

CHEMISTRY THAT MATTERS™

سابك  
sabic

# TOGETHER FOR SUCCESS

ANNUAL REPORT 2017



At SABIC, we believe in the power of chemistry to make the world a better place. By driving performance for customers, ensuring long-term dependability and building valuable relationships, we put that power to work. We call it 'Chemistry that matters™'.

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SABIC hosts pioneering Human Resources Forum in Riyadh



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SABIC supports the Saudi Vision 2030 drive for national economic transformation



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SABIC innovation enables prize-winning panel for new Mini car



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Applied brainpower helps architects and builders construct a better future



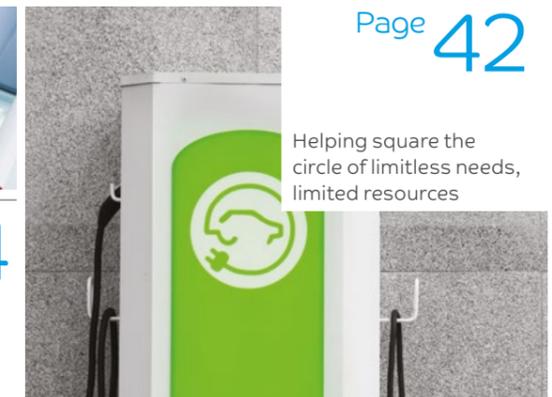
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Smarter materials that empower those working to enable better, longer lives



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Helping square the circle of limitless needs, limited resources



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Making our supply chain more efficient, sustainable and responsive



# AT A GLANCE

We and our customers are working together to create a better future. Whether it's cutting weight to save pollution or developing materials to help bring water to remote communities, the ingenuity, innovation and sheer dedication of our people are changing things for the better.

### AGRI-NUTRIENTS

SABIC's supplies to customers throughout the Middle East, Asia, Africa and the Americas help meet the world's ever-growing need for food.

➔ Find out more on page 28



### SCIENTISTS

1,400+

### PETROCHEMICALS

SABIC makes the essential chemical building blocks for materials used in everything from packaging to healthcare to household goods.

➔ Find out more on page 26



### EMPLOYEES

34,000+

### SPECIALTIES

SABIC produces a wide range of specialty materials, from engineering thermoplastic resins to additive manufacturing solutions.

➔ Find out more on page 27



### METALS

SABIC's high quality metals have been key to the construction and industrialization of some of the world's fastest growing economies.

➔ Find out more on page 29

### NET INCOME

\$4.9bn

### KEY GEOGRAPHIES WITH INNOVATION HUBS

5

### ASSETS

\$86bn

### PATENT PORTFOLIO FILINGS

11,534



### COUNTRIES

50

### PRODUCTION

71.2m tons

### SALES

\$39.9bn



## LEVERAGING GLOBAL STRENGTHS TO DRIVE LOCAL SUCCESS

SABIC hosted a pioneering Human Resources Forum in Riyadh this year, supporting the government's commitment to workforce development

Maintaining SABIC's long legacy of working with the government to develop skills and support the creation of local employment, the forum provided a platform for exchanging knowledge and expertise, and a catalyst for the transformation in human resources that is key to the achievement of Vision 2030.

Key take-outs included the establishment of a "Human Resources Think Tank" in Saudi Arabia, which will allow for more exchange of views and experiences in the field of human resource development; the signing of a Memorandum of Understanding on preparing students for the labor market by developing their skills and potentials; initiation of a SABIC Academy training program for top Ministry of Labor officials; and an agreement to share experiences and knowledge on global best practices.



## TURNING BAD WATER INTO GOOD

SABIC expertise is at the heart of a simple device that turns bad water into good water – anywhere in the world

Cerafiltec's vision of an all-plastic water-filtration module had been repeatedly called "impossible" – but SABIC begged to differ.

Using NORYL™ resin, a polyphenylene ether material chosen for its excellent hydrolytic and dimensional stability and chemical and high-temperature resistance, the new module houses multiple high-performance silicon-carbide membranes in a device that can turn seawater, freshwater, even industrial wastewater, into clean, healthy drinking water. Also, it delivers this at one-seventh of the cost of traditional metal-framed devices – and lasts twice as long.



# SMART FARMING WITH SPECIALTY AGRI-NUTRIENT

This year saw sales up 100 percent for SABIC's specialty agri-nutrient product, NPK, combining nitrogen, phosphorus and potassium

The product, developed through years of intensive research in collaboration with Riyadh's King Saud University, addresses a basic but important issue for farmers not just in Saudi Arabia but throughout the region, and even further afield: improving the performance of a mainstay agricultural resource – date palms.

By increasing the efficiency of nutrient delivery, based on the specific needs of the palms, the product benefits farmers in multiple ways: enhancing yields, improving crop quality, minimizing seasonal crop fluctuations, and streamlining application by combining four nutrients in one.

# OVERVIEW AND STRATEGY



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# CHAIRMAN'S STATEMENT



**DR. ABDULAZIZ  
SALEH ALJARBOU**

Chairman

I would like to begin this, my first annual report letter, by extending my thanks to His Highness Prince Saud bin Abdullah bin Thenayan Al-Saud and other former board members for their leadership and many years of service and dedication, which have played such a crucial part in helping to make SABIC what it is today – one of the world's leading global chemical companies.

I would also like to extend a warm welcome to SABIC's new Board members. I am confident that they will work with me and our Vice Chairman and CEO, Mr. Yousef Al-Benyan, in support of our managers and our people here in the Kingdom and around the world, to make SABIC's bright future a reality.

SABIC has come a long way since its inception in 1976. I vividly recall the days around 40 years ago when I was fortunate enough to become part of the first family of SABIC. We have worked long and hard in pursuit of that dream; we have benefited from unswerving support from visionary leaders of the country and of our company. We made that dream a reality.

Over the course of the journey, SABIC has contributed enormously to the development of the Saudi economy. We have generated very substantial revenues. We have created tens of thousands of meaningful and sustainable jobs. We have developed leaders who are now leading major companies, locally and globally. And we have made an immeasurable contribution to the landscape of

our nation, in everything from helping grow the food we eat to playing an important part in the construction of the magnificent buildings that have made our cityscapes some of the finest in the world.

Our success – and our achievement – is visible everywhere you look. Now, we are entering a new era, calling for redoubled efforts to build on that success and take it to the next level.

The global business environment is becoming more challenging – and more volatile. At the same time, this volatility, and the limitless webs of super-connectivity that link economic and financial systems and people all over the world, open new vistas of opportunity. Global energy markets are at the very heart of this new era of volatility, not least in adjusting to the new realities of shale, and the issue of climate change.

Such changes, of course, represent a major challenge not only to SABIC, but to the Saudi economy as a whole. In almost every aspect of the economy, from increased cost of living to employment opportunities, the need to overcome dependence on oil revenues is becoming ever more pressing. As so often is true, SABIC's leadership is proving equal to the task, with proactive measures in the form of the SABIC Transformation Program already well in hand. Our Vice Chairman and CEO, Mr Yousef Al-Benyan, has led the way, and the rest of the Board, our managers, and our people at every level, are already executing rapid and essential changes. Initial results are proving very positive.

I do not believe it is any exaggeration to draw direct comparisons between the scope and scale of the changes we are now undergoing, in the form of the SABIC Transformation, to those which saw the creation of the company back in 1976. We embarked on a phenomenal journey then. Now, we are embarking on another, no less phenomenal. Nor are we alone in this. Our transformation has been undertaken very much within the context of the larger transformation journey encompassing the nation: Vision 2030.

Vision 2030 is the Kingdom's response to the fundamental challenge facing our nation: over-dependence on oil revenues. Our country's leaders understand all too well that the oil reserves are finite, and no basis for its future over the decades – and centuries – to come. If there is one imperative facing us all – nation and company – it is this: diversify.

We at SABIC have been diversifying now for many years. We have, as just one example, invested heavily in the skills of our people and the intellectual property they have created. These complement our immense strength in commodity chemicals with innovative materials – lighter, stronger, tougher and more versatile – which are playing a crucial role in leading edge applications in some of the most dynamic and exciting areas of the new economy. Areas such as advanced medical devices – particularly to meet the needs of the world's growing elderly populations – and portable technology – to meet the insatiable appetite for new functionality and innovative design among the young.

We are now reinforcing and supplementing our materials diversification strategies with others, such as geographical expansion. Later in this report, you will find details of our ambitious overseas acquisition program, whereby we will strengthen our presence in key overseas markets – particularly in the US and in China. Such acquisitions not only give us greater geographical balance and stability; they also offer a fast and efficient way to gain a foothold in new technologies, such as shale.

I have every confidence that over the next few years we will see the transformation of our company, which will further increase its already immense contribution to the transformation of the country. By driving the SABIC Transformation Program to

Over the course of the journey, SABIC has contributed enormously to the development of the Saudi economy. We have generated very substantial revenues. We have created tens of thousands of meaningful and sustainable jobs.

success, we will play a major part in helping the Kingdom drive Vision 2030 to meet its goals and objectives. The Board and myself are fully committed fully to making this a reality.

I and my fellow Board members extend our full support to SABIC's leadership, and reiterate our confidence in its commitment and capabilities, as we embark on this exciting, transformational journey.

We will work with our leaders, our people and our external stakeholders to pursue our transformational agenda with focused energy and smart innovation, overcome the challenges we face, and forge ahead to an even more successful future.

Together, we will work to leverage from 'Chemistry that Matters™', achieve SABIC's 2025 strategy, and fulfill our vision of becoming the world's premier provider of chemicals.

# VICE CHAIRMAN AND CEO'S STATEMENT



## YUSEF ABDULLAH AL-BENYAN

Vice Chairman and  
Chief Executive Officer

For SABIC, 2017 has been a year of transformation.

We have a new Chairman and Board members. We have laid the foundation for a new program, "Nusaned," to provide a framework for our contribution to Saudi Vision 2030. We have a new plant, substantial new joint ventures, and a new commitment to major acquisitions, to continue our evolution from Saudi producer to true global powerhouse.

Yet in the midst of this rapid and thoroughgoing change, our people have maintained their focus and resolute professionalism, turning in a set of excellent results, thanks to improved prices, increased production and steady reduction in our operational costs.

Net profit for 2017 was SR 18.40 billion as compared to SR 17.61 billion for 2016, an increase of 4.49 percent. Gross profit was SR 50.29 billion for 2017 compared to SR 47.24 billion for 2016, an increase of 6.46 percent. Operating profit for the year was SR 29.37 billion as compared with SR 25.87 billion in 2016, an increase of 13.53 percent. Share profit in 2017 was SR 6.13 as against SR 5.87 in 2016.

We also opened a new polypropylene (PP) pilot plant in Geleen, the Netherlands. The plant will develop new PP homo polymers, impact copolymers and random polymers for our Horizontal gas phase PP plants in Geleen and Gelsenkirchen.

### NEW CHAIRMAN AND BOARD MEMBERS

This year saw the reconstitution of our Board of Directors, including the appointment of Dr. Abdulaziz Saleh Al-Jarbou as Chairman of the Board, succeeding Prince Saud bin Abdullah bin Thenayan Al-Saud. I was proud to accept the position of Vice Chairman of the Board of Directors, and welcome three new members: Dr. Fahad Abdullah Al-Mubarak, Roberto Gualdoni and Calum MacLean.

The changes demonstrate our commitment to diversity in both our business operations and our organizational structure, at every level of the company, and the evolution of a genuinely global culture: key to our ambition of becoming the world's preferred provider of chemicals by 2025.

### TRANSFORMATION IS BEARING FRUIT

SABIC'S transformation process is driven by structural changes in the global petrochemical market. These changes include sustained low oil prices, industry consolidation, and increasing competition. SABIC must respond by restructuring its own business, driving cost discipline, customer focus and increasing growth.

While the external business and policy environments remain challenging, I am pleased to report we are making good progress. By reducing the number of SBUs from six to three, we have created a leaner, more focused organization, leading to increasing agility and an improved cost structure.

Our focused execution is turning around lagging businesses and delivering improved performance. We are addressing capability gaps in the organization by increasing transparency within SABIC and our ongoing investment in developing SABIC's people.

The key to ultimate business success remains growth – organic, inorganic and the opening of new markets. SABIC is active in all of these crucial arenas.

### MAJOR US PETROCHEMICAL PROJECT

SABIC this year joined with our partners ExxonMobil in announcing the potential site for a massive new petrochemical project in San Patricio County, Texas, on the US Gulf Coast.

The new plant reflects SABIC's strategy of exploring feedstock opportunities to achieve sustainable growth. It includes an ethane steam cracker capable of producing 1.8 million metric tons of ethylene per year, feeding a monoethylene glycol unit and two polyethylene units. It is intended to capture competitive feedstock, capitalize on growing global demand for ethylene-based products, and maintain its market share.

A final decision on the investment will be made following the outcome of an application, currently pending, for permits from the Texas Commission on Environmental Quality.

### CREATING WORLD'S #1 CRUDE OIL TO CHEMICALS COMPLEX

In another major joint venture, SABIC is joining with Saudi Aramco to conduct a feasibility study on developing the world's largest crude-oil-to-chemicals complex in Saudi Arabia.

The new venture will constitute a major boost for Saudi Vision 2030, generating economic prosperity by boosting our investment capacity, diversifying the economy and creating jobs for Saudi nationals. It will help strengthen our economic growth and attract world-class competencies and quality investments.

We have laid the foundation for a new program, "Nusaned," to provide a framework for our contribution to Saudi Vision 2030. We have a new plant, substantial new joint ventures, and a new commitment to major acquisitions, to continue our evolution from Saudi producer to true global powerhouse.

Expected to begin production in 2025, the complex aims to process around 400,000 barrels of crude oil a day, producing around 9 million metric tons of chemicals and base oils every year. By 2030, it's expected to be providing a 1.5 percent boost to the Kingdom's GDP.

### NEAR-\$1 BILLION ACQUISITION FOR SUSTAINABLE GROWTH

In January this year, we signed an agreement to acquire Shell's 50 percent share in the Saudi Petrochemical Company (Sadaf), a joint venture in Jubail, for around US\$820 million.

