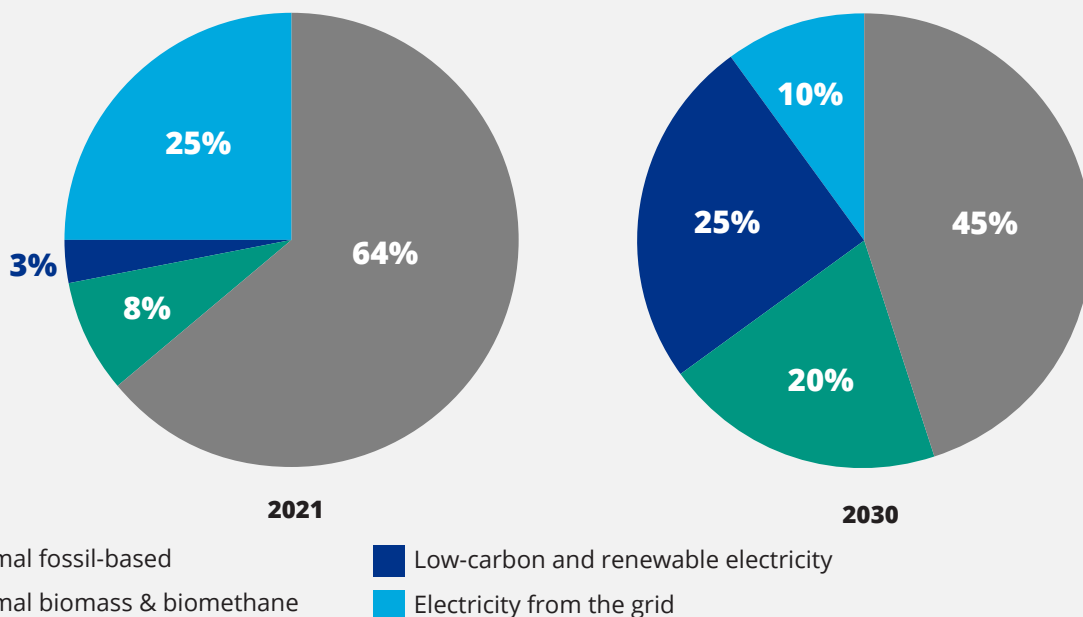


These are estimate figures that may evolve over time.

The diagram above shows that as we adapt and grow our business to support the transition to a low-carbon economy we will, inevitably, continue to generate emissions. We have incorporated these expected future emissions into our decarbonization trajectory; they will be more than counterbalanced by our primary decarbonization levers explained above.

As our transition plan progresses, fossil-based thermal energy will decrease significantly and biomass and low-carbon electricity will increasingly have a higher share of our energy consumption. In addition, as we get closer to 2030, electricity emissions should be significantly lower.

Projected evolution of Imerys' energy mix, 2021 vs 2030



Reducing our scope 3 emissions

We have identified three key decarbonization levers to help reduce our scope 3 emissions across our value chain and meet our 2030 target.



Working with suppliers

We have a comprehensive program in place to select and engage with our suppliers to help them commit to science-based targets (SBTs) and to develop decarbonization roadmaps for the products that we purchase from them.

This includes integrating GHG emissions into our purchasing decisions and asking our suppliers to provide product carbon footprint information, as well as implementing low-carbon transport policies, such as switching from road to barge transportation.

We are also working in partnership with suppliers, local communities and other companies in our industry to explore new, lower-carbon technologies.



Managing our product portfolio

As well as managing the transition to a low-carbon product portfolio, we are changing the specifications of many of our existing products so that we use more local and bio-based raw materials, and more second-hand or recycled materials from the circular economy. This lever is also helping to reduce our scope 1 and 2 emissions, as highlighted on p10.



