

A Responsible Today for a Sustainable Tomorrow





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**We remain united in
our commitment to
sustainability.**

Belgacem Chariag
Chairman, President, and
Chief Executive Officer

A Statement from Belgacem Chariag, our Chairman, President and Chief Executive Officer

"In this time of global disruption due to the health, economic, and social impacts of the COVID-19 pandemic, we are reflecting on what makes us PQ Corporation and are working diligently to ensure the well-being of our employees and customers. We encourage you to read our first Sustainability Report through the lens of our new reality. Our PQ Corporation family extends its hand to you as an agile partner capable of supporting our customers' specific needs while having a positive impact on our shared environment. Together we will reflect and respond to all of the new challenges presented to us.

While we have expanded our business exponentially since our founding in 1831, we remain united in our commitment to sustainability. Despite our rich history, longevity, and experience in the industry, we are a newly organized company. In September 2017, we went through our Initial Public Offering (IPO), and we aligned our businesses into four areas: Refining Services, Catalysts, Performance Materials, and Performance Chemicals. Consequently, 2018 became our baseline year for collecting data for purposes of this Sustainability Report.

In this report, you will find detailed information on our sustainability efforts and future goals that will drive us in the coming years. From my perspective, our engagement in sustainability comes naturally with our daily business and is fully reinforced through our strategies and values. We strongly believe that we will continue to improve our environmental footprint because of our beliefs and strong ethics—all of which shape the way we conduct our global business.



We continuously strive to become better stewards of our environment with each exciting new product innovation within our organization.

To highlight, here is a summary of our goals in this area:

- To achieve top quartile Total Recordable Incident Rate (TRIR) performance as measured by the American Chemistry Council (ACC) by the end of 2020;
- To experience no environmental releases from our sites causing significant adverse impacts to the environment in 2020 or beyond;
- To achieve HSE Perfect Days at least 90% of the time across all businesses by 2022;
- To complete certification of the remaining 20% of our operating and R&D sites to ISO14001 by year-end 2023;
- To reduce process-related Hazardous Waste disposal by 40% from the 2018 Baseline by year-end 2023; and
- To complete water balances at all sites in water stressed areas and Energy Management Plans at all sites by 2025.

In addition to these goals, we are committed to reducing carbon emissions and will define specific greenhouse gas reduction goals in our next Sustainability Report and update our progress in achieving them.

Today, we meet the challenges of social responsibility through our commitment to our Health, Safety, and Environment (HSE) Perfect Day process, effective implementation of our HSE Mission and Guiding Principles, Responsible Care®, and similar global industry processes. We continuously strive to become better stewards of our environment with each exciting new product innovation within our organization.

As of year-end 2019, inorganic materials drove approximately 75% of our overall company's sales, and roughly two-thirds of our developmental products have sustainable attributes. We are committed to pollution prevention by eliminating or reducing emissions, discharges, wastes, and the risks associated with our operations and products. PQ Corporation makes continual efforts to reduce energy and resource consumption as we conceive and produce materials.

Our rich heritage guides our business priorities and ethics, and, with this inaugural Sustainability Report, we extend this to environmental stewardship and sustainability. We are driven by our values and a distinct goal to create a safer, cleaner future for our employees, customers, and stakeholders for generations to come."

Belgacem Chariag

Chairman, President, and
Chief Executive Officer

Dedicated to Ongoing Innovation to Create a More Sustainable Future

PQ Corporation is a leading global provider of specialty catalysts, services, performance materials, and performance chemicals that serve the following applications: fuels and emissions controls; consumer products, highway safety and construction; engineered materials; industrial and process chemicals; and natural resources. Founded in 1831, PQ Corporation now has operations on six continents with a global operations network. Our headquarters are in Malvern, PA, and our New York Stock Exchange (NYSE) symbol is PQG.

We have a proud history of innovation, and we strive to make products that leave the planet cleaner and more sustainable for generations to come.

Our Company by the Numbers



Our Products & Services

REFINING SERVICES

Increased octane demand

- Sulfuric acid production experts
- End-to-end logistics and services

CATALYSTS

Tighter fuels standards and lightweighting demand

- Tailored catalyst solutions
- Zeolite IP chemistry expertise

PERFORMANCE MATERIALS

Higher highway safety standards

- ~ 100 years glass technology leader
- Innovation in microspheres technology


PERFORMANCE CHEMICALS

Environmentally-driven consumer demand


- Silicate/Zeolite innovation
- Tailored product sizing and coating



Our Innovation Centers



We invite you to see firsthand how our innovation guides us, and our ethics and values are the guidepost for all that we do globally.



Elaine Simpson
Vice President,
Environment and
Sustainability

Welcome to PQ Corporation's Inaugural Sustainability Report

Each and every day, we are brought together as one PQ Corporation, across all of our businesses and thousands of employees. As we think about sustainability today, we are acutely aware of how our collective actions impact the environment and each other. It is with this awareness that we embark on this journey with you.

We are pleased to bring you our first Sustainability report as of year-end 2019. As part of our endeavor to become more transparent about our health, safety, environment, and sustainability (HSE&S) initiatives, we are including key data in this report and updating the sustainability section of our website. On the website, you will find links to specific policies and highlights of sustainability innovations driven by our organization. We will periodically update our website in 2020 to reflect new sustainability data and policies. We invite you to see firsthand how our innovation guides us, and our ethics and values are the guidepost for all that we do globally.

"As the corporate Environment and Sustainability (E&S) leader at PQ Corporation, I am struck by our company's long-term commitment to do the 'right thing' - as employees and in dealing with our customers and our stakeholders. We are actively involved in several sustainability practices, from Responsible Care® to the HSE Perfect Day. Our care for the health and safety of employees and customers is at the forefront of all that we do. We believe our ongoing focus on HSE&S principles drives our company's success—leading to better sustainability outcomes.

This report, and corresponding website updates, represent part of our journey to communicate our underlying values, dedication to sustainability, and corporate citizenship. I am proud to lead the effort to share this information with you."

A PROPER CONCERN

The concept of a "proper concern" has been a core value of PQ since our inception in 1831. It started with a letter from our founder, Joseph Elkinton, to his son, Joseph, that spoke to the idea that the most effective expression of our values must be rediscovered with new, ever-evolving circumstance with a mission to pursue the best things.

It is this proper concern that governs our approach to:

- Understanding and doing the right thing by our employees, customers and stakeholders
- Concern for others
- Providing for the health and safety of our employees
- Caring for the environment
- Nurturing the planet



2020 Environmental, Social, and Governance (ESG) Materiality Matrix

With increasing emphasis on corporate citizenship and environmental stewardship both through our employees and external partners, we continued our sustainability journey in 2019 by formalizing sustainability-related processes.

To ensure our efforts and disclosures meet the expectations of our shareholders, employees, customers, communities, and a wealth of external stakeholders, we initiated our first materiality assessment in partnership with Berg and Associates. This effort incorporates external and internal input as to crucial sustainability issues relevant to PQ Corporation.

With our knowledge of material issues impacting the chemicals industry through our membership with the American Chemistry Council (ACC), we began with an external literature search covering the industries we support, and communities directly supported by our global footprint. In addition to speaking with essential leadership, we drafted a materiality survey to be deployed internally and with key customers and stakeholders.

Below is our initial ESG Materiality Matrix, which we are still implementing. You will find many of the essential disclosures within this report and on our updated website. We encourage you to read this report with the matrix in mind and share any feedback at sustainability@pqcorp.com.

Materiality Matrix

IMPORTANCE TO STAKEHOLDERS			
VERY HIGH	<ul style="list-style-type: none"> Genetically Modified Organisms Plastic Waste (Land and Oceans) 	<ul style="list-style-type: none"> Community Engagement Customer Health & Safety Life Cycle Emissions of Products & Services Operational Waste Water Consumption Water Quality 	<ul style="list-style-type: none"> Carbon Emissions Community Health & Safety Climate Risk & Opportunity Management Ethics & Compliance Hazardous Waste Management Product Innovation Resource Efficiency & Circular Design Social and Economic Value of Products Worker Health & Safety
HIGH	<ul style="list-style-type: none"> Data Privacy & Security Human Rights 	<ul style="list-style-type: none"> Advocacy and Responsible Lobbying Biodiversity Corporate Governance Diversity & Inclusion Supply Chain Responsibility 	<ul style="list-style-type: none"> Air Quality Chemical Releases Chemicals of Concerns in Products Employee Engagement Wages & Benefits
MEDIUM		<ul style="list-style-type: none"> Deforestation Ethical Marketing & Communications Taxes and Contributions to Communities 	<ul style="list-style-type: none"> Customer Relationship Management Employee Training and Development
	MEDIUM	HIGH	VERY HIGH
RELEVANCE TO PQ BUSINESS SUCCESS			



UN Global Compact's Sustainable Development Goals (SDGs) and Ten Principles

Through our products; manufacturing discipline; dedication to health, safety, and the environment; and our proper level of concern for business ethics and our communities, PQ Corporation is aligned behind the UN Global Compact's Sustainable Development Goals (SDGs) and Ten Principles.