Sadaf, the longstanding product of a highly successful partnership, is one of SABIC's oldest joint ventures, and encompasses six world-scale petrochemical plants with a total output of more than 4 million metric tons per year. The acquisition will enable SABIC to progress the optimization of the plant's operations, make further investments in its facilities, and integrate more closely with other affiliates to capitalize on synergy opportunities.

# VICE CHAIRMAN AND CEO'S STATEMENT continued

As we move forward into 2018, our strategy relies on fulfilling our priorities. These include a relentless focus on employee safety and security, people engagement and development, increasing customer intimacy, improved reliability, speeding growth and implementation, creating value through innovation, and maintaining cost discipline.

## ACQUISITIONS

SABIC is looking to strengthen its presence in key markets around the world – in the US, China and parts of Europe – and has earmarked significant resources for acquisitions, primarily in petrochemicals, agri-nutrients and specialties, over the next five years.

China in particular is a strategic market for SABIC, and we will be looking at a range of opportunities to expand our presence there, including building on our current joint venture with Chinese petrochemical major Sinopec.

We are also looking at new horizons in Africa and in Latin America, which both represent potentially major opportunities for SABIC.

Our singular approach to such ventures makes SABIC an attractive partner, both to host nations and to their own producers. When SABIC enters a market, the company behaves less like a typical foreign investor than like a local player, seeking always to integrate with the existing economy and community, and serve local market demands.

## NEW ORGANIZATION FOR HADEED

In October 2016, we announced plans to integrate our Metals SBU into Hadeed as a continuation of our transformation journey. This year, those plans came to fruition, with the launching of a new Hadeed with a new organizational structure. This streamlined structure will enable Hadeed to be more agile and integrated in an increasingly volatile market, which will accelerate the company's performance and competitiveness.

## NEW STRIDES IN SUSTAINABILITY

Sustainability is in SABIC's DNA, and I am proud to say we are making innovative strides here as well.

This year, we fully commissioned a combined heat and power cogeneration plant in Mt. Vernon, Indiana. The plant provides 80 percent of electricity and steam demand while eliminating the use of coal at that site. Projects such as this are milestones on the path to our 2025 goals.

At Chinaplas 2017 in Guangzhou, SABIC chaired a World Plastics Council (WPC) meeting, joining global chemical majors to discuss the pressing issues of marine debris and plastic waste management. The meeting, held under the theme marine debris and plastic waste management, was an opportunity for leaders from leading chemicals companies to share plastic waste management technologies and initiatives from their respective companies.

The meeting agreed on the importance of leveraging expertise from global chemical companies, and encouraging more countries to join hands in addressing global sustainability issues, and developing innovative solutions.

SABIC's commitment was reiterated with an offer to take the lead in WPC by providing a platform for developing global initiatives and by involving more Chinese chemical players.

## AN EVOLVED BRAND

To support the ongoing transformation of the business, our brand has evolved. We have made three clear commitments to truly deliver our purpose, 'Chemistry that Matters™': Driving performance for customers; Enabling long-term dependability; Building valuable relationships. These commitments define how SABIC positively impacts its businesses, industries, and lives of all the stakeholders it works with.

As part of this evolution, we have updated our brand's visual expression to better showcase SABIC's focus on solutions for customers, and build the global recognition we seek.

SABIC has also unveiled a refreshed corporate website and a new unified global intranet site, which was designed after extensive worldwide consultation with employees and partners, and offers a significant new day-to-day collaboration tool for our 34,000+ people around the world, helping them work together more effectively, sharing valuable ideas and expertise to deliver 'Chemistry that Matters™'.

## SUPPORTING VISION 2030

SABIC is a global company, but we have never lost sight of our roots in Saudi Arabia. In early 2017, we ramped up our existing local content effort with the establishment of the Local Content and Business Development Unit (LCBDU). It seeks to provide opportunities for investors, especially young people and entrepreneurs, who want to develop their businesses in leading edge sectors.

The LCBDU spent most of its first year preparing the groundwork for 'Nusaned', an ambitious new initiative that will be rolled out early in 2018. It will increase localization of industrial technologies, help create new jobs, increase exports, and turn national companies into global companies.

## PRIORITIES FOR 2018

As we move forward into 2018, our strategy relies on fulfilling our priorities. These include a relentless focus on employee safety and security, people engagement and development, increasing customer intimacy, improved reliability, speeding growth and implementation, creating value through innovation, and maintaining cost discipline.

I thank our Board, our employees, our shareholders, and our customers for the progress we have made so far. SABIC could not have achieved this without your support.

But more must be done. SABIC has the capability, the capacity, and the competitive drive to maintain and improve its position as a global player – regardless of what is happening in the marketplace.

By focusing our efforts and standing by the SABIC values, I am confident we can accomplish our goals and create a better future for ourselves and for the world.

## ENABLING SAUDI VISION 2030

Saudi Vision 2030 sets transformational aspirations for the Saudi economy. Raising small-medium enterprises' contribution to GDP from 20 percent to 35 percent, cutting unemployment from 11.6 percent to 7 percent, and increasing non-oil exports' share of GDP from 16 percent to 50 percent.

While SABIC's contribution to the development of the Saudi economy, both directly and indirectly, is well-established and widely recognized, Vision 2030 calls for a whole new level of commitment.

In January 2017, in a major initiative signaling its readiness for that new commitment, SABIC announced the establishment of its Local Content Business Development Unit (LCBDU) – a dedicated function to align SABIC's 2025 strategy with Vision 2030, and:

- Develop programs to enable local content creation, leveraging SABIC's portfolio of products, procurement spend, capabilities, relationships, assets and technologies.
- Coordinate and act as an interface for all local content-related efforts across all SABIC businesses/functions.
- Build partnerships and coordinate with governmental institutions, financing agencies and industry stakeholders, in pursuing Vision 2030 aspirations.
- Promote SABIC and Saudi Arabia to encourage global investors' support for the localization agenda.
- Disseminate SABIC's world-class practices and experience with other companies in the Kingdom.

In its first major initiative, the LCBDU laid the groundwork for a new program, "Nusaned," conceived with Vision 2030 in mind. The program is the first localization engine that connects all industrial development stakeholders in Saudi Arabia to partners under one umbrella and creates a proper ecosystem for success. Nusaned consists of four key stages, each a step on the road that takes an idea from conception to realization.

- **Entema** welcomes ideas and opportunities, analyzes and evaluates them, and assesses their viability.
- **Da'aem** offers a tailored support package, with feed materials allocation and price, product offtake and technical support.
- **Investment funds** can be enabled through partners and new channels for economically feasible projects graduated from the program.
- **Muahal** sees SABIC help develop workforce capabilities to empower success for new local or foreign investments in Saudi Arabia.



LCBDU is led by the new LC Council, which is chaired by the CEO, with four Executive Vice President members. The Council's role is to streamline steering and decision-making. It has established a network with the government and other private firms to ensure alignment of goals and programs.

SABIC also this year:

- Developed 12 downstream business initiatives (eight polymers, four chemicals).
- Progressed 22 opportunities, of which six were realized (Ravago Middle East, UAC, GDI, Nama Chemicals, TPI and Philips), with estimated capex of SA 2.3 billion.
- Supported 15 new investors to drive the localization of goods and services with an investment of SA 568 million and total expected job creation of 1,028 (332 Saudi).
- Increased local procurement by introducing 15 qualified local manufacturers.
- Provided steer and input to ongoing industrialization efforts, including the National Industrial Strategy and National Logistics Strategy.

All of this contributed to SABIC's success in winning this year's Ministry of Commerce and Investment Award for Best SME Support in the Kingdom.



**Further SABIC contributions to Vision 2030 this year included:**

### SAUDI PIPES FOR NATIONAL WATER COMPANY

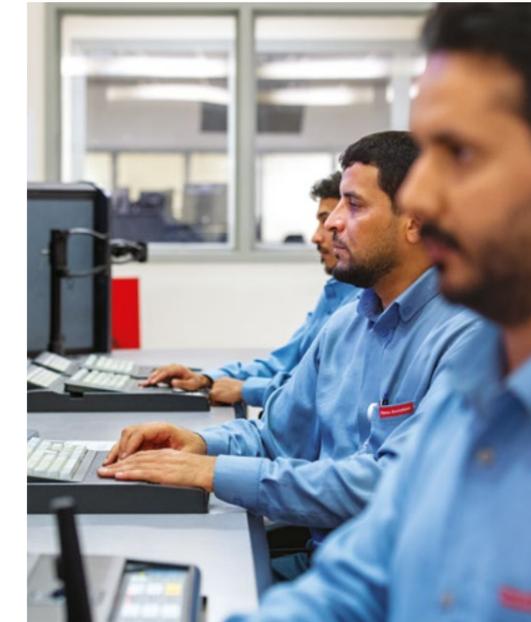
SABIC's portfolio of plastic pipes was preferred to metal, after discussions and technical evaluations with the National Water Company (NWC), a joint stock company seeking a sustainable solution for the Kingdom's water sewerage network.

SABIC teams worked with NWC exploring technical specifications, with grade PE100 HDPE P6006 found to be suitable for the project, whose initial tranche in Riyadh will benefit 1,000 houses. In addition to supporting the aims of Vision 2030, the SABIC pipes will also cut costs and installation time, improve performance, save on maintenance, and bring local pipe networks up to the highest global standards.

### NEW LOCAL PLANT OPENED BY JAPANESE SUPPLIER

November 15 saw the opening of a new plant in Dammam by one of SABIC's strategic suppliers, Ebara Corporation of Japan.

Ebara is one of the earliest investors to get behind SABIC's LCBD initiative with the aim of developing our Kingdom-based supplier base, reducing our reliance on imports. SABIC has been importing Ebara pumps for its plants for several years, as no local manufacturer could meet the specifications. Now, under the umbrella of the new LCBD initiative,



Facing page: SABIC's sustainable solution for water sewerage networks will initially benefit 1,000 houses in Riyadh.

Bottom left: The Local Content Business Development Unit seeks to disseminate SABIC's world-class practices with other companies in Saudi Arabia.

Above: SABIC is ideally placed and is fully committed to helping lead the way to the realization of Vision 2030.

SABIC helped Ebara establish a manufacturing base in Saudi Arabia, sharing market analysis and streamlining processes.

### "TRANSFORMING HR" FORUM

October this year saw a three-day forum, hosted by SABIC at its Riyadh headquarters, under the theme "Transforming HR: Enabling Saudi 2030 Vision."

Yousef Al-Benyan, SABIC Vice Chairman and CEO, highlighted the importance of public and private sector cooperation in developing the nation's human resources. He stressed the company's full commitment, saying: "At SABIC, we have established a dedicated unit for the development of local industrial content, not only to support domestic industries, but also to contribute to the realization of the objectives of Saudi Vision 2030."

## BOARD OF DIRECTORS



**DR. ABDULAZIZ  
SALEH ALJARBOU**  
Chairman



**YOUSEF ABDULLAH  
AL-BENYAN**  
Vice Chairman and Chief  
Executive Officer



**DR. FAHAD  
ABDULLAH  
AL-MUBARAK**  
Board member



**ROBERTO  
GUALDONI**  
Board member



**CALUM  
MACLEAN**  
Board member



**ABDULLAH  
MOHAMED  
AL-ISSA**  
Board member



**DR. KHALED  
HAMZA  
AHMED NAHAS**  
Board member



**ABDULAZIZ  
HABDAN  
AL-HABDAN**  
Board member



**MOHAMMED  
TALAL AL-NAHAS**  
Board member

Our new structure is designed to boost the company's performance and competitiveness, supporting our emergence as the world's preferred supplier of chemicals and helping Saudi Arabia deliver its ambitious and pioneering Vision 2030.

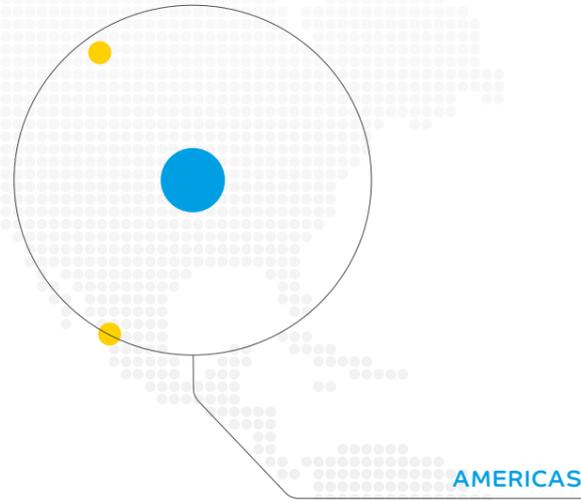
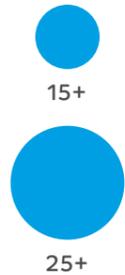
# OUR GLOBAL OPERATIONS

Headquartered in Riyadh, Saudi Arabia, SABIC employs more than 34,000 people and operates in around 50 countries. Its extensive network of regional offices and operational centers throughout the Americas, Europe, Middle East/Africa and Asia support global production and sale of a wide range of chemicals, commodity and high performance plastics, agri-nutrients and metals.