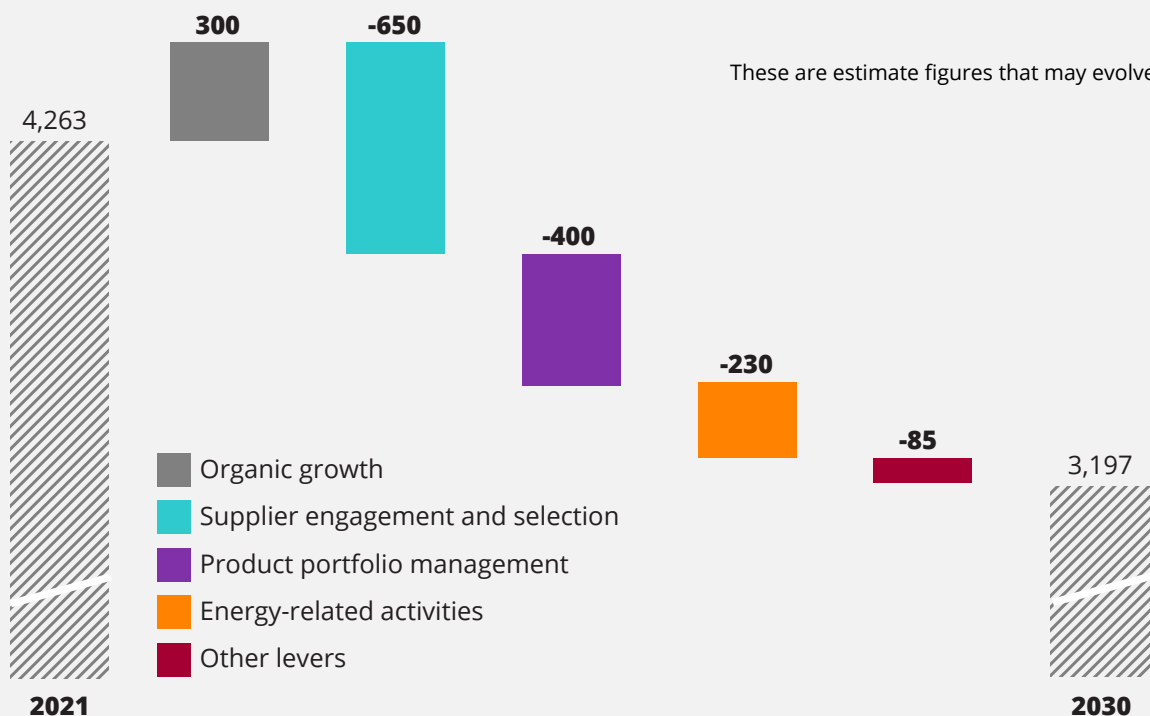
Energy-related activities

We expect scope 3 emissions from fuel and energy-related activities to decrease due to our energy-related decarbonization projects, such as using organic waste when sourcing bioenergy, and ensuring that the carbon-intensity of its pre-treatment and transportation is as low as possible.



We will achieve additional reductions in scope 3 emissions at the Group level by reducing waste, business travel and employee commuting.

How our decarbonization levers will reduce our scope 3 GHG emissions by 25% by 2030 (ktCO₂e)



Governance and funding

Ensuring effective governance

Our Board of Directors plays a strategic role in defining and validating the Group's climate change commitments and reviewing our trajectory.

The Board's Strategy and Sustainability Committee is mandated to assess and provide recommendations on the Group's climate change strategy. Our Audit Committee scrutinizes sustainability-related information, including climate impacts, risks and opportunities. The Board has appointed one of its independent directors as ESG Referent Director to assist the Board and its Committees in ensuring that climate-related risks and opportunities are integrated into our business strategy.

Our climate change objectives and progress towards them are overseen by a Sustainability Committee, chaired by the Group CEO.

We deliver on our climate change commitments through a dedicated organization, with defined roles and responsibilities, a solid management system, time-bound action-plans, performance

monitoring indicators, audit procedures and a continuous improvement program, as part of our SustainAgility framework.

This organization is made up of representatives from different parts of the business, including Sustainability, Operations, Purchasing, Strategy, Finance, IT and Science & Technology.

Each of our key decarbonization levers has a dedicated working group to assess the feasibility of the available technology and identify pilot sites. Each workstream is led by an expert in that specific field. The workstream leaders report to our Climate Change Steering Committee, which is responsible for reviewing and approving the proposed decarbonization projects based on financial, technical and sustainability criteria.

Imerys' commitment to reducing GHG emissions is also embodied in our Corporate Environmental Charter alongside our other environmental commitments. Every Imerys site is required to pursue its own environmental objectives and implement local action plans in line with the Charter.



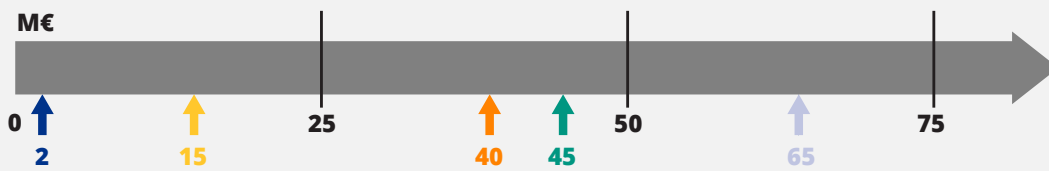
Imerys' climate change governance framework

Funding our transition

Group investment

To help achieve our scope 1 and 2 decarbonization targets, the Group has invested **€50M** in energy efficiency and fuel switching projects since 2021. In line with our climate change roadmap, we plan to invest **€20-25M per year** in our scope 1 and 2 decarbonization projects for the 2024-2030 period. We are in the process of estimating the required investments and potential Opex impact for scope 3 projects and all post-2030 decarbonization projects.