We continue to establish goals aligned with key principles set forth in the UN SDGs.





Our Pledge to Environmental Stewardship and the Health and Safety of our Employees and Communities

Health, Safety, and Environment (HSE) Mission and First Guiding Principle

Our HSE Mission states that our highest priority is to manufacture, market, and distribute products in a responsible manner that not only protects the environment but also safeguards the health, safety, and security of employees, contractors, customers, and the community. Our first Guiding Principle demonstrates our commitment to safety. It indicates that we will operate safe and secure workspaces and support each other in working safely. In short, we put HSE above all else.

The Approach

Respecting HSE is a core value for us at PQ Corporation. Our underlying HSE values guide each of our actions throughout our workday, and become entwined in our solutions, reflected both internally and externally. We have found that these values also translate into behaviors that can be modeled continuously and help define what each one of us can do to become an HSE leader. We see it in action through our experienced and dedicated workforce. Our team is creative, takes pride in their accomplishments, and is willing to go the extra mile. We empower our workforce to do the right thing and to lead Behavior-Based Safety Teams*, Joint Health and Safety Committees**, and other critical teams across our organization.

We strive to achieve HSE excellence through an integrated HSE management system comprised of the:

- HSE Mission and underlying Guiding Principles;
- Life-Saving Behaviors, outlining our most fundamental health and safety requirements;
- HSE Perfect Days Process, through which we strive to complete each day without any workforce injuries or environmental incidents;
- 20 PQ Principles, which focus on behavioral and operational safety, as well as environmental stewardship;
- Joint Health and Safety Committees and other teams; and
- Participation in Responsible Care® as a member of the global chemical associations such as ACC, CIAC and Cefic; and Certification to RC14001®/ISO14001 Standards.

To read our HSE Mission and Guiding Principles document, please visit [our website](#).



Our HSE management systems are designed to encourage incident-free days and drive continuous improvement across all of our businesses.

HSE Perfect Days Goal

Achieve HSE Perfect Days at least 90% of the time across all businesses by 2022.



We take our employees' health and well-being very seriously. At PQ, we strive to complete each day without any material employee injuries or environmental incidents, so we instituted our HSE Perfect Days Program to measure our progress toward that goal and to drive continuous improvement in health, safety, and environmental performance.

We are committed to following industry best practices, and we have set annual HSE Perfect Day and Total Recordable Incident Rate goals and targets that link to performance and drive accountability.

We define an "HSE Perfect Day" as a day without:

- OSHA recordable injuries;
- First aids requiring professional assistance;
- Level 1 or greater releases;
- Deviations from environmental permits and HSE legal requirements;
- HSE Notices of Violation; and
- Life-Saving Behavior violations.

We fundamentally believe that all non-conformities are preventable and are committed to increasing our company-wide "HSE Perfect Days" annually, with the ultimate goal of maximizing zero-incident days.

QUICK FACT:

We started tracking "HSE Perfect Days" in 2019. Three out of four of our businesses had "HSE Perfect Days" more than 89% of the time in 2019.



HSE Management System

We have a comprehensive HSE management system that promotes continual improvement of HSE performance. This approach includes a “Plan-Do-Check-Act” system to evaluate risk, plan for improvements, implement controls, monitor processes, and make corrections or other improvements. Our HSE management system is aligned with the ISO14001 and chemical industry RC14001® standards and reflects the commitments as established in our HSE Mission and Guiding Principles.

PLAN – Prioritizing resources and actions based on the risks and opportunities we systematically identify.

Our system continually assesses and prioritizes the organization’s risks and opportunities related to HSE “aspects and impacts.” We determine the exposure of our operations and business activities and find ways to reduce (i.e., mitigate) and eliminate risk. The aspects review is a comprehensive risk evaluation across a whole range of programs, and it is an integral part of how we manage our business. Further, we use this process to identify opportunities to enhance or improve our impact on the environment and our employees’ health and safety.

DO – Executing our plans and implementing controls to address the risks and opportunities in our operations.

Upon identification of HSE aspects, impacts, and plans for improvement, we determine what operational and/or administrative controls are currently in place or need to be implemented/enhanced to address risks or maximize the HSE benefits of our opportunities. The controls and mitigations we identify become the foundation for our integrated HSE management system. In cases where our controls do not prove effective in preventing risks from occurring, we implement our emergency planning and response process to reduce the HSE impact of any unplanned event. We test this response process through physical drills and tabletop exercises.

CHECK – Monitoring our HSE controls and processes.

We monitor the controls and safeguards in place to ensure we are meeting our commitments. This monitoring and review also applies to the objectives we have to improve on an ongoing basis. Monitoring includes, but is not limited to, tank inspections, field audits, stack emission review, energy consumption, and waste reviews. We periodically audit our HSE programs and performance using internal resources and external expertise.

PQ Corporation’s HSE management system has been ISO14001 certified, and the headquarters and manufacturing sites are under a regular surveillance audit program to verify that our system is meeting the expectations of our certification bodies.

Additionally, we review our progress towards the goals that we have developed during our planning process. As part of our analysis, we evaluate changing circumstances, stakeholder feedback, changes in legal requirements, and product safety concerns.

ACT – Our process to continually improve.

Our continuous improvement cycle ensures that actions focus on system performance. All HSE incidents are immediately addressed and mitigated. These incidents are reported through a defined upward reporting process that involves internal and external parties as defined and necessary and sometimes are extended to our Board of Directors. Investigations of incidents and nonconformities are a critical part of our management system. We evaluate findings and attempt to determine the root cause of issues to develop systemic improvements to prevent future recurrence. To improve performance across the organization, we share these learnings through a 30-Minute Review process so that others might learn and develop similar improvements. All improvements are captured and communicated through several tracking systems and mechanisms.

For over 15 years, our HSE management system has been certified to international standards. We continue to enhance our Plan-Do-Check-Act improvement process using these strategies.



Responsible Care®



Across PQ Corporation, we adhere to the American Chemistry Council's (ACC) Responsible Care® program requirements and the Product Safety Code, which drives continuous improvement in chemical management.

We are fully committed to the health, safety, and security of our employees, customers and end-users. We strive to improve health, safety, environment, and security (HSE&S) performance for processes, products, and facilities across our organization and our operating systems. We believe our adherence to Responsible Care® allows us to not only naturally enhance our company's performance, but also improve the health and safety of our employees, the communities in which we operate, and the overall environment.

RC14001®/ISO14001 Standards Goal

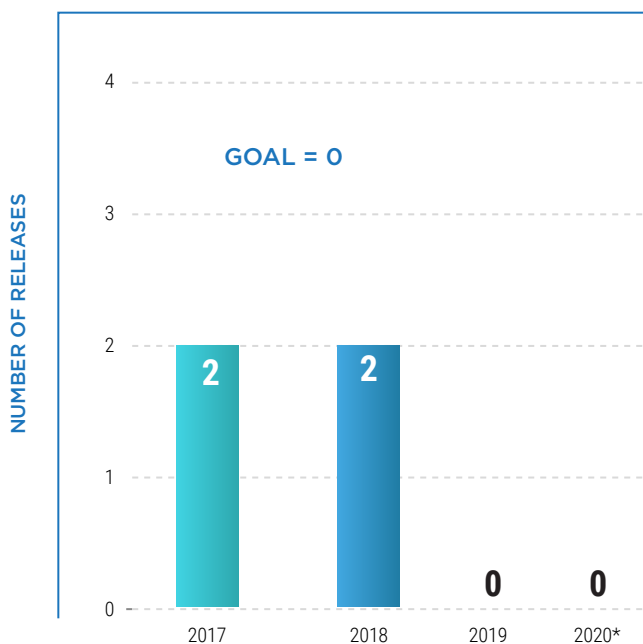
We have implemented RC14001®/ISO14001 Standards at all of our U.S. and Canadian Performance Chemicals, Catalysts, and Refining Services sites.

Currently, with 80% of our global operating sites certified to ISO14001, we are driving to increase our ISO14001 certification to 100% across all operating and R&D sites by year-end 2023.

Environmental Release Goal

No releases from our sites causing significant adverse impacts to the environment in 2020 or beyond.

LEVEL 3 ENVIRONMENTAL RELEASE HISTORY



*2020 Data as of 5/31/2020

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Our unwavering goal is to become an industry leader in HSE performance. In 2019, we achieved our lowest TRIR in a decade-approaching the American Chemistry Council's (ACC) Top Quartile safety performance and there were no Level 3 environmental releases for the first time in the history of our recording them.

TRIR Goal

As reported by the member companies within the ACC, our target is to achieve top quartile TRIR performance in the chemicals industry by the end of 2020.