## OPERATIONAL CENTERS



## REGIONAL OFFICES



### AMERICAS

**Technology and Application Facilities:** United States of America.

**Manufacturing and Compounding Companies:** Argentina, Brazil, Canada, Mexico, United States of America.

**International Subsidiaries and Sales Offices:** Argentina, Brazil, Canada, Mexico, United States of America.

**Distribution, Storage Facilities and Logistical Hubs:** Argentina, Brazil, Canada, Mexico, United States of America.



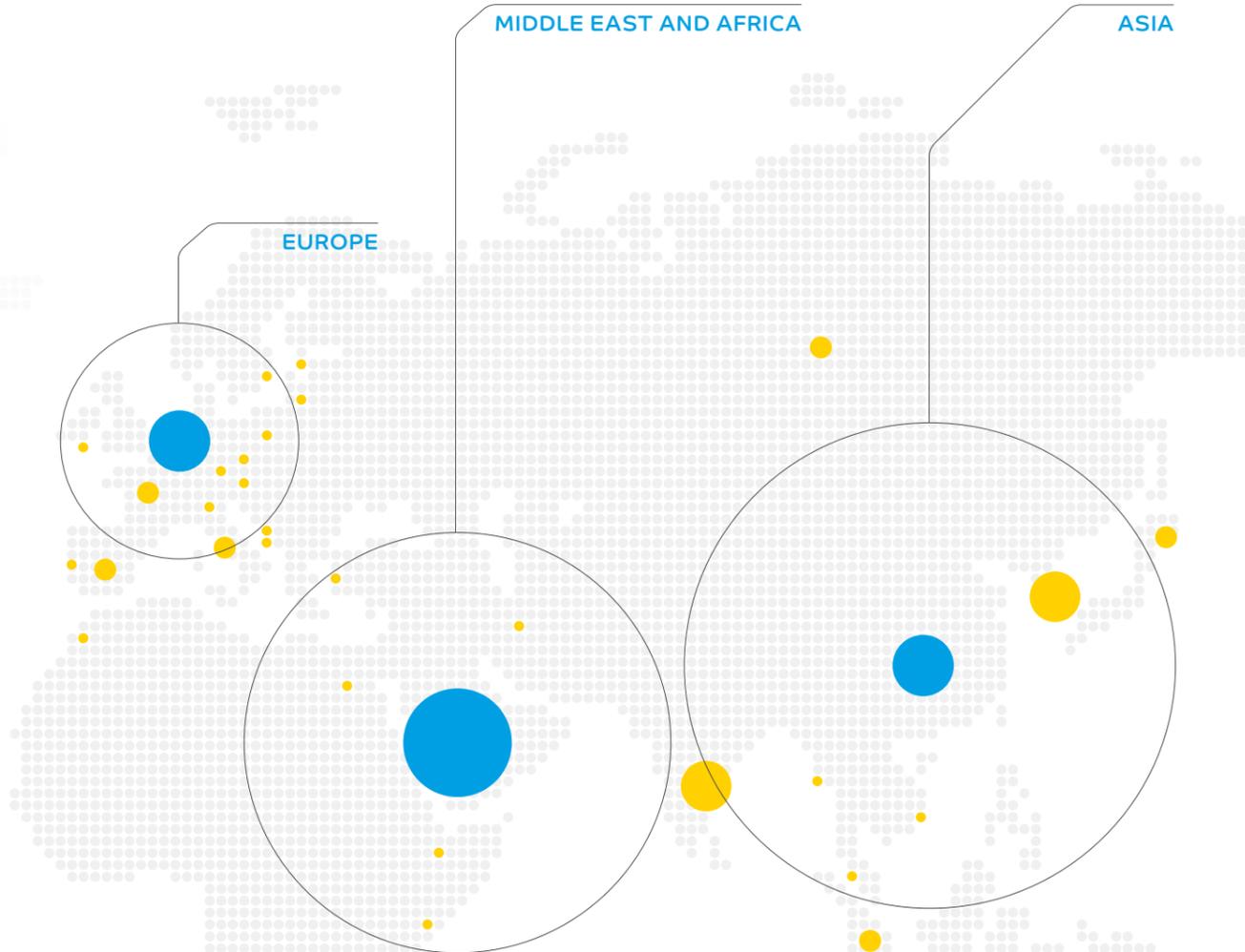
### EUROPE

**Technology and Application Facilities:** The Netherlands, Spain.

**Manufacturing and Compounding Companies:** Austria, Belgium, Germany, Italy, Netherlands, Spain, United Kingdom.

**International Subsidiaries and Sales Offices:** Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, The Netherlands, Poland, Russia, Spain, Sweden, United Kingdom.

**Distribution, Storage Facilities and Logistical Hubs:** Austria, Belgium, Czech Republic, Estonia, France, Germany, Greece, Hungary, Italy, The Netherlands, Poland, Russia, Spain, Sweden, United Kingdom.



### MIDDLE EAST AND AFRICA

**Global Headquarters:** Saudi Arabia.

**Technology and Application Facilities:** Saudi Arabia.

**Manufacturing and Compounding Companies:** Bahrain, Saudi Arabia.

**International Subsidiaries and Sales Offices:** Egypt, Ethiopia, Kenya, Lebanon, Malaysia, Morocco, Saudi Arabia, South Africa, Tunisia, Turkey, United Arab Emirates.



**Distribution, Storage Facilities and Logistical Hubs:** Morocco, Saudi Arabia, South Africa, Turkey.



### ASIA

**Technology and Application Facilities:** China, India, Japan, South Korea.

**Manufacturing and Compounding Companies:** China, India, Japan, Singapore, South Korea, Thailand.

**International Subsidiaries and Sales Offices:** Australia, China, India, Indonesia, Japan, Nepal, Pakistan, Philippines, Singapore, South Korea, Sri Lanka, Thailand, Vietnam.

**Distribution, Storage Facilities and Logistical Hubs:** Australia, China, India, Japan, Malaysia, Singapore, South Korea, Thailand, Vietnam.

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# PETROCHEMICALS



**ABDULRAHMAN  
AL-FAGEEH**

Executive Vice President  
Petrochemicals

As part of its global transformation journey, Petrochemicals continued to build customer intimacy through multiple fronts, including the launch of several newly developed innovative solutions, new production capabilities, enhanced supply chain efficiencies, and improved sustainability performance, while continuing to develop talent globally and vigilantly maintaining our safety standards.

## THE YEAR

Petrochemicals progressed this year on a number of plant investments and safety improvement initiatives in Europe and China as well as in Saudi Arabia, driving value for our customers. There were also new solutions and products, productive collaborations with customers, and strong employee engagement, even as we accelerated our journey towards supply chain and sustainability excellence.

## THE HIGHLIGHTS

Consistent with SABIC's stringent EHSS policy, the new methyl methacrylate (MMA) plant at SABIC's affiliate, SAMAC, recorded 20 million safe man hours with zero lost work day injuries when it was completed in March. Besides, SABIC's Ibn Sina affiliate began the commercial production of a new plant producing PolyOxyMethylene (POM), first in-kind in Middle East and Africa, recording more than 12 million safe man hours without loss time injury and zero environmental issues.

New solutions for pipe and wire & cable applications were introduced when SABIC's Sharq affiliate began producing new LLDPE grades.

SABIC won the prestigious Best Polymer Producer Award in the Polypropylene category at the annual European Plastics Converters event.

Moreover, SABIC utilized previously flared hydrogen and joined the hydrogen network, generating value to the company by maximizing the usefulness of valuable natural resources.

SABIC also introduced a market-facing packaging innovation center to support customers with tailored solutions.

Global growth continued with the approval of a new polycarbonates project in China, in the existing 50-50 joint venture with SINOPEC SABIC Tianjin Petrochemical Co. Ltd; the launch of a new ultra-modern polypropylene extrusion line and pilot plant in Geleen (The Netherlands); commercialization of new POM, PMMA and ABS products in Saudi Arabia; and awarding of an EPC contract for the third ethylene glycol plant at United, with a nameplate capacity of 800,000 tons/year.

Meanwhile SABIC's olefins plant in Wilton (UK), began cracking shale gas ethane, transported from the US Gulf. The cracker is now a world leader in feedstock flexibility, with ethane-processing rates exceeding all expectations.

A debottling project was completed at SABIC's Petrokemya Benzene-II, bringing annual production to 60,000 metric tons/year. A de-bottlenecking project at the Saudi Kayan ethylene oxide and ethylene glycol plants aims for a 40 percent increase in nameplate capacity.

## THE FUTURE

As the world's manufacturers continue designing new products to meet the world's needs more efficiently, more economically and in more sustainable ways, we will continue developing the innovative solutions that turn those designs into reality.

SABIC will continue to work ever more closely with our customers, to help them serve theirs ever better; to invest in new plants and people skills; to constantly ensure that safety is integral to all over operations; and to develop solutions that make the world better. We will maintain our mission to be the preferred world leader in chemicals, by delivering 'Chemistry That Matters'.

# SPECIALTIES



**DR. ERNESTO  
OCCHIELLO**

Executive Vice President  
Specialties

This was a year of volume and revenue growth. We are leaders in nearly three-quarters of our product portfolio, creating value for our customers by accelerating innovation that addresses their hardest problems while focusing on reliable fulfillment.

## THE YEAR

This year, healthy volume and revenue growth were testament to the success of Specialties in cementing its status as the home of unique product offerings within SABIC. We continued to work successfully, both independently and in cooperation with global customers, to develop the materials to turn today's innovative designs into tomorrow's game-changing products.

## THE HIGHLIGHTS

Over the year, Specialties reinforced its market position in the highly sought-after, differentiated thermoplastic segment, with products that include a portfolio of specialty compounds delivering a range of specific qualities and capabilities.

They include: NORLYL™ resins – which deliver outstanding capabilities for automotive, electronics, energy, and water management applications; NORLYL™ oligomers – a key enabler of next-generation high-performance electronics, including high-speed, digital-printed circuit boards; ULTEM™ and EXTEM™ resins – two unique products delivering unrivaled heat resistance for applications where extreme temperatures could impact performance or safety; and specialty compounded products characterized by demanding combinations of thermomechanical with electrical or optical properties.

Recognizing our customers' reliance on products and solutions that, in many cases, are genuinely unique, we took steps this year to ensure reliable supply. In order to meet growing demand, we are building new capacity for ULTEM™ and NORLYL™ resins. With ULTEM™ resins, we are making a strategic investment to increase capacity in Asia to supplement our current capacity in the Americas and Europe. New manufacturing capacity is expected to go online in the first half of 2021. We are also adding capacity in our NORLYL™ resin product line in Europe by the end of 2019.

We continue to push the boundaries of innovation, developing several new products and technologies this year and making key investments in new capabilities, reinforcing our position as a differentiated, high-value material-and-processing solutions provider.

They include: an extensive portfolio of new materials for a variety of additive manufacturing processes, including large format, enabling designers to meet specific functional requirements; an additional investment in composites technology to drive the full industrialization and automation of manufacturing of forms at mass-production scales; and launch of a new copolymer, LEXAN™ CXT resin, for optical lenses and sensors, key to the performance of internet-connected devices.

## THE FUTURE

We will continue to create value for customers, concentrating in particular on three key aspects:

- First, customer-centricity. Focusing on our customers and their needs sharpens our ability to deliver the service experience they prefer and deserve.
- Second, unique solutions. We will continue to build our status as a premium provider of highly specialized solutions in our core markets. We will help our customers solve their hardest problems by bringing our knowledge of specialty thermoplastics to bear on their most pressing needs.
- Third, fulfillment. As a business that operates in the spirit of continuous improvement, we focus on being a reliable partner to our customers.

As a major industry player in the segments we serve, crucial to our customers' success through the unique solutions we provide, we are committed to ensuring that the market can trust us to deliver the innovation, volumes, and quality they expect.

# AGRI-NUTRIENTS



**ANAS KENTAB**  
Executive Vice President  
Agri-Nutrients

We will relentlessly pursue operational excellence, maintain our efforts to develop new sustainable products, and continue to seek growth opportunities globally to serve our customers and meet ever-growing demand.

## THE YEAR

Agri-Nutrients continued to develop new formulations, construct new plants, and build ever-deeper relationships with the farmers who use our products. The agreement signed with the Ministry of Energy, Industry and Mineral Resources to manage the Sustainable Agriculture Research and Development Center (Estidamah) for its first five years recognizes the ongoing commitment to our fundamental mission: continually helping our customers to produce more and better food for the world's growing population.

## THE HIGHLIGHTS

Our nitrogen business successfully boosted revenues through market optimization across the value chain.

Numerous products reported improved sales for the year, including diammonium phosphate (DAP) – up 17 percent year on year; nitrogen, phosphorus, potassium (NPK) – up 100 percent year on year; and technical grade urea (TGU) – up 125 percent year on year.

The year also saw the launch of a new nitrogen sulphur fertilizer group of products combining urea and calcium sulphate, which avoids the security issues that restrict ammonium nitrate options in many markets. The manufacturing process has been

well protected by intellectual property rights, and the new products have received very positive customer feedback.

New and improved formulations have also been launched for:

- A new tuber (potato) specific NPK grade and two new nitrogen phosphate plus sulphur (NPS) fertilizer grades.
- Several water soluble fertilizers, through third party cooperation.
- Water soluble fertilizers – a new market for SABIC, with sales in 2017 to South Asia in July and to Middle East markets in November.
- Urea calcium sulphate – first trial of the new grade was conducted in May 2017, second trial of the new grade plus zinc and boron was conducted in December, besides ready for field test, lab test and pre marketing.

Agriculture field days in Saudi Arabia helped to promote sustainable agricultural development for key strategic crops like date palms and tubers. We continued to partner with the Ministry of Energy, Industry and Mineral Resources to take a field caravan to various regions to engage with farmers, promote SABIC products and solutions and provide guidance on how to get the best out of them.

## THE FUTURE

We will continue to work on developing innovative formulations to target particular characteristics of selective crops more closely, with a view to helping farmers boost the yield and quality of their produce. We will redouble our efforts to reach out to customers, developing a clearer picture of the practical and commercial issues they face and equipping us with the knowledge we need to help them address those issues more effectively.

We will also continue to work on improving and expanding our production capabilities. Although we have achieved significant improvement in recent years, there is always room for further progress in reducing waste and cutting cost, improving safety and preventing breakdowns, and optimizing our production and supply-chain processes. We aim to do this efficiently, and in ways that minimize our environmental impact.

# METALS



**MOHAMMED AL-ZAHRANI**  
President, Hadeed\*

Our focus this year was to strengthen market share locally and actively explore new markets globally, and also to drive operational and organizational efficiency to achieve sustainable cost leadership and enhance our competitiveness.

## THE YEAR

2017 was another challenging year for our Metals business unit, with a subdued market and limited government infrastructure spending impacting productivity and sustainability KPIs. The integration of Metals and Hadeed was completed successfully. This strategic move enabled us to enhance the levels of agility and efficiency in our manufacturing and commercial efforts.

Following the business restructure, new prospects and markets have been identified. For the first time in Hadeed's history, SABIC exported billets, besides penetrating the North African market with cold-rolled coils.

## THE HIGHLIGHTS

In pursuit of SABIC's 2025 strategy, we focused on four key areas fundamental to our business performance:

- **Business efficiency** – through improving our commercial capabilities, differentiating product offerings, and business transformation.
- **Cost optimization** – through enhancing conversion costs and optimizing management of working capital and capital expenditure.
- **Innovation** – through more closely integrating creative, innovative, and business development initiatives into the business's activities.
- **Human resources** – through implementing diversified strategic workforce planning,

engagement, talent management, and leadership improvement-and-effectiveness programs.