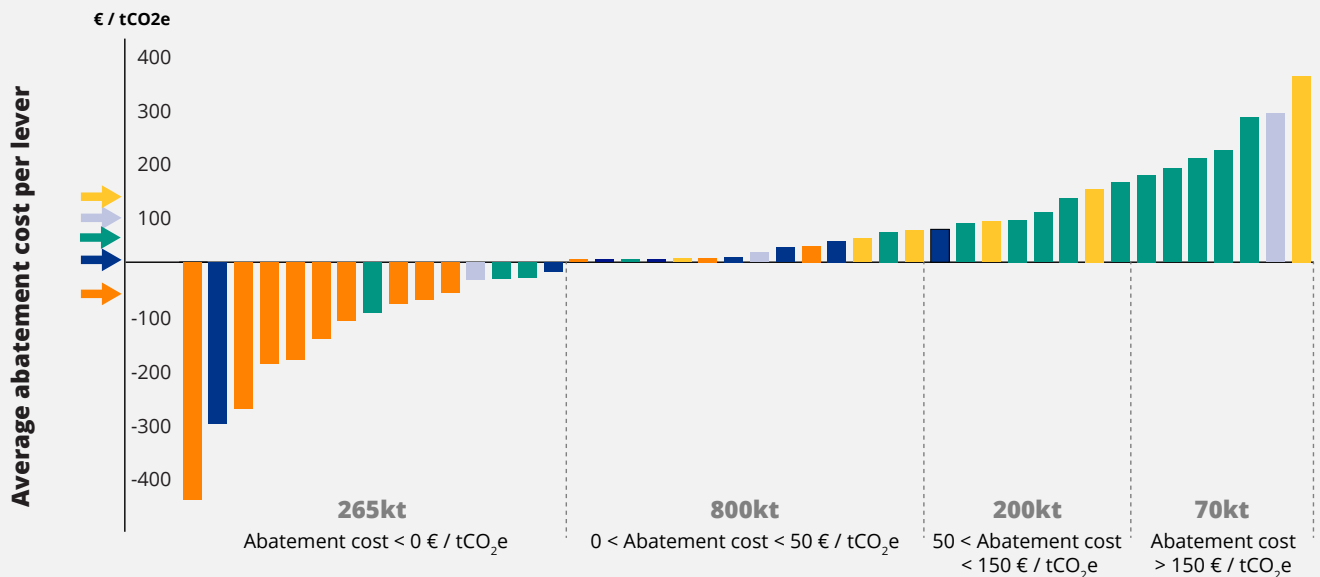
Total Capex required between 2023 and 2030 to meet our scope 1 and 2 targets, per lever



Abatement cost curve for our decarbonization projects

By ranking all decarbonization projects according to their abatement cost we can estimate the average cost per lever (see diagram below) and plan the required investment for the short to medium-term.

We will replicate this methodology for key scope 3 reduction actions.



Cumulative emissions reduction (ktCO₂e)

- Electrification
- Process innovation
- Fuel switching and biomass
- Low-carbon and renewable electricity
- Energy efficiency and recovery

Public funding

Soutenu
par



Imerys has received public funding for some major decarbonization projects. For example, we have been selected to participate in PRECIZE (PRocédé ÉCologique et Innovant de liants de spécialité Zéro Émission), a new decarbonization project funded by the French Agency for Ecological Transition (ADEME) as part of the France Relance program. This will involve exploring the use of renewable energy and carbon reutilization to enhance the sustainability of some of our key downstream markets, such as building and infrastructure and performance minerals. As part of a consortium with Air Liquide, Cemhti, and LGC Toulouse, the project secured up to **€12M** in national funds.

The Group will continue to investigate other public funding opportunities around the world.

Our investment in the energy transition

We are also making significant investment in the development of the fast-growing lithium-ion battery market through two landmark lithium mining projects that will help advance Europe's low-carbon energy transition. The EMILI project at our Beauvoir site in Allier, France, requires a Capex with an order of magnitude of **€1BN** and is expected to produce 34,000 tons of lithium hydroxide per year from 2028, enough to equip approximately 700,000 electric vehicles annually. A second project, in partnership with British Lithium to accelerate the development of the largest lithium deposit in the UK, is expected to produce 21,000 tons of lithium carbonate equivalent a year by 2030. This could power around 500,000 car batteries every year – about one-third of the UK's estimated battery demand by 2030.

We have also invested over **€140M** over the past three years in other projects that enable low-carbon mobility. These include expanding our capacity to produce synthetic graphite and carbon black in Switzerland and Belgium, again to support the electric vehicle market. We have also inaugurated a new plant in Wuhu, China in October 2023 to produce high-quality talc used for the lightweighting of polymers typically used in automotive applications, particularly for electric vehicles.

Imerys Sustainability-Linked Bonds

In 2021, Imerys became the first industrial minerals company to include a Sustainability-Linked Bond (SLB) in our financing strategy. We issued a second **€500M** SLB in 2023, with specific performance targets set at a 32.7% absolute reduction in our scope 1 and 2 GHG emissions by the end of 2028 from our 2021 base year, consistent with our 2030 SBTi pathway.

More information can be found in the Group's [Sustainability-Linked Financing framework](#).

OUR PROGRESS TO DATE

Our systematic approach to addressing climate change touches everything we do at Imerys, while giving our people on the ground the flexibility to help make a difference locally. This means our decarbonization levers are implemented on a site-by-site basis, applying tailormade technologies and engineering studies to ensure we meet the unique requirements of each site.