SAFETY PERFORMANCE DATA AS OF 2019

21 # of Recordables

0.58 Recordable Incident Rate

3 Restricted Duty Cases

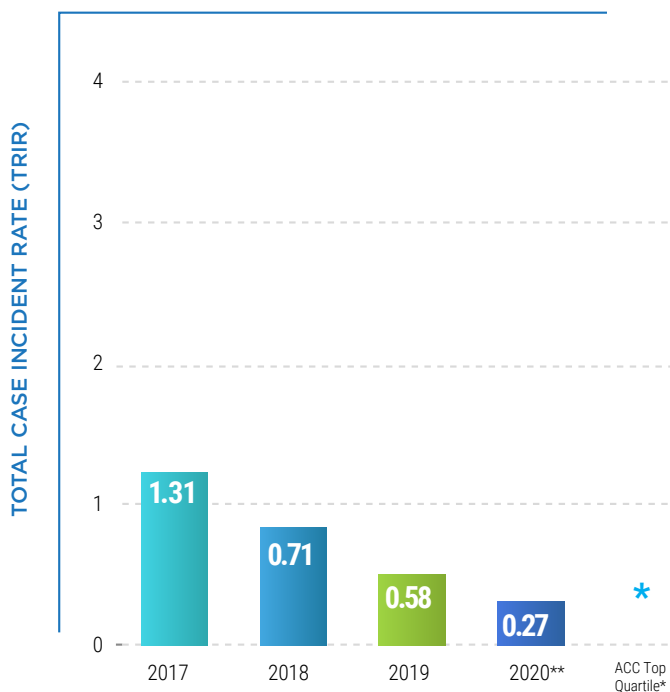
0.08 Restricted Duty Incident Rate

11 Lost Time # of Cases

.31 Lost Time Incident Rate

INJURY/ILLNESS TRIR PERFORMANCE


EMPLOYEES (PER 200,000 HOURS WORKED)




* Based on 2019 American Chemistry Council Data in which the top quartile was 0.38

**2020 Data as of 5/31/2020

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**We apply Best Practices
across all of our facilities
worldwide—to ensure the
safety of our employees
and the community.**



Process Safety

PQ Corporation has global operating processes in place to protect our employees, the community, and the environment. We have robust systems to control processes, and any changes to those processes are reviewed before implementation to ensure the safety and well-being of all personnel. Specifically, we have implemented the PQ Principles, which are 20 tenets (10 Behavioral and 10 Operational), to help prevent workforce incidents and injuries, as well as to preserve asset integrity and avoid loss of containment.

Behavioral Safety and Operational Safety

As part of Behavioral Safety, our employees and managers focus on risk, injury, and incident prevention with the basic understanding that all incidents are preventable. Injuries and incidents, including close calls, are reported and investigated to identify and mitigate the root cause of the event. Employees and contractors evaluate risk before, during, and upon completion of their work. These expectations are in place for all employees and contractors across all daily tasks. The behavioral safety principles culminate with the principle that safety of the operation, above all else, is the top priority for each of our operating sites.

Operational Safety focuses on maintaining the integrity of all assets and avoiding loss of containment. The plant managers are responsible for the overall integrity of their respective sites. PQ's Operational Safety measures include the identification of process hazards, ongoing risk assessment, review, and management thereof. All changes to procedures and processes require that we follow our Management of Change (MOC) practices to ensure the proper implementation and execution of the change, including training for all personnel involved. As part of PQ's approach to Operational Safety, we also require that sites conduct drills to test emergency response preparedness and execution with post-drill assessments in an effort for continuous improvement. We have processes in place to periodically inspect all assets to ensure the integrity and reliability of their protective systems.

We have an evergreen auditing process in place, which enables us to check for any deficiencies and make corrections on a timely, ongoing basis. By 2024, we will have completed our current audit phase of our operating facilities. At that point, we intend to begin our cyclical audit process again, fully testing each site every four years.

Strict Adherence to Guidelines

While only a few of our plants in the United States are subject to the OSHA Process Safety Management Program (PSM) or the Environmental Protection Agency's (EPA) Risk Management Program (RMP), we apply Best Practices across all of our facilities worldwide—going above and beyond local requirements to ensure the safety of our employees and the community.




Doing our Part to Reduce Environmental Impacts for a Better Tomorrow


With decades of internal environmental reporting across PQ businesses and with a focus on improving our sustainability processes, we began a corporate-driven effort to capture consistent environmental metrics for energy, waste, and water in 2018. In 2019, we made improvements to our data collection process, including aligning with Sustainability Accounting Standards Board (SASB) and Global Reporting Initiative (GRI) Standards' definitions and metrics. We follow the Greenhouse Gas (GHG) Protocol to calculate our Scope 1 and Scope 2 greenhouse gas emissions for all manufacturing, research, and large office facilities. PQ, as it looks today, was formed in 2017, and following the GHG Protocol, the organization has defined its baseline year as 2018. To read our SASB Index, [click here](#). To read our GRI Index, [click here](#).

To ensure our baseline data for greenhouse gas emissions, energy consumption, waste management, and water consumption provide a solid foundation from which PQ will define future goals and targets; we partnered with iCompli*** to [verify our data and provide assurance](#).

Once our 2019 sustainability data verification process is complete and all management gaps are closed, PQ Corporation's leadership team will finalize our newest sustainability goals covering energy, waste, and water management. We look forward to sharing those goals and our 2019 data in our next Sustainability Report.



PQ Corporation is committed to the efficient use of our resources while minimizing the negative impacts of our operations.



Environmental Stewardship

PQ Corporation is committed to the efficient use of our resources while minimizing the negative impacts of our operations. PQ's environmental stewards collaborate to reduce energy consumption and improve waste management practices, sharing best practices across the organization. PQ environmental professionals located worldwide are empowered to drive improvements in partnership with the wider organization through focused initiatives that meet the local needs of sites, communities, customers, and other stakeholders. A similar team of professionals provides analogous services in the health and safety arena. The Vice Presidents of Environment and Sustainability as well as Health and Safety lead these groups, respectively, thus supporting PQ's efforts to achieve top-quartile HSE performance.

Examples of environmental management system in action include:

- Our physical locations, including the global headquarters, global research and development, and a majority of manufacturing facilities, have completed environmental impact assessments that include an evaluation of energy efficiency impacts, waste, and recycling opportunities. We evaluate the findings from these assessments, along with other HSE impacts, and have created improvement plans where needed.
- The management of change (MOC) process evaluation tool, called eMOC, has significant considerations for the environmental impacts of process and operational changes. As a result, our capital improvement processes include evaluation of the HSE impact of any process modifications (including any effect on the environment and the community) and allow for management information regarding improvements that directly benefit the environment.
- The transportation risk assessment process evaluates the potential for environmental impacts and improvement opportunities based on the mode of transport and type of materials. We use this process to develop and implement evaluation and performance criteria for third-party relationships.

Our Environmental teams throughout the world work to identify new initiatives to reduce energy consumption on an ongoing basis.



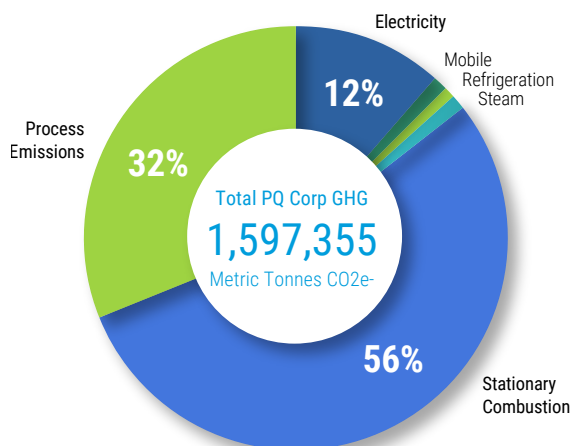
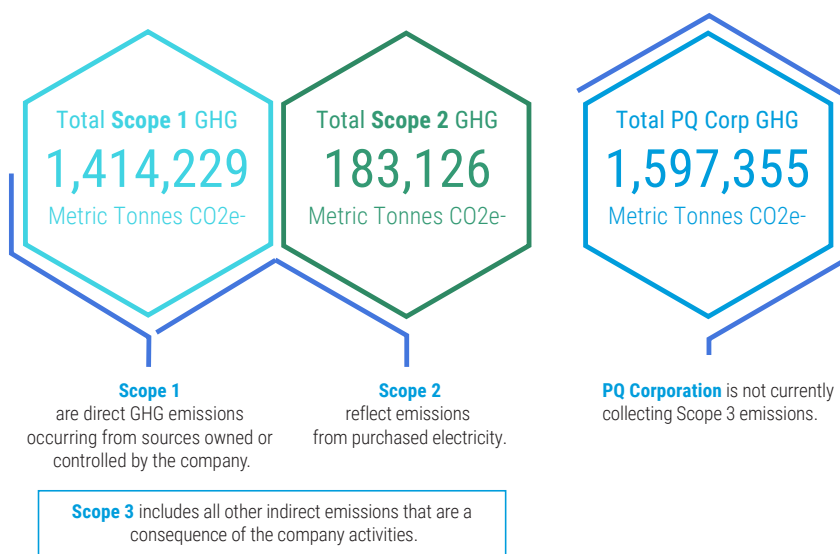
Greenhouse Gases and Energy Consumption

We have been calculating our greenhouse gas impacts since 2000 for all sites in the United States and select global facilities. In 2019, we began a focused corporate-wide alignment initiative to capture energy data and calculate greenhouse gases with a single methodology enabling improved comparison across facilities. As part of this effort, we partnered with iCompli to assure our 2018 baseline data. We collated energy data from 76 manufacturing, technology, and office locations following the World Resources Institute/World Business Council for Sustainable Development (WRI/WBCSD) Greenhouse Gas (GHG) Protocol Corporate Accounting and Reporting Standard.

