Climate Change 2017 Information Request FMC Corp

Module: Introduction

Page: Introduction

CC0.1

Introduction

Please give a general description and introduction to your organization.

FMC Corporation is a specialty company serving global agricultural, industrial and consumer markets by providing innovative solutions, applications and quality products for more than a century. FMC employs 6,000 people and has three business segments: Agricultural Solutions, Health and Nutrition, and Lithium. FMC's 2016 revenue totaled approximately USD\$3.3 billion.

Agricultural Solutions and Health and Nutrition, 69% and 23% of FMC's total business by revenue, respectively, help meet the food and nutrient needs of a growing population. Agricultural Solutions provides innovative and cost-effective solutions to enhance crop yields and quality by controlling a broad spectrum of insects, weeds and diseases, and non-agricultural solutions for pest control. Health and Nutrition produces food ingredients, pharmaceutical additives that enhance texture, color and structure and physical stability, as well as active ingredients for nutraceuticals, which are products with nutrients derived from food products. FMC Lithium, 8% of FMC's total business by revenue, produces low carbon products and technologies for energy storage, electric vehicle batteries, and energy efficient tires.

Sustainability is an enduring, fundamental part of FMC's structure, built into who we are as a company. We continue to integrate sustainability into our innovation, operations, and business practices, which strengthens our business performance and aligns with our corporate strategy. FMC's progress helps us to address some of the world's major global challenges. With our customers' use of our products and changes to our business operations, we are addressing five "major global challenges" that are among society's most profound concerns and have significant implications. They are:

1) Climate Change: Reduction in greenhouse gas emissions is a necessary step in mitigating climate-warming trends.

2) Environmental Consciousness: Growing interest in natural and benign materials is driving the need for new, improved, bio-based products that reduce environmental impacts.

3) Scarce Resources: To cope with limited availability of fresh water, energy, forests and other essential resources, we must carefully manage them and use more renewable alternatives.

4) Food & Health Expectations: Food and crop production must increase to meet the basic needs of a rapidly-growing population and socio-economically diverse population that seek a wider array of nutritional options.

5) Land Competition: Urbanization to accommodate a growing population and poor land management techniques limit the amount of arable land available for agriculture, which intensifies the need to increase farmland productivity and crop yields.

FMC continues to make progress in sustainability with a 10-year strategy to grow by providing products with value, which motivate our stakeholders to work with FMC. Our strategic position depends on sustainable investments that ensure our company runs more efficiently and resiliently. In 2015, FMC established targets to ensure we are a more sustainable enterprise by 2025.

2020 Innovation & Business Practices Targets:

- Reduce our Total Recordable Incident Rate (TRIR), a metric for reporting safety performance in manufacturing, to 0.3 or lower
- Increase our percent spending on R&D toward sustainably advantaged products to 80 percent

• Achieve 100 on FMC's Community Engagement Index, which measures the extent and quality of our interaction with local communities

2025 Operations Targets:

- Reduce our energy, greenhouse gas (GHG) and waste intensities by 15 percent from our 2013 baseline year
- Reduce our water use in high-risk areas by 20 percent from our 2013 baseline year

FMC recently announced its acquisition of part of DuPont's Crop Protection business and DuPont's acquisition of FMC Health and Nutrition in November 2017. Combining DuPont's exceptional products and R&D capabilities with our product portfolio, pipeline and formulation expertise will bring new solutions to growers and reduce our impact on the planet. FMC's 2017 CDP Climate Change

report includes information on FMC's three businesses, Agricultural Solutions, Health and Nutrition, and Lithium.

FMC representatives may from time to time make written or oral statements that are "forward-looking" and provide other than historical information. Such statements are based on our current views and assumptions regarding future events, future business conditions and the outlook for FMC based on currently available information. These statements involve known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from any results, levels of activity, performance or achievements expressed or implied by any forward-looking statement. We wish to caution readers not to place undue reliance on any such forward-looking statements, which speak only as of the date made. References to "FMC" or "the company" refer to FMC Corporation.

CC0.2

Reporting Year

Please state the start and end date of the year for which you are reporting data.

The current reporting year is the latest/most recent 12-month period for which data is reported. Enter the dates of this year first.

We request data for more than one reporting period for some emission accounting questions. Please provide data for the three years prior to the current reporting year if you have not provided this information before, or if this is the first time you have answered a CDP information request. (This does not apply if you have been offered and selected the option of answering the shorter questionnaire). If you are going to provide additional years of data, please give the dates of those reporting periods here. Work backwards from the most recent reporting year.

Please enter dates in following format: day(DD)/month(MM)/year(YYYY) (i.e. 31/01/2001).

Enter Periods that will be disclosed

Fri 01 Jan 2016 - Sat 31 Dec 2016

Thu 01 Jan 2015 - Thu 31 Dec 2015

Wed 01 Jan 2014 - Wed 31 Dec 2014

Tue 01 Jan 2013 - Tue 31 Dec 2013

CC0.3

Country list configuration

Please select the countries for which you will be supplying data. If you are responding to the Electric Utilities module, this selection will be carried forward to assist you in completing your response.

Select country

CC0.4 Currency selection

Please select the currency in which you would like to submit your response. All financial information contained in the response should be in this currency.

USD(\$)

CC0.6

Modules

As part of the request for information on behalf of investors, companies in the electric utility sector, companies in the automobile and auto component manufacturing sector, companies in the oil and gas sector, companies in the information and communications technology sector (ICT) and companies in the food, beverage and tobacco sector (FBT) should complete supplementary questions in addition to the core questionnaire.

If you are in these sector groupings, the corresponding sector modules will not appear among the options of question CC0.6 but will automatically appear in the ORS navigation bar when you save this page. If you want to query your classification, please email <u>respond@cdp.net</u>.

If you have not been presented with a sector module that you consider would be appropriate for your company to answer, please select the module below in CC0.6.

Further Information

Module: Management

Page: CC1. Governance

CC1.1

Where is the highest level of direct responsibility for climate change within your organization?

Board or individual/sub-set of the Board or other committee appointed by the Board

CC1.1a

Please identify the position of the individual or name of the committee with this responsibility

The committee with the highest level of responsibility for the management of climate change within FMC is the Board of Directors' Sustainability Committee, one of five of the Board of Directors' standing sub-committees. The Board of Directors adopted a written charter outlining the Sustainability Committee's duties, which are:

- Meeting three times per year
- Conducting an annual self-assessment

• Monitoring FMC's Sustainability Program, including program development and advancement, goals and objectives, and progress toward achieving those objectives

- Monitoring FMC's environmental responsibility, employee occupational safety and health and process safety programs
- Monitoring FMC's programs with regard to the American Chemistry Council's (ACC) Responsible Care initiative

The Board of Directors' Sustainability Committee is assisted by FMC's internal Sustainability Steering Team (SST), which meets with the Global Sustainability Group four times per year to discuss current and future sustainability initiatives and issues. The SST includes leaders of FMC's three businesses (Agricultural Solutions, Health and Nutrition, and Lithium) as well as group leaders from Manufacturing, EHS, R&D, Finance, Communications, Procurement, Human Resources, Legal and Government Affairs.

The individual with the highest responsibility for the management of climate change-related issues on a regular basis is Linda Froelich, FMC's Global Sustainability Director. Linda oversees the implementation and integration of sustainability at FMC. She communicates directly with the Board of Directors' Sustainability Committee on sustainability and climate change. Linda reports to Karen Totland, Vice President, Global Procurement, Global Facilities & Corporate Sustainability, who is a member of FMC's executive leadership and the SST. Linda collaborates with Barry Crawford, Vice President, Operations, and FMC's Operations, Human Resource and R&D directors to develop and ensure the achievement of FMC's 2020 and 2025 safety, environmental, innovation and social metrics and targets. Additionally, Linda manages the Global Sustainability Group, who collects, verifies and audits FMC's metrics for innovation, business practices, and environment (energy, water, greenhouse gas emissions, waste). The Global Sustainability Group works cross-functionally to monitor the implementation FMC's sustainability initiatives globally.

CC1.2

Do you provide incentives for the management of climate change issues, including the attainment of targets?

Yes

CC1.2a

Please provide further details on the incentives provided for the management of climate change issues

Who is entitled to benefit from these incentives?	The type of incentives	Incentivized performance indicator	Comment
Executive officer	Monetary reward	Emissions reduction project Emissions reduction target Energy reduction project Energy reduction target Other: Sustainability targets	FMC's executive officers and vice presidents, including those who are members of FMC's executive team, are eligible for non-monetary incentives, like recognition, as well as monetary incentives when they include sustainability-related targets, like greenhouse gas emissions and energy reductions, in their annual performance indicators. For example, Barbara Fochtman, Director of Global Operations for FMC Lithium, has included the management and accomplishment of FMC's Lithium's sustainability targets as a performance indicator in her annual performance goals. Steve Ridge, Director of Global Operations for FMC Agricultural Solutions, has also added the management and accomplishment of FMC Agricultural Solutions' sustainability metrics in his goals. FMC Agricultural Solutions and FMC Lithium have both committed to developing business-specific targets that will contribute to FMC's corporate 2025 sustainability targets to reduce energy, greenhouse gas emissions, and waste intensities by 15 percent as well as to reduce water use in high-risk areas by 20 percent.
All employees	Monetary reward	Emissions reduction project Emissions reduction target Energy reduction project Energy reduction target Behavior change related indicator Supply chain engagement	All FMC employees are able to include the management of sustainability and/or climate change related issues into their annual performance indicators that have monetary incentives attached. All employees can decide on setting particular goal or incentive with their direct manager each year. Depending on employees' areas of focus, these goals are flexible and can pertain to employees' direct projects like energy reduction products, emissions reductions projects, or indirect projects that contribute to FMC's sustainability objectives.
Environment/Sustainability managers	Monetary reward	Emissions reduction project Emissions reduction target Other: Completion of third-party assurance of FMC's environmental data	o FMC's Global Sustainability Director, Linda Froelich, has incentives for the management of climate change-related issues within her annual performance indicators. Linda was responsible for the completion of the pre-assurance process completed in 2015 and third- party assurance of FMC's environmental data in 2015 and 2016.FMC's Sustainability Group collects FMC's energy and greenhouse gas data to monitor and track FMC's progress on its environmental targets, including the goal to reduce FMC's energy and greenhouse gas intensities by 15% by 2025.
Business unit managers	Monetary reward	Other: Collection and verification of FMC's data to report to EPA SmartWay program	FMC's Global Category Manager of Logistics has incentives in their FMC annual performance indicators to facilitate logistics greenhouse gas emissions data collection and verification of FMC's data to report to the U.S. Environmental Protection Agency's SmartWay reporting program.

Who is entitled to benefit from these incentives?	The type of incentives	Incentivized performance indicator	Comment
Other: An FMC plant location, laboratory, business unit or staff functional department within a Group/Business or a Corporate Staff function	Recognition (non- monetary)	Other: Annual FMC EHS and Sustainability President's Awards	FMC's President's Awards recognize exceptional performance and/or improvement of a plant location, laboratory, business unit or staff functional department within a Group/Business or a Corporate Staff function in the areas of EHS and Sustainability.
Other: FMC employees or small groups	Recognition (non- monetary)	Other: Behavior change related indicator	FMC's Chairman's Award recognizes employees or small groups for outstanding achievements and leadership in the areas of EHS and Sustainability.
Other: Employees and their families	Recognition (non- monetary)	Other: Employee engagement	FMC's Global Sustainability Group has produced a sustainability blog, Sustainability + You, which is featured on FMC's sustainability website. The goal of the blog is to inform and engage FMC's international workforce on programs and initiatives related to sustainability at FMC. Employees and stakeholders can submit information to the Global Sustainability Group on how they are creating a more sustainable future within and outside of FMC.

Further Information

Page: CC2. Strategy

CC2.1

Please select the option that best describes your risk management procedures with regard to climate change risks and opportunities

Integrated into multi-disciplinary company wide risk management processes

CC2.1a

Please provide further details on your risk management procedures with regard to climate change risks and opportunities

Frequency of monitoring	To whom are results reported?	Geographical areas considered	How far into the future are risks considered?	Comment
Annually	Board or individual/sub-set of the Board or committee appointed by the Board	All FMC Locations	> 6 years	FMC's Risk Council, Risk Management and Sustainability Groups interact with FMC business functions globally on many issues, including risks and opportunities associated with climate change. The Risk Council is responsible for ensuring good risk governance, defining strategic risks, and monitoring risk assessment processes in strategic planning, business planning, capital planning and M&A. Risk Management conducts a company-wide risk assessment to reduce FMC's exposure to risk factors, which are generally disclosed in our 10-K. The Sustainability Group also conducts an annual materiality assessment. Findings from both of these annual assessments are reported to FMC's executive leadership and Board of Directors and include factors like climate change, GHG emissions, food supply, resource efficiency, product environmental impact, and health and

F		Coordenabias	How far into
Frequency	To whom are	Geographical	the future are
of	results reported?	areas	risks
monitoring		considered	considered?

Comment

safety.

CC2.1b Please describe how your risk and opportunity identification processes are applied at both company and asset level

At a company level, FMC's Risk Council, Risk Management and Sustainability Group interact with FMC locations and functions on many issues, which can include climate change risks and opportunities. The Risk Council includes FMC executive leadership and is responsible for ensuring good risk governance, defining strategic risks, and monitoring risk assessment processes in strategic planning, business planning, capital planning and M&A.

The Sustainability Group conducts an annual materiality assessment that quantitatively and qualitatively analyzes material issues. They conduct interviews with employees with a deep understanding of our business from Sustainability, Government Affairs, Internal Audit, Investor Relations, Communications, Finance, Legal and Environment/Remediation. They also conduct a survey asking internal and external stakeholders to rank sustainability issues based on each issue's perceived impact on and importance to FMC. The 2016 survey had 35 respondents, representing non-government organizations, customers, suppliers, foundations, trade associations and employees. The most material issues were reported to FMC's executive leadership team, Sustainability Steering Committee, Board Sustainability Team and in our Sustainability Report.

On an asset level, Risk Management conducts an annual risk assessment for our manufacturing sites and physical assets. It has a review process for potential natural catastrophes and possible sources of risks, which are generally disclosed in our 10-K. The Sustainability Group manages the company's energy consumption, GHG emissions, water use and waste generation data. FMC obtained third-party assurance on its 2015 and 2016 data. FMC's sites collect and report this data to the Sustainability Group, allowing us to measure our environmental impact. The Sustainability Group conducts water risk assessments, energy audits and social responsibility audits at FMC facilities and results are applied at other sites as needed.