For better plant operations, a number of initiatives were taken to control fixed and variable costs. Hadeed achieved a 13 percent saving in manufacturing cash cost this year. In addition, manufacturing capabilities were improved through enhancement in hot strip mill productivity.

Technology Management contributed by completing a few product and process optimization initiatives that helped optimize costs.

Logistics terminal facilities were repaired and renovated, and a new wrapping machine was installed to replace coils manual packing process. In addition, Hadeed enhanced its material handling process efficiency, saving around 42 percent of total process cost.

Sustainability continued to be a priority. Using industrial wastewater from an iron-making unit at our electric arc furnaces has helped reduce water consumption; a Furnace System Optimization Process saved energy and improved yield and productivity; and life-cycle assessment helped gauge environmental impact of production, usage, and recycling for three newly developed products.

Despite the challenging market conditions, Hadeed expanded the sales map for long products, exporting 95KMT to seven countries. Sales of flat product to the oil-and-gas sector were up 23 percent year on year, with a 32 percent lower finished products inventory compared to that of 2016.

## THE FUTURE

The new organizational structure and the Hadeed Transformation Project will enhance our business's effectiveness and efficiency, increasing our competitiveness and aiding strategic focus, as well as getting the right capabilities to support strategy, improve agility, flexibility and responsiveness, and enable business growth.

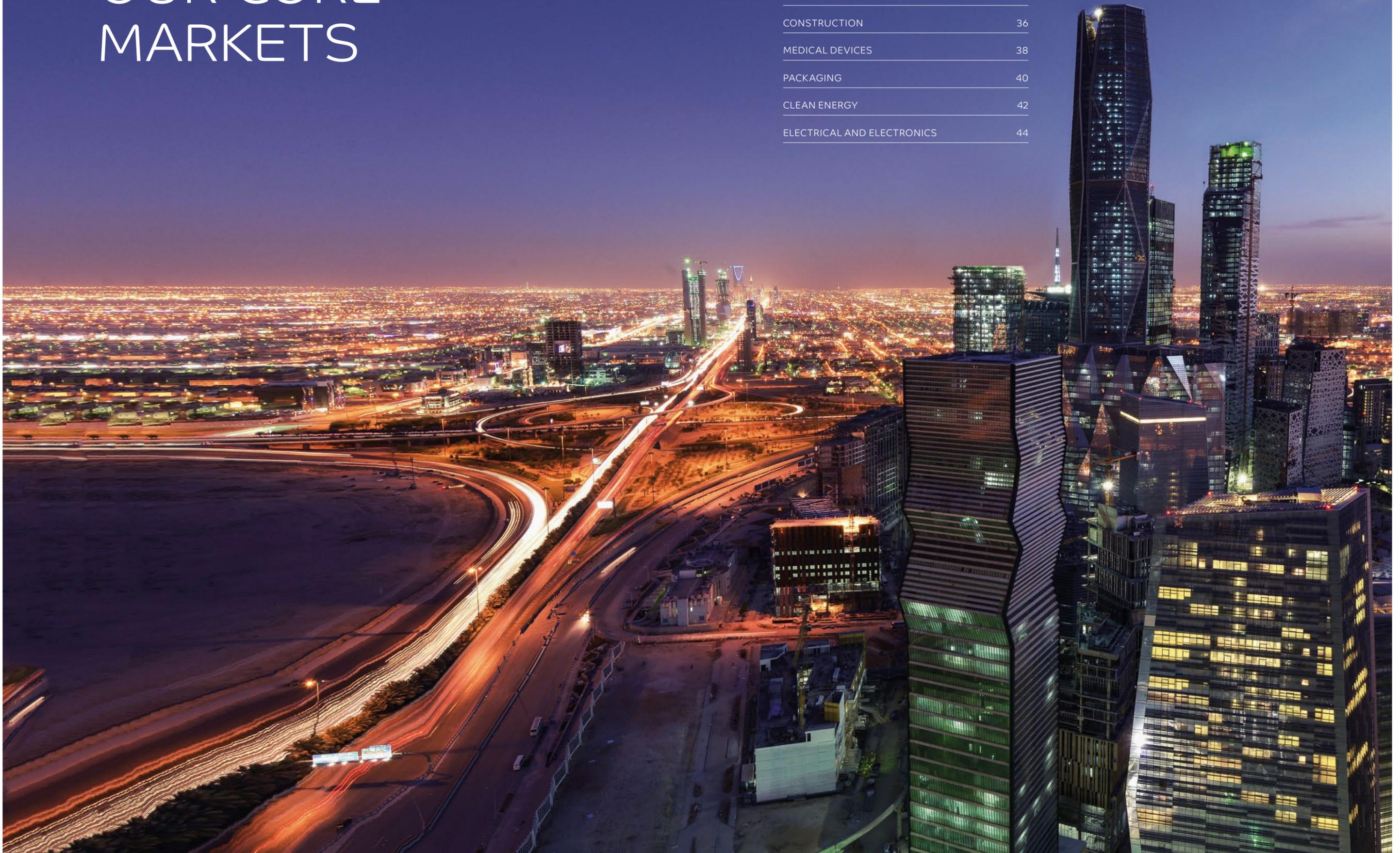
We will continue to extend our product portfolio with new sizes and grades. We will also continue to explore new international markets and build new distribution channels.

In parallel, we will continue working with government agencies to help mitigate potential risks, enhance our local market share, achieve premium prices, and outperform our peers, enhancing Hadeed's position as a pioneer in the steel industry, locally and regionally.

\*Metals products are supplied under the SABIC brand through Hadeed, a fully owned manufacturing affiliate of the company.

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# TRANSPORTATION

Innovative SABIC materials are helping minimize the environmental impact of our insatiable desire to travel, and offering designers new options for differentiation.



Left: SABIC's innovative materials reduce energy requirements.

Below: The award-winning injection-molded instrument panel carrier from BMW's 2017 MINI Countryman.

Below right: SABIC materials help make a difference in aesthetics and design.



## FROM A TO B WITH STYLE AND SUSTAINABILITY

Too many of the world's great cities now testify to the downside of our apparently limitless desire to be somewhere else. Peering through the murk, breathing in toxic fumes, it's easy to forget that travel should be about liberation, exploration, fun. And it's not just people. The world's skies and oceans teem with ever-increasing flows of goods on the journey from production to consumption.

SABIC ingenuity can't solve the problem – but it can and does ease the impact, with innovative new materials that reduce energy requirements, both in production and then on, throughout their working lives. Materials, what's more, that also offer greater scope to manufacturers and their designers, enabling new products that deliver a competitive edge: benefiting the bottom line as they help protect the environment.

## ENHANCING AESTHETICS, CUTTING WEIGHT

SABIC's ongoing collaborations with manufacturers and part-makers continued to help break new ground in vehicle innovation this year, as recognised at this year's Society of Plastics Engineers' Automotive Innovation Awards.

Winner of the Body Interior category was the injection-molded instrument-panel carrier from BMW's 2017 MINI Countryman. It was made using an innovative process and STAMAX™ resin – a high flow, long-glass-fiber-reinforced polypropylene material – combined with a dedicated copolymer solution in a structural-foaming process with core-back

technology, delivering benefits including a 15 percent weight reduction over a conventional solid plastic component.

Also a finalist was an innovative backlit chrome emblem for vehicles like Chevrolet's Camaro, Silverado, and Colorado models. This is a unique part design that, with help from high-performance LEXAN™ polycarbonate resin, achieves the desired lighting effect and aesthetic. Production of the emblem with SABIC's material takes place using a two-shot molding process that eliminates the need for excess material and saves energy.

Another was the thin-wall fascia of the 2018 Škoda Octavia. This part is molded with SABIC® PP compound (polypropylene). This e-compound's high melt-flow, stiffness, and impact characteristics help reduce the amount of material required for molding by around 10 percent. It also has a lower density than comparable PP compounds for bumpers, which delivers additional weight savings.



## SMARTER MATERIALS FOR A BRIGHTER FUTURE

A new LEXAN™ resin grade enables new, distinctive, complex headlight bezels with enhanced aesthetics – highly valued by motor vehicle manufacturers eager for the design touches that will give their product standout appeal in an overcrowded and highly competitive market.

SABIC has also added two new LEXAN™ XHT resin grades, which offer improved flow at high temperatures compared to other high-heat polycarbonate materials. Though light-emitting diodes run relatively cold, their headlamps can still generate a lot of heat. Many high-heat polycarbonates suffer flow problems, and they generally cost more than regular materials. The improved flow offered by the new grades allows production of high-quality parts, and can reduce overall system cost as well.

## EASY AND QUICK, LIGHT AND STRONG

Livrea Yacht's 3D-printed hull: lighter, stronger, and manufactured at a fraction of the cost and in half the time.

A section of a yacht hull from Livrea Yacht was printed on SABIC's BAAM® (Big Area Additive Manufacturing) machine at its Center of Excellence for Additive Manufacturing in Pittsfield, Massachusetts.

A collaborative design effort uniting SABIC, Livrea Yacht, Autodesk and Tru-Design, the solution combined Autodesk Fusion 360 design software, SABIC BAAM® expertise, and two THERMOCOMP™ AM materials: a carbon-fiber-reinforced PPE (polyphenylene ether) compound for the outer structure and a carbon-fiber-reinforced PEI (polyetherimide) for the inner lattice support structure. No costly molds and prototyping, just a better result: reducing costs and increasing efficiency.

Below: SABIC's THERMOCOMP™ AM compounds for large format additive manufacturing address unique customer application requirements.



## EMPOWERING DIFFERENTIATION BY DESIGN

After decades of creating highly specialized solutions for aircraft and rail interiors, market drivers shifted the focus this year toward aesthetics and design. Even in a supposedly commoditized environment like a train or plane interior, design touches can make all the difference to the customer experience – and SABIC materials can empower the race for differentiation.

For example, materials such as JET PANEL™ sheet with fully customizable features help designers to create one-of-a-kind solutions for their customers. SABIC's extensive portfolio of light-weighting materials was also extended this year with the introduction of a new grade of ULTEM™ foam. Lighter than ever, and fully compatible with thermosets and metal laminates, the new formulation provides a core for 'sandwich' construction, lending itself to a wide range of transport interior applications as well as many other markets in need of lightweight, compliant structures.

## AGRI-NUTRIENTS

Of all the issues facing us in the 21<sup>st</sup> century, perhaps none is more pressing than hunger. In SABIC's collaborative efforts to help feed the world, our ingenuity is a valuable resource.

### GREATER NEEDS DEMAND GREATER EXPERTISE

As populations continue to rise and land comes under ever-greater pressure from urbanization, the challenges of meeting the demand for food, feed, fiber, and fuel become steadily more pressing. This year, the United Nations' annual report on world food security and nutrition brought the sobering news that, after falling steadily for a decade, world hunger is once again on the rise because of population growth.

As ever, applied expertise can help. SABIC scientists continue to develop selective grades of fertilizers and crop solutions that help turn given resources of land, water, and sunshine into better, and more-reliable food supplies. This is not just lab expertise. A significant proportion of Agri-Nutrients' efforts is devoted to getting into the field, talking to the people who work the land, and helping them gain the skills to put SABIC's expertise to the best possible use – for their benefit, their communities, and the world at large. Nowhere does 'Chemistry that Matters™' matter more.



Above: SABIC's innovative agri-nutrient products help improve quality of yield.

### WORKING FOR SECURITY, SAFETY AND SUSTAINABILITY

The Sustainable Agriculture Research and Development Center (Estidamah) was initiated in 2008 when SABIC, with the support of the Ministry of Energy, Industry and Mineral Resources, established a fund to create the center. Located in Riyadh Techno Valley on the campus of King Saud University, the center was built to perform applied research on innovative techniques for agriculture.

The center's primary focus is on increasing production to improve food security in Saudi Arabia; improving quality and food safety, while minimizing pesticide use; and enhancing water-use efficiency for sustainability benefits. Areas currently under investigation include climate control, irrigation and plant nutrition, integrated pest management, and crop management.

Newly developed water soluble formulations targeted to the Saudi Arabian market were tested at Estidamah, and proved to boost yields by around 30 percent compared to current practices. Further tests in the field with customers are being conducted, with crop-specific products for tomato, cucumber and bell pepper. New formulations for date palm and olive trees in 2018 will expand SABIC's product offerings.



### BUSINESS COOPERATION BRINGS NEW PRODUCTION

The Ma'aden Wa'ad Al Shamal Phosphate Company was operationally launched this year.

This major new joint venture saw SABIC join with Ma'aden and Mosaic in the construction of a new plant, with a potential production capacity of 3 million metric tons, to help meet ever-growing demand for diammonium phosphate (DAP), monoammonium phosphate (MAP), nitrogen, phosphorus, potassium (NPK) and nitrogen phosphate plus sulphur (NPS) products.

Commercial production of ammonia began in January 2017, pre-commissioning began in July, and the first SABIC shipment of 30,000 metric tons of Dark DAP was dispatched in November.

### NEW PRODUCTS FOR MULTIPLE NEEDS

SABIC added Technical Grade Urea (TGU) to its Agri-Nutrients portfolio to achieve greater diversification, add more value, and support the company's sustainability objectives.

SABIC TGU is produced at SABIC's Al-Bayroni urea plant using Rotoformer technology, which enhances the product's physical and mechanical properties. The plant can produce up to 80,000 metric tons of TGU a year – a 46 percent pure urea that is targeting environmental control application where TGU solution is used NOx in diesel engines and heavy oil-based power generators.

TGU sales recovered this year as sales to South Asia began for the first time, and European sales were up significantly. The company is currently considering proposals to expand production capacity.

Below: Estidamah's research focuses on increasing production to improve food security in Saudi Arabia.

Right: SABIC continues to develop selective grades of fertilizers and crop solutions.



Estidamah's primary focus is on increasing production to improve food security in Saudi Arabia, while enhancing water-use efficiency for sustainability benefits.

# CONSTRUCTION

The world is on a building boom. As constructors work to meet the needs of our ever-growing populations, SABIC materials expand their design options and help them turn vision into reality.