We are committed to reducing carbon emissions from our operations around the world and, once we have evaluated our newly assured greenhouse gas data and reduction opportunities, will identify and report on specific reduction goals in future Sustainability Reports. Our intention is to set significant numerical goals in this area that are practical and realistic, but will also result in positive environmental impacts.

2018 Total Greenhouse Gas Emissions at the company level:

According to the GHG Protocol Corporate Accounting and Reporting Standard – Revised Edition





Councils work in conjunction with each other to develop environmental improvement opportunities by finding synergies between manufacturing, engineering, and the supply chain.



Energy management is an important component in reducing our carbon footprint; therefore, our goal in this area is to define and implement Energy Management Plans at all sites by the end of 2025. Our Engineering and Environmental teams throughout the world work to identify new initiatives to reduce energy consumption on an ongoing basis.

Examples of our process to identify and implement energy reduction improvements include:

- A major factor in energy consumption at PQ Corporation is the use of natural gas-fired furnaces at the majority of its locations, used to produce and/or refine many of our products. We established several company-wide Councils related to manufacturing, engineering, and supply chain management, including our furnace efficiency group. This group of experts has furnace engineers with field experience in furnace management, startup/shutdown, efficiency, and output, and provides energy management best practices.
- Councils work in conjunction with each other to develop environmental improvement opportunities by finding synergies between manufacturing, engineering, and the supply chain. The capital improvement process has generated multiple energy recovery solutions generated by these and other initiatives.

Environmental Stewardship Goal #1

Implement Energy
Management Plans at all
sites by 2025.

Our environmental stewards across the company continually strive to reduce waste through process improvements.



Waste

We are committed to waste minimization principles and the proper handling, transport and disposal of any wastes generated at our sites. We strive to maintain full compliance with applicable regulatory requirements in this area wherever our sites are located. Our environmental stewards across the company continually work to reduce waste through process improvements and the search for beneficial new uses for our co-product material. Examples of these improvements include:

- Our Refining Services business developed a process in 2017 to enhance the production of sodium bisulfite to enable it to become a wastewater treatment chemical. In 2018 and 2019 alone, we produced and sold approximately 60,000 tons of sodium bisulfite for wastewater treatment.
- We recycle tons of furnace bricks in our Performance Chemicals business annually. The recycled bricks are then used in adjacent industries, eliminating landfill disposal.
- Our Performance Materials group developed a co-product market for material previously landfilled, emphasizing sustainability improvement through waste avoidance. This material, previously considered waste, has saved disposal costs and created a non-landfilled product opportunity for several facilities.
- We are also exploring potential beneficial reuse of our Aluminum-containing non-hazardous waste, which would reduce this waste stream by about 75%.

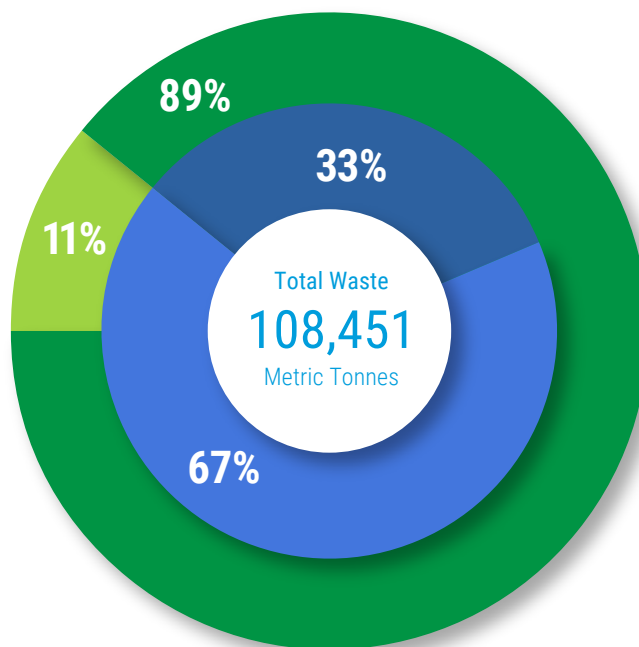
We are making efforts to reduce process waste disposal across our global facilities as part of our sustainability initiatives.

In line with our value of giving Proper Concern to address business impacts, a deeper look at our Catalyst business' hazardous waste shows that it accounts for 7% of PQ's total waste. This business also contributes to 11% of PQ's recycled waste. Due to discharge regulations at one site, process wash water containing less than 5% organic loading is disposed of as hazardous waste, thus representing a significant component of PQ's total hazardous waste generation. Among other options, this site is evaluating the potential to evaporate the water content of this waste stream, which could reduce hazardous waste disposal attributed to the Catalyst business by up to 70%.

We continue to responsibly manage the handling, transport and disposal of this stream and other hazardous wastes in compliance with regulatory requirements and Good Management Practices. A significant proportion of PQ's sites are either small quantity generators or, in some cases, very small quantity generators of hazardous waste as defined by the U.S. Environmental Protection Agency. Our goal is to reduce process-related hazardous waste disposal by 40% from our 2018 Baseline by the end of 2023.

**Environmental Stewardship
Goal #2**

Reduce process-related Hazardous Waste disposal by 40% from 2018 Baseline by year-end 2023.



● Total Waste Disposed	● Hazardous Waste
● Total Waste Recycled	● Non-Hazardous Waste



PQ tracks and reviews its water impacts and releases as a part of HSE Perfect Days metrics reporting and reviews.

Water

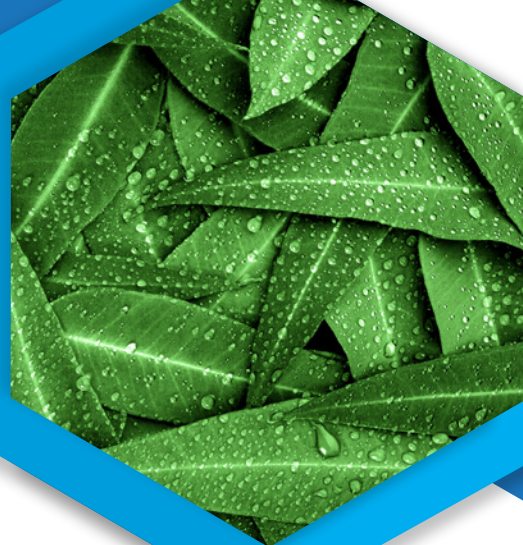
Water scarcity and quality is a growing concern for communities. PQ Corporation has enhanced efforts to improve its water data collection processes and site water balance data towards the implementation of a robust water management program. As part of our 2018 baseline data verification, iCompli assured our water withdrawal from municipal and surface waters. As we continue our sustainability journey, we are dedicated to improving our water data and management programs.

PQ Corporation works closely in partnership with municipal water authorities in the areas in which we operate. This includes managing our water inputs and outputs with direct communications related to levels of output, stormwater impacts, and compliance with our spill prevention control and countermeasure (SPCC) plans. Sites manage and continually inspect secondary containment, stormwater outflows, and pipe integrity. Leaks and spills are reported and reviewed through incident management processes, including emergency mitigation plans. PQ tracks and reviews its water impacts and releases as a part of HSE Perfect Days metrics reporting and reviews. In 2018, our total water withdrawn was 23,224,125 Cubic Meters.



Environmental Stewardship Goal #3

Complete water balances
at sites in water stressed
areas by 2025.



Our Commitment to Product Innovation and Product Stewardship

Innovation is at the Forefront of our Sustainability Efforts

"Energy reduction, waste reduction, use of environmentally-conscious raw materials, yield improvement, and low emissions comprise some of the key targets that form PQ Corporation's innovation and technical support projects portfolio. Our development programs on existing and new process technologies, as well as the industry solutions we provide through our product offerings, utilize such factors. About two-thirds of our innovation projects are linked to sustainability."