CC2.1c

How do you prioritize the risks and opportunities identified?

A cross-functional materiality team identified 62 sustainability issues relevant to FMC that fell into 5 categories: Operations, Workplace, Environment, Marketplace, and Community. Internal stakeholders scored each issue on 5 factors: financial impact and risk, regulatory and policy drivers, peer-based norms, stakeholder concerns and societal trends and opportunities for innovation. External stakeholders scored each issue based on perceived importance to FMC. An issue that scores high on internal and external surveys is considered a material issue of high importance; high scoring issues are prioritized and considered for more research and/or stakeholder alignment. These surveys and stakeholder interviews inform our sustainability priorities, strategies, and reporting. The 10 most material issues are reported in FMC's sustainability report.

Risk Management conducts an annual risk assessment of global manufacturing sites. A recent example of how this assessment reduced potential physical risks that are projected to worsen with climate change, was when FMC analyzed potential locations for a new site in Thailand. The sites with the least risk for natural disasters, like flooding or extreme weather, were prioritized in deciding on the Rayong, Thailand location.

Enterprise Risk Management process has an Enterprise Risk Assessment component, which includes interviews of FMC's top 40 leaders annually. FMC assesses risks using impact and likelihood definitions as previously defined by the Risk Council to arrive at "enterprise" level risks. Based on this initial assessment, a preliminary report is presented to the Risk Council. After incorporating the Risk Council's input, enterprise risks are validated and the top risks prioritized in facilitated workshops with risk owners. These facilitated workshops use voting technology to find greater consensus on key risk impact, likelihood and owner. The final results are reported to the executive committee and Board each year.

CC2.2

Is climate change integrated into your business strategy?

Yes

CC2.2a

Please describe the process of how climate change is integrated into your business strategy and any outcomes of this process

The Process

As discussed in question CC2.1a, Risk Management conducts an annual company-wide risk assessment with third-party auditors, and the Sustainability Group conducts an annual materiality assessment with internal and external stakeholders. Both assessments consider risk factors for FMC and its locations, including climate change, GHG emissions, global food supply, resource efficiency, product environmental impacts, health, and safety. Climate change was identified as a material issue. As a result, FMC began collecting information to determine our environmental impacts, such as energy usage, GHG emissions, water usage and waste generation, which are our key sustainability performance indicators. This data was used in developing our 2025 targets to reduce our environmental impacts. Our 2025 targets will ensure FMC's operations and business strategies are more efficient and resilient so we can address potential market, climate, and regulatory-based changes.

Example of Influence on Business Strategy

An example of how FMC's business strategies have been influenced by climate change is that FMC has identified five major global challenges that we can address through the use of our products, technologies, and changes in our business operations. These challenges are climate change, scarce resources, environmental consciousness, land competition and food and health expectations. Climate change was identified due to its potential impacts on FMC and our customers. We have incorporated these concerns into the kind of products we are developing, our increased investment in making our operations more efficient. In 2015, FMC decided to create our 2025 target to reduce our energy and GHG emission intensities by 15%.

Aspects

Our risk and materiality assessments indicated that climate change impacts could include more extreme weather as well as changing temperatures, growing seasons, and species distribution. A possible result of these changes is that FMC and its customers could experience higher energy and raw material costs, increased water scarcity and competition for raw materials, and decreased availability of arable land. FMC is adapting by investing in technologies to make our operations more efficient and less impactful on the environment and adapting our product portfolio to provide products that help customers mitigate and adapt to climate change.

Influence on short-term strategy

Climate change has influenced FMC's short-term strategy in that we are making changes in our business operations to become efficient in energy and GHG emissions intensities, conducting life cycle assessments on our products, and third-party assurance assessments of our environmental data, conducting energy assessments to reduce energy intensity at our high energy use manufacturing sites in Rockland, Maine, United States, Minera del Altiplano, Argentina and Cork, Ireland, and updating our Water Risk Assessment for our manufacturing sites.

Influence on long-term strategy

FMC's strategy in the next 10 years is to grow by providing products that motivate stakeholders to work with us. Our strategic position depends on sustainable investments that ensure our company runs more efficiently and resiliently by 2025. FMC aims to reduce its environmental impact while providing customers with sustainably-advantaged products. In the long-term, our Agricultural Solutions products will be needed by growers in locations that will experience changes in existing physical environments. FMC Agricultural Solutions is developing products that improve agricultural productivity by helping growers increase crop yields to feed a growing global population. Growers must adapt to less available arable land because of climate change impacts, like temperature and rainfall shifts as well as impacts like increased urbanization. FMC Health and Nutrition is creating high-value, differentiated food and health ingredients that enable our customers to help feed the world, deliver more effective medicines and support healthier lifestyles. FMC Lithium supplies lithium products used in diverse energy-efficient solutions that reduce society's impact on the climate.

FMC researchers also developed the Product Stewardship and Sustainability Assessment (PSSA) tool to ensure each new product introduction is more sustainable than the current benchmark. The PSSA tool includes questions that address FMC's identified five major global challenges. A product must show progress in at least one of the areas without regressing in another before it continues in the development process. R&D scientists and development managers must complete the PSSA at each development stage. More complete answers to the PSSA questions are developed as development on the product moves forward and more insights are gained into the product's attributes. Each FMC business has a unique PSSA tool that is appropriate and relevant for their project development. For example, Agricultural Solutions' PSSA considers human health and ecological toxicity, while Lithium's PSSA reviews whether the product promotes more sustainable energy or transportation. Every quarter, FMC aggregates PSSA scores across business units to determine our total R&D spend toward developing sustainably advantaged products. FMC has a 2020 goal is to achieve 80% of R&D spend toward sustainably advantaged products. In 2016, 76% of FMC's R&D spending on was on developing sustainably advantaged

products. We will continue to introduce these products and track their sales on a quarterly basis.

Paris Agreement

The Paris Agreement calls for countries to reduce their emissions to limit the increase in global average temperatures to 2 degrees Celsius. FMC's 2025 targets and the company's official climate change statement are indicative of the fact that FMC realizes its responsibility to limit its contributions to climate change. As FMC measures and manages its progress on the 2020 and 2025 targets it announced in 2015, it will continue to assess how its business strategies and sustainability initiatives can align with the Intended Nationally Determined Contributions (INDCs) of the Paris Agreement.

Strategic Advantage

By investing in our product portfolio and sustainably advantaged products, FMC is positioned to impact the aforementioned five major global challenges. FMC Agricultural Solutions is developing targeted chemistries and biological crop protection products (materials originating from renewable plant or natural microbial sources). FMC Health and Nutrition has provided products to satisfy customers' needs for natural foods and products that give food an extended shelf life, which is needed in areas that lack reliable refrigeration. FMC Lithium provides lithium inputs for customers to create batteries for electrically-powered vehicles, more fuel-efficient tires, lighter weight aluminum for aircraft, and other low carbon technologies to allow for greater reductions in greenhouse gas emissions.

CC2.2c

Does your company use an internal price on carbon?

No, and we currently don't anticipate doing so in the next 2 years

CC2.3

Do you engage in activities that could either directly or indirectly influence public policy on climate change through any of the following? (tick all that apply)

Direct engagement with policy makers Trade associations Funding research organizations Other

CC2.3a

On what issues have you been engaging directly with policy makers?

Focus of Corporate legislation Position		Details of engagement	Proposed legislative solution			
			FMC has identified five major global challenges that we can address through			
		FMC engages policy makers in	the use of our products, technologies and changes in our business operations.			
		the U.S. on issues related to	These challenges are climate change, scarce resources, environmental			
Other:		energy storage. Specifically,	consciousness, land competition, and food and health expectations. We see			
Energy	Support	supports federal funding for the	energy storage as a means to reduce climate change and support the passage			
Storage		advancement, manufacturing,	of federal funding that helps to advance lithium-based energy storage and its			
		and adoption of lithium-based	wide scale adoption in the energy sector. Our lithium products are used by			
		energy storage.	customers to create batteries for electrically-powered vehicles, more efficient			
			tires, lighter-weight aluminum for aircraft and other low carbon technologies.			

CC2.3b

Are you on the Board of any trade associations or provide funding beyond membership?

Yes

CC2.3c

Please enter the details of those trade associations that are likely to take a position on climate change legislation

TradeIs your
position onPlease explain the trade association's positionHow have you, or are you attempting to,
influence the position?

climate change consistent with theirs?

American Chemistry Consistent Council (ACC)	The American Chemistry Council (ACC) and its members believe that chemistry plays an integral role i solving our world's sustainability challenges. The ACC is committed to advancing safe, innovative, effective, and economically viable chemical products and technologies that are key to unlocking sustainability solutions. The ACC's sustainability principles call on its members to address the environmental impacts from operations by achieving measurable reductions in greenhouse gas emissions and distribution of products, conserving materials and resources, reducing waste through re-use and recycling, and collaborating to reduce marine debris and its impacts. The ACC has supported a number of proposals designed to reduce greenhouse gases, and improve energy generation and efficiency. The ACC has not endorsed a specific climate change policy proposal.	n C FMC is a member of numerous trade and business associations that relate to the chemical, manufacturing, agricultural and consumer industries and their associated priority issues. FMC supports the ACC in its mission to deliver a business value through advocacy, political engagement, communications and scientific research. The members of ACC are a diverse group of companies with differing positions on issues that impact the chemical industry. Overall, FMC supports the ACC's sustainability principles that call on ACC members to address their environmental impacts.
CropLife America (CLA) ^{Mixed}	CropLife America (CLA) supports a number of proposals designed to impact greenhouse gas generation, energy generation and energy efficiency.	FMC is a member of numerous trade and business associations that relate to the chemical, manufacturing, agricultural and consumer industries and their associated priority issues. Diane Allemang, FMC's Agricultural Solutions Global Director - Portfolio Management & Strategic Marketing, serves on CLA's Board of Directors and was elected the 46th Chair of the board in 2015, the first woman to hold this position. FMC supports CLA in its efforts to engage with policy makers at the federal, state and local levels to develop policies and regulations. CLA is comprised of a diverse group of members that could potentially differ on certain issues that impact its members. In situations of conflict, all members have the right to advocate for an alternative position.
CropLife International (CLI) (Farming First)	CropLife International (CLI) supports and is a member of Farming First, a coalition of multi-stakeholder organizations that articulates, endorses and promotes practical, actionable programs and activities to further sustainable agricultural development worldwide. Farming First has a set of recommendations on climate change to all governments: 1) Support the unique role of agriculture in the global climate change response, 2) Encourage the use of all available and applicable climate change solutions, 3) Promote funding mechanisms which support the needs of all levels and forms of farming, 4) Reward resource-based productivity improvements as the direct contributor to climate-change effectiveness, and 5) invest in capabilit sharing to encourage all farmers to play a role in climate change while safeguarding local and global	FMC is a member of numerous trade and business associations that relate to the chemical, manufacturing, agricultural and consumer industries and their associated priority issues. Mark Douglas, President, FMC Agricultural Solutions, is a member of CLI's Strategy committee. FMC supports CLI in its efforts to engage with policy makers to develop policies and regulations. CLI is comprised of a diverse group of members that could potentially differ on certain issues that impact its members. In situations of conflict, all members have the right y to advocate for an alternative position.

security.

National Manufacturing Association (NAM) The National Manufacturing Association (NAM) supports an energy strategy that embraces all forms of domestic US energy production and expanding energy conservation and efficiency efforts. NAM also advocates for certain actions that positively impact manufacturing and its contributions to environmental protection. NAM has not endorsed a specific climate change policy proposal.

FMC is a member of numerous trade and business associations that relate to the chemical, manufacturing, agricultural and consumer industries and their associated priority issues. Eric Norris, President, FMC Health and Nutrition, is a Board Member of NAM. FMC supports NAM in its role as a voice for the manufacturing community and an advocate for policy designed to help manufacturers compete in the global economy. The members of NAM are a diverse group of companies with potentially differing positions on issues that impact the manufacturing sector. While FMC's position on certain issues may align with NAM's positions, we do not necessarily support all proposals and actions advocated for by NAM.

CC2.3d Do you publicly disclose a list of all the research organizations that you fund?

No

CC2.3e Please provide details of the other engagement activities that you undertake

FMC recognizes that education and research are vitally important to FMC's community engagement and leadership. FMC has two partnerships with the World Food Prize and the Initiative for Global Environmental Leadership (IGEL) at the University of Pennsylvania's Wharton School. In 2016, FMC was a supporter of the World Food Prize, which is known as the "Nobel Prize for agriculture" and promotes agricultural advancement in the developing world, and its Global Youth Institute, which supports student research. FMC's partnership with IGEL seeks to promote research and thought leadership in sustainable business on a global scale. In late 2015, FMC collaborated with the publication Knoweldge@Wharton on a special report, entitled, Feeding the World. In addition, FMC's Global Sustainability Director, Linda Froelich, participated in an IGEL panel discussion focused on "Careers in Sustainability," to encourage undergraduate and graduate students to consider the career path of corporate sustainability.

CC2.3f

What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

As discussed in CC1.1a, FMC has an established set of strategic and governance processes that ensure the collaboration of FMC's Governmental Affairs team with FMC's executive leadership team, business leaders, and sustainability Group on many issues, including sustainability and climate change-related issues. For example, members of FMC's Governmental Affairs Group participate on FMC's Sustainability Steering Team alongside leaders of FMC's executive leadership, leaders of FMC's three businesses (Agricultural Solutions, Health and Nutrition and Lithium) as well as group leaders from Manufacturing, EHS, R&D, Finance, Communications, Procurement, Human Resources, and Legal. In addition, members of FMC's Corporate Government Affairs have regular interactions with FMC's leaders from each function and geography in which FMC operates to define and ensure the priorities of the company are advocated for in our interactions with policy makers, trade associations, and research organizations. Through these interactions and meetings, FMC is able to discuss and ensure the company's common approach to climate change is consistent.

Further Information

CC3.1

Did you have an emissions reduction or renewable energy consumption or production target that was active (ongoing or reached completion) in the reporting year?