Above: SABIC scientists and engineers work with architects and builders to help enable solutions to brand-new challenges.

## BETTER MATERIALS TO HELP BUILD A BETTER FUTURE

As our once-rural world becomes ever more urbanized, the world looks to materials producers to enable buildings that work well, look great, and last for a long, long time. SABIC materials, from metals to innovative plastics and resins, are equipping architects and builders worldwide with the flexibility and high performance they need to construct the world of the future, however visionary their ambitions. And, thanks to SABIC's advanced plants and efficient production, at low cost and with minimal environmental impact too.

## ENABLING SUSTAINABLE SOLUTIONS

SABIC is intensifying efforts to provide suppliers and customers in the construction industry with innovative alternatives to conventional metal-pipe systems through tough, flexible plastic-pipe solutions that deliver clear advantages in terms of both cost-effectiveness and sustainability.

But it is not just about pipes, or offering substitutes for existing systems. SABIC scientists and engineers work with architects and builders to help enable solutions to brand-new challenges – helping turn creative dreams into efficient, effective realities.

Jansen AG in Switzerland, for example, uses SABIC® HDPE (high-density polyethylene) for geothermal probes to collect geothermal heat for residential heating and cooling systems. It also allows significant cost-out for the contractor during installation, helping deliver a competitive edge as well as a sustainable solution.



## TRANSFORMING PIPE-NETWORK STANDARDS

After extensive technical testing in collaboration with Saudi Arabia's National Water Company, SABIC plastics have gained approval to be used to complement existing water-pipe networks in a major new project in the Laben district in west Riyadh.

The project is designed to connect fresh water networks in the newly developed areas of Riyadh. SABIC® HDPE is to be used in the first of 14 projects scheduled to transform Laben's network by the end of 2018, helping reduce installation time and reduce costs. SABIC's advanced products are playing a major role in fulfilling the Saudi Vision 2030, which emphasizes new solutions to save water.

SABIC's innovative pipe solutions are also being used in the aquaculture industry in Saudi Arabia for manufacturing fish cages and related fishing structures, discovering new uses for its PE100 pipe grades.

SABIC also made significant strides in the sector with a new low-sagging pipe grade for large pipes, and a new generation HDPE pipe grade with improved resistance to chlorinated disinfectants that fulfils the stringent international norms for PE100 and PE100RC materials (PAS1075).

Left: SABIC plastics have gained approval to be used to replace existing water-pipe networks in a major new project in Riyadh.

Below: SABIC's energy-absorbing rebars help buildings withstand earthquakes.



## SPECIALIST STEELS TO MEET SPECIAL CHALLENGES

SABIC reached an innovation milestone this year when it developed a new range of 12 mm reinforcing bars (rebars) for high-level seismic-resistant design. These energy-absorbing rebars can be used in the construction of buildings designed to withstand earthquakes. The new enhanced product, which was also commercialized this year, is of ASTM (American Society for Testing and Materials) A706 standard.

Designed to reinforce concrete structures in areas prone to seismic activity, the rebars are part of SABIC's metals product portfolio and are being specified for projects in earthquake-vulnerable regions.

Along with supplies of high-quality carbon-wire rods, such materials enable the construction of earthquake-resisting buildings. An expanding range of options and sizes continue to fulfill our differentiation strategy in the region.

## MEDICAL DEVICES

Ever-larger and longer-living populations bring opportunities for medical device manufacturers, and place a premium on SABIC's lighter, stronger, smarter materials which help them meet the demands.

### HELPING PEOPLE WORLDWIDE LEAD LONGER, HEALTHIER LIVES

All around the world, people are living longer, healthier lives. Increasing, ageing populations bring an ever greater need for a wide variety of sophisticated new medical devices.

The healthcare industry, constantly pushing out the boundaries of what is possible, practical and commercially viable, looks to materials suppliers to provide innovative products and grades to meet ever more demanding requirements, and enable new medical equipment and devices. Increased resistance to stronger disinfectants and other chemical challenges; enhanced plasticity and strength, to enable new designs that provide better patient ergonomics; and – not least – lower cost, to deliver competitive advantage.

### NEW PP FACILITY TO MEET NEW NEEDS

SABIC this year launched a new polypropylene (PP) extrusion facility to meet emerging material requirements and market needs. The new facility, located at our Geleen site in the Netherlands, supports customers' needs for advanced materials in the healthcare sector and a variety of other industries.

The new line, using innovative process technology to produce SABIC® PP copolymer products, started up in late 2017. Investment in this highly automated and technologically sophisticated process exemplifies SABIC's commitment to produce advanced materials that can support and empower our customers' endeavors in developing the next generation of lightweight applications. The new process can help reduce energy consumption through lower processing temperatures and shorter cycle times.



Above: SABIC supports customers' needs for advanced materials in the healthcare sector.

Right: Providing better patient ergonomics through products that enhance plasticity and strength.



### STUDY AND ANALYSIS INSPIRE NEW POSSIBILITIES

SABIC has been working closely with an industry-leading firm in engineering and industrial design to analyze a number of market-leading point-of-care diagnostic devices, looking to identify opportunities for SABIC materials to reduce cost and weight without compromising performance. The collaboration resulted in multiple concepts, illustrating "what is possible" for original equipment manufacturers and their designers when they work with SABIC next-generation devices.

The team also engaged with a leading firm in medical-device design and engineering to study future trends in diagnostics and drug delivery. The project delivered detailed device-development roadmaps that helped to generate a wide array of new ideas for healthcare product offerings – with an eye to future trends. Such active collaboration with expert third parties in the device-design-and-engineering community helps us focus and fine-tune our development efforts, aligning them more closely with the challenges the industry faces, and positions SABIC as a leading solutions-provider and proactive partner that helps our healthcare customers develop the next generation of devices.

Below: SABIC is committed to producing advanced materials that can support and empower our customers' endeavors in developing the next generation of lightweight applications.



### COLLABORATING TO DEVELOP NEW SOLUTIONS

This year, SABIC worked together with Shanghai Shengguang, a leading Chinese plastic injection molder, to highlight the advantages of SABIC's NORYL™ and LEXAN™ structural-foam solutions for metal replacement in large medical-equipment components.

The collaboration demonstrated how SABIC's structural-foam technologies can deliver greater design freedom, with up to 50 percent weight reduction, as well as cutting system costs by up to 30 percent through the elimination of common secondary operations such as machining and pre-painting acid treatment.

Combining greater design-innovation capability, material-and-process cost reductions, and higher overall performance than traditional metal options, these structural-foam solutions increase our customers' scope in developing new devices.

## PACKAGING

SABIC ingenuity is finding ever more innovative ways to help the world's manufacturers protect their products without damaging the world we live in.



### SMARTER PACKAGING, MORE PROTECTION

With ever-increasing flows of an ever-expanding range of products circling the globe, packaging suppliers need innovative materials that will enable them to create new kinds of packaging for new requirements. Not just the basics, keeping products secure on the journey – safe from damage, safe from decay, safe from contamination – but more demanding requirements: materials that will help reduce production costs, while adding more value, in the form of eye-catching designs to help their customers' products fly off the shelves.

SABIC scientists devise the solutions, in the form of new formulations that do things better, cheaper, more reliably – and enable our customers to do completely new things such as increase food shelf life. Formulations, too, that address the challenges of the environment: safeguarding the planet while protecting the product.

### PROCESSING EFFICIENCIES AND PACKAGING PERFORMANCE

SABIC this year further enhanced its industry leading polypropylene (PP) portfolio for the packaging industry with the introduction of two new high flow, injection-molding grades. Both impact copolymers based on a phthalate-free catalyst.

The new grades offer packaging manufacturers and converters greater production efficiency, with shorter cycle times and weight savings thanks to thin wall manufacturing; compliance with organoleptic requirements for taste and odor; and excellent stiffness and higher top-load strength for high stackability, enabling faster production cycles along with lower transport and storage costs.

Developed for thin-walled packaging applications for both food and non-food applications, the new products' excellent balance between high stiffness and impact strength makes them ideal for compounding and rigid packaging such as food and dairy packaging (frozen, chilled or ambient), housewares, appliances, toys, caps and closures. Produced in SABIC's Saudi Kayan facility in Jubail, they will be available for customers worldwide.

### PRODUCTIVITY AND PERFORMANCE

COHERE™ polyolefin plastomers (POP) are a new portfolio of flexible packaging solutions using Nexlene technology as a sealing and adhesion enabler. The products offer a number of enhanced features in flexible packaging:

- Usage as a sealing layer in multilayer structures.
- Better seal integrity, enabling productivity boost through faster line speeds.
- Usage as an adhesion layer in multiple applications, such as stretch film, silage film, cling film.
- Excellent puncture resistance at low temperature.
- Very high stiffness, and an excellent stiffness/toughness ratio.
- Very high tear resistance.

The combination of productivity benefits in production and material advantages in use, make POP an excellent “door opener” for the entire product portfolio in the flexible packaging industry.

Facing page: SABIC provides the innovative materials that customers need to create new kinds of packaging.

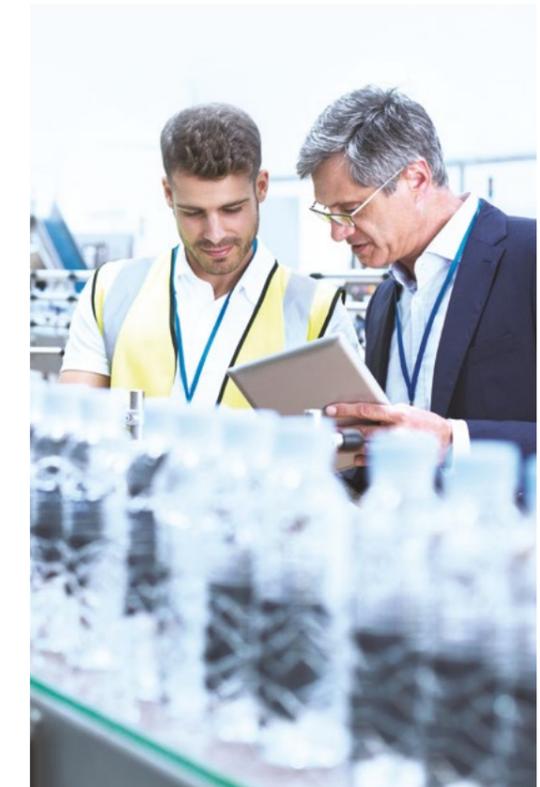
Below: Keeping products safe from damage with innovative materials that even help reduce production costs.



### SAVING ENERGY, BOOSTING PRODUCTIVITY

SABIC® FLOWPACT™ impact copolymers family has been extended with the introduction of a new polypropylene solution for rigid packaging applications such as containers, caps and closures, and for a wide variety of consumer goods.

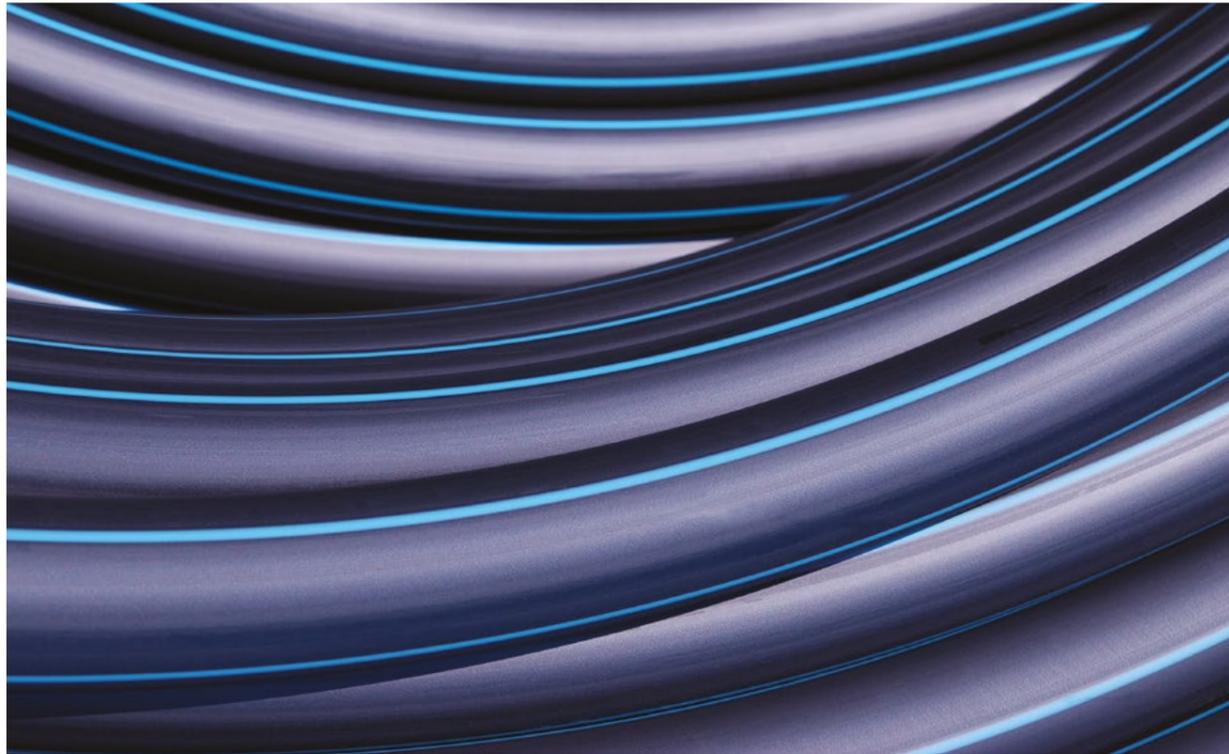
Trials at several manufacturers have clearly demonstrated its benefits, with a market-leading combination of high stiffness and high impact strength. The new product offers customers savings by way of lower production costs, by enabling thinner walls and fast injection, boosting productivity while cutting energy consumption.



Above: SABIC's new polypropylene solution is ideal for rigid packaging such as caps and closures.

## CLEAN ENERGY

Energy's environmental impact may be this century's single biggest challenge. The innovators working to address it are empowered by ever smarter material options devised by SABIC scientists.



Above: SABIC's high-performance pipes meet the most stringent standards, playing a significant role in the solutions that are being developed.