– Ufuk Senturk, Vice President, R&D and Technology

PQ Corporation's Conshohocken Innovation Facility, located in Pennsylvania, U.S., was established in 1975. It is home to 31 laboratories, with over 100 employees. This facility has a 3,500 ft³ laboratory space with bench to 1,000lb scale-up capability and a 16,600 ft³ pilot facility for scale-up to 100,000 lb batches. The facility provides global support to the entire company and operates 24/7 to enable scientists and engineers to maximize their efficiency. In addition, we have four other innovation facilities around the world to support our R&D efforts.

Innovation Facilities

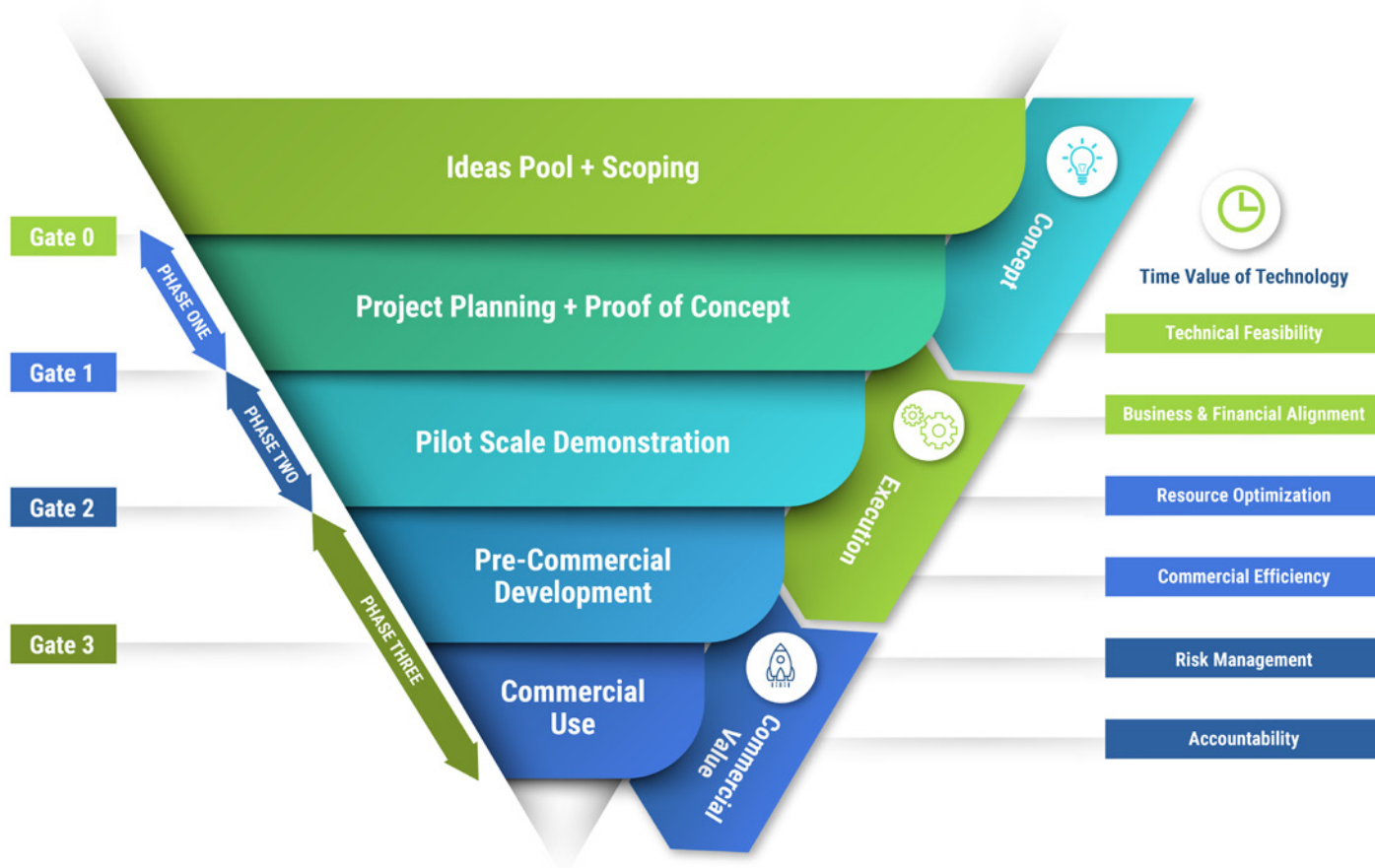
Conshohocken, Pennsylvania, United States	Warrington, United Kingdom	Eijsden, Netherlands	Toronto, Canada	Castellbisbal, Spain
<ul style="list-style-type: none">• Zeolite and silica synthesis, catalysis, glass beads, road marking, glass surface modification• Extensive pilot capability	<ul style="list-style-type: none">• Silica and zeolite synthesis and applications in personal care, surface coatings & brewing• Strong pilot capability in silica manufacture	<ul style="list-style-type: none">• Silicate and zeolite applications, particularly in detergents, pulp and paper	<ul style="list-style-type: none">• Silicate application in pulp and paper, oil and gas production, mining, and water treatment	<ul style="list-style-type: none">• Pavement markings performance testing• Engineered glass material applications and testing



Our Innovation Pipeline with a Global R&D Footprint

Our expertise in silicates, silica, zeolites, glass, and catalysts technologies, coupled with our robust product development pipeline, drives growth and improves our competitive value proposition. We provide a diverse range of industry solutions through our five global R&D locations where we have extensive laboratory and pilot-scale capabilities to refine process economics and benefit to customers, and technical support for large-scale commercialization.

We follow a staged and peer-reviewed approach in our innovation process, depicted as follows:



At PQ Corporation, products having sustainable attributes include those which lead to:

- Reduction of Waste
- Reduction of Energy
- Reduction of Water
- The Health and Safety of Customers and the Environment
- Improved Product Safety
- Improved Resource Efficiency
- Circular Economy

Aligned with lifecycle thinking, PQ considers these attributes anywhere along the value chain, i.e., each step in the lifecycle.





Sustainability in R&D

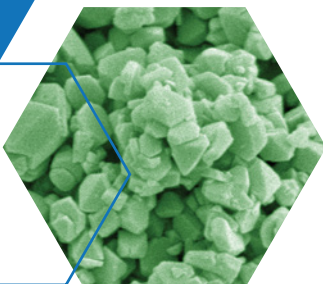
Zeolites for Emission Control

Our expertise in zeolite and catalyst technologies and focus on innovation have enabled the development of zeolite products for the reduction of nitrogen oxides, a pollutant emitted by diesel-powered vehicles. Since 2010, at least six of our zeolite products have been implemented globally in vehicle emission control technologies. Our research and development efforts continue to introduce new products to strive to meet increasingly tightened emission regulations around the world.



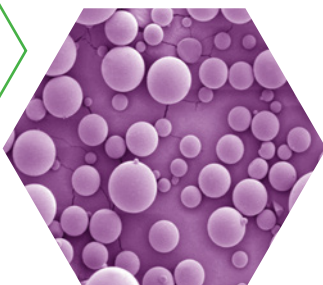
Zeolites and Silicates for Controlling Lead Release in Drinking Water

The development of zeolite products is allowing for more effective removal of lead from potable water, while application support for the use of liquid silicates in municipal water is eliminating the release of lead from lead-based pipelines.



Hollow Microspheres for Lightweight Materials


We develop hollow microspheres which aids in the lightweighting of resin-based composite materials. This allows for a reduction in resin demand in downstream manufacturing. These hollow microspheres contribute to the design of lightweight parts that can help lower energy consumption and emissions, for example, in the automotive industry.




Product Stewardship and Product Safety

We are dedicated to delivering products that are safe for their intended use throughout the life of the product. We implemented a comprehensive product safety and product stewardship process to ensure that the hazards of our products, if any, are periodically evaluated and that the risks identified are appropriately managed to:

- Minimize potential impacts to health, safety, and the environment;
- Provide relevant information and assistance regarding the proper use of our products is provided to our commercial partners and other relevant stakeholders; and
- Manufacture and sell products in compliance with the laws and regulations that govern them.



Our highest priority is to manufacture, market, and distribute products in a responsible manner that protects the environment.



We Make Safe Products

Our core products are used in a wide range of industries. These materials are generally classified as safe, low-risk materials that are not included on regulatory Chemicals of Concern Lists or Toxic Chemicals Lists. Based on their chemical and physical properties and combined with their toxicological and ecotoxicological profiles, PQ products are not considered a significant risk to the environment or consumer for their intended use. Across our total products:

- 0% are Cat1 Carcinogens (Cat1 = known or presumed to have carcinogenic potential for humans)
- Our products do not contain endocrine disruptors
- Our products are not Genetically Modified Organisms (GMOs)
- Our products are not Persistent Bioaccumulative Toxic (PBT) Chemicals
- All of our products are classified according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

At our Catalyst sites, we produce over nine million pounds of products, of which approximately 75% have been classified by the Globally Harmonized System of product labeling as not requiring a hazardous label.