Intensity target

CC3.1b

Please provide details of your intensity target

ID So	cope	% of emissions in scope	% reduction from base year	Metric	Base year	Normalized base year emissions covered by target	Target year	Is this a science-based target?	l Comment
Scop Int1(loca based	be 1+2 ation- d)	100%	15%	Metric tonnes CO2e per metric tonne of product	2013 1	00	2025	No, and we do not anticipate setting one in the next 2 years	Within the 2015 reporting year, FMC developed and set a target to reduce the greenhouse gas intensity in our manufacturing operations by 15% from our 2013 baseline year levels by 2025. This 2025 goal includes our scope 1 and scope 2 (location-based) emissions.

CC3.1c

Please also indicate what change in absolute emissions this intensity target reflects

ID	Direction of change anticipated in absolute Scope 1+2 emissions at target completion?	% change anticipated in absolute Scope 1+2 emissions	Direction of change anticipated in absolute Scope 3 emissions at target completion?	% change anticipated in absolute Scope 3 emissions	Comment
Int1Decrease		15			Within the past year, FMC established a 2025 emissions reduction goal for our operations, which is to decrease our greenhouse gas (GHG) intensity by 15 percent. The amount of absolute emissions is highly dependent upon FMC's product production level, which could change the level of our absolute emissions.

CC3.1e

For all of your targets, please provide details on the progress made in the reporting year

% complete ID (time)	e % complete (emissions or renewable energy)	Comment
Int125%	2%	FMC's emissions intensity decreased in 2016 to 0.88 from our 2013 energy intensity of 0.90. We set our 2025 target to reduce our greenhouse gas intensity by 15 percent based on our 2013 emissions baseline year.

CC3.2

Do you classify any of your existing goods and/or services as low carbon products or do they enable a third party to avoid GHG emissions?

Yes

CC3.2a

Please provide details of your products and/or services that you classify as low carbon products or that enable a third party to avoid GHG emissions

Level of aggregation	Description of product/Group of products	Are you reporting low carbon product/s or avoided emissions?	Taxonomy, project or methodology used to classify product/s as low carbon or to calculate avoided emissions	% revenue from low carbon product/s in the reporting year	% R&D in low carbon product/s in the reporting year	Comment
Group of products	FMC has started to build a strong biological product and technology portfolio through BioSolutions. This portfolio is one component of FMC's comprehensive Plant Health platform, which is dedicated to advancing plant yields using biological active ingredients and microbes, which protect and stimulate crops using products derived from natural bacteria found in plants and soil, seed treatments that use bacteria to protect the seed and nurture an emerging plant once in the ground, and plant nutrition, which adds basic nutrients to the soil to ensure optimal conditions for healthy crop growth. FMC's biologicals include Fracture (a fungicide derived from sweet lupine plants), VGR Soil Amendment (a strain of the beneficial bacterium Bacillus licheniformis that creates an improved living seedbed to help increase root system size), and Ethos XB (an insecticide/fungicide that protects corn from a broad spectrum of seedling diseases). This group of products and technologies allows for several environmental advantages for growers, including water savings up to 17%, increased average product yield by 9.5 corn bushels per acre, and decreased applications and passes over crop fields that allow for less energy consumption and avoided emissions. We are following the	Avoided emissions	Addressing the Avoided Emissions Challenge- Chemicals sector	1.7%	More than 60% but less than or equal to 80%	1.7% percent of FMC's Agricultural Solutions' revenue is made up of this sustainably advantaged group of products. In 2012, FMC established its first set of long-term sustainability targets in safety, R&D and community engagement. We have achieved significant progress while planning how FMC can contribute to a more sustainable future. One of these goals was to increase the percentage of our R&D spend on new solutions that positively impact FMC's five identified major global challenges climate change, scarce resources, land competition, environmental consciousness and food and health expectations that we can address with our products and technologies. Success in this area indicates that FMC is developing products that ensure more sustainable options for our customers. As of 2016, 76% of FMC's R&D spend was on sustainably advantaged products, which

Climate Bonds Initiative and the

work to further differentiate our

sustainably-advantaged products that

development of the Initiative's sectorspecific taxonomy for Agriculture,

Forestry & Other Land Use (AFOLU). As

carbon product are further refined, we will

the parameters of what constitutes a low

are products that address one

major global challenges with

technologies. To build on our

success in this area, we are

R&D budget to develop

dedicating 80 percent of our

of FMC's five identified

our products and

Level of aggregatior	Description of product/Group of products	Are you reporting low carbon product/s or avoided emissions?	Taxonomy, project or methodology used to classify product/s as low carbon or to calculate avoided emissions	% revenue from low carbon product/s in the reporting year	% R&D in low carbon product/s in the reporting year	Comment
	address climate change, scarce resources, land competition, environmental consciousness and food and health expectations from each other.					sustainably-advantaged products by 2020. This focus will ensure a pipeline of improved products far into the future.
Product	One product and technology that FMC has developed, 3RIVE 3DTM, helps to meet the challenge of feeding the world's growing population with its new 3RIVE 3DTM applicator, which is an efficient and sustainable method of applying crop protection products during planting. In 2016, FMC finalized the commercial on- planter application technology that minimizes labor, water use and fuel use. The patent-pending formulation and delivery system uses small amounts of water and expands the product three- dimensionally to cover 50 times more area than traditional formulations. This technology allows growers to plant and protect up to 500 acres on a single fill-up of the system and use 90 percent less water than traditional liquid delivery systems. FMC is formulating and testing several active ingredients with this technology, including FMC's biological products. We are following the Climate Bonds Initiative and the development of the Initiative's sector-specific taxonomy for Agriculture, Forestry & Other Land Use (AFOLU). As the parameters of what constitutes a low carbon product are further refined, we will work to further differentiate our sustainably-advantaged products that address climate change, scarce resources, land competition, environmental consciousness and food and health expectations from each other.	Avoided remissions	Addressing the Avoided Emissions Challenge- Chemicals sector	1.7%	More than 60% but less than or equal to 80%	1.7% of FMC's Agricultural Solutions' revenue is made up of this sustainably advantaged group of products. In 2012, FMC established its first set of long-term sustainability targets in safety, R&D, and community engagement. We have achieved significant progress while planning how FMC can contribute to a more sustainable future. One of these goals was to increase the percentage of our R&D spend on new solutions that positively impact FMC's five identified major global challenges climate change, scarce resources, land competition, environmental consciousness and food and health expectations that we can address with our products and technologies. Success in this area indicates that FMC is developing products that ensure more sustainable options for our customers. As of 2016, 76% of FMC's R&D spend was on sustainably advantaged products, which are products that address one of FMC's five identified major global challenges with our products and technologies. To build on our success in this area, we are dedicating 80 percent of our

R&D budget to develop sustainably-advantaged

Level of aggregatio	n Description of product/Group of products	Are you reporting low carbon product/s or avoided emissions?	Taxonomy, project or methodology used to classify product/s as low carbon or to calculate avoided emissions	% revenue from low carbon product/s in the reporting year	% R&D in low carbon product/s in the reporting year	Comment
						products by 2020. This focus will ensure a pipeline of improved products far into the future.
Group of products	FMC Lithium produces a number of products from lithium inputs. Lithium hydroxide is a raw material used to produce the highest energy-density lithium ion batteries for energy storage applications, especially for electric vehicle batteries. FMC Lithium's butyllithium is used to create more fuel efficient tires that reduce gas consumption and greenhouse gas emissions produced from vehicles that use tires made with butyllithium. We also produce lithium for our customers to produce aluminum alloys for lighter- weight airplanes, which consume less jet fuel and produce fewer greenhouse gas emissions. FMC Lithium products are considered low carbon products according to the Climate Bonds Taxonomy, as they address increasing energy efficiency and energy storage.	Avoided emissions	Climate Bonds Taxonomy	325%	More than 60% but less than or equal to 80%	More than 60% but less than or equal to 80% Comment: 25 percent of FMC Lithium revenue is comprised of low carbon products within the 2016 reporting year. FMC is providing new lithium applications in a range of industries. We provide lithium to the aluminum industry for lithium aluminum alloys in lighter weight aircraft and aerospace applications. FMC's battery grade lithium is used in residential energy storage power packs, which can be used to support renewable energy sources. Increasing the use of energy storage for renewable energy owill allow for avoided emissions from fossil fuel energy sources. As of 2016, 76% of FMC's total R&D spend was on sustainably advantaged products, which are products that positively impact one of FMC's major global challenges, which are climate change, scarce resources, environmental consciousness, land competition, and food and health expectations. To build on our success in this area, we are dedicating 80 percent of our R&D budget to develop sustainably-advantaged products by 2020.

CC3.3

Did you have emissions reduction initiatives that were active within the reporting year (this can include those in the planning and/or implementation phases)

Yes

CC3.3a

Please identify the total number of projects at each stage of development, and for those in the implementation stages, the estimated CO2e savings

Stage of development	Number of projects	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	8	
To be implemented*	10	361
Implementation commenced*	23	8724
Implemented*	18	2176
Not to be implemented	4	

CC3.3b

For those initiatives implemented in the reporting year, please provide details in the table below

Activity type	Description of activity	Estimated annual CO2e savings (metric tonnes CO2e)	Voluntary/ Scope Mandatory	Annual monetary savings (unit currency as specified in CC0.4)	Investment required (unit currency - as specified in CC0.4)	Paybacl period	Estimated lifetime o the initiative	l ^f Comment
Other	Since 2012, FMC Agricultural Solutions in Brazil has continuously sought more sustainable packaging options. Since 2012, we have sourced "Green Bottle" packaging, which is composed of at least 51 percent sugarcane-based polyethylene. From 2012 to 2016, purchasing Green Bottles allowed FMC to avoid 3,520 tons of CO2 that would have been associated with 100 percent petroleum-based packaging. In addition to the Green Bottles, we use recycled bottles that are composed of at least 85 percent recycled polyethylene. Using these recycled bottles instead of virgin plastic materials allowed FMC to	2565	Scope 3 Voluntary	0	0	<1 year	Ongoing	The main costs associated with the Green Bottles and packaging recycling investments is mainly the labor of the companies involved (FMC, partners and suppliers). They had small investments to adequate their plants but not relevant. There

Activity type	Description of activity	Estimated annual CO2e savings Sco (metric tonnes CO2e)	Annual monetary savings Voluntary/ ope Mandatory as specified in CC0.4) Annual required (unit (unit (unit (unit (unit (unit (unit (unit (unit (unit (unit (unit) (u
		CO2e)	in CC0.4)

avoid over 1,600 tons of GHG over the three-year period. We have also used 100 percent recycled polypropylene bottle caps since 2015. However, these more sustainable packaging options comprised only 20 percent of packaging used in FMC Brazil leading into 2016. As a result, the decision was made to advance FMC's Green Bottle packaging in 2016. FMC worked to decrease the cost of the Green Bottle packaging from 18% to only 3% higher costs from non-Green Bottles (bottles made of 100% Polyethylene fossil). We have worked to generate cost savings in other areas with our packaging suppliers to reduce the increased cost impact of the Green Bottles. By 2018, we plan to shift to using 100 percent of packaging in the region to these more sustainable options including 85 percent Green Bottles and 15 percent recycled bottles. In 2017 and 2018, we will capture GHG in 47% more than past 5 years. Our 2016 commitment is estimated to reduce 2,154 tons of CO2 in 2017 and an estimated total of 5,162 tons of CO2 by 2018. With the success of this packaging project in Brazil, FMC is investigating how best to extend this project to EMEA and other regions in which FMC operates.

CC3.3c What methods do you use to drive investment in emissions reduction activities?

Method

Compliance with

regulatory

We are conscious of compliance with regulatory requirements and standards. For example, FMC switched the fuel source to natural gas at its facility in Rockland, Maine, United States. A regulation on sulfur emissions in Maine will come into effect in 2017-2018. FMC voluntarily switched the fuels source of this facility from No. 6 fuel oil to compressed natural gas prior to the new regulation for financial and requirements/standards environmental reasons.

Comment

is no cost to

FMC regarding

this project as

increases were

covered by cost

savings in other

any cost

areas.

Method	Comment
Internal incentives/recognition programs	On an annual basis, FMC recognizes its employees' contributions to EHS and sustainability. They are eligible to be nominated for two awards for their achievements in these areas. FMC's President's Award recognizes the exceptional performance and/or improvement of a plant location, laboratory, and business unit or staff functional department within a Group/Business in the areas of EHS and sustainability. FMC also has a Chairman's Award that recognizes employees or small groups within the company for outstanding achievements and leadership in the areas of EHS and Sustainability.
Other	FMC has a dedicated budget for process improvements at its established Technical Centers, which conduct research in energy efficiency and emissions reductions activities. The Technical Centers perform energy audits and process improvement at FMC facilities and findings from these audits are implemented at other FMC locations as needed.
Dedicated budget for low carbon product R&D	In 2012, FMC established its first set of long-term sustainability targets in safety, R&D, and community engagement. We have achieved significant progress while planning how FMC can contribute to a more sustainable future. One of these goals was to increase the percentage of our R&D spend on new solutions that positively impact FMC's five identified major global challenges climate change, scarce resources, land competition, environmental consciousness and food and health expectations that we can address with our products and technologies. Success in this area indicates that FMC is developing products that ensure more sustainable options for our customers. As of 2016, 76% of FMC's R&D spend was on sustainably advantaged products, which are products that address one of FMC's five identified major global challenges with our products and technologies. To build on our success in this area, we are dedicating 80 percent of our R&D budget to develop sustainably-advantaged products by 2020. This focus will ensure a pipeline of improved products far into the future.

Further Information

Page: CC4. Communication

CC4.1

Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s)

Publication	Status	Page/Section reference	Attach the document	Comment
In mainstream reports (including an integrated report) but have not used the CDSB Framework	Complete	FMC 2016 Annual Report: 10-K PDF, Pg. 9 (Risk factors: eClimate change regulation), Pg. 30 (Contingencies: Climate change)	https://www.cdp.net/sites/2017/27/23227 /Climate Change 2017/Shared Documents/Attachments/CC4.1/FMC 2016 Annual Report.pdf	FMC included the company's potential risks and impacts from climate change regulation as well as the environmental impacts from climate change in the company's 2016 Form 10-K. As we stated in the 10-K, we continually assess our manufacturing sites worldwide for regulation, physical parameters, and other climate-related developments that may impact the company. We also included actions we are taking to address climate change now and in the future. FMC has 2025 goals to reduce our energy intensity and greenhouse gas (GHG) intensity both by 15% from our 2013 baseline year.