[Understanding our historical emissions >](#)

[Tracking our progress: scope 1 and 2 >](#)

[Our scope 1 and 2 decarbonization levers in action >](#)

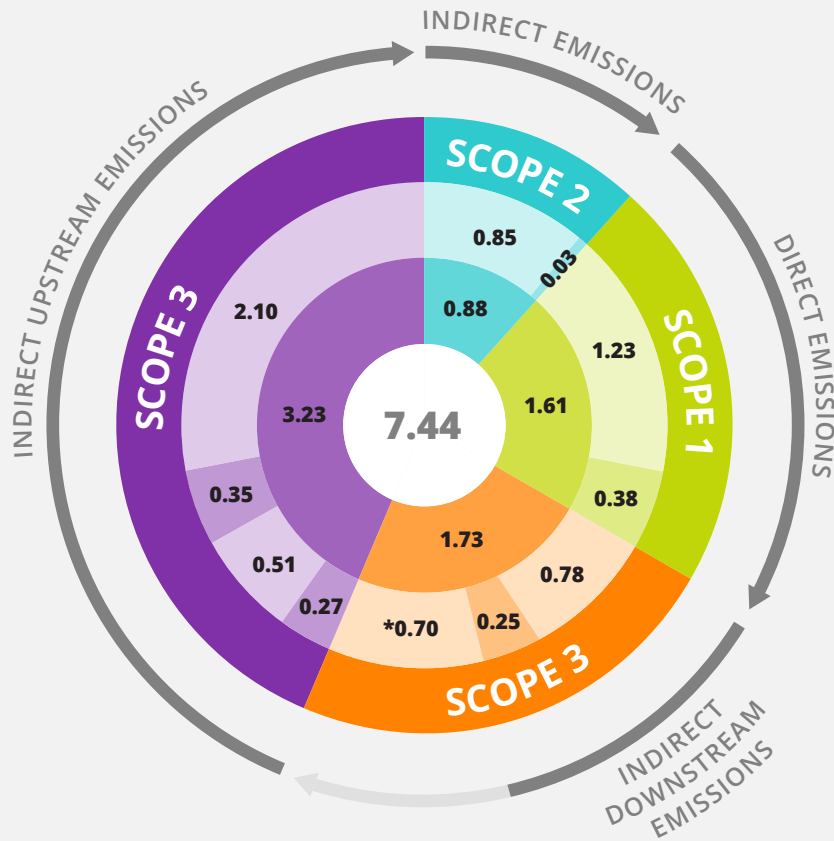
[Tracking our progress: scope 3 >](#)

[Our scope 3 decarbonization levers in action >](#)

Understanding our historical emissions

The diagram below shows a breakdown of our total emissions in our 2021 base year.

Imerys' total GHG emissions (MtCO₂e) in 2021, our base year



SCOPE 1

- 1.23 Thermal
- 0.38 Process emissions

SCOPE 2

- 0.85 Electricity
- 0.03 Steam

SCOPE 3 UPSTREAM

- 2.10 Purchased good and services
- 0.35 Upstream transportation
- 0.51 Energy
- 0.27 Other

SCOPE 3 DOWNSTREAM

- 0.78 Downstream transportation and distribution
- 0.25 Investments
- *0.70 Processing, use and end-of-life of sold products

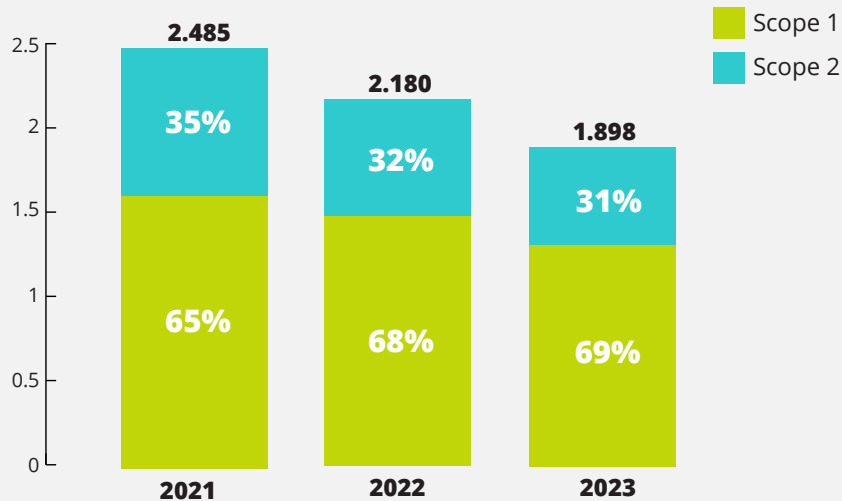
■ Covered in target ■ Excluded from target