Assessing our Products

Our product stewardship program includes completing risk reviews for new products and characterizations for the materials we manufacture, prioritizing chemical risks, recommending risk management actions where needed, and making chemical health and safety information available to the public. Our highest priority is to manufacture, market, and distribute products in a responsible manner that protects the environment and safeguards the health, safety and, security of employees, contractors, customers, and the community.

**Evaluate Hazards
of Products**

**Effectively Communicate Information
Pertaining to Proper Handling, Use,
and Disposal**

**Manage Risk to Minimize HSE
Impacts to Employees, Customers,
Public, and Environment**

**Assure Products are in Compliance
with the Laws and Regulations
Throughout Lifecycle**



As an organization, we look for solutions in bringing products to market that are beneficial to people and the environment.

Under the Product Safety Code, PQ implemented 11 industry best practices to evaluate and continuously improve product safety performance. Adherence to these practices is mandatory and verified by auditors.

PQ Corporation's products are compliant with the regulatory jurisdictions in the countries where they are sold and manufactured. We have registered all products sold and manufactured in the European Union under the REACH® program. Additionally, all materials sold in the United States are on the Active TSCA inventory in the United States.

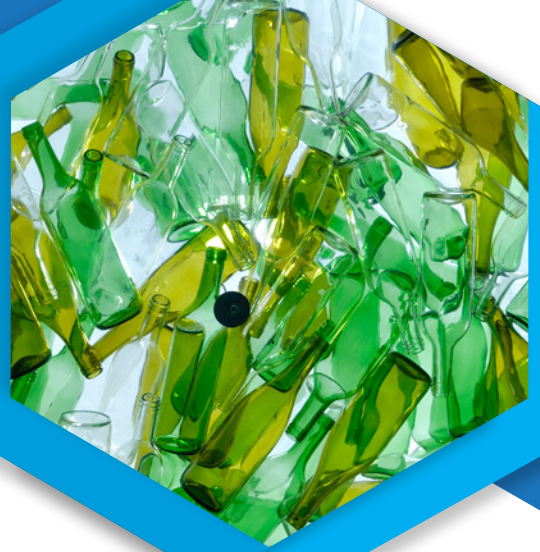
We rank products based upon risk from highest to lowest. Products with the highest potential risk ranking have publicly available product stewardship summaries that outline the hazards, exposures, risks, and recommended risk management actions that should be taken. Risk ranking encompasses inherent risks (toxicity, corrosivity, flammability, etc.) and product end-use.

The Role of our Product Stewardship Team: Life-Cycle Analysis and R&D Collaboration

Our Product Stewardship Managers evaluate new products across their full life cycle. The methodology assesses HSE impacts from cradle to cradle, for all new products. Our Product Stewardship team also pro-actively works with PQ's Research and Development organization to redesign products containing substances of potential concern, where technically feasible. As an organization, we look for solutions in bringing products to market that are beneficial to people and the environment for their intended use.

For more information on Product Stewardship, please refer to [our website](#).

For more information on our Product Safety Requirements or to request a Product Stewardship Summary, you may contact the Manager of Product Stewardship/Safety at erin.bendig@pqcorp.com.



Our Sustainability Activities by Business Unit: From Recycling to Reducing Waste

Refining Services / Eco Services



Kurt Bitting
President,
Refining Services

"In 2019, Refining Services safely recycled 4.9 million barrels of spent sulfuric acid for refineries. We recovered over 100,000 MW of electricity and generated Sulfuric Acid products used to produce Alkylate, a high-octane gasoline component, as well as many other widely used basic materials. Our 2020 goal is to increase our recycling capabilities to over 5.1 million barrels."

– Kurt Bitting, President, Refining Services

Decreasing the Need for Fossil Fuels by Generating Excess Electricity

Our Eco Services business captures waste heat from the recycling process and harnesses that power to produce steam for electricity generation. Through this heat recovery to electricity process, Eco Services produces 93.5% of its total electricity demand. This innovative process leaves only a fraction to be purchased, thereby reducing PQ Corporation's overall carbon footprint.

Repurposing By-products

Although our plants generate small amounts of by-products, we have developed numerous methods to reuse these sulfur-based by-product streams to reduce waste and other raw material consumption. Our by-product strategies include producing valuable water treatment chemicals utilized by city and municipal water treatment facilities and liquid fertilizer products that add valuable nitrogen and sulfur nutrients into the soil.



All of these efficiencies add up to lower consumption of raw materials and fewer harmful chemicals into the environment.

Reducing our Reliance on the Consumption of Raw Materials

Maintaining the appropriate wastewater pH is critical to ensuring that PQ's water discharges meet operational and permit requirements. If adjustments should be needed, sulfuric acid and energy are required to mix the settling pond uniformly. As a further challenge, light increases algae growth which will negatively impact the pH of the water. To decrease algae growth and reduce the consumption of raw materials, our Eco Services business installed floating blocks, interconnected over the surface of the settling ponds, to block sunlight. This solution eliminated 100% of the bleach usage in the ponds. It also reduced 80% of our cooling tower water and cooling tower chemical usage for the ponds, decreasing the overall time we have to run the cooling tower. All of these efficiencies add up to lower consumption of raw materials and fewer harmful chemicals into the environment.

Catalysts / Zeolyst® International



Ray Kolberg
President,
Catalysts Group

"Our Zeolite Catalysts product group produces innovative materials that reduce Nitrogen Oxide (NOx) emissions from diesel engines emissions by a minimum of 80% and reduce sulfur in fuels, helping drive sustainable clean air solutions. For over three decades, we have operated this group through our Zeolyst International Joint Venture."

—Ray Kolberg, President, Catalysts Group



Pollution Reduction Through Creative Reuse of Solvent

Our Catalyst business developed a creative solution to reduce pollution. We have a process that uses alcohol as a process solvent. While most of this material is recovered in the manufacturing process by distillation, there is a portion of that material that was previously sent to a cement kiln for energy recovery in the cement-making process. In 2019, over 300,000 pounds of the process solvent were used to clean tank trucks, reducing its harmful effects on the environment.



Recycling and Reusing Ammonium Nitrate Solution to Reduce Environmental Impacts

Several products require treatment with an ammonium nitrate solution. While the process recycles the ammonium nitrate solution multiple times in the process, eventually, the ammonium nitrate solution becomes spent and can no longer be used in our process. As part of a reuse effort, this spent dilute ammonium nitrate solution is then sent to a fertilizer manufacturer and is used as a raw material in that company's production process. In 2019 alone, we sold nearly 10,000 tonnes of ammonium nitrate solution to be reused as raw material.



Performance Materials / Potters®



Scott Randolph
President,
Performance Materials

"We strive to systematically reduce our total energy consumption through conservation, process improvement, and waste recycling to reduce our overall carbon footprint. In fact, between 2016 and 2019, we had increased our energy efficiency by 14%, and we are optimistic that this trend will continue with our ongoing process improvements."

– Scott Randolph, President, Performance Materials



Converting Expendable Particles of Glass Beads into Usable Materials

In the production of our Potters® glass beads, very fine particles of glass that cannot be recycled in the ordinary manufacturing process are then cleaned from the air streams and collected for reuse. We then sell the collected fine glass particles so they can be converted into other products which have multiple industrial and commercial uses. Secondly, many plants use cullet as the raw material feed to our glass bead manufacturing process. This cullet is actually glass that is no longer usable from a variety sources including broken windows and vehicle windshields. As such, we are able to reuse a material that would have normally gone to landfills.



Reducing Waste and the Use of Materials, Energy, and Natural Resources to Increase Efficiency

Most of our products are hydroscopic, requiring that we use moisture-blocking polymer layers in the packaging. Instead of using polymer-coated paper to protect our products, which is difficult to recycle, PQ Corporation instead uses 100% polymer packaging or a combination of individual layers of paper and polymer which can be separated for purposes of recycling. Further, we have adopted stretch-hood technology instead of stretch-wrap technology wherever possible—resulting in less polymer usage and more capabilities to recycle the underlying materials.



Performance Chemicals

Al Beninati
President,
Performance Chemicals



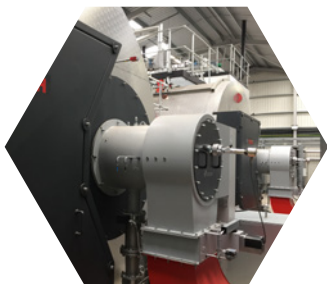
"Through our Business Transformation efforts, we are driving wastewater and in-process waste reduction, furnace efficiency, and footprint optimization, all of which have a major impact on our carbon footprint and sustainability goals."