Publication	Status	Page/Section reference	Attach the document	Comment
In mainstream reports (including an integrated report) but have not used the CDSB Framework	Complet	FMC's 2016 Sustainability eReport, pgs. i,1, 2, 5, 6, 7, 8, 20, 23	https://www.cdp.net/sites/2017/27/23227 /Climate Change 2017/Shared Documents/Attachments/CC4.1 /FMC_2016_Sustainability_Report.pdf	Climate change and FMC's greenhouse gas emissions performance are disclosed in our 2016 Sustainability Report, "Built for Progress." The report details our progress on achieving our 2020 goals for safety, innovation and community engagement as well as our progress on our 2025 goals to improve our environmental performance and position the company for long-term success. Since 2011, sustainability has become an integral part of our business and operations strategy as we strive to impact five major global challenges, which are climate change, environmental consciousness, scarce resources, land competition, and food and health expectations. Our commitment to addressing these challenges and our long-term sustainability targets will hold us accountable to address these challenges. Both ensure that by 2025, FMC will have decreased its environmental footprint while continuing to innovate and develop valuable products that benefit society and address climate change.
In mainstream reports (including an integrated report) in accordance with the CDSB Framework	Complet	FMC's Climate eChange Statement	https://www.cdp.net/sites/2017/27/23227 /Climate Change 2017/Shared Documents/Attachments/CC4.1/FMC Cliamte Change Statement.jpeg	In FMC's Climate Change Statement, we recognize that climate change is a critical global issue. We acknowledge the scientific research on climate change, state our position on this issue and provide information on how we are addressing it. As a global corporate citizen, FMC is concerned about the short- and long-term consequences of climate change and is taking action by committing to reduce its energy and greenhouse gas intensities 15 percent by 2025. To achieve these goals, FMC is continually assessing its manufacturing sites for opportunities for sustainable energy sourcing and increasing energy efficiencies. We are also working to improve our existing product lines and to develop new technologies that help to mitigate climate change. To spur even greater progress in addressing climate change, we are collaborating with FMC's suppliers to reduce energy consumption throughout the supply chain and partnering with customers, suppliers, and contractors to improve their energy efficiencies and to reduce greenhouse gas emissions.
In mainstream reports (including an integrated report) but have not used the CDSB	Complet	FMC's esustainability website	https://www.cdp.net/sites/2017/27/23227 /Climate Change 2017/Shared Documents/Attachments/CC4.1/FMC Sustainability Website Homepage 2017.jpeg	FMC updates its sustainability website (www.fmcsustainability.com) with sustainability and climate change-related information regularly. Actions the company and its employees are taking to address these issues are published on the blog, "Sustainability + You." The blog invites employees and stakeholders to submit stories and information on how they are creating a more

Publication	Status	Page/Section reference	Attach the document	Comment
Framework				sustainable future within and outside of FMC.
In mainstream reports (including an integrated report) but have not used the CDSB Framework	Complete	FMC's 2016 submission to CDP Climate Change	https://www.cdp.net/sites/2017/27/23227 /Climate Change 2017/Shared Documents/Attachments/CC4.1/FMC 2016 CDP CC Response on FMC Sustainability Website.jpeg	FMC has included its 2016 submission to CDP's climate change program on the company's sustainability website in order to inform the public on the actions FMC has taken to address climate change since 2012.

Further Information

Module: Risks and Opportunities

Page: CC5. Climate Change Risks

CC5.1

Have you identified any inherent climate change risks that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

Risks driven by changes in regulation Risks driven by changes in physical climate parameters Risks driven by changes in other climate-related developments

CC5.1a

Please describe your inherent risks that are driven by changes in regulation

Risk driver	Description	Potential , impact	Direct, Fimeframe Indirec	/ Likelihoo t	dMagnitude of impact	Estimated financial implications	Management method	Cost of management
Cap and trade schemes	FMC is currently subject to the European Union (EU) Emission Trading Scheme (ETS), which has a Igoal to reduce greenhouse gas semissions by 43 percent by 2030 from 2005 emission levels. Started in 2005, the EU ETS was designed to be implemented in a	Increased operational cost	to 3 years Direct	Virtually certain	Low	The potential impacts of proposed or established cap and trade schemes on different FMC locations around the world are similar. Requirements of cap and trade schemes may result in	FMC continues to follow legislative and regulatory developments regarding climate change because the regulation of greenhouse gases, depending on their nature and scope, could subject FMC	Depending on the yet-to-be determined requirements of cap-and-trade schemes of the EU ETS's Phase IV and China's cap-and-trade scheme, a percentage of FMC's revenues in EMEA and Asia (\$783.4 million) and

Risk driver	Description	Potential impact	Direct/ Timeframe Indirect of impact	Estimated financial implications	Management method	Cost of management
	series of four phases.					Asia Dasifia
	The third phase					Asia Pacific (\$708.5 million)
	(2013-2020) of the					(\$/98.5 IIIIII0II)
	EU ETS is currently					imposted EMC
	in effect and the			increased costs	monufacturing	has and will
	emissions			of aparay	operations to	and will
	allowances decline			increased costs	operations to	implement
	by 1.74 percent			for purchasing	or limits on	energy and
	annually. As of now,			amissions	operations	process
	each member nation			allowances and	EMC has also	efficiency
	participating in the			additional	set an overall 15	projects to
	EU ETS sets the cap			capital costs for	percent energy	reduce our
	and distributes free			emissions	intensity	energy
	emissions			controls or new	reduction goal	consumption
	allowances. FMC's			equipment At	By reducing our	and GHG
	Ronland, Denmark			this point in	emissions of	emission
	plant is subject to the			time our plant	greenhouse	generation
	EU ETS and is			in Denmark is	gases and	FMC has a
	below Phase III's			below the EU	investing in	dedicated
	emissions cap. In			ETS designated	energy and	budget for
	2021, Phase IV of			emissions can	process efficient	process
	the EU EIS will			for the EU ETS	equipment for	improvements at
	come into effect and			Phase III. The	our	its established
	allowances will			potential	manufacturing	Technical
	decrease by 2.2			financial	facilities for	Centers, which
	from 2021 to 2020			implications of	2025, we lessen	conduct research
	Our Popland			complying with	the likelihood of	in energy
	Donmark plant will			a lower cap will	a material risk	efficiency and
	continue to be			be determined	from	emissions
	subject to the FU			as the Phase IV	greenhouse gas	reductions
	ETS and the new			of the EU ETS	legislation. The	activities. The
	emissions limits in			is finalized in	Technical	Technical
	Phase IV may			2021. Each	Centers for our	Centers perform
	increase costs at this			member country	three businesses	energy audits
	nlant depending on			of the EU ETS	(Agricultural	and process
	the new EU-wide			sets the	Solutions,	improvement at
	emissions cap and			emissions cap	Health and	FMC facilities
	the cost of procuring			and the price of	Nutrition, and	and findings
	allowances.			allowances.	Lithium)	from these
	Additionally, China			Consequently,	conduct	audits are
	is in the process of			the costs of	research on and	implemented at
	expanding the			complying with	implement	other FMC
	implementation of			future cap and	energy	locations as
	the country's cap			trade schemes'	efficiency and	needed. FMC's
	and trade program			requirements	emissions	total annual
	across the country in			are difficult to	reductions	investment in
	order to limit			estimate at this	activities at our	the technical
	emissions. General			time.	tacilities.	centers can
	environmental					range, from
	regulations in China					approximately
	and the country's					\$30 to \$35
	cap-and-trade					million.

program are

Rick		Potential	Timeframe Direct/	dMagnitude	Estimated	Management	Cost of
driver	Description	impact	Indirect	of impact	financial	method	management
				01 p	implications		
	designed to improve						
	air quality and the						
	environment and						
	they are quickly						
	becoming more						
	prevalent throughout						
	the country. FMC						
	realizes the potential						
	impacts on the						
	company's						
	operations due to						
	government's recent						
	increased focus on						
	improving the						
	country's						
	environmental						
	conditions.						
	Environmental						
	regulations have the						
	potential to increase						
	the costs of active						
	ingredient contract						
	manufacturing						
	companies that						
	produce our active						
	ingredients.						
	Depending on how						
	additional countries						
	implement cap and						
	trade in the long-						
	term, FMC could						
	potentially need to						
	increase capital						
	investment in						
	emission reduction						
	technology to reduce						
	its GHG emissions.						

CC5.1b

Please describe your inherent risks that are driven by changes in physical climate parameters

Risk driver	Description	Potential impact	Timefram	Direct Indirec	/ Likelihood ct	dMagnitude of impact	Estimated financial implications	Management method	Cost of management
Induced changes in natural resources	According to the U.S. Global Change Research Program's National	Reduction/disruptior in production capacity	n >6 years	Direct	Likely	Medium	As noted in the International Panel on Climate Change Fifth	FMC has diversified its raw material sourcing locations to reduce	FMC has diversified its raw materials sourcing for our businesses, and the

Risk driver	Description	Potential impact	Direct/ Likeli Timeframe Indirect	hoodMagnitude of impact	Estimated financial implications	Management method	Cost of management
	Climate				Assessment	potential	estimated cost
	Assessment,				Report,	impacts of	of
	climate change				quantitative	changing	management
	is projected to				estimates to	natural	of this issue is
	cause many				measure the	resources. If	part of our
	changes in				private costs	we are unable	business
	physical climate				of climate	to source from	operations and
	parameters.				change may	our current	expenditures.
	These include				be	locations, we	FMC has
	increases in				incomplete	can increase	allocated over
	extreme weather				due to	sourcing	76% of its
	events as well as				difficulty in	elsewhere. We	2016 R&D
	changes in sea				measuring all	lare examining	spend on
	levels, mean				relevant	options to	developing
	temperatures,				effects over	protect our	sustainably
	precipitation				time. FMC	resources and	advantaged
	levels and				Health and	sites close to	products,
	precipitation				Nutrition's	sea level	which are
	patterns. The				potential	against sea	products that
	these physical				immed af	level changes	address global
	nese physical				changes in	and stronger	chanenges like
	could have				natural	like at our	concerns
	significant				resources	Ronland	scarce
	impacts on				depend on	Denmark site	resources food
	natural				the	plans to	and health
	resources in the				geographic	strengthen its	expectations.
	locations in				range, time	dike system.	land
	which FMC				frame and	To mitigate	competition or
	operates.				severity of	potential risks	environmental
	Several FMC				the changes.	to water	consciousness.
	properties are at				Our raw	quality and	FMC can
	or near sea level.				materials	supply, we	impact these
	Dramatic				sourcing	conducted a	challenges
	changes in sea				from some	Water Risk	with our
	levels and more				seaweed and	Assessment in	products and
	intense storm				pulp	2013 that	technologies
	surges could				sourcing	compared our	as well as by
	cause a need to				locations	sites' water	decreasing our
	protect both				could be	use with the	operations
	these natural				impacted. If	World	environmental
	EMC properties				changes are	Resources	have set a
	from storm				significant in	A quaduat TM	2020 goal to
	surges and				term it	water manning	2020 goal to
	flooding Our				would pose a	tool A	nercentage of
	Health and				risk to our	Lithium site in	our R&D
	Nutrition				production	Minera del	spend to 80
	business				capacity.	Altiplano.	percent or
	depends on				FMC could	Argentina	more on
	sourcing natural				experience	indicated a	developing
	materials for its				higher costs	need to better	sustainably
	products, like				with	understand	advantaged
	seaweed for				adapting to	potential	products.

Risk driver	Description	Potential impact	Direct/ Likelihood Timeframe Indirect	lMagnitude of impact	Estimated financial implications	Management method	Cost of management
driver	Description carrageenan and alginates, wood pulp for microcrystalline cellulose and fish stocks for omega-3 fish oils. The interaction of the projected changes in the physical parameters listed above has the potential to disrupt and/or reduce our Health and Nutrition business' supply and production capacity. FMC Lithium also faces some risk with induced changes in natural resources. Changes in mean temperature have the potential to increase water scarcity in many parts of the world, and our raw materials sourcing operation depends on access to water. Induced changes in natural resources from climate change	Potential impact	Timeframe Indirect	of impact	financial implications sea level rise storm surges and changes in natural resources as we will need to fortify our sites near sea level. The percentage of Health and Nutrition's and Lithium's revenue that would be impacted would depend on the severity of changes in natural resources. (Health and Nutrition's 2016 revenue was USD\$743.5 million and Lithium's 2016 revenue was USD\$264.1 million.)	method future water instability. We modeled the system to develop conservancy and contingency strategies to ensure long- term water availability. In 2015, we updated the assessment and created a 2025 goal to reduce water use in water scarce areas by 20 percent from our 2013 baseline.	management
	the risk of disruptions in production						
	capacity. FMC Lithium could experience						

increased costs

Risk driver	Description	Potential impact	Timefram	Direct/ Likelihood Indirect	lMagnitude of impact	Estimated financial implications	Management method	Cost of management
	in sourcing its raw materials as we take steps to mitigate this risk.							
Induced changes in natural resource	Induced changes in natural resources could be both a risk and an opportunity for FMC's Agricultural Solutions business depending on the geographic location and the severity of climate change impacts on our customers. The National Climate Assessment projects that growers in many regions will face growers in many regions will face impacts on crop yields and slivestock development because of changes in growing seasons, insect vectors and species distributions due to increasing extreme weather, changing mean temperatures, precipitation patterns and mean precipitation levels. FMC Agricultural Solutions	Reduced demand for goods/services	>6 years	Indirect (Client) Likely	Medium	As noted in the International Panel on Climate Change Fifth Assessment Report, quantitative estimates measuring private costs of climate change may be incomplete due to the difficulty in measuring al relevant effects over time. FMC Agricultural Solutions could be impacted by changes in natural resources. If impacts on growers are significant and FMC did not have products in the market to address these impacts, then it could be a material risk to our business. The financial impact on our Agricultural	FMC Agricultural Solutions helps growers increase crop yields in areas impacted by changes in physical parameters by supplying insecticides for insect control, herbicides for weed control in crops and soil, flungicides for disease control, and biologicals, which are materials originating from renewable plant or natural microbial sources. FMC's biologicals have a lower environmental impact and car increase crop yields by up to 9.5 bushels per acre of corn compared to yields from untreated fields. FMC has developed 3RIVE 3DTM	FMC allocated over 76 percent of 2016 R&D spend on developing sustainably advantaged products, which address global challenges like climate change, scarce resources, land competition, environmental consciousness and food and health expectations. FMC can impact these challenges by decreasing our operations' environmental footprint and by providing customers with our products and technologies to mitigate and adapt to mitigate and adapt to mitigate from climate ochange. We are risk of induced changes in natural resources in two ways. We have set 2025 goals to reduce