* Not included in reduction target

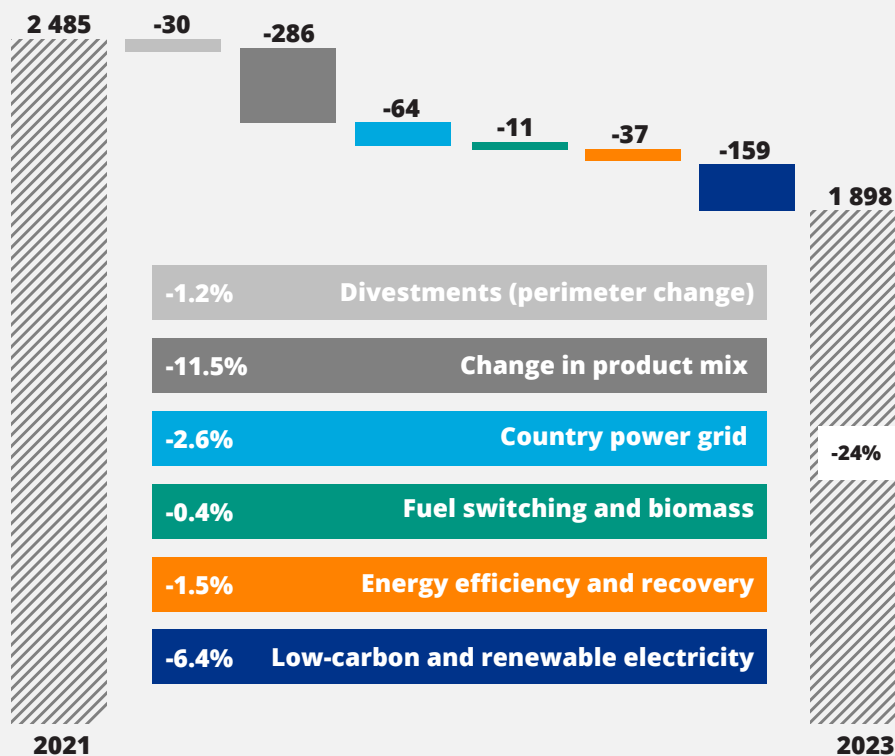
Tracking our progress: scope 1 and 2

In 2023, Imerys reduced its total combined scope 1 and 2 GHG emissions by 24% compared to the 2021 base year, and by 13% compared to 2022.

Reported scope 1 and 2 GHG emissions (MtCO₂e)



Detailed view of GHG emissions reduction (scopes 1 and 2) (ktCO₂e)



Our scope 1 and 2 decarbonization levers in action

Some examples of the ways in which we are mitigating climate change by reducing our scope 1 and 2 emissions at a local level are highlighted below.



Energy efficiency and recovery

I-Nergize program

By the end of 2023, 44 of our sites around the world had been assessed through our I-Nergize program. As a result, more than 1,000 actions have been identified to help reduce GHG emissions, with an expected reduction of **~120 ktCO₂e**.

Our energy team has also developed an energy knowledge base to promote best practice in industrial minerals energy efficiency for site engineers using Imerys equipment such as rotary kilns and dryers.



Heat recovery plant at Willebroek, Belgium

In 2023, Imerys started an official partnership with E.On for the construction of a new onsite heat recovery plant to capture feedstock energy contained in syngas, a by-product of the carbon black manufacturing process. From 2025, the plant is expected to supply all the electricity required to produce carbon black at our Willebroek site in Belgium. Surplus energy will be fed to the local grid, providing enough electricity to power up to 40,000 homes each year. This project is expected to reduce our total scope 1 emissions by more than **50 ktCO₂e**.

Energy efficiency at Villers-Sous-Saint-Leu

Our site producing calcium carbonate in the North of France has reduced GHG emissions by **42%** since 2021, without decreasing production, by reducing electricity consumption by 18% and natural gas consumption by 43% – resulting in an annual emissions reduction of **~2 ktCO₂e** (2023 vs. 2021).

This has been achieved by engaging the local site team and employing initiatives suggested by them, such as reducing drying temperatures, as well as through investment in an automatic flint sorting unit which has delivered significant benefits in terms of maintenance, capacity and energy efficiency.










Fuel switching and biomass

We have initiated several fuel-switching projects at various sites, as shown below.

Impact of fuel switching at different Imerys sites

Imerys site	Switched from → To	Share of Biomass in site's energy mix	Avoided emissions, ktCO ₂ e/year
Andersonville, US 	Coal → Peanut ground hulls	13%	~30
VKV, Ukraine 	Natural gas → Sunflower husks	65%	~6
Dikili, Turkey 	Gas oil/diesel → Olive seeds	75%	~2
Clerac, France 	Gas oil/diesel → Landfill gasses and sawdust	39%	~14
Mors, Denmark 	Residual fuel oil no. 6 → Sunflower husks	70%	~16

Switching to peanut ground hulls at Andersonville, US

We are in the process of replacing coal and natural gas with peanut ground hulls to fuel the kilns at this site in the US. The first phase of this project was completed in 2019 and yielded its first results in 2020. The second phase is due to be completed by mid-2024. As of 2023, 13% of the site's total energy consumption comes from peanut ground hulls, avoiding **~30 ktCO₂e** of GHG emissions annually. Once the third and final phase of the project is completed, the plant will run entirely on peanut ground hulls and natural gas, with an overall reduction target of **~140 ktCO₂e/year**, compared to 2018.