- Al Beninati, President, Performance Chemicals



Recycling Refractory Brick from Furnace Rebuilds Across the Country

In the past three years, PQ Corporation's Performance Chemicals group has recycled refractory brick from furnace rebuilds in the United States, including four plants in Chester, Pennsylvania; Baltimore, Maryland; Augusta, Georgia; and Jeffersonville, Indiana. The materials are recycled back into steel production, ceramics, and refractory manufacturing, and are not contributing to landfill waste.



New Utility Plant Facility: Cleaner and Low-Profile with Advanced Operating Efficiencies

Our South Bank, Warrington, United Kingdom utility plant, built in partnership with Veolia Energy Solutions in 2017, replaced an older fossil fuel-dependent plant with a more environmentally preferred facility. This much cleaner combustion plant is designed to be as thermally efficient as possible. It produces virtually no particulate and very low levels of SOx. When it was commissioned, this was one of the most thermally efficient, low-polluting gas-fired boiler plants in the country. The condensing economizer utilizes the heat in the boiler waste gases to preheat the combustion air and feed water to the boilers, enabling the plant to run at a ~88% thermal efficiency. Against the old plant, the new plant has seen a reduction of 64,800 therms of energy consumed, resulting in over 3,690 tons reduction of CO2 being released into the environment.



Our Ongoing Commitment to Ethical Behavior and Good Governance

Tone at the Top

Our commitment to ethical and lawful behavior starts with strongly held ethical beliefs among our Board of Directors and executive leadership and permeates our entire organization. Continuing a long-standing practice, our Chairman and CEO, Belgacem Chariag, and our Vice President, General Counsel and Chief Compliance Officer, Joe Koscinski, have signed and issued to our organization an Executive Statement on Ethics and Compliance, which is a summary version of the principles of ethics, integrity, fairness, and compliance that all PQ employees are expected to adhere. Through regular trainings and communications, our compliance team also reinforces the expectation that all PQ employees must work in an ethical and lawful manner.

Governance

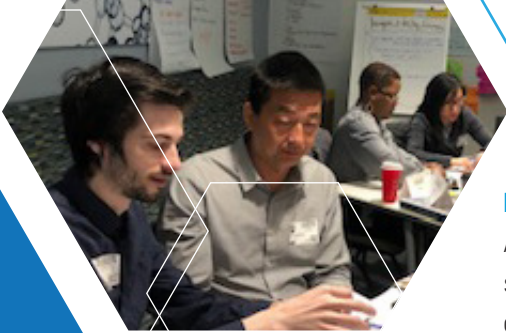
Our Board of Directors abides by the highest of ethical standards and acts with integrity, reflecting the values of PQ Corporation. Our President and Chief Executive Officer, Belgacem Chariag, is the Chairman of the Board of Directors. The four Committees of our Board of Directors are as follows: Health, Safety, Environment, and Security (HSES); Audit; Compensation; Nominating and Corporate Governance.

Three of our Board Members comprise the Health, Safety, Environment and Security Committee, which oversees our Sustainability initiatives. The Committee reviews the company's HSES policies and performance, including management systems, to ensure compliance with applicable laws, regulations, and company standards. This Committee also reviews and provides input on the management of current and emerging HSES issues. They meet at least twice a year, and additionally as appropriate, providing direct input to the management of the Company.


For more information and to read our Governance Documents, please see [our website](#).

Business Continuity Planning

Our businesses, like virtually all others around the world, have been impacted by the spread of the COVID-19 pandemic in 2019-2020. As we strive to mitigate impacts to our employees, customers, and stakeholders, we are actively engaged in our business continuity planning processes. This crisis has tested the world in ways we had hoped we would never have to face. However, because of our strong planning in place, we have reduced global impacts to our customers throughout the crisis.




We have committed to an Enterprise Risk Management (“ERM”) process and the creation of an ongoing risk management program.




Enterprise Risk Management (ERM)

As part of our ongoing commitment to adhere to the highest corporate governance standards, we have committed to an Enterprise Risk Management (“ERM”) process and the creation of an ongoing risk management program. The Board of Directors, through its Audit Committee, provides oversight of ERM and supports management in achieving strategy and business objectives. Our management is responsible for all ERM activities and for ensuring that ERM responsibilities are well communicated and understood throughout the organization. An ERM Council consisting of senior executives and company leaders was established by the CEO and has the authority to conduct assessments and obtain advice and assistance from outside legal, accounting, or other advisors, as necessary, to perform its duties and responsibilities. The General Counsel and Director of Internal Audit are the ERM Program Leads and ensure the ERM Council fulfills its role and responsibilities as summarized below:

- Ensuring that PQ Corporation has identified and assessed the material risks that the organization faces and has established a risk management infrastructure capable of addressing those risks;
- Overseeing, in conjunction with Audit Committee or the full board, if applicable, risks, such as strategic, financial, credit, market, liquidity, security, property, IT, legal, regulatory, reputational, and other risks;
- Overseeing the division of risk-related responsibilities within the Company as clearly as possible; and
- Approving the Company’s enterprise-wide risk management framework.



We believe having every employee complete the Code of Conduct training is critical to our success.



Code of Conduct

Our corporate culture is built on the personal integrity and honesty of every employee. Our business must comply with the laws of over 100 countries, and we require that each person makes decisions with the utmost integrity and the highest of ethical standards. We expect that every employee and all of our vendors closely adhere to our Code of Conduct (COC), act with integrity, and comply with all global laws wherever business is conducted. We comply with all laws against discrimination, harassment, use of child labor, and the use of forced labor. Additionally, we have a set of Life Saving Behaviors that support and reflect the spirit of our COC, by which all employees must abide.

Our Code of Conduct encompasses the following categories:

- Avoiding conflicts of interest;
- Prohibiting the receipt of inappropriate gifts and entertainment;
- Promoting and protecting health, safety, and the environment;
- Advancing integrity in finance, accounting, and treasury;
- Requiring the proper use of technology;
- Mandating compliance with all applicable laws, including laws governing competition, anti-bribery, anti-corruption and barring trade with sanctioned persons or countries;
- Prohibiting sexual harassment, workplace discrimination and violence in the workplace;
- Promoting freedom of association; and
- Prohibiting the use of child or forced labor.

Code of Conduct & Ethics Training

We conduct a reliable Code of Conduct and Ethics training program around the world to promote constant adherence to internal and external regulations and requirements. Our training programs include both in-person sessions presented by members of our compliance team, as well as computerized and recorded video training. We recently conducted the latest round of computerized training on our Code of Conduct, and as of May 29, 2020, we had achieved a 99.7% satisfactory completion rate for the training program.

As a publicly traded company, we believe having every employee complete the training is critical to our success. We know that our employees reflect who we are and what we do as a company. Ethical employees build investor confidence and minimize fraud-related costs and expenses. Our rich tradition of ethics and values guides our extensive training program. As our employees go through their training, they are reminded that every good decision reflects positively—not only on their fellow colleagues but the organization as a whole.

To read our Code of Conduct, kindly refer to [our website](#).



At PQ Corporation, we firmly believe that success achieved through the intellect and commitment of our people.



Diversity & Inclusion: Building for the Future

Inclusion in a Global Environment

Building on a global footprint that spans across 22 countries, we benefit from a diverse population where more than half of our workforce of approximately 3,300 employees are located outside the United States. This international strength, supported by our core values of integrity and fairness, allows for a rich culture founded on diversity of thought. We are proud of our highly collaborative teams that enable an inclusive workplace where our employees are encouraged to bring their own experiences to the table, promoting innovation from all levels of the organization. This constructive work environment has been reinforced with the recent rollout of a fully integrated online performance management process that improves the communication of aligned goals, encourages consistent feedback, and furthers employee engagement.

A Diverse Talent Pipeline

We remain focused on developing the careers of our engineers and professionals - 30% of which are women. Today there are women on the management teams of each of our businesses as well as all our functions: R&D, Finance, HSE and Human Resources. Over the past year, we have improved the number of female hires as our talent acquisition team continues to present diverse candidate slates and in the US, 45% of our 2019 hires were minorities. We continue to support several co-op and internship partnerships with key universities around the world that provide a strong pipeline of fresh talent.

Development and Career Growth

We have implemented a robust Emerging Leaders program, and over 150 of our high potential managers have participated thus far. The goal is to build the leadership capabilities of our emerging talent and provide the fundamental skills every leader needs to generate passion and productivity in their team. The program also provides an invaluable networking opportunity that creates a connected community of leaders at the company. Additionally, we have instituted a global succession planning process and have completed plans for the first three levels of the organization. As we continue to expand this effort, we will identify priorities and stay ahead of talent challenges to better prepare employees for their future at PQ Corporation.

At PQ Corporation, we firmly believe that success is achievable through the commitment of our people. We have, therefore, implemented a long-term human capital strategy to evolve our ability to attract, retain, and develop talent for the future.



PQ Corporation is committed to conducting business in an ethical manner that respects human rights.