### MATERIAL PROGRESS TOWARD A SUSTAINABLE FUTURE

Of all the challenges facing humankind in trying to enable a better future for all, those of energy may be the most difficult to address. Simply, more people want more of everything – the environment bears the brunt of the energy needed to provide it.

All around the world, governments grapple with the consequences, most visibly in the form of major cities so engulfed by foul air that populations struggle to go about their daily lives or, worse, succumb to endemic health crises. Smarter materials cannot solve the conundrum; but they certainly play a significant role in the solutions that are being developed. All around the world, 'Chemistry that Matters™' is helping address the biggest problems we face.

### HIGH-PERFORMANCE PIPES AID CHINA CLEAN-UP

China has adopted "Green" as one of its five key pillars, and placed environmental initiatives at the heart of "a cleaner, greener, and leaner 13th Five-Year Plan." Arguably the most important – certainly one of the most extensive and far-reaching – is an ambitious program substituting gas for coal to fuel the nation's power plants and heating facilities, to reduce carbon emissions and generally tackle the air pollution impacting the country's major cities.

Transporting gas demands pipes with high performance and absolute dependability. SABIC pipe grades meet the most stringent standards for pressure-gas-pipe systems, and are being widely employed in extensive new networks transporting natural gas safely to millions of homes throughout the country.

### CUTTING WEIGHT CUTS EMISSIONS

As the world's demand for cars grows unabated, the pressure is on manufacturers to develop options that meet demand without harming the planet. Electric vehicles are clearly part of any potential solution; a key challenge is to reduce vehicle weight, enabling extended range and reduced emissions. SABIC expertise equips automakers with material solutions to help meet that challenge.

Use of STAMAX™ resin this year enabled Chinese automaker Chery to cut the weight of the inner tailgate structure of its new eQ1 electric vehicle by 40 percent. This low-density long-glass-fiber-filled polypropylene material delivers the strength and stiffness of steel at a fraction of the weight. SABIC also delivered development support with computer-aided engineering analysis, enabling performance-optimization of the part – Chery's first plastics-intensive tailgate and the first from any Chinese manufacturer.

Meanwhile, building further on our portfolio of lightweight material, SABIC also launched a completely new generation of melt-strength polypropylenes product, SABIC® PP-UMS. It has the highest melt strength in the industry, enabling an unprecedented level of weight reduction. It is a pure and clean building block, efficient in processing, with unique foam-ability properties.

Below: STAMAX™ resins deliver the strength and stiffness of steel at a fraction of the weight.



Above: SABIC expertise and materials help automakers go electric for a sustainable future.

### SMARTER MATERIALS, COOLER VEHICLES

SABIC collaboration with customers this year saw the launch of ULTEM™ ultrathin dielectric films for electric vehicle capacitors.

Traditional capacitors store energy, but also build-up heat in the vehicle's powertrain, requiring cooling systems. First generation ULTEM™ UTF120 film provides higher energy density than regular polypropylene films, allowing manufacturers to design for higher temperatures, rendering cooling systems unnecessary and enabling the use of higher-efficiency semiconductor-chip technology. By allowing the capacitor to be positioned close to the chip set, this also offers design flexibility and reduces impedance. Most importantly, eliminating the cooling system saves weight, cutting CO<sub>2</sub> emissions.

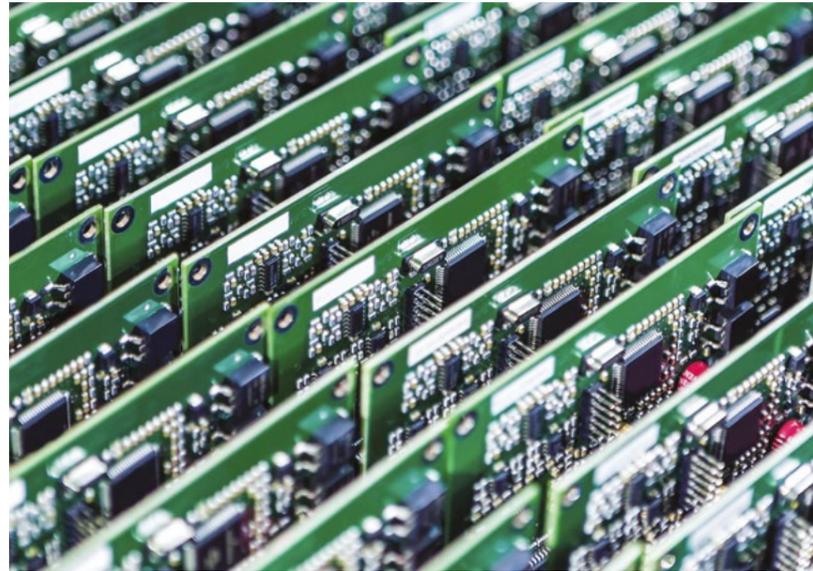
# ELECTRICAL AND ELECTRONICS

We love our devices! We want them smaller, lighter, smarter, and at ever lower prices. Innovative materials from SABIC are helping meet the demand.

## EMPOWERING OUR CUSTOMERS TO ATTRACT THEIRS

As consumer electronics continue to evolve, new materials enable innovation that delivers the differentiation crucial to competitive advantage. In an industry driven by a constant need for things to be thinner, lighter and more energy-efficient, SABIC expertise is at a premium.

SABIC materials and skills have played a key role in the development of many new electrical and electronic devices, and innovation continues in a steady stream, from thermal management to electromagnetic interference shielding to supporting multi-functionality. With exceptional processability and colorability and excellent mechanical properties, SABIC's thermoplastic technology helps deliver durability, reliability and lighter weight, as well as enabling products that are functionally responsive and visually distinctive.



## HELPING DELIVER SPEED AND CONNECTIVITY

With wireless data and digital content delivery expanding exponentially, demand for faster and heterogeneous communications networks is booming.

As companies prepare technology for the coming 5G build-out and the "Internet of Things," with its sheer proliferation of internet-connected devices, they are pushing at the limits of both circuit-board technology and network capacity. NORYL™ oligomers are at the heart of a new generation of devices, enabling high-speed digital-printed circuit boards for high-performance servers and wireless base stations that help reduce signal loss and enable both server-device miniaturization and higher communication speeds.



Top: NORYL™ oligomers are at the heart of a new generation of devices, enabling high-speed digital-printed circuit boards.

Above: THERMOCOMP™ compounds support the ability of base station antennae to maintain bandwidth and signal strength.

Right: SABIC materials and skills have played a key role in the development of many new electrical and electronic devices.

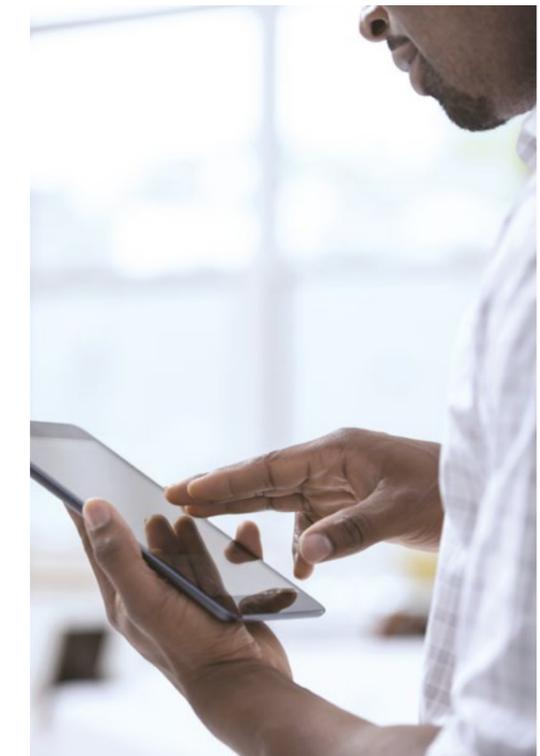
In an industry driven by a constant need for things to be thinner, lighter and more energy-efficient, SABIC expertise is at a premium.

## COOL PRODUCTS THAT DO NOT OVERHEAT

Widely publicized fire hazards due to failed lithium-ion batteries in smartphones and other portable devices drove SABIC's Asian technology team to focus on developing a new flame-retardant material for use in battery covers.

The team's work resulted in a new material – LEXAN™ EXL9414 resin – to meet IEC 62368-1: the Underwriters Laboratories standard for fire hazard. Not only did the new material meet the standard, it also retained other crucial performance requirements, aiding its adoption by a leading Asia-based consumer-electronics original equipment manufacturer (OEM).

Since then, other OEMs have adopted the IEC 62368-1 standard, helping sustain robust demand for the new material. A clear instance of "Chemistry that Matters™" enabling our customers to develop competition-beating products while also helping make the world just a little bit safer.



# OUR COMMITMENT

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# CORPORATE SOCIAL RESPONSIBILITY

SABIC and its people engage in a wide range of activities and programs under the banner of corporate social responsibility (CSR) all around the world.

Whether volunteering to help local communities, donating to good causes, or empowering future generations through educational initiatives, our CSR efforts always focus on sustainability and enduring impact.

Our global CSR strategy, RAISE (Reputation, Audience, Innovation, Strategy, Endurance), provides the framework. Within that framework, registered groups and national organizations devise their own initiatives and follow them through – with financial and other help from Corporate CSR as needed.

RAISE supports communities wherever SABIC operates and maximizes the benefits of our CSR activities by encouraging employee participation and volunteerism. This way, the strategy helps to enable CSR initiatives, on a large scale, anywhere in the world.

## DONATION AND INVESTMENT

This year, SABIC donated US\$57.5 million in community giving (compared to US\$46.4 million in 2016). Altogether, SABIC has invested more than US\$800 million in socially responsible projects and programs over the past 15 years.

## SERVING THE COMMUNITY

Our strategy for serving communities focuses on specific, strategic, timely issues – issues where the right intervention at the right time can deliver real, visible, and above all enduring benefits to the communities in which we operate. SABIC's commitment to volunteerism is long established and deeply entrenched in our organization's culture.

When Hurricane Harvey impacted Houston, Texas, in September, more than 40 SABIC employees got together at the NRG Stadium to create and run an emergency shelter for displaced people, while another group helped the Best Friends Animal Society rescue pets and reunite them with owners.

In December, SABIC sites throughout Europe marked International Volunteering Day with celebrations and the adoption of SABIC's global policy of encouraging employees to devote eight hours a year to SABIC-sponsored-or-approved volunteer activities.



## SCIENCE AND TECHNOLOGY EDUCATION

SABIC has a longstanding and highly successful track record in supporting educational initiatives all around the world, aiming to train the next generation in the skills they will need in the future and to help promote less-technical talents, such as communication, networking, and teamwork. Specific programs this year included:

- **Girls Day** – a special initiative in Bergen Op Zoom, the Netherlands, to break down gender stereotypes and encourage girls interested in a future in science and technology. Some 27 young girls learnt from SABIC employees – both men and women – about life as an employee at a chemical manufacturing plant.
- **Lights of Our Future** – this June in China, SABIC extended this well-established program beyond the campus limits with the Lights of Our Future River Conservation Program, which joined with local authorities to look into ways to conserve rivers in the communities where we operate. As of November, the Lights of Our Future program has reached more than 1,300 Chinese students and received recognition with awards from local organizations.
- **Science Caravan** – this year's caravan went to three cities in Saudi Arabia: Jouf, Araar, and Jazan, bringing together almost 200 volunteers and over 12,000 visitors in a series of workshops, interactive activities, and exercise and training sessions. The caravan motivated the next generation to learn more about the benefits of science and learning in general.

Left: SABIC Science Caravan toured three cities in Saudi Arabia, motivating the next generation to learn about the benefits of science.

Below: The Lights of Our Future program has reached more than 1,300 Chinese students.



## ENVIRONMENTAL PROTECTION

SABIC this year made a major contribution to a new flood-defense project near its Teesside plant in the UK. Working in partnership with the UK government's Environment Agency, SABIC contributed £5 million – almost half of the total £11 million budget – to build flood defenses around the mouth of the River Tees and Greatham Creek: a broad, flat, swampy area always at risk and previously hit by serious flooding caused by tidal surges. SABIC funding made phase two of the overall project possible, and the resultant defenses will offer protection to a less-affluent local community and local wildlife.

This November, SABIC teamed up with local Family Service Centers in Singapore to arrange a morning beach clean-up. The program both enhanced the environment and helped primary school children understand the impact of waste and the environmental challenges of a “throw-away” society.

## HEALTH AND WELLNESS

In November, SABIC employees in Thailand fitted a large water filtration system at Bann Khao Hin Nursery and Primary school, assuring a reliable supply of fresh water for up to 500 people. Extra filters were provided to ensure that the system will function for a decade or more.

In India, SABIC's They See, They Learn initiative continued to deliver eye-care and free spectacles to school children in Delhi, Bengaluru, Chennai, Vadodara, and Mumbai. The program, run in

partnership with the Department of Education and various non-governmental organizations, aims to ensure that no child is disadvantaged in his or her educational progress by an inability to clearly see blackboards and teachers.

Houston employees boosted their own health and wellbeing with the seventh year of participation in the MS150 bike race – a two-day, 180 mile ride, which this year took place in challenging weather conditions. The circumstances didn't prevent them from raising US\$12,000 for charity.

The Ottawa, Illinois, site hosted students from Illinois Valley Community College as part of their Manufacturing Expo Day, an event that gives students insight into the opportunities in manufacturing. The students got a special look at how SABIC operates as a global business and were exposed to manufacturing operations through tours of the maintenance and compounding areas.

In Brazil, SABIC's Campinas site launched a new initiative employing a smartphone app to track employee physical activity throughout the year. Whether biking, running, or walking, employees will be racking up healthy kilometers knowing that a collective 35,000 km will trigger a substantial charitable contribution from the company to a local organization.

## WATER AND SUSTAINABLE AGRICULTURE

Following a number of meetings with city officials to investigate how SABIC could best help the local community cope with the worst drought in South Africa's history, the company focused its efforts on Boundary Primary – a school in a disadvantaged area suffering from high leakage levels due to old and dilapidated plumbing. A comprehensive repair program addressed the leakage, reducing wastage and the school's bills – leaving more to spend on other essentials – and setting up irrigation from greywater-rainwater tanks to irrigate the school's new vegetable garden.