 Low-carbon and renewable electricity

We have installed solar panels to generate renewable electricity at our sites in Cornwall and Devon in the UK. We inaugurated our solar photovoltaic (PV) farm in Bahrain in March 2024 and are in the process of replicating this at sites in Malaysia and the US. Together, these three new projects are expected to reduce our GHG emissions by just under **15 ktCO₂e**.

In 2023 Imerys also launched a global Power Purchase Agreement (PPA) program to supply renewable power to as many of our sites as possible. We have received offers from suppliers for both on-site and off-site PPAs, with the first contracts expected to be signed by mid-2024. By 2030, we estimate that **at least 80%** of our electricity will come from renewable and low-carbon sources.

Imerys site	Expected start date	Expected electricity generation, GWh/year	Annual avoided emissions, ktCO ₂ e/year
Imerys Al Zayani Fused Minerals, Bahrain 	March 2024	8	~6
Ipoh, Malaysia 	September 2024	3	~2
Lompoc, California, US 	2026	30	~7



Hidd solar PV installation at our Al Zayani Fused Minerals site in Bahrain



Process innovation

Decarbonizing through Project PRECIZE

As highlighted on p15, we are undertaking a major new carbon capture and utilization (CCU) project at our site in Dunkirk, France to help enhance the sustainability of key downstream markets, through Project PRECIZE. The goal is to eliminate 100% of scope 1 emissions from calcium aluminate cement production by capturing CO₂ from industrial processes – and reusing it as a raw material for the construction market.

Imerys' main objectives are to assess whether the use of hydrogen in our pilot Furnace Innovation Technology (FIT) can replace fossil fuels and achieve emissions-free combustion, and mineralize the residual CO₂ with waste calcium sources to produce precipitated calcium carbonate (PCC).

Pilot tests carried out between 2015 and 2022 at Dunkirk and our site in West Thurrock in the UK have yielded very promising results, with over 30% of products used coming from circular supply and a reduction of up to 40% in GHG emissions.



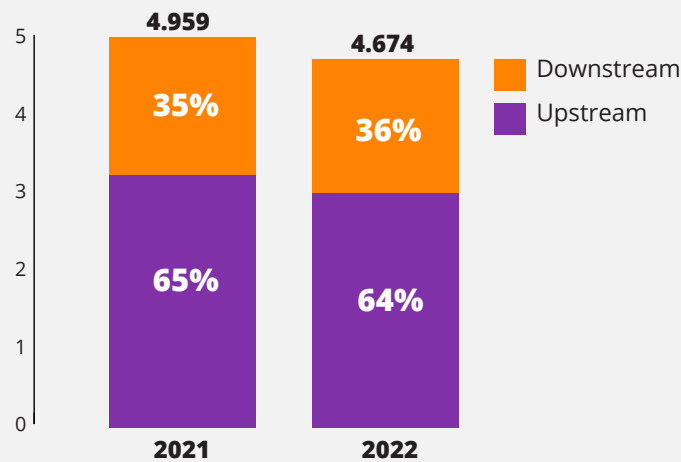
Electrification

Imerys is currently investigating this technology and the ways in which we could use it to reduce our GHG emissions. We expect to have a couple of pilot sites up and running by 2025.

Tracking our progress: scope 3

In 2022, Imerys reduced its scope 3 emissions by 6% compared to the 2021 base year, and by the same amount for the categories included under the SBTi emissions reduction target.

Reported scope 3 GHG emissions by category: 2021-2022 (MtCO₂e)



The reduction in scope 3 emissions between 2021 and 2022 was partially due to lower production volumes, as well as an improved reporting methodology validated by a third-party auditor. Other scope 3 emissions reductions were due to our decision to purchase low-carbon caustic soda and soda ash produced in Europe, which will be used as a locally-sourced raw material at our European sites.

Our scope 3 decarbonization levers in action

Some examples of scope 3 emission reduction projects that we already have in place are highlighted below.



Working with suppliers

As of the end of 2023, **48%** of the Group's suppliers by spend, representing approximately **900** suppliers, had emissions reduction targets in place.

Comprehensive training

In 2024 we started offering our suppliers training on carbon footprint measurement, decarbonization strategies, and science-based target setting. These sessions help guide suppliers by equipping them to make informed decisions on their sustainability journey and reducing their environmental impact.

Regional workshops to foster collaboration

Our purchasing teams hosted several regional workshops with key suppliers during 2023, fostering open dialogue and knowledge sharing, with a focus on sustainability and training on the global business sustainability accreditation program, Ecovadis. These events have already had a remarkable impact: **76** new suppliers within our Performance Minerals Americas business area alone joined Ecovadis in 2023.