Risk driver	Description	Potential impact	Direct/ Likelihood Timeframe Indirect	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	agricultural products and technologies to help growers combat the effects of these changes on their crops and we could experience greater market uncertainty because an increase in unpredictable growing conditions would negatively affect our customers. The severity and extent of induced changes in natural resources would affect our customers and in turn, it could affect their need for our products and technologies. Agricultural Solutions could experience a decrease in demand if our products and technologies do not align with the solutions that growers need.				and our customers is difficult to project at this point in time because of the difficulty in estimating the potential costs to our growers in different geographic locations, in what time frame and the severity of impacts. The percentage of Agricultural Solutions' revenue that would be impacted would depend on the severity of the changes in natural resources. (Agricultural Solutions' 2016 revenue was \$2.3 billion.)	meet the challenge of feeding the world's growing population with its efficient method of applying crop protection protection products during planting. In 2016, FMC finalized the commercial on-planter application technology that minimizes labor, water use and fuel use. The patent-pending formulation and delivery system uses small amounts of water and expands the product three- dimensionally to cover 50 times more area than traditional formulations. It allows growers to plant and protect up to 500 acres on a single fill-up of the system and use 90 percent less water than traditional liquid delivery systems. FMC	GHG and waste intensities by 15 percent and our water use intensity by 20 percent in water scarce areas. We also set a 2020 goal to increase the percentage of our R&D spending to 80 percent or more on developing sustainably advantaged products. Therefore, the estimated cost of management of managing changes in natural resources by developing new products is part of our business operations and expenditures.
						and testing	

25 of 60

active

Risk driver	Description	Potential impact	Timefram	Direct/ Likelih ^e Indirect	oodMagnitude of impact	Estimated financial implications	Management method	Cost of management
							ingredients	
							with this	
							technology,	
							including	
							biological	
							products. We	
							will add	
							products that	
							aid growers in	
							fighting new	
							invasive	
							species of	
							weeds, insects	
							and plant	
							diseases to	
							replace	
							potential	
							decreases in	
							the sales of	
							products that	
							proforable to	
							preferable to	
							customers.	

CC5.1c

Please describe your inherent risks that are driven by changes in other climate-related developments

Risk driver	Description	Potential impact	Timeframe I Iı	Direct/] ndirect	Likelihood	Magnitude of impact	Estimated financial implications	Management method	Cost of management
Changing consumer behavior	Climate change and its impacts have the potential to induce changes in customer preferences for products and/or services. People are increasingly concerned about the environment and the impact that companies' products and operations have on the environment. In the future, some consumers' preferences could	Reduced demand for goods/service:	>6 years D s	Direct	Likely	Medium	The potential risks associated with changing consumer behavior depend on the time frame and extent to which consumers decide to switch to products they perceive as "greener" or more "climate- friendly" because of increased concern for	FMC actively addresses risks from major global challenges through the use of our products and technologies We increased our R&D spending on developing sustainably advantaged products to 76 percent in 2016 and committed to a 2020 goal to increase our R&D spending to 80 percent so we can address	The cost of managing changing consumer behavior is difficult to predict and quantify over time to include in an overall strategy. We do track changes affecting customer preferences and are conscious of changing consumer preferences

Risk driver	Description	Potential impact	Timeframe Direct/ Likelihood Magnitude Indirect of impact	e Estimated financial implications	Management method	Cost of management
Risk driver	Description	Potential impact	Timeframe Direct/ Likelihood di impact	e Estimated financial implications society's negative impacts on the environment. The financial impacts on FMC will also depend on our product portfolio and our ability to adapt our products with changing consumer behavior. The actual financial implications are difficult to quantify and could change over time. The risk of changing consumer behavior has the potential to impact a percentage of FMC's sales of its Agricultural Solutions products, which was \$2.3 billion in 2016. Losses in product sales could be compensated	Management method	Cost of management
	consumption of meat to lessen their individual impact on the			2016. Losses in product sales could be compensated	within our communities and we committed to a 2020 goal to	2020 goal to increase this percentage of spend to 80
	environment and climate change. As a result, FMC's customers could experience a decreased			by increased sales of our sustainably advantaged products,	increase our community engagement score to 100. These engagement	percent.
	demand for livestock, leading to a decreased demand for FMC's agricultural			including biologicals and technologies.	efforts and developing sustainably advantaged products help to increase	

Risk driver	Description	Potential impact	Timeframe Direct/ Likelihood Indirect	Magnitude of impact	Estimated financial implications	Management method	Cost of management
	products used to grow animal feed from corn and soybeans. Depending on the extent to which consumers and our customers' preferences change and our ability to adapt our portfolio to these changing preferences, our product sales and revenue could be impacted.					consumer's knowledge of FMC and our role in reducing climate change.	

Further Information

Page: CC6. Climate Change Opportunities

CC6.1

Have you identified any inherent climate change opportunities that have the potential to generate a substantive change in your business operations, revenue or expenditure? Tick all that apply

Opportunities driven by changes in regulation

Opportunities driven by changes in physical climate parameters

Opportunities driven by changes in other climate-related developments

CC6.1a

Please describe your inherent opportunities that are driven by changes in regulation

Opportunity driver	Description	Potential impact	TimeframeDirect/Indirec	ctLikelihood	Magnitude of impact	Estimated financial implication	Management method s	t Cost of management
Other regulatory drivers	FMC supports legislation that provides incentives for the development of renewable energy storage. The	Increased demand for existing products/service:	1 to 3 years Direct s	Likely	Low- medium	As more countries around the world and states make plans to reduce their carbon emissions, it is likely that additional legislation	FMC is a long-time leader in lithium research and innovation. We are working on the challenge of developing lithium products and	FMC has committed to increasing the percentage of R&D spending on developing sustainably advantaged products from 76

Onnortunit		Detential		Magnituda	Estimated	Managamant	Cost of
Opportunit	^y Description		TimeframeDirect/IndirectLikelihood		financial	Management	
driver	-	impact		of impact	implications	, method	management
	Paris				will be	applications	
	climate				enacted to	that improve	
	agreement				encourage	battery	
	signed at the				consumers	performance.	
	COP21				to purchase	We are	
	Conference				fuel-efficient	currently	
	was highly				and electric	researching	
	significant				vahialas. For	now	
	significant						
	because .				example, the	applications	percent to
	companies				state of	of our lithium	over 80
	and 195				California is	products in a	percent by
	countries				often at the	range of	2020. Our
	pledged that				forefront of	industries.	strategic
	by 2050,				legislation to	FMC is the	position
	they will				reduce	only producer	depends on
	decrease				climate	of high-purity	our
	their				change.	lithium metal	sustainable
	greenhouse				California	in the	investments
	gas				has the	Western	that ansura
	emissions to				Clean	Hemisphere	
	limit the rise				Vehicle	It is used in	our company
	in global				Rebate	lithium	runs more
	tomporaturas				Project	aluminum	efficiently
							and
	to 2 degrees				which is an	alloys that	resiliently by
	Celsius from				incentive	strengthen an	2025. In
	1990 global				program that	aircraft's	order to do
	emissions'				offers	fuselage	so, we will
	levels. In				California	while also	proactively
	order to do				residents up	reducing its	address
	so, energy				to \$6,500 for	weight.	market,
	storage will				the purchase	Light-weight	climate and
	be needed to				of new,	materials	regulatory-
	hold excess				eligible	enable an	based risks
	supplies of				zero-	aircraft to be	and
	energy				emission or	more fuel	opportunities
	generated by				plug-in	efficient. Our	The cost of
	renewable				hybrid light-	battery grade	management
	and nuclear				duty	lithium is	
	sources				vehicles	used in	or this
	Sources.				There are	alaatria	regulatory
	Stored				There are	vahialas and	opportunity
	energy can				potential	venicies and	driver is
	be used to				regulations	residential	currently
	cover the				that could	energy	factored into
	intermittent-				benefit FMC	storage	our business
	nature of				Lithium in	power packs,	strategy.
	renewable				the 1 to	which can	
	sources,				3-year time	also be used	
	short-term				frame as	to support the	
	demand				well as more	adoption of	
	spikes, and				potential	renewable	
	peak				regulations	energy	
	demand				beyond 3	sources. Over	
	times				vears	the next	
	Legislation				Consumers'	several veare	
	Legislation				Consumers	several years,	

Opportunity driver Description	Potential impact	TimeframeDirect/IndirectLikelihood of impact	Estimated financial implication	Management method	Cost of management
supporting research and development of energy storage, in particular lithium- based energy storage, would not only provide an opportunity for FMC Lithium, but also encourage the transition to renewable sources, thereby reducing climate change.			increasing preference for electric vehicles (EV) in addition to incentive programs has the potential to increase FMC's Lithium's lithium hydroxide sales. At FMC, we believe demand for lithium will grow more than 10 percent every year throughout the next decade.	FMC will increase its production capacity of lithium hydroxide by a total of 20,000 metric tons per year, in response to the strong demand for FMC's battery grade lithium hydroxide.	

CC6.1b

Please describe your inherent opportunities that are driven by changes in physical climate parameters

Opportunit	у	Potential	Timefram	e Direct/ Likelihoo	Magnitude	e Estimated	Management	Cost of
driver	Description	impact	T III CIT UIII	Indirect	" of impact	financial implications	method	management
Induced changes in natural resources	Climate change is predicted to cause more extreme weather conditions as well as changing temperatures, precipitation patterns and mean precipitation levels. The National	Increased demand for existing products/service	>6 years	Indirect (Client)	Medium	It is likely FMC Agricultural Solutions and its customers will be impacted by induced changes in natural resources from climate change. We ar investigating potential opportunities	FMC is well- positioned to help farmers overcome these threats and increase crop yields with its insecticides, fungicides, herbicides and biologicals, ewhich are materials originating from	FMC Agricultural Solutions has a well- diversified product portfolio that will help growers address climate- related impacts and will continue to innovate and add

Opportunit	y	Potential	Direct/ Magnitude	e Estimated	Management	Cost of
driver	Description	impact	Indirect of impact	financial implications	method	management
	Climate			to sell our	renewable	products to
	Assessment			agricultural	plant or	our portfolio
	projects that			products to	natural	as market and
	due to these			growers in	microbial	growing
	climate-related			northern	sources.	conditions
	changes,			latitudes of the	FMC's	change The
	growers in			United States,	biologicals	estimated cost
	many regions			where there	have a lower	of
	of the world			has been an	environmental	management
	will face			increase in	impact. For	of research
	potential			soybean and	example, our	and
	impacts on			corn	biologicals are	development
	crop yields and			production in	capable of	is part of our
	livestock			recent years.	helping	business
	development			As	farmers	operations and
	because of			temperatures	increase crop	expenditures.
	changes in			warm in states	yields of corn	FMC
	growing			like	by up to 9.5	increased its
	seasons,			Wisconsin,	bushels per	R&D
	diseases,			North Dakota	acre compared	spending on
	weeds, insect			and in the	to yields from	developing
	vectors and			Canadian	untreated	sustainably
	species			province of	fields. New	advantaged
	distributions.			Saskatchewan,	FMC crop	products to 67
	At the same			growers will	protection	percent of
	unie, growers			be able to	2DIVE 2DTM	total R&D
	produce more			soubeans and	SKIVE SD ^{***} ,	spending. We
	food and			corn Overall	protection	nave also set a
	increase their			the geographic	products by	2020 target to
	crop vields to			range, time	combining	noreastage of
	support global			frame and	patent-pending	our R&D
	population			significance of	formulation	spending to 80
	growth of			climate	technology	percent or
	approximately			impacts on	and	more on
	75 million			regions where	specifically-	developing
	people per			our customers	designed	sustainably
	year. FMC			are located	application	advantaged
	Agricultural			remain to be	technology. In	products and
	Solutions			determined. If	beta testing,	technologies
	provides			the impacts on	growers who	that address
	products and			growers are	use this	major global
	technologies			highly	technology	challenges
	that increase			significant and	with the	like climate
	crop yields			FMC has the	3RIVE 3D	change, scarce
	and/or water			right	applicator on	resources,
	which will			agricultural	crops con plant	land
	help to reduce			technologies in	as much as	competition,
	the effects of			the market to	500 acres	environmental
	climate change			address these	using 90% less	consciousness
	on growers			impacts, it	water while	anu 1000 dilu boolth
	and support			would be a	maintaining	expectations
	them in			significant	necessary crop	

Opportunity	V	_		e Estimated		~
driver	Description	Potential impact	Timeframe Likelihood Ingeneration Indirect of impact	financial implications	Management method	Cost of management
	meeting					
	increasing					
	food demand					
	Agricultural					
	Solutions will					
	continue to					
	davalop					
	agricultural					
	agricultural					
	technologies					
	designed to				protection.	
					Honored by	
	neip growers				Farm Industry	
	combat the				News as a	
	effects of				leading new	
	climate-related				technology in	
	changes on				2015 3RIVE	
	their crops.				3D has the	
	Depending on				potential to	
	how pervasive				significantly	
	the effects are				raduca labor	
	in different				time water	
	geographic				time, water,	
	locations				ruer use and	
	experiencing				greennouse	
	changes in				gases	
	natural			opportunity for	emissions	
	resources,			Agricultural	during	
	FMC's			Solutions.	planting	
	customers				operations. We	
	could be				have a well-	
	significantly				diversified	
	impacted.				product	
	FMC has a				portfolio and	
	well-				will continue	
	diversified				to add	
	portfolio that				products that	
	can help				aid growers in	
	growers adapt				fighting	
	to more				potentially	
	unpredictable				new invasive	
	growing				species of	
	conditions and				weeds, pests,	
	the effect these				insects and	
	types of threats				plant diseases.	
	to crops. For					
	example, as					
	temperatures					
	increase in the					
	Northern					
	Hemisphere.					
	crops like					
	sovbeans and					
	corn could be					

grown in more

Opportunit driver	y Description	Potential	Timefram	Direct/	Likelihood	Magnitudo 1 of impact	e Estimated financial	Management	Cost of
	2000-200	impact			•	or	implications	method	management
	northern latitudes, creating an opportunity for FMC to sell its agricultural products to promote plant health and development in new growing regions.								
Induced changes in natural resources	Climate change is projected to cause changes in physical climate parameters, including changes in sea levels, mean (average) temperature, temperature, temperature, temperature extremes, mean (average) precipitation levels and precipitation levels and precipitation patterns. These pr parameters will interact with each another and induce changes in natural resources, which would be an opportunity for FMC depending on the geographic region and the extent of the changes. FMC Health and Nutrition is exploring	creased oduction pacity	>6 years	Direct	More likely than not	Low- medium	The financial implications of induced changes in natural resources for our Health and Nutrition business would vary depending on the geographic range, time frame and severity of the changes. FMC Health and Nutrition has diversified its raw materials sourcing locations and is well positioned to begin sourcing its raw materials, like seaweed, from new areas that become available due to climate- related changes.	Projections of long-term physical changes have been influential in our business decisions. FMC Health and Nutrition has diversified the locations from which we source our raw materials like seaweed. For example, we have investigated potential new locations where seaweed could be grown and sustainably harvested. FMC has also developed strong relationships with our current seaweed suppliers, and we proactively work with seaweed farmers to gauge	FMC Health and Nutrition has diversified its raw materials sourcing, and we will continue to monitor changes and make changes in our procurement strategy as necessary. We have also investigated potential new opportunities for raw materials sourcing due to changes physical climate parameters. The estimated cost of management of diversification is part of our business operations and expenditures.