### SABIC DONATIONS (US\$)

↑ 57.5m

2016: US\$46.4m

# HUMAN CAPITAL

Our talented and committed people are key to everything we do for our company, our partners, our innumerable global customers, and the future of the world.

To achieve our vision to be the preferred world leader in chemicals, SABIC must be able to attract, develop, and retain the best talent in our industry. SABIC is committed to becoming an employer of choice because we believe that our success as a company starts with our employees.

To achieve this goal, SABIC's Human Resources is structured to create a work culture that encourages continuous learning, provides exceptional career opportunities, and offers attractive rewards for performance.

One of our proudest achievements is our consistent ranking as the employer of choice among Saudi Arabian graduates.

## HUMAN RESOURCES FORUM

We continued this year to invest heavily in support of Saudi Vision 2030 and SABIC's 2025 strategies. The goals set by Vision 2030 are ambitious, but we believe they can be met through the efforts of our creative and driven people. We are contributing towards fulfilling the Vision by developing best practices in human resources in Saudi Arabia and preparing young Saudis for the labor market by advancing their skills and potentials.

A Human Resources Forum, under the theme, "Transforming HR: Enabling Saudi 2030 Vision," was held at the SABIC headquarters in Riyadh from October 15 to 17, bringing together five keynote speakers and a targeted audience of over 500 participants, from SABIC and a wide range of external partners, including government, small-and-medium-sized enterprises, and academia. Six developmental programs and over 70 learning breakout sessions were held, covering everything from entrepreneurship to the development of learning communities, consistent with our overall strategy for contributing to Vision 2030.

Further aligned to the objectives of Saudi Vision 2030, a consistent key theme in our HR strategy this year remained Saudization, and we continue to make good progress.

SABIC held its Summer Innovation Program in July and August at locations throughout the Kingdom: Riyadh, Jubail, Yanbu, Hail and Abha. In collaboration with organizations such as King Salman Youth Center, InnovEngine and Maker Faire, the program engaged 1,100 high school students, both boys and girls, in activities designed to build



Above: Dr. Ali bin Nasser Al-Ghafis, Minister of Labor and Social Development, addresses the Human Resources Forum in Riyadh.

dedication to learning innovation and a commitment to social responsibility.

The forum witnessed the signing of three Memoranda of Understanding in support of two key pillars of the 2030 vision – "thriving economy" and "vibrant society" – with:

- King Salman Youth Center – aiming to develop an innovative and inspiring community to support Saudi youth in realizing their full potential and exploring their own ideas.
- Ministry of Civil Service – looking to enable the exchange of Human Resources knowledge and expertise and the sharing of HR best practices and solutions, via the creation of a "Regional HR Think Tank".
- Ministry of Education – promoting a "production culture" by creating an inspiring space where Saudi students can be supported in exploring their innovative ideas.

## CONTINUOUS LEARNING

SABIC Academy in Riyadh remains our global center of learning where we advance our knowledge, share expertise and develop our people. To maintain a culture of continuous learning, we provide exceptional training and career-development opportunities. The curriculum for new employees focuses on long-term development at the SABIC Academy and other leading institutions.

The Academy offers competency-based learning, both at the Academy and through e-learning, with over 5,000 online programs accessible to every one of our 34,000+ global employees. It conducts continuous professional programs leading to recognized certification in disciplines such as sales, marketing, finance, and supply chain. Its external outreach efforts, with dedicated government programs, have already produced over 100 highly qualified graduates, equipped with the skills to become SABIC's leaders of tomorrow.

Our leadership development process stresses early identification of leadership potential within the organization. Throughout this process, we look for those who exhibit professional excellence and – most importantly – the ability to execute logically conceived business strategies. The program covers the candidate's progression journey – from an individual contributor to enterprise leader – through a three-stage process, beginning with Skills-focused Leadership Development, Focused Leadership Development, and finally, Comprehensive Leadership Development.

Several other learning programs are geared to meet SABIC's strategic business objectives: Supply Chain Development, SABIC Procurement Employee Early Development, Finance Development, Information Technology Early Career, and SABIC Engineer Early Development.

Being a learning organization, with a unique and world-class learning strategy tailored to accelerate employees' career development, SABIC has collaborative relationships with leading educational and technical institutions spanning the globe. We currently work with leading organizations including King Abdullah University of Science and Technology, King Saud University, Pennsylvania State University, Chinese Academy of Sciences, National University of Singapore, and Cambridge University.

## LEADERSHIP WAY

This year, SABIC embarked on an "Our Leadership Way" journey to help achieve its 2025 strategic foundations, specifically talent development and transforming organization and culture. A Corporate HR task force has been focusing in particular on developing a leadership strategy to build capacity and capabilities, and distinguish SABIC's way of leading from that of its peers.

Global cross-functional HR teams looked at how SABIC could develop a set of guiding priorities that would anchor its purpose of "Chemistry that Matters"; its underlying commitments, and its values of Inspire, Engage, Create and Deliver. The result was a clear and meaningful framework that was inclusive of SABIC's purpose and values.

Our Leadership Way stresses four leadership priorities: Talent Champion, Collaboration Partner, Innovation Pioneer, and Excellence Driver.

## EMPLOYEE DIALOGUE

The Employee Survey saw SABIC employees clearly articulating aspects of working in the company they strongly appreciate, along with areas of concern where they believed change and progress were needed.

SABIC maintained the dialogue with all its employees, ensuring that managers are held accountable – and are seen to be so – for taking action on employee feedback.

Responding to the findings of the dialogue, the CEO and the leadership team recognized the need for SABIC leaders to engage proactively and openly with their teams. The aim was to share the results of the dialogue and discuss the implications, both for individual employees and for the teams within which they work; identify key focus areas of concern for particular working groups; and work together as teams to create and execute action plans to address identified areas of concern.

Following the initiative, the Pulse Dialogue Survey assessed all employees globally to understand whether the proposed management/employees dialogue had taken place, how participants felt about the progress that had been achieved, and whether they were aware of the results and action plans arising out of the initiative.

# INNOVATION AND BUSINESS DEVELOPMENT

SABIC has created an integrated Innovation and Business Development function consisting of a global team of experts in many specialized fields, to drive the company's future growth in all aspects of its business.

In 2017 this comprised 2,150 employees working on 690 research projects – short, medium and long term – at 21 research centers around the world.

Our scientists and engineers this year submitted 741 new Invention Disclosures to protect SABIC intellectual property and safeguard our presence in critical market segments. 992 new patents were granted in 2017.

SABIC Technology Store developed to boost our licensing-in process by more than 30 percent. Numerous license agreements, some in new areas such as coal gasification and methanol to olefins technologies, were also executed.

The SABIC team is supplemented and supported by an extensive global collaboration network of over 90 universities and institutes including King Abdullah University of Science and Technology, Delft University of Technology, Rice University, Chinese Academy of Sciences, Georgia Institute of Technology, University of Toronto, ETH Zurich, University of Konstanz and University of Naples, as well as advanced prototype and system designers such as Holst Center and Nottingham Spirk Design.

## PLANT AND PRODUCTIVITY

In petrochemicals, SABIC continued implementing innovative technologies to maximize asset productivity and enhance efficiency, focusing on its major building block out of its global steam crackers, with improvements to online optimization, yields, anti-coking tube technology, and high emissivity coating applications. In Europe, SABIC has been exploring 'circular economy' innovations with industry collaborators, maximizing glycol yields through the adoption of world-class catalysts, and exploiting CO<sub>2</sub> capture and re-use to add value and improve our sustainability footprint.

SABIC also completed the process design packages for expanding and building plants based on our butadiene extraction process technology, and developed a proprietary technology to produce polymer-grade high purity isoprene for use in butyl rubber and other polymer applications.

Global expansion continued, with the inauguration of a new polypropylene (PP) pilot plant in Geleen, the Netherlands, and investment in a PP extrusion facility, to accelerate the development and commercialization of new material solutions, and respond to changing market needs.



SABIC licensed its own technology and realized the first commercial production of ABS in Saudi Arabia, and agreements were signed to license two polyolefin proprietary technologies – UHMWPE and LDPE CTR® clean tubular reactor – for use in China.

Metals addressed challenging market conditions with optimization initiatives in long products 2300 & SH2400 chemistries to reduce ASTM A615 Grade 60 rebar production costs, the production-boosting installation of the Expert Furnace System Optimization Process (EFSOP) at Electric Arc Furnace, and development of new product, such as ASTM A706 seismic 12 mm rebar.

## NEW PRODUCTS IN POLYMER

Over 60 new products and applications were introduced to the market in 2017, many bringing significant advances in features such as rigidity and weight-reduction, with applications from packaging to construction. New products this year included:

- Two environmentally-friendly high flow phthalate-free polypropylene grades for thin wall food containers.
- Shrink barrier packaging with unique seal-through capability, providing excellent packaging integrity and processability.



Left and above: SABIC's advanced technology and innovation facilities support the company's businesses to develop new, specialized products.

shear rates simulating real injection molding conditions, informs our research into fiber breakage and dispersion, ultimately leading to improved properties and performance.

At the recent GPCA PlastiCon conference in Abu Dhabi, the SABIC foam team, in partnership with Hira Industries LLC, won the 2017 Plastic Excellence Award (in the joint development category), for SABIC's new LDPE dedicated foam grade LDPE HP2024NDF. SABIC also recently took a bronze Emirates Energy Award, in the 'large energy projects' category, making SABIC one of 33 winning companies out of 210 competitors from around the world.

## NEW POLYETHERIMIDE MATERIAL

Electric vehicles are at the cutting edge of technical innovation, as efforts increase to cut weight, for lower fuel consumption and emissions and greater range.

An exploratory research program that began six years ago, looking to identify electric vehicle powertrain component consolidation opportunities, recently resulted in a unique high heat, high-performance film for professional-grade dielectric film capacitors.

Traditional capacitors build up heat in the powertrain, making a cooling system necessary. First generation ULTEM™ UTF120 film, a new polyetherimide (PEI) material which was launched in early 2017, provides higher energy density than regular polypropylene films, allowing manufacturers to design for higher temperatures, which in turn enables elimination of the cooling system and allows the capacitor to be located close to the chip set, offering greater design flexibility and lower impedance.

- FORTIFY™ polyolefin elastomer (POE) for thermoplastic olefin elastomer (TPO) – well-received by the automotive industry for its excellent flow and impact properties.
- A new hybrid injection molding technology for combining plastic and metal, reducing weight and enhancing energy absorption. Six different OEM programs are now underway in Europe, China and the US.
- SABIC PP® UMS – a building block for new foaming solutions across a wide range of applications from packaging to automotive.
- Polyacetal (POM) and SABITAL™ (glass fiber reinforced POM), from the new plant at our Ibn Sina affiliate in KSA.
- Elastomer versatile butadiene rubber (BR) and ethylene propylene diene monomer rubber (EPDMs) for applications from automotive to construction.

A new HDPE application featuring a unique multimodal molecular design, created for a floating solar panel system project in China, passed all crucial tests.

Leveraging our leadership in long-glass-fiber-filled polypropylene, collaboration with universities has contributed to the recent development of a unique high-speed couette device which, by delivering

# INNOVATION AND BUSINESS DEVELOPMENT

continued

## CRUDE-OIL-TO-CHEMICALS PROJECT

A Memorandum of Understanding (MoU) with Saudi Aramco, signed and announced at a ceremony in Dhahran in November 2017, marked the launch of the Crude-Oil-To-Chemicals (COTC) project. The project is designed to overcome feedstock limitations, enabling the production of refined products and chemicals from crude oil, through optimized integration of refinery and petrochemical technologies.

The project is viewed as a significant contributor to the Kingdom's Vision 2030 economic transformation program, supporting the creation of a world-leading downstream sector in Saudi Arabia, generating an estimated 30,000 direct and indirect jobs, and further stimulating economic diversification. With investments shared equally by SABIC and Saudi Aramco, it's forecast that by 2030 the new complex will provide a 1.5 percent boost to Saudi Arabia's GDP.

## GROWTH PROJECTS UNITED STATES

SABIC is actively seeking investment opportunities in the US in pursuit of its clear growth strategy of leveraging competitively priced US feedstock, particularly in methane and ethane derivatives.

SABIC and ExxonMobil are conducting a study into building and operating a petrochemical complex in St. Patricia, Texas, on the US Gulf, and signed a number of agreements for the construction of an ethylene plant. These agreements cover the engineering studies phase of the project, completing and updating technical and commercial studies, and defining business mechanisms between the two parties for the next phase. The joint work team has so far selected the land, signed agreements and awarded contracts for the early site works. Other commercial agreements with ExxonMobil are being finalized, while the Final Investment Decision (FID) is expected to be taken in 2018.

SABIC is also considering a number of other investment opportunities in the Gulf of Mexico.

## CHINA

SABIC currently has various facilities in China, including a petrochemical complex in partnership with SINOPEC, three engineering plastics factories, two global research centers, 18 sales offices and more than 1,300 employees.

Right: SABIC is continually seeking to enhance its presence in the Chinese market.

Far right: SABIC researchers develop inspiring designs to meet the market needs of customers.

INVENTION  
DISCLOSURES  
SUBMITTED

741

NEW PATENTS  
GRANTED

992

SABIC is continually seeking to enhance its presence in the Chinese market, as a key factor in the pursuit of the company's strategic objectives as a global leader in petrochemicals. Recently awarded 'Best Employer' by China's Association of International Chemical Manufacturers, SABIC continues to help drive growth through expanding investment and employment opportunities, stimulating innovation, and extending cooperation with our partners.

September 2016 saw the signing of an agreement with SNCG of Chinese giant National Energy Investment Group, previously known as Shenhua Group, and Ningxia Government, to create a world-class coal to olefins and high value derivatives project – the Wolfberry/Shensha project – in Ningxia. The joint work team has completed detailed technical and commercial studies, and on July 18, 2017, SABIC signed multilateral licensing and engineering agreements with the Shenhua Group and other global partners. Licensing and approval by the National Development and Reform Commission (NDRC) is imminent and is expected to be obtained during 2018.



a detailed study of reserves and proposed methods of mining, beneficiation, pelletizing and further studies on the project's environmental and social impact, and projected water and energy needs. 2017 saw the successful completion of 110,000 meters of drilling, and collection and analysis of over 30,000 samples. The initial study suggests reserves of over 1.7 billion tons of iron ore.