Managing our product portfolio

Substituting to less emissions-intensive raw materials

In 2022, we switched our supply of soda ash at our Milos plant in Greece – and achieved an annual GHG emissions reduction of nearly **30 ktCO₂e**. We had previously purchased synthetic soda ash produced through a chemical reaction between salt, limestone and coking coal in the presence of ammonia. After a detailed assessment, we replaced this synthetic soda ash with an alternative produced using a natural process known as Trona solution. By extracting the natural Trona ore and subsequently filtering, concentrating and drying it to obtain the soda ash, this process generates **70% less** GHG emissions than the chemical process.



Milos plant in Greece purchases more than 30kt of soda ash every year

Other levers

Second-hand equipment marketplace

In 2023 we launched an internal online marketplace to facilitate the exchange of equipment across our sites so they can avoid buying new equipment if it is available internally. Our teams can now source specific pieces of equipment which are no longer manufactured but still available within the Group, avoiding the need to replace an entire machine. We are still quantifying the precise emissions reduction involved, but believe this example of circular economy thinking and resource preservation has great potential within Imerys.

SUPPORTING THE TRANSITION TO A LOW-CARBON ECONOMY

Imerys strives to provide game-changing mineral and advanced materials solutions to help our customers address the climate crisis and support the transition to a low-carbon economy. This includes making our existing products as sustainable as possible, investing in more sustainable processes at our sites around the world, and researching and developing solutions to meet new market needs.



[Assessing the sustainability of our product portfolio >](#)

[Solutions for the energy transition >](#)

[Supporting sustainable construction >](#)

[Reducing the GHG footprint of consumer goods >](#)

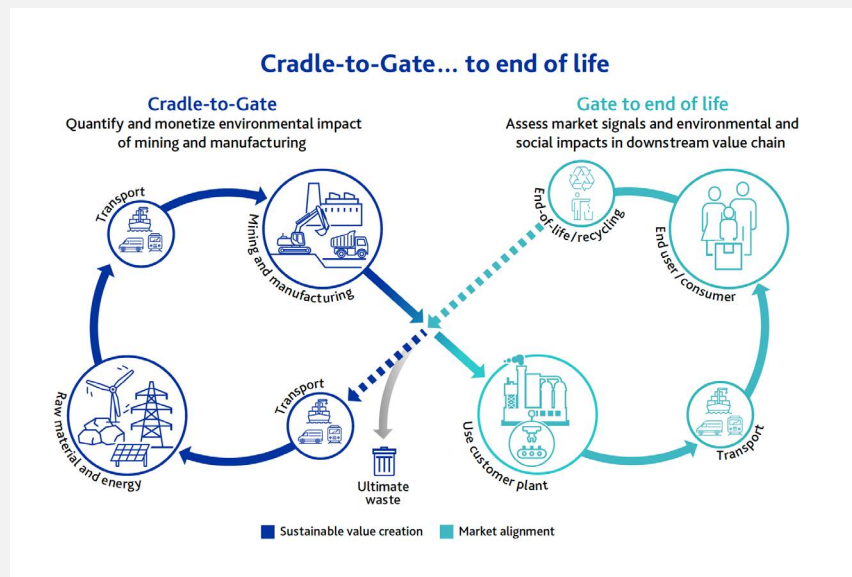
Based on our assessment of climate-related risks facing our business, the transition to a low-carbon economy is expected to have no or a very limited impact on many of our existing products. Given the limited processing required before use, performance minerals are relatively low-carbon products, particularly compared to chemical-based alternatives for many applications.

At the same time, we are committed to developing our portfolio of low-emission products that support the energy transition. A sizable proportion of our product portfolios – representing approximately 29% of consolidated revenue – serve markets that support climate-related trends, whether by providing solutions for the energy transition, supporting sustainable construction, or offering natural solutions to reduce the GHG footprint of consumer goods.

Assessing the sustainability of our product portfolio

As part of our SustainAgility program, we have developed a [SustainAgility Solutions Assessment \(SSA\) methodology](#) to objectively measure our product portfolio against sustainability criteria, identify the environmental and social impacts of our products from extraction to end-of-life and steer our portfolio towards low-carbon solutions.

Aligned with the World Business Council for Sustainable Development (WBCSD) guidelines for Portfolio Sustainability Assessments (PSA), this methodology provides a systematic, high-quality, scientifically robust and transparent approach to review our products and services through a sustainability lens.



Each product assessed is classified according to its level of sustainable performance. The [Imerys Pioneer Certificate](#) is awarded to our mineral solutions that represent the highest social and environmental contribution to the downstream value chain, while demonstrating a low environmental impact in their production phase, compared to their economic value.



The three key areas in which Imerys is supporting the transition to a low-carbon economy are highlighted below, along with examples of some specific products and their environmental benefits.