Opportunit driver	y Description	Potential impact	Direct/ Magnitude Timeframe Indirect of impact	Estimated financial implications	Management method	Cost of management
driver	Description potential opportunities for seaweed farming. Warming sea temperatures could allow seaweed to be farmed in new areas where sea temperatures were previously too cold. Other areas that currently experience too much precipitation for seaweed farming could become drier as climate change affects precipitation levels and patterns. Drier climates and longer harvesting seasons could increase seaweed	impact	Internante Indirect	financial implications	potential changes in their ability to sustainably source seaweed due to physical changes and to increase the resiliency of our supply chain. These management methods reduce the risk of disruptions in our supply chain and allow us to pursue new sourcing opportunities.	management
	capacity.					

CC6.1c

Please describe your inherent opportunities that are driven by changes in other climate-related developments

Opportunit driver	y Description	Potential impact	Direct Timeframe Indirec	/Likelihoo ct	dMagnitudo of impact	Estimated financial implications	Management method	Cost of management
Changing consumer behavior	As people become more aware of product impacts on the environment, they are	New products/business services	s1 to 3 years Direct	Likely	Medium	The potential opportunities associated with changing consumer behavior will	FMC Agricultural Solutions helps address growers' need for products with a lighter	FMC is actively addressing major global challenges like climate change, scarce

Opportunity		Direct/	JN	Estimated	M	Character C
driver	Description	Potential impact Interrame Indirect	of impact	financial implications	method	Cost of management
	demanding			depend on	environmental	resources land
	more natural			the	footprint in	competition
	and benion			timeframe	our biologicals	food and
	materials to			and extent to	products. One	health
	reduce			which	product can	expectations
	individuals'			consumers	increase corn	and
	impacts on the			decide to	vields by up to	environmental
	environment			switch to	9.5 bushels per	consciousness
	Changing			products they	acre compared	In 2016 we
	consumer			perceive as	to vields from	have dedicated
	behavior			"greener" or	untreated	76 percent of
	presents an			more	fields and our	our R&D
	opportunity for			"climate-	crop protection	spend to
	FMC to			friendly" out	technologies	developing
	develon			of increased	like 3RIVE	sustainably
	products that			concern for	3D TM	advantaged
	are less			society's	significantly	products and
	impactful on			negative	reduce labor	technologies
	the			impacts on	time water	and have
	environment			the	fuel use and	committed to
	and/or products	8		environment	GHG	increase this
	with a low-	,		How FMC	emissions in	percentage to
	carbon life			will benefit	planting	80 percent by
	cycle Growers			from these	operations	2020 A
	prefer			opportunities	FMC Health	sustainably
	agricultural			financially	and Nutrition	advantaged
	products with a	1		will depend	addresses	product
	lighter			on our ability	consumers'	addresses the
	environmental			to adapt our	changing	previously
	footprint and			products with	preferences	mentioned
	ones that			consumers'	and	major global
	reduce labor.			changing	environmental	challenges. By
	time, water.			behavior. As	concerns with	addressing
	fuel use and			noted in the	natural	these
	GHG			IPCC's Fifth	products and	challenges in
	emissions.			Assessment	differentiated	our R&D
	FMC			Report,	food and	spend for
	Agricultural			quantitative	health	developing
	Solutions has a			estimates	ingredients for	sustainably
	potential			measuring	healthier	advantaged
	opportunity to			the financial	lifestyles.	products and
	provide			impact of	FMC Lithium	technologies,
	products that			climate	develops	we are better
	fulfill these			change on	lithium	able to address
	consumer			companies	products for	potential
	preferences.			may be	improved	market and
	Consumers are			incomplete	battery	other-climate
	likely to			because of	performance.	related
	become more			difficulties in	We provide	developments,
	concerned			measuring all	lithium to the	including
	about how			relevant	aluminum	changing
	negative			climate-	industry for	consumer
	environmental			change	lithium	behavior. The
	impacts affect			effects over	aluminum	cost of these

Opportunity	7		Direct/		Estimated		
driver	Description	Potential impact	e Likelihood Indirect	Magnitude of impact	financial implications	Management method	Cost of management
	their health and						
	wellbeing on a						
	wendenig on a						
	As a result						
	As a result,						
	to choose						
	to choose						
	natural						
	they perceive						
	as better for the						
	as belief for the						
	anvironment						
	and for their						
	nersonal						
	health As					alloys used in	
	neann. As					lighter weight	
	develop and					aircraft and	
	neopla's					aerospace	
	incomes rise					applications.	
	consumers will					Our battery	
	expect greater				time. More	grade lithium	
	food variety				dramatic	is used in	
	that is healthiar				climate-	electric	
	and contains				change	vehicles and	
	recognizable				effects in the	residential	R&D
	ingredients				snort-term	energy storage	programs nas
	FMC Health				could	power packs.	already been
	and Nutrition				accelerate	FMC is	incorporated
	has a potential				proforma	tripling its	husinasa
	opportunity to				for EMC's	production	stratogy
	provide				sustainably	capacity of	strategy.
	products that				advantaged	lithium	
	fulfill these				products and	hydroxide by	
	consumer				technologies	20,000 metric	
	preferences.				teennorogies.	tons per year	
	Climate change					due to strong	
	and					demand for	
	environmental					our battery	
	responsibility					grade lithium	
	is one of the					hydroxide.	
	leading global						
	concerns today.						
	In 2015,						
	governments						
	worldwide						
	signed the						
	Paris climate						
	agreement at						
	the United						
	Nations'						
	COP21						
	Conference.						
	They agreed						

that fossil fuel

Opportunity driver	Description	Potential impac	Timefram	Direct/ e Indirect	oodMagnitude of impact	Estimated financial implications	Management method	Cost of management
	consumption and greenhouse gas emissions must be reduced. FMC Lithium addresses these needs by supplying lithium products that can be used in energy- efficient solutions that reduce climate change.	;						

Further Information

Module: GHG Emissions Accounting, Energy and Fuel Use, and Trading

Page: CC7. Emissions Methodology

CC7.1

Please provide your base year and base year emissions (Scopes 1 and 2)

Scope	Base year	Base year emissions (metric tonnes CO2e)
Scope 1	Tue 01 Jan 2013 - Tue 31 Dec 2013	325603
Scope 2 (location-based)Tue 01 Jan 2013 - Tue 31 Dec 2013	87578
Scope 2 (market-based)	Wed 21 Jun 2017 - Wed 21 Jun 2017	70

CC7.2

Please give the name of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

Please select the published methodologies that you use

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)

US EPA Mandatory Greenhouse Gas Reporting Rule

Please select the published methodologies that you use

Other

CC7.2a

If you have selected "Other" in CC7.2 please provide details of the standard, protocol or methodology you have used to collect activity data and calculate Scope 1 and Scope 2 emissions

FMC uses the International Energy Agency's CO2 Emissions from Fuel Combustion for our sites in the United States.

CC7.3

Please give the source for the global warming potentials you have used

	Gas	Reference
CO2		IPCC Fifth Assessment Report (AR5 - 100 year)
CH4		IPCC Fifth Assessment Report (AR5 - 100 year)
N2O		IPCC Fifth Assessment Report (AR5 - 100 year)
HFCs		IPCC Fourth Assessment Report (AR4 - 100 year)
PFCs		IPCC Fourth Assessment Report (AR4 - 100 year)
SF6		IPCC Fourth Assessment Report (AR4 - 100 year)
NF3		IPCC Fourth Assessment Report (AR4 - 100 year)

Other: Blended Refrigerants (R-401 - R-509)Other: ASHRAE Standard 34

CC7.4

Please give the emissions factors you have applied and their origin; alternatively, please attach an Excel spreadsheet with this data at the bottom of this page

Fuel/Material/EnergyEmission FactorUnit Reference

See attached Excel file for FMC's answer to CC7.4.

Further Information

See attached Excel file for FMC's answer to CC7.4.

Attachments

https://www.cdp.net/sites/2017/27/23227/Climate Change 2017/Shared Documents/Attachments/ClimateChange2017 /CC7.EmissionsMethodology/FMC Electric,Steam+GHG GWP Factors for 2017 CDP Submission.xlsx

Page: CC8. Emissions Data - (1 Jan 2013 - 31 Dec 2013)

CC8.1

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Financial control

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO2e

325603

CC8.3

Please describe your approach to reporting Scope 2 emissions

Scope 2, location-based	Scope 2, market-based	Comment
We are reporting a Scope 2, location-based figure	We have no operations where we are able to access electricity supplier emissions factors or residual emissions factors and are unable to report a Scope 2, market-based figure	
CC8.3a Please provide your gross g	global Scope 2 emissions figures in metric tonnes CO2e	
Scope 2, location-basedSco	pe 2, market-based (if applicable)Comment	

87578

0

CC8.4

Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

CC8.5

Please estimate the level of uncertainty of the total gross global Scope 1 and 2 emissions figures that you have supplied and specify the sources of uncertainty in your data gathering, handling and calculations

Scope	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
Scope 1	More than 10% but less than or equal to 20%	Data Gaps Assumptions Metering/ Measurement Constraints Data Management Other: Human error	FMC acquired Cheminova A/S in 2015, and as per the Greenhouse Gas Protocol, we excluded data from legacy Cheminova sites for one year. We are restating FMC's energy and greenhouse gas data to include manufacturing data from legacy Cheminova sites. As our data tracking system has matured over time, so has the level of certainty in the data. Therefore, historical data inherently includes more uncertainty that has been refined through more recent processes. There is potential uncertainty due to the inherent limitations of the measurement devices used to track emissions. Additionally, data is collected and manually entered into FMC's tracking and reporting process on a quarterly basis. Manual entry of data involves the potential risk of human errors and unintended mistakes while entering data into the system. There is also potential uncertainty in data gabs and assumptions due to possible oversight in our data system.

Scope	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
Scope 2 (location- based)	More than 10% but less than or equal to 20%	Data Gaps Assumptions Metering/ Measurement Constraints Data Management	FMC acquired Cheminova A/S in 2015, and as per the Greenhouse Gas Protocol, we excluded data from legacy Cheminova sites for one year. We are restating FMC's energy and greenhouse gas data to include manufacturing data from legacy Cheminova sites. As our data tracking system has matured over time, so has the level of certainty in the data. Therefore, historical data inherently includes more uncertainty that has been refined through more recent processes. There is potential uncertainty in our scope 2 (location-based) data as a result of assumptions due to the uncertainty due to the inherent limitations of the measurement devices used to track emissions. Additionally, data is collected and manually entered into FMC's tracking and reporting process on a quarterly basis. Manual entry of data involves the potential risk of human errors and unintended mistakes while entering data into the system. There is also potential uncertainty in data gabs and assumptions due to possible oversight in our data system.
Scope 2 (market- based)			

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

No third party verification or assurance

CC8.7

Please indicate the verification/assurance status that applies to at least one of your reported Scope 2 emissions figures

No third party verification or assurance

CC8.8

Please identify if any data points have been verified as part of the third party verification work undertaken, other than the verification of emissions figures reported in CC8.6, CC8.7 and CC14.2

Additional data points verifiedComment

No additional data verified

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

Further Information

Page: CC8. Emissions Data - (1 Jan 2014 - 31 Dec 2014)

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Financial control

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO2e

327273

CC8.3

Please describe your approach to reporting Scope 2 emissions

Scope 2, location-based	Scope 2, market-based	
We are reporting a Scope 2, location-based figure	We have no operations where we are able to access electricity supplier emissions factors or residual emissions factors and are unable to report a Scope 2, market-based figure	

CC8.3a

Please provide your gross global Scope 2 emissions figures in metric tonnes CO2e

Scope 2, location-basedScope 2, market-based (if applicable)Comment

69455 0

CC8.4

Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

CC8.5

Please estimate the level of uncertainty of the total gross global Scope 1 and 2 emissions figures that you have supplied and specify the sources of uncertainty in your data gathering, handling and calculations

Scope	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
Scope 1	More than 10% but less than or equal to 20%	Data Gaps Assumptions Metering/ Measurement Constraints Data Management Other: Human error	FMC acquired Cheminova A/S in 2015, and as per the Greenhouse Gas Protocol, we excluded data from legacy Cheminova sites for one year. We are restating FMC's energy and greenhouse gas data to include manufacturing data from legacy Cheminova sites. As our data tracking system has matured over time, so has the level of certainty in the data. Therefore, historical data inherently includes more uncertainty that has been refined through more recent processes. There is potential uncertainty due to the inherent limitations of the measurement devices used to track emissions. Additionally, data is collected and manually entered into FMC's tracking and reporting process on a quarterly basis. Manual entry of data involves the potential risk of human errors and unintended mistakes while entering data into the system. There is also potential uncertainty in data gabs and assumptions due to possible oversight in our data system.