Compliance Policies and Procedures

Sarbanes Oxley Compliance (SOX)

PQ Corporation's management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act. Applying the criteria for effective internal control over financial reporting described in the "Internal Control Framework" (2013) set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO), management continuously assesses the Company's internal controls and reports the results of those assessments in our periodic filings with the SEC. Our effectiveness assessments are audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm. Their opinion is also included in our periodic filings with the SEC.


Whistleblower Policy

PQ Corporation has set up a comprehensive policy for employees to report perceived ethics violations or other wrongdoing at the company. Employees are trained, via the PQ Code of Conduct, in-person training and other communications, that they must report violations to the Chief Administrative Officer, the Chief Compliance Officer, or anonymously through the PQ Concern Line, a dedicated hotline what is operated by an independent third-party organization. All cases reported either directly to company management or through the PQ Concern Line are thoroughly investigated and, when necessary, corrective actions are instituted in a timely fashion.


Complaint Investigation Process

We have had our PQ Concern Line in place since 2004. It is comprised of dedicated phone lines, both domestic and international, and an email that allows employees to have a risk-free and anonymous way to express concerns or identify activities that may be a violation of company policies, local laws, or the company's Code of Conduct. We believe our complaint investigation process supports our express interest in providing a safe and fair environment for all employees, no matter where they work within our organization.

99.7% of our employees have completed mandatory Code of Conduct and Ethics training as of May 29, 2020.



We are dedicated to protecting personal identifiable information and the company's daily operations.



Modern Day Slavery

PQ Corporation is committed to conducting business in an ethical manner that respects human rights. It is our policy that the company and its vendors, suppliers, contractors, consultants, and agents must comply with all applicable human rights laws and not utilize any form of forced labor, human trafficking or slavery, and any allegations of violations of this policy will be thoroughly investigated and, if appropriate, corrective actions will be taken. We follow the requirements of Section 54 of the UK Modern Slavery Act of 2015 and other applicable laws.

Data Privacy and Cybersecurity

Our data privacy policies are kept up-to-date and are shared with all employees. Additionally, we have detailed cybersecurity measures in place, along with distinct reporting requirements, to protect company intellectual property during employee travel to regions considered a higher risk for loss of intellectual property. The policies apply to all electronic media and devices hosting company data and to all employees, contractors, consultants, temporaries, and agents operating on behalf of the company. Our employees also are required to maintain the secrecy of third-party confidential information that may be provided to the Company and also to protect the personally identifiable information of individuals in accordance with the EU's General Data Protection Regulation and other applicable laws.

We also have a Cybersecurity Incident Response Policy in place that establishes standards for responding to any kind of cybersecurity incident. We are dedicated to protecting personal identifiable information and the company's daily operations. And finally, we have internal policies in place to provide timely responses to any form of cybersecurity incident/breach to protect the company's intellectual property, as well as abide by all relevant local laws.

We are One With the Communities in Which We Operate



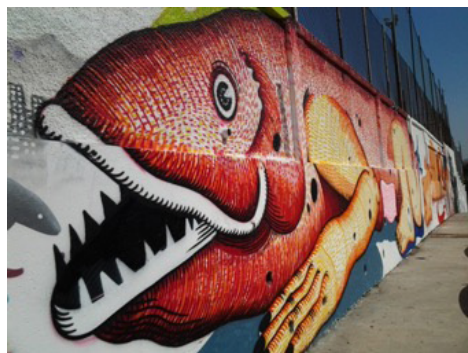
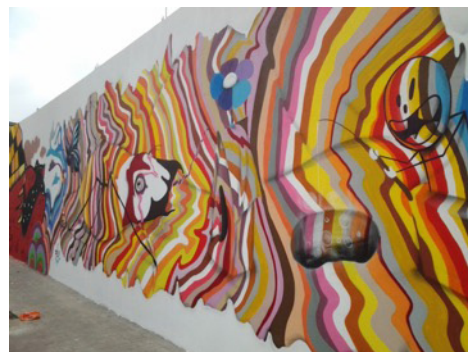
Giving back to the community is core to our businesses, both domestically and internationally. We support our local communities by providing our time and resources to improve the lives of our neighbors.

Here are some examples of our community outreach. For example:

- In January 2020 we received a "White Flag, Green Star Award" from the Director of Industrial Estate Authority of Thailand as a result of our good governance and social responsibilities;
- The Refining Services Baytown plant actively supports its local schools, the local police department and the local Community Advisory Panel, donating over 100 volunteer hours and over \$8,000 in monetary equivalent donations, supplies, and meals in 2019 alone;
- We donate aluminum cans, glass, and plastic bottles to local schools in Thailand, which they resell to recyclers to support their schools;
- The Baytown and Houston Refining Services plants also have six employees who serve as volunteer firefighters and are often called to help the community. In March 2019, they used their skills to help extinguish a huge storage tank fire at the neighboring Intercontinental Terminals Company in three days, reducing the environmental impact of the blaze; and
- In Brownwood, Texas, United States, we support the Aldersgate Enrichment Center, which employs disabled individuals, by sending recyclable materials for them to sort and sell to other recycling facilities to support employee salaries.

Brazil's Incentive Law Project Community Art Program

Many of our dedicated Performance Chemicals employees in Jacana and Rio Claro, Brazil, have lent support to these stunning local mural projects as part of beautification initiatives. These murals are beloved by their communities and have brightened up otherwise industrial areas where they are located.



Community Engagement Goal

100% of our sites engaged with communities in meaningful ways specific to their locations by 2022.



Our 2018 and 2019 Sustainability data and metrics have been externally assured. Our sites have attained both business level and site certifications.



PQ Corporation's Sustainability and ISO Certifications

PQ has attained a corporate-wide Bronze certificate from EcoVadis, with a 70% score in business ethics. This top quartile performance as measured by EcoVadis demonstrates our underlying values and commitment to the highest of ethical standards across our business.

Our 2018 and 2019 sustainability data and metrics have been externally assured. To review our Assurance Letter, please refer to [our website](#).

Additionally, our sites have attained both business level, and site-specific certifications such as ISO9001, ISO14001, ISO45001, ISO50001, ISO22716, OHSAS18001, RC14001®, AS/NZS4801 and local government certified GHG programs. Many of our sites also have Halal, Kosher, and GMP certifications.

Every one of our applicable sites has at least one of the listed certifications. Site-level certifications are strategically obtained based upon the products manufactured and the industries we serve.



* Behavior-based Safety (BBS) is a method for improving health and safety in the workplace through influencing people's thoughts, behaviors, and actions. It combines data, risk management, and best practices to create healthier, more productive working environments.

** Joint Health and Safety Committees are advisory boards comprised of management and employee representatives who identify health and safety issues within a workplace and make recommendations for improvement.

*** We commissioned BPA iCompli Sustainability, a division of BPA Worldwide, Inc., to provide independent third-party assurance of specific sustainability performance data for our business operations during 2018 and 2019. However, due to delays resulting from the COVID-19 pandemic, we are reporting final numbers only for 2018 at this time. This effort was managed in accordance to ISO14064-3: Greenhouse gases – Specification with guidance for the validation and verification of greenhouse gas assertions.

BOARD OF DIRECTORS

Belgacem Chariag

Chairman, President, and Chief Executive Officer

Greg Brenneman

Nominating and Corporate Governance Chair

Timothy Walsh

Compensation Committee Chair

Martin S. Craighead

Member, Nominating and Corporate Governance Committee; Member, Health, Safety, Environment and Security Committee

Susan Ward

Audit Committee Chair

Robert Coxon

Health, Safety, Environment and Security Chair; Member, Audit Committee

Andrew Currie

Member, Compensation; Member, Nominating and Corporate Governance

Jonny Ginns

Member, Health, Safety, Environment and Security

Kyle Vann

Member, Audit Committee; Member, Compensation Committee

Christopher Behrens**Mark McFadden**

For more information on our Board of Directors, please visit [our website](#).

PQ CORPORATION MANAGEMENT TEAM

Belgacem Chariag

Chairman, President, and Chief Executive Officer

Michael Crews

Executive Vice President and Chief Financial Officer

Albert F. Beninati, Jr.

President, Performance Chemicals

Scott Randolph

President, Performance Materials

Raymond Kolberg

President, Catalysts Group

Kurt Bitting

President, Refining Services

Dr. Ufuk Senturk

Vice President-R&D Technology

Joseph S. Kosciński

Vice President, Secretary and General Counsel

William J. Sichko, Jr

Vice President, Chief Administrative Officer

Tom Schneberger

Vice President, Strategy and Business Development

Nahla Azmy

Vice President, Investor Relations and Financial Communications

For more information on our Management Team, please refer to [our website](#).

HEALTH & SAFETY / ENVIRONMENT & SUSTAINABILITY

David McClure

Vice President, Health and Safety

Elaine Simpson

Vice President, Environment and Sustainability

For inquiries about this Sustainability Report, please email: Sustainability@pqcorp.com.



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