By the end of 2018, SABIC expects the feasibility studies to enable completion of the procedures for granting the project company an exploitation license.

SABIC is also working on a number of initiatives in Africa in targeted products, markets, and located in different countries, in which will be publicized at the right time.

## MERGERS AND ACQUISITIONS

SABIC is studying acquisitions totaling US\$3-6 billion, in petrochemicals, specialty chemicals and agri-nutrients, in a number of global and regional markets, particularly petrochemicals in North America and China, and agri-nutrients in Africa, India and South America.

As part of these efforts, SABIC signed an agreement with Shell Arabia Limited in the first quarter of 2017 for the acquisition of 50 percent of Shell's joint venture in the Saudi Petrochemical Company (Sadaf), in Jubail Industrial City, for approximately US\$820 million. The transfer of ownership to SABIC took place in the third quarter of 2017, making Sadaf fully owned by SABIC. Sadaf is one of the Middle East's largest petrochemical complexes, consisting of six world-class petrochemical plants with a total annual production capacity exceeding 4 million metric tons.

SABIC and its strategic partner SINOPEC, meanwhile, have signed a strategic cooperation agreement during the visit of the Custodian of the Two Holy Mosques to China in March 2017, and submitted a tender for expansion of the Tianjin plant, to produce polycarbonate using SABIC's wholly owned technology.

## AFRICA

Work proceeds on SABIC's Mauritania Saudi Mining and Steel Company (TAKAMUL) project, a joint venture between SABIC and SNIM (Société Nationale Industrielle et Minière) in the Islamic Republic of Mauritania, aiming to supply SABIC's KSA plants, overcoming global shortages of high quality iron ore.

Exploration works began in 2013 at the Atomai Site, in Zouerate, northern Mauritania, about 700 km from the capital Nouakchott, with geological drilling and sample-collection, with the help of contractors and local and international laboratories. The encouraging data collected led to the appointment in late 2016 of a specialized international consultant to conduct a Bankable Feasibility Study, due for completion in mid-2018. The final report will include

# COMPLIANCE AND RISK MANAGEMENT

SABIC's Legal Affairs, Enterprise Risk Management and Internal Audit departments are designed to safeguard the interests of all SABIC stakeholders, including customers, employees and shareholders, and to manage SABIC's risks in a way that promotes our 2025 goal of becoming the world's preferred leader in chemicals.

All three functions regularly provide coordinated reports to SABIC's Executive Risk Management Committee. The SABIC Board of Directors' Risk and Compliance Committee oversees the activities of the Enterprise Risk Management department in assessing key business risks for the company. The Board Audit Committee oversees the compliance and ethics activities of the Legal Affairs Compliance function and the Internal Audit function.

## LEGAL AFFAIRS

Legal Affairs promotes growth and supports commercial transactions and M&A, while providing strategic counsel to optimize opportunities and to mitigate risk. The team also supports SABIC's 2025 goals in two key areas: it builds and maintains robust compliance processes and a strong compliance culture to foster the highest ethical standards; and it works closely with our leaders, strategically protecting intellectual property to maximize value from our innovation activities.

The highlights of our Compliance and Ethics programs in 2017 include completing compliance and risk mitigation reviews for 34 executive leaders and their business or functional units, conducting Executive Compliance Leadership workshops for over 800 business leaders, and conducting a SABIC-wide integrity culture assessment to allow data-based planning for continuing to strengthen the cultural aspects of our program.

SABIC also advanced its commitment to fighting corruption. Internally, SABIC continued to improve its ongoing supplier due diligence program, registering over 6,000 suppliers into a system designed to evaluate risk and ensure integrity and ethical practices throughout its global supply chain. Externally, leadership efforts included a role at the B20 group on Responsible Business Conduct and Anti-Corruption, and participation in multiple compliance and ethics best practice sharing forums around the world.

In Intellectual Property, innovation efforts led to about 424 new original patent applications, with emphasis on patent protection for high value projects. SABIC's overall patent estate exceeds 11,500 global dockets, even with increased scrutiny on existing patents to ensure they still serve SABIC's growth objectives. We also extended our IP awareness training program to include many of SABIC's global affiliated companies.

## ENTERPRISE RISK MANAGEMENT

ERM continued its productive collaboration and support efforts towards SABIC's business goals with the following priorities in 2017: promoting a world-class culture of risk mindfulness, developing decision making processes that incorporate risk calculations, and helping to assure business continuity during the implementation of major projects and transformation initiatives. We also remain focused on driving operational excellence in our global controls on process and access rights, and our insurance and credit risk programs.

In 2017, we continued implementing risk assessment tools and supporting risk based decision-making techniques to effectively manage the organization's threats and opportunities. Embedding risk management processes and promoting risk mindfulness across the organization have been the main focus in SABIC's and SABIC affiliates' existing processes. Timely response to risks and opportunities across all entities of the organization remains a top priority for risk management, to ensure that risks are mitigated and opportunities leveraged to support SABIC's growth strategy and business gains. With global economic changes, rapidly evolving geo-political developments, major competitive trends and an ever changing customer landscape, Risk Management's strategic focus has broadened to include "Risk Intelligence". This has helped provide forward visibility on potential events that could impact SABIC strategically and operationally.

In SABIC, we endeavor to work to the highest compliance standards, using a best-in-class controls environment. With the FANAR+ SAP® Globalization project completed in 2016, we have been able to consolidate, harmonize and further improve our internal controls through a global platform. During 2017, we made substantial progress in the deployment of our global approach to access authorization to structurally govern access rights from a global perspective and significantly reduce segregation of duties risks across our business processes within the SAP system.

Business Continuity Management and the ability to mitigate the adverse impacts of disruptive events remains a critical focus of the organization. In 2017, Business Continuity Management continued to focus on developing the SAP outage manuals for end-to-end processes. However, it extended the business interruption scenarios beyond SAP outage, and applied a wider range of business interruption scenarios to SABIC and SABIC affiliates through the process of Business Continuity Management (BCM) ISO 22301 certification, which included developing and testing the Business Continuity plans. BCM will continue this deployment in 2018-2019.

We are using insurance solutions through highly reputable insurance companies as a risk transfer mechanism, and our insurance program is working as designed to protect SABIC's interests worldwide. Credit risks are also mitigated through the use of credit insurance and bank instruments. Our Global Insurance and Credit Management team focuses on creating value through creative insurance solutions and new practices, leveraging SABIC's global presence and networks.

## INTERNAL AUDIT

The Internal Audit Department audited SABIC's operations in 2017, in accordance with the SABIC Audit Committee Approved Annual Audit Plan. Ernst & Young, SABIC's external auditor, also conducted periodic audits and reviewed the closing financial statements of the company.

The Audit Committee, external auditors and internal auditors met frequently to discuss internal controls, emerging risks, and changes to the internal control environment affected by the recent IFRS conversion and preparation for the KSA Value Added Tax regulations. SABIC continues to maintain a strong internal control environment through the collaborative engagement of the Legal, Enterprise Risk Management and Internal Audit departments.

The Internal Audit department completed all planned audits for 2017, and included reviews within some of SABIC's affiliates. The department also committed resources to its multi-year strategic plan to enhance its operations in the areas of risk assessment, data analytics, auditor development and audit methodology. Adherence to international auditing standards is maintained through the department's expertise center for quality-assurance and improvement programs. In 2017, an external Quality Assurance Review was performed over the Internal Audit function and the results were shared with the Audit Committee and executive management.

All three functions regularly provide coordinated reports to SABIC's Executive Risk Management Committee. The SABIC Board of Directors' Risk and Compliance Committee oversees the activities of the Enterprise Risk Management department in assessing key business risks for the company. The Board Audit Committee oversees the compliance and ethics activities of the Legal Affairs Compliance function and the Internal Audit function.

# ENVIRONMENT, HEALTH, SAFETY AND SECURITY

SABIC strives to instill EHSS as a core value – a deeply held commitment and a fundamental driver of behaviors, never compromised for short-term goals. We seek to proactively nurture a culture that goes beyond compliance to embrace continuous improvement.



Above: All SABIC facilities are built to comply with the strictest international safety regulations.

March this year saw the launch of SHEMS+: our new global EHSS transformation project. It aims to transform EHSS management standards, drive sustainable EHSS performance and deliver EHSS leadership training. In-depth assessments at nine SABIC and affiliate sites generated site-specific recommendations and identified company-wide improvement opportunities. We will use these opportunities to develop our 2018 initiatives.

Our Global EHSS organization, created in 2016 to support and steer regional and facilities' EHSS performance, was further strengthened in 2017, providing support across all regions by dedicated teams within health and safety, process risk management, environment, security, and product stewardship.

## KEY PERFORMANCE INDICATORS

To continuously improve EHSS performance, we monitor a set of key performance indicators (KPIs) across our facilities. Since 2005, our EHSS rate (Safety, Security, Health and Environmental Incident Rate) has improved by 86 percent and our injury Total Incidence rate by 72 percent.

Such improvements are, however, placed in perspective by a fatality at one of our facilities due

to electrocution. We must, and will, improve further. This year saw implementation of a company-wide Life Saving Rules project mandating precautions for high hazard activities. Developed from industry and affiliate benchmarking, these rules set clear expectations for all employees and contractors, driving consistency in conducting hazardous work.

We continue to develop new tools and promote sharing of best practice. One example is a new tool to systematically assess risk and incident potential following any EHSS incident, helping to align resource allocation with risk. Particular effort was devoted to education in order to help staff understand why, and how, to share findings across sites, thereby maximizing the learning benefits of such findings.

We are revising our KPIs for EHSS, looking not only at lagging EHSS indicators, but also leading indicators, to better monitor our performance and prioritize improvement opportunities.

## RESPONSIBLE CARE®

All SABIC and affiliates' manufacturing sites maintain Responsible Care® RC14001:2013 certification. This year, all have undergone audits with a view to gaining the new RC 14001:2015 standard, expected in early 2018.

## HEALTH, SAFETY AND ENVIRONMENT

Achieving EHSS excellence requires not only good processes and systems, but also the right culture. As part of the SHEMS+ initiative, SABIC this year undertook an in-depth EHSS culture assessment, to provide a baseline and identify key cultural aspects that we need to improve in order to achieve our goals.

The SABIC EHSS department worked with facilities to improve emissions monitoring and take prompt action to meet and exceed legal requirements. Despite these efforts, SABIC affiliates received a greater number of notices of violations in 2017 compared to 2016.

Further programs are under development for 2018 to improve our performance in personal safety, industrial hygiene, and environmental protection and compliance.

## NEW SAFETY AND FIRE DIRECTIVE IMPLEMENTATION

Saudi Arabia's High Commission for Industrial Security (HCIS) this year issued a major update and revision to the Safety and Fire (SAF) protection directives, which is applicable to all our Saudi Arabia-based affiliate operations.

SABIC's Global EHSS team and Engineering and Project Management (E&PM) function completed a preliminary review and gap analysis of SAF directives and communicated their conclusions to all affiliates' MEA sites, with a view to developing a common approach and implementation plan. All sites are now identifying site-specific gaps and working with the EHSS Global Assurance (GA) team and the HCIS on implementation plans to ensure compliance.

## SHEMS IMPLEMENTATION IN SBUS/ FUNCTIONS AND OTHER INITIATIVES

This year saw the SHEM rollout initiated in the SBUs and Corporate Functions as well as the documentation. The full implementation and incorporation of SHEMS into their operations and business plans are set to be completed during 2019.



Above: SABIC's safe practices are backed by emergency response systems for coping with any eventualities.

During this period, the following EHSS projects were also completed:

**e-SHEM solution**, a globally consistent process for logging, reporting and managing incidents.

**e-SHEM module for Management of Change** – successfully implemented by two Saudi Arabian sites, with phase two planned for 2018, this new tool aims to simplify global implementation of SHEMS standards.

**EHSS virtual town hall** – conducted four global virtual town halls to share learnings and initiatives, and provide a forum to share and discuss key EHSS improvement and risk management areas.

**Risk-based SHEMS audit** – piloted assessments at several sites in the EU and Middle East and Africa regions using revised audit checklists that focus on implementation effectiveness of the EHSS management system.

## PROCESS RISK MANAGEMENT

Because of the potential hazards inherent in many of our operations, process safety is a critical element of our EHSS programs. In line with our 2025 EHSS goals, SABIC has developed and implemented several programs to enhance process safety knowledge and competency across all functional roles, from operators to executive leadership, with new programs planned for the coming years.

This year, SABIC EHSS formally launched a unique and comprehensive internal Process Safety Competency Development Program for Engineers at Jubail in partnership with Texas A&M University's Mary Kay O'Connor Process Safety Center. The objective of the program is to develop, improve, and strengthen the process-safety competency of SABIC engineers through a structured, intensive training and qualification program.

The program's competency training modules are structured on three levels, with each building on the one before: developing, proficient, and advanced. The first level develops knowledge and conceptual understanding of process-safety theory and principles. As students reach the proficient level, they gain more in-depth knowledge of industrial hazards and independently perform fundamental and routine process-safety related tasks at affiliates.

SABIC engineers passing the advanced level will have the ability to apply creative solutions to complex process-safety-related problems and achieve recognition as subject matter experts in process-safety management, hazard identification and risk assessment, or process safety design engineering.

As of this year, 46 SABIC process safety and process engineers have completed or are enrolled in the

# ENVIRONMENT, HEALTH, SAFETY AND SECURITY

continued

developing level of this extensive program. The proficient level detailed design and development will be completed and launched in mid-2019.

2025 EHSS strategy goals includes other initiatives and programs to enhance the process safety. They include:

- **Improving risk discovery, controls and stewardship** – SABIC Assurance for EHSS Risk (SAFER) is a process that aims to identify and assess risks and devise interim and mitigating actions to eliminate and reduce them. In order to ensure proper implementation of SAFER and other critical process safety procedures, SABIC has developed a four-tiered set of leading and lagging indicators in line with API 754 recommended practice.
- **Developing and improving risk-management methods** – SABIC EHSS Event Evaluation Risk Assessment (SEERA), currently being conducted at selected sites, aims to improve our learning from potentially significant near miss events. As per our current plan, we will pilot globally this year before committing to full implementation.