Scope	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
Scope 2 (location- based)	More than 10% but less than or equal to 20%	Data Gaps Assumptions Metering/ Measurement Constraints Data Management	FMC acquired Cheminova A/S in 2015, and as per the Greenhouse Gas Protocol, we excluded data from legacy Cheminova sites for one year. We are restating FMC's energy and greenhouse gas data to include manufacturing data from legacy Cheminova sites. As our data tracking system has matured over time, so has the level of certainty in the data. Therefore, historical data inherently includes more uncertainty that has been refined through more recent processes. There is potential uncertainty in our scope 2 (location-based) data as a result of assumptions due to the uncertainty of the factors used in published electricity emission factors. There is potential uncertainty due to the inherent limitations of the measurement devices used to track emissions. Additionally, data is collected and manually entered into FMC's tracking and reporting process on a quarterly basis. Manual entry of data involves the potential risk of human errors and unintended mistakes while entering data into the system. There is also potential uncertainty in data gabs and assumptions due to possible oversight in our data system.
Scope 2 (market- based)			

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

No third party verification or assurance

CC8.7

Please indicate the verification/assurance status that applies to at least one of your reported Scope 2 emissions figures

No third party verification or assurance

CC8.8

Please identify if any data points have been verified as part of the third party verification work undertaken, other than the verification of emissions figures reported in CC8.6, CC8.7 and CC14.2

Additional data points verifiedComment

No additional data verified

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

Further Information

Page: CC8. Emissions Data - (1 Jan 2015 - 31 Dec 2015)

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Financial control

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO2e

300837

CC8.3

Please describe your approach to reporting Scope 2 emissions

Scope 2, location-based	Scope 2, market-based	
We are reporting a Scope 2, location-based figure	We have no operations where we are able to access electricity supplier emissions factors or residual emissions factors and are unable to report a Scope 2, market-based figure	

CC8.3a

Please provide your gross global Scope 2 emissions figures in metric tonnes CO2e

Scope 2, location-basedScope 2, market-based (if applicable)Comment

66961 0

CC8.4

Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

CC8.5

Please estimate the level of uncertainty of the total gross global Scope 1 and 2 emissions figures that you have supplied and specify the sources of uncertainty in your data gathering, handling and calculations

Scope	Uncertainty range	Main sources of uncertainty	Please expand on the uncertainty in your data
Scope 1	More than 10% but less than or equal to 20%	Data Gaps Assumptions Metering/ Measurement Constraints Data Management Other: Human error	FMC acquired Cheminova A/S in 2015, and as per the Greenhouse Gas Protocol, we excluded data from legacy Cheminova sites for one year. We are restating FMC's energy and greenhouse gas data to include manufacturing data from legacy Cheminova sites. Our 2015 FMC manufacturing sites were assured through third party verification. As our data tracking system has matured over time, so has the level of certainty in the data. Therefore, historical data inherently includes more uncertainty that has been refined through more recent processes. There is potential uncertainty due to the inherent limitations of the measurement devices used to track emissions. Additionally, data is collected and manually entered into FMC's tracking and reporting process on a quarterly basis. Manual entry of data involves the potential risk of human errors and unintended mistakes while entering data into the system. There is also potential uncertainty in data gabs and assumptions due to possible oversight in our data system.

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

No third party verification or assurance

CC8.7

Please indicate the verification/assurance status that applies to at least one of your reported Scope 2 emissions figures

No third party verification or assurance

CC8.8

Please identify if any data points have been verified as part of the third party verification work undertaken, other than the verification of emissions figures reported in CC8.6, CC8.7 and CC14.2

Additional data points verified	Comment
	FMC acquired Cheminova A/S in 2015, and as per the Greenhouse Gas Protocol, we excluded data from legacy

Other: See 2015 data points verified for FMC 2015 manufacturing sites manufacturing sites (Cheminova sites for one year. We are restating FMC's energy and greenhouse gas data to include manufacturing data from legacy Cheminova sites. FMC obtained third party verification on its FMC manufacturing sites data for the following data points: Total Direct and Indirect 2015 absolute and intensity Energy Use (Terajoules and Gigajoules/tonne of production) in 2015. We also included the following data points in our third party verification process: • Total (Scope 1 and Scope 2) 2015 absolute and intensity GHG Emissions (Ktonnes CO2e and tonnes CO2e/tonne of production) • Total 2015 absolute and intensity Water Use (Million Cubic Meters and Cubic Meters/tonne of production) • Total 2015 absolute and intensity Waste Generated (Ktonnes and Kg/tonne of production) We obtained limited assurance on these data points.

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

Further Information

Page: CC8. Emissions Data - (1 Jan 2016 - 31 Dec 2016)

CC8.1

Please select the boundary you are using for your Scope 1 and 2 greenhouse gas inventory

Financial control

CC8.2

Please provide your gross global Scope 1 emissions figures in metric tonnes CO2e

273146

CC8.3

Please describe your approach to reporting Scope 2 emissions

Change 2017 Information Request - FMC Corp			https://www.cdp.net/sites/2017/27/23227/Climate Cha	ange 2017/Pa
Scope 2	, location-based		Scope 2, market-based	Comment
We are rep location-ba	oorting a Scope 2, ased figure	We have no ope residual emissio	rations where we are able to access electricity supplier emissions factors or ons factors and are unable to report a Scope 2, market-based figure	
CC8.3a Please pro	ovide your gross ş	global Scope 2 en	nissions figures in metric tonnes CO2e	
Scope 2, le	ocation-basedSco	pe 2, market-bas	ed (if applicable)Comment	
66036	0			
CC8.4 Are there within you	any sources (e.g. ar selected report	facilities, specific ting boundary wl	c GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions th hich are not included in your disclosure?	at are
No				
CC8.5 Please est specify th	imate the level of e sources of unce	uncertainty of th rtainty in your d	ne total gross global Scope 1 and 2 emissions figures that you have supplie ata gathering, handling and calculations	ed and
Scope	Uncertainty range	Main sources o uncertainty	of Please expand on the uncertainty in your data	
Scope 1	More than 5% but less than or equal to 10%	Data Gaps Assumptions Metering/ Measurement Constraints Data Management Other: Human error	There is potential uncertainty due to the inherent limitations of the measuren devices used to track emissions. Additionally, data is collected and manually into FMC's tracking and reporting process on a quarterly basis. Manual entry involves the potential risk of human errors and unintended mistakes while er into the system. There is also potential uncertainty in data gabs and assumpt possible oversight in our data system.	nent ⁷ entered y of data ntering data ions due to
Scope 2 (location- based)	More than 5% but less than or equal to 10%	Data Gaps Assumptions Extrapolation Metering/ Measurement Constraints Data Management	There is potential uncertainty due to the inherent limitations of the measurent devices used to track emissions. Additionally, data is collected and manually into FMC's tracking and reporting process on a quarterly basis. Manual entry involves the potential risk of human errors and unintended mistakes while er into the system. There is also potential uncertainty in data gabs and assumpt possible oversight in our data system.	nent ⁷ entered y of data ntering data ions due to

Scope 2 (marketbased)

CC8.6

Please indicate the verification/assurance status that applies to your reported Scope 1 emissions

Third party verification or assurance process in place

CC8.6a

Please provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements

Verification or assurance cycle in place	Status in the current reporting year	Type of verification or assurance	Attach the statement	Page/section reference	Relevant standard	Proportion of reported Scope 1 emissions verified (%)
Annual process	Complete	Limited assurance	https://www.cdp.net/sites/2017/27/23227 /Climate Change 2017/Shared Documents/Attachments/CC8.6a/FMC 2017 Assurance Information and ERM Statement.pdf	Available on page 34 of FMC's 2016 Sustainability Report.	ISAE3000	100

CC8.7

Please indicate the verification/assurance status that applies to at least one of your reported Scope 2 emissions figures

Third party verification or assurance process in place

CC8.7a

Please provide further details of the verification/assurance undertaken for your location-based and/or market-based Scope 2 emissions, and attach the relevant statements

Location- based or market- based figure?	Verification or assurance cycle in place	Status in the current reporting year	Type of verification or assurance	Attach the statement	Page/Section reference	Relevant standard	Proportion of reported Scope 2 emissions verified (%)
Location- based	Annual process	Complete	Limited assurance	https://www.cdp.net/sites/2017/27 /23227/Climate Change 2017/Shared Documents/Attachments /CC8.7a/FMC 2017 Assurance Information and ERM Statement.pdf	Available on page 34 of FMC's 2016 Sustainability Report.	ISAE3000	100

CC8.8

Please identify if any data points have been verified as part of the third party verification work undertaken, other than the verification of emissions figures reported in CC8.6, CC8.7 and CC14.2

Additional data points verified

Comment

Additional data	
points verified	

Comment

	As quoted from FMC's third party assurance verification statement (please see attached documentation in CC8.6a and
	CC8.7a): - Total FMC and Business level Direct and Indirect (Scope 1 and Scope 2) 2016 Absolute and Intensity
Other: See	Energy Use (Terajoules and Gigajoules/Tonne of Production) - Total FMC and Business level (Scope 1 and Scope 2)
comments for	2016 Absolute and Intensity GHG Emissions (K-tonnes CO2e and tonnes CO2e /Tonne of Production) - Total 2016
additional	FMC and Business level Absolute and Intensity Water Use (Million Cubic Meters and Cubic Meters/Tonne of
assured 2016	Production) - Total 2016 FMC and Business level Absolute and Intensity Total Waste and Absolute and Intensity
data points	Waste Disposed (K-tonnes and Kg/Tonne of Production) - Waste Disposed per disposal type – landfill, fuel blending,
	and incineration with and without recovery (K-tonnes and Kg/Tonne of Production) - Total Recordable Incident Rate
	(TRIR)

CC8.9

Are carbon dioxide emissions from biologically sequestered carbon relevant to your organization?

No

Further Information

Page: CC9. Scope 1 Emissions Breakdown - (1 Jan 2013 - 31 Dec 2013)

CC9.1

Do you have Scope 1 emissions sources in more than one country?

Yes

CC9.1a

Please break down your total gross global Scope 1 emissions by country/region

Country/Region Scope 1 metric tonnes CO2e

United States of America115393

Rest of world 210210

CC9.2

Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

Further Information

Page: CC9. Scope 1 Emissions Breakdown - (1 Jan 2014 - 31 Dec 2014)

CC9.1

Do you have Scope 1 emissions sources in more than one country?

Yes

CC9.1a

Climate Change 2017 Information Request - FMC Corp

Please break down your total gross global Scope 1 emissions by country/region

Country/Region Scope 1 metric tonnes CO2e

United States of America43442

26013

CC9.2

Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

Further Information

Page: CC9. Scope 1 Emissions Breakdown - (1 Jan 2015 - 31 Dec 2015)

CC9.1

Do you have Scope 1 emissions sources in more than one country?

Yes

CC9.1a Please break down your total gross global Scope 1 emissions by country/region

Country/Region Scope 1 metric tonnes CO2e

United States of America85364

Rest of world 187782

CC9.2 Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

Further Information

Page: CC9. Scope 1 Emissions Breakdown - (1 Jan 2016 - 31 Dec 2016)

CC9.1

Do you have Scope 1 emissions sources in more than one country?

Yes

CC9.1a

Please break down your total gross global Scope 1 emissions by country/region

Country/Region Scope 1 metric tonnes CO2e

United States of America85364

Country/Region Scope 1 metric tonnes CO2e

Rest of world 187782

CC9.2

Please indicate which other Scope 1 emissions breakdowns you are able to provide (tick all that apply)

By business division

CC9.2a

Please break down your total gross global Scope 1 emissions by business division

Business division Scope 1 emissions (metric tonnes CO2e)

FMC Agricultural Solutions43810

FMC Health and Nutrition 138057

FMC Lithium 91278

Further Information

Page: CC10. Scope 2 Emissions Breakdown - (1 Jan 2013 - 31 Dec 2013)

CC10.1

Do you have Scope 2 emissions sources in more than one country?

Yes

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2, location- based (metric tonnes CO2e)	Scope 2, market- based (metric tonnes CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
United States of America	61628	0	99623	0
Rest of world	25950	0	96529	0

CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

Further Information

Page: CC10. Scope 2 Emissions Breakdown - (1 Jan 2014 - 31 Dec 2014)

CC10.1

Do you have Scope 2 emissions sources in more than one country?

Yes

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2, location- based (metric tonnes CO2e)	Scope 2, market- based (metric tonnes CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
United States of America	43442	0	99524	
Rest of world	26013	0	104039	

CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

Further Information

Page: CC10. Scope 2 Emissions Breakdown - (1 Jan 2015 - 31 Dec 2015)

CC10.1

Do you have Scope 2 emissions sources in more than one country?

Yes

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2, location- based (metric tonnes CO2e)	Scope 2, market- based (metric tonnes CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)
United States of America	39960	0	97556	
Rest of world	26076	0	95343	

CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

Further Information

Page: CC10. Scope 2 Emissions Breakdown - (1 Jan 2016 - 31 Dec 2016)

CC10.1

Do you have Scope 2 emissions sources in more than one country?

Yes

CC10.1a

Please break down your total gross global Scope 2 emissions and energy consumption by country/region

Country/Region	Scope 2, location- based (metric tonnes CO2e)	Scope 2, market- based (metric tonnes CO2e)	Purchased and consumed electricity, heat, steam or cooling (MWh)	Purchased and consumed low carbon electricity, heat, steam or cooling accounted in market-based approach (MWh)	
United States of America	39960	0	90805	0	
Rest of world	26076	0	89271	0	

CC10.2

Please indicate which other Scope 2 emissions breakdowns you are able to provide (tick all that apply)

Further Information

Page: CC11. Energy

CC11.1

What percentage of your total operational spend in the reporting year was on energy?