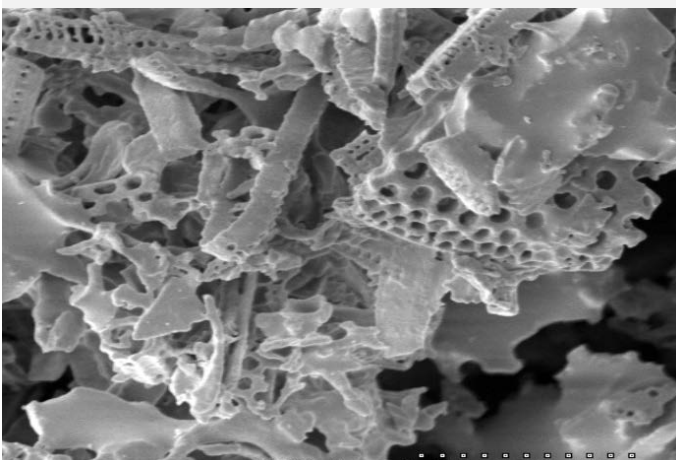
Solutions for the energy transition

Our two landmark lithium mining projects, which will produce lithium hydroxide in Allier France, and battery-grade lithium carbonate in the UK (see p15), will help to advance Europe's low-carbon energy transition. These mineral solutions will enable the development of the fast-growing market for lithium-ion batteries used in electric vehicles.

Our synthetic graphite and carbon black products also support the expansion of the electric vehicle market, by boosting energy density and shortening charging times. They are also an essential component in the development of fuel cell technology, for example for heavy duty vehicles, using hydrogen as a fuel. Our mineral-based filter products are used to enhance the effectiveness of biofuels, supporting the development of the renewable energy sector.

CynerSorb®

These minerals-based filters allow biofuels to be produced with lower quality feedstocks. By removing phosphorus, metals and other contaminants, they allow 'dirtier' fats and oils to meet feedstock specifications of biodiesel, renewable diesel, and other oleochemical plants. This enables biofuel producers to extend the life of expensive catalysts, double throughput in existing systems, and reduce the capital expenditure required for new pre-treatment systems.



C-ENERGY™ L-Series

Mixed at low rates (5-10%) with other active materials used in battery anodes, our range of high purity, speciality, primary synthetic graphites designed and optimized for lithium-ion batteries reduce the overall carbon footprint of the active material by up to 10%.



Supporting sustainable construction

Our wide range of innovative mineral solutions for sustainable building materials is helping the construction industry overcome the challenges it faces in reducing GHG emissions. We have developed a unique portfolio of minerals that can be used as a substitute for cement clinker, while speeding up the hardening time of low-carbon concrete. These include kaolinite clay, metakaolin, fine grade perlite, and calcium aluminate mineral accelerator.

Argical™

Developed in partnership with VINCI Construction, Argical M-1000 C is designed for low-carbon concrete formulations by exploiting the reactivity of metakaolin. This solution is being used as part of the construction of the new Nantes University Hospital, the first low-carbon building of its scale in France. We plan to collaborate with VINCI Construction on several future projects, demonstrating the growing importance of adopting low-carbon concrete solutions for major construction projects.



Reducing the GHG footprint of consumer goods

Our natural mineral solutions are used across the world in consumer goods and packaging, in the food and beverage sector and in a wide range of health and personal care products, where our customers are increasingly seeking natural ingredients that have a lower environmental footprint and are sustainably sourced. For example, we provide natural mineral alternatives to synthetic ingredients such as plastic microbeads used in cosmetics, which require energy-intensive production processes that generate significant GHG emissions.

We are committed to supporting consumer goods manufacturers in reducing the overall carbon footprint of their end products, improving recyclability, biodegradability and compostability, and developing more environmentally-friendly packaging solutions.

ImerCare Matte®

This unique white kaolin used in cosmetics is a sustainable alternative to synthetic polymer generally used as a mattifying agent. A full life cycle assessment study has demonstrated that our solution helps reduce the total carbon footprint of cosmetic formulations by 20-60%. This mineral solution does not release any GHG emissions during the use phase.



ShrinkSan®

This system used in kiln furniture offers a sustainable alternative to traditional ceramic sanitaryware products. It effectively replaces disposable plates used during the firing of ceramic toilets, resulting in a lower environmental footprint and better output. A full life cycle analysis has demonstrated that GHG emissions using our ShrinkSan solution are 76% lower compared to disposable plates, and it reduces the total carbon footprint of toilet production by 6%.



43 Quai de Grenelle, F – 75015 Paris – France
Tel: +33 1 49 55 63 00

www.imerys.com

Imerys – French Limited Liability Company
(Société Anonyme)
with a share capital of euros 169,881,910
RCS Paris 562 008 151

Disclaimer: this document contains projections and other forward-looking statements that reflect Imerys' current views with respect to future events. These projections and forward-looking statements are subject to various risks and uncertainties (many of which are difficult to predict and generally beyond the control of Imerys) that could cause actual results and developments to differ materially from those expressed or implied.

This document is without prejudice to the work underway as part of the CSRD compliance work for Universal Registration Document 2024. The ambition and progress of the plan is intended to be published in the 2024 Universal Registration Document ("URD").