More than 0% but less than or equal to 5%

CC11.2

Please state how much heat, steam, and cooling in MWh your organization has purchased and consumed during the reporting year

Energy typeMWh

Heat 0

Steam 34325

Cooling 0

CC11.3

Please state how much fuel in MWh your organization has consumed (for energy purposes) during the reporting year

1408381

CC11.3a

Please complete the table by breaking down the total "Fuel" figure entered above by fuel type

Fuels MWh

Climate Change 2017 Information Request - FMC Corp

Lignite	Fuels	MWh 8058
Diesel/Gas	oil	39423
Jet kerosene	2	2660
Distillate fu	el oil No 2	62846
Residual fu	el oil	28312
Liquefied p	etroleum gas (LPG)61120
Natural gas		1205962

CC11.4

Please provide details of the electricity, heat, steam or cooling amounts that were accounted at a low carbon emission factor in the market-based Scope 2 figure reported in CC8.3a

Basis for applying a low carbon emission factor	MWh consumed associated with low carbon electricity, heat, steam or cooling	Emissions factor (in units of metric tonnes CO2e per MWh)	Comment
No purchases or generation of low carbon electricity, heat, steam or cooling accounted with a (low carbon emissions factor)	0	

CC11.5

Please report how much electricity you produce in MWh, and how much electricity you consume in MWh

Total electricity consumed (MWh)	Consumed electricity that is purchased (MWh	; • 1)]	Total electricity produced (MWh)	Tota el produ	l renewable ectricity ıced (MWh)	Consumed renewable electricity that is produced by company (MWh)	Comment
180076	180076	0		0		0	FMC does not track electricity produced, only electricity used and fuel used. The electricity produced from fuel is tracked through the fuel.

Further Information

Page: CC12. Emissions Performance

CC12.1

How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to the previous year?

Decreased

CC12.1a

Please identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined) and for each of them specify how your emissions compare to the previous year

Reason	Emissions value (percentage)	Direction of change	Please explain and include calculation
Emissions reduction activities	50	Decrease	In 2015, FMC began operation of a 130-kilomter pipeline that supplies natural gas from Pocitos, Salta, Argentina to our lithium production facility in Salar del Hombre Muerto, Catamarca, Argentina. The pipeline supplies a more dependable source of energy, natural gas, to our facility. The previous means of obtaining energy for the facility was by truck. Ten trucks per day would drive through mountainous terrain in often difficult weather conditions. These transportation difficulties caused delays and excessive consumption of diesel fuel, as the trucks consumed nearly a full liter of gasoline to travel one kilometer. Using the new pipeline, we are now decreasing our GHG emissions from fuel shipments of natural gas via truck and reducing safety concerns. We have also eliminated the use of back up GHG intensive fuels, like fuel oil, which were used when natural gas was not available. 2016 was the first full year in which FMC utilized the pipeline. This project comprises 50 percent of FMC's gross global emissions reduction in 2016.
Divestment			
Acquisitions	18.4	Increase	In 2015, FMC acquired Cheminova A/S, a global supplier of quality crop protection products. FMC's energy, GHG, water and waste data (FMC Total and Intensity) reported in our 2016 CDP Climate response were externally assured and excluded legacy Cheminova manufacturing data from our total and combined intensity. This exclusion is in accordance with the Greenhouse Gas Protocol's guidance that allows companies one year to include data from newly acquired entities. In FMC's 2017 CDP Climate Change submission, data from legacy Cheminova manufacturing sites is included in FMC's total and combined intensity.
Mergers			
Change in output			
Change in methodology			
Change in boundary			
Change in physical operating conditions			
Unidentified			
Other			

CC12.1b

Is your emissions performance calculations in CC12.1 and CC12.1a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Location-based

CC12.2

Please describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tonnes CO2e per unit currency total revenue

Intensity figure =	Metric numerator (Gross global combined Scope 1 and 2 emissions)	Metric denominator: Unit total revenue	Scope 2 figure used	% change from previous year	Direction of change from previous year	Reason for change
0.103	metric tonnes CO2e	3282400000	Location- based	8	Decrease	FMC's decrease in gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e is due to the decrease in production levels of our Agricultural Solutions business.

CC12.3

Please provide any additional intensity (normalized) metrics that are appropriate to your business operations

Intensity figure =	Metric numerator (Gross global combined Scope 1 and 2 emissions)	Metric denominator	Metric denominator: Unit total	Scope 2 figure used	% change from previous year	Direction of change from previous year	Reason for change
0.883	metric tonnes CO2e	metric tonne of product	383912	Location- based	1	Increase	While FMC had a slight increase from 2015 CO2e per metric tonne product to 2016, it is due to lower than normal production level for Agricultural Solutions. However, we are still on pace to achieve our 2025 target of reducing our CO2e emission intensity by 15%. Even with this 1 percent increase year-over-year, we are still realizing a 2 percent decrease in our GHG emissions intensity from our 2013 baseline emissions levels.

Further Information

Page: CC13. Emissions Trading

CC13.1

Do you participate in any emissions trading schemes?

Yes

CC13.1a

Please complete the following table for each of the emission trading schemes in which you participate

Scheme name	Period for which data is supplied	s Allowances allocated	1	Allowances purchased	Verified emissions in metri tonnes CO2e	^C Details of ownership
European Union ETS	Fri 01 Jan 2016 - Sat 31 Dec 2016	51563	0			Facilities we own and operate

CC13.1b

What is your strategy for complying with the schemes in which you participate or anticipate participating?

In 2015, FMC acquired Cheminova, a chemical company based in Denmark. One of Cheminova's facilities in Ronland, Denmark, participates in the European Union (EU) Emissions Trading Scheme (ETS) and falls below the current emissions cap. In 2021, the next phase of the EU ETS will come into effect, and depending on what the emissions cap is, this facility could be below the cap. FMC will continue to invest and make improvements in its energy use and greenhouse gas emission levels prior to 2021 to prepare for the lower emissions cap.

CC13.2

Has your organization originated any project-based carbon credits or purchased any within the reporting period?

No

Further Information

Page: CC14. Scope 3 Emissions

CC14.1

Please account for your organization's Scope 3 emissions, disclosing and explaining any exclusions

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	f Explanation
Purchased goods and services	Relevant, calculated	149166	FMC collects this information from its active ingredient contract manufacturers on a quarterly basis. FMC uses suppliers' energy data, emissions factors, and GWP values to calculate this data.		The emissions associated with FMC's purchased goods and services are relevant. We see our agricultural active ingredient contract manufacturing as a key portion of our scope 3 emissions. At this time, this is the only purchased goods and services source of emissions that we track. We are evaluating how best to calculate the remainder of this emissions source.
Capital goods	Relevant, not yet calculated				FMC has not calculated the emissions associated with our capital goods. We are evaluating how to best calculate this emissions source.

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	f Explanation
Fuel-and- energy-related activities (not included in Scope 1 or 2)	Not evaluated				
Upstream transportation and distribution	Relevant, not yet calculated		FMC estimates that the upstream transportation and distribution are relevant to FMC in considering the size of our overall footprint. We are currently investigating methods to measure the emissions from our upstream transportation and distribution activities.		The emissions from the upstream transportation and distribution are relevant to FMC when considering the size of our overall footprint. We are evaluating how to best calculate this Scope 3 emissions source. FMC utilizes multiple transportation modes to move raw materials and products, including road, rail, air and ocean freight. The decisions we make in logistics have a significant environmental impact. In 2016, FMC evaluated our footprint using industry standards for measuring the sustainability of logistics. Logistics vary widely by region, so we began by assessing the greenhouse gas emissions generated from global ocean freight and North American road freight. In 2017, we will develop methods to measure and monitor a broader scope of our global logistics footprint. This will support our long-term objective to create a target to decrease emissions associated with logistics through optimization. As part of our commitment to transparency, we will join EPA's SmartWay Partnership and begin reporting the greenhouse gas emissions that are generated from North American road freight. An update on our progress will be included in the 2017 Sustainability Report.

Waste generated in operations

in Not evaluated

Not Business travel relevant, 477 calculated FMC has begun collaborating with its business travel vendors to calculate its emissions from business travel. Through this collaboration, we estimate that 477 metric tons CO2e were generated from a portion of FMC's domestic airline travel and car rentals in 2016. We plan to continue working

Sources of Scope 3 emissions	Evaluation t status	metric tonnes CO2e	Emissions calculation methodology with our vendors to have global business travel emissions data in 2018.	Percentage of emissions calculated using data obtained from suppliers or value chain partners	f Explanation
Employee commuting	Not relevant, explanation provided				FMC has not calculated the emissions associated with employee commuting. We estimate that it is not relevant when compared to our overall footprint.
Upstream leased assets	Not evaluated				
Downstream transportation and distribution	Relevant, not yet calculated		FMC estimates that the downstream transportation and distribution are relevant to FMC in considering the size of our overall footprint. We are currently investigating methods to measure the emissions from our downstream transportation and distribution activities.		The emissions from the downstream transportation and distribution are relevant to FMC when considering the size of our overall footprint. We are evaluating how to best calculate this Scope 3 emissions source. FMC utilizes multiple transportation modes to move raw materials and products, including road, rail, air and ocean freight. The decisions we make in logistics have a significant environmental impact. In 2016, FMC evaluated our footprint using industry standards for measuring the sustainability of logistics. Logistics vary widely by region, so we began by assessing the greenhouse gas emissions generated from global ocean freight and North American road freight. In 2017, we will develop methods to measure and monitor a broader scope of our global logistics footprint. This will support our long-term objective to create a target to decrease emissions associated with logistics through optimization. As part of our commitment to transparency, we will join EPA's SmartWay Partnership and begin reporting the greenhouse gas emissions that are generated from North American road freight. An update on our progress will be included in FMC's 2017 Sustainability Report.
Processing of sold products	Relevant, not yet calculated				FMC estimates that the processing of sold goods are relevant to FMC in considering the size of our overall footprint. We are currently investigating methods to measure the emissions associated with these activities.
Use of sold products	Relevant, not yet calculated				FMC estimates that the use of sold products is relevant to FMC in considering the size of our overall footprint. We are currently investigating methods to measure the emissions from associated with these activities.

Sources of Scope 3 emissions	Evaluation status	metric tonnes CO2e	Emissions calculation methodology	Percentage of emissions calculated using data obtained from suppliers or value chain partners	f Explanation
End of life treatment of sold products	Not evaluated				
Downstream leased assets	Not relevant, explanation provided				FMC has downstream leased assets that have a small footprint compared to our overall footprint.
Franchises	Not relevant, explanation provided				FMC does not have franchises.
Investments	Not relevant, explanation provided				FMC does not have emissions from investments that are not captured elsewhere in this response.
Other (upstream)					
Other (downstream)					
CC14.2 Please indicate the verification/assurance status that applies to your reported Scope 3 emissions					
No third party verification or assurance					
CC14.3 Are you able to compare your Scope 3 emissions for the reporting year with those for the previous year for any sources?					

Yes

CC14.3a

Please identify the reasons for any change in your Scope 3 emissions and for each of them specify how your emissions compare to the previous year

Sources of
Scope 3
emissionsReasonEmissions valueDirection offor change(percentage)change

Comment

Sources of Scope 3 emissions	Reason for change	Emissions value (percentage)	Direction of change	Comment
Purchased goods & services	Change in output	18	Decrease	FMC's emissions associated with the company's purchased goods and services decreased from 2015 to 2016 emissions levels due to a decrease in the production levels of FMC's Agricultural Solutions business.

CC14.4

Do you engage with any of the elements of your value chain on GHG emissions and climate change strategies? (Tick all that apply)

Yes, our suppliers Yes, other partners in the value chain

CC14.4a

Please give details of methods of engagement, your strategy for prioritizing engagements and measures of success

Collaboration and strong partnerships with suppliers and customers are very important to FMC to ensure we meet our sustainability commitments, from sourcing, to manufacturing, to transportation and product stewardship. FMC chooses to work only with suppliers and vendors who share our commitment to ethical and sustainable business practices. FMC has an established Supplier Code of Conduct that requests information on human rights, labor, environmental, health and safety requirements from its suppliers. In 2016, FMC implemented a social responsibility audit process for its suppliers. We prioritize our engagements by evaluating risk and opportunities in the supply chain and have tools and processes to support us (e.g. spend analytics, supplier assessments, long-term contracts, etc.).

For all new raw material suppliers, FMC's Procurement Group employs an internal supplier prequalification process. This process assesses a supplier's sustainability efforts, safety record, environmental and quality management systems and responsible sourcing, and ensures that the raw material supply is ethical, reliable and safe. In addition to the prequalification screening, FMC partners with an external screening and risk management provider to qualify contractors who may be exposed to the hazards of the manufacturing site or may expose personnel, community members or the environment to additional hazards in the course of their work. The third-party process carefully assesses these contractors, including evaluation of safety, environment and sustainability criteria, to best protect people and the environment.

FMC promotes sustainable labor and work practices in our supply chain. In 2016, we initiated

a partnership with the Supplier Ethical Data Exchange (Sedex) to thoroughly evaluate

supplier social responsibility. Through Sedex, suppliers answer a series of questions regarding their responsible and ethical business practices, including human rights, labor standards, health and safety, and business ethics. FMC is then able to evaluate whether a supplier adheres to our high standards. FMC has initiated relationships with suppliers that are current members of Sedex and has successfully engaged with 67 percent of those current members we targeted. Sedex regularly updates FMC on changes to supplier profiles. In 2017, we will identify our strategic suppliers that are not current Sedex members and work with them to join the program.

We have begun the process of measuring and monitoring our logistics and transportation footprints. From optimizing logistics to reduce greenhouse gas emissions and increasing the sustainability of our packaging, we are committed to a responsible supply chain that reflects our sustainability priorities.

Throughout FMC's sustainability journey, employees responsible for product packaging have worked closely with suppliers to find sustainable packaging options while ensuring the highest standards of safety and quality for our customers. An example of a 2016 successful collaboration was as we significantly expanded our footprint in Europe in 2016, we reviewed the packaging we purchase for the region. After a careful evaluation of safety, we replaced some cardboard with a thinner grade and plastic packaging with a lower weight in Agricultural Solutions. In doing so, we were able to reduce cardboard consumption by 170 metric tonnes and plastic consumption by 20 metric tonnes per year. Those reductions equal 18 percent less paper consumption and a 4 percent reduction in plastic consumption annually versus 2015 with respect to the affected products.

CC14.4b

To give a sense of scale of this engagement, please give the number of suppliers with whom you are engaging and the

proportion of your total spend that they represent

Type of engagement	Number of suppliers	% of total spend (direct and indirect)	Impact of engagement
Collaboration/innovation2	277	63%	The number of suppliers (277) and approximate percentage of total spend (63%) provided refers to FMC's direct material suppliers (approximately 766).
Further Information			

Module: Sign Off

Page: CC15. Sign Off

CC15.1

Please provide the following information for the person that has signed off (approved) your CDP climate change response

 Name
 Job title
 Corresponding job category

 Pierre BrondeauPresident, Chief Executive Officer and Chairman of the Board, FMC CorporationChief Executive Officer (CEO)

Further Information

CDP: [W][-,-][AQ][Pu][E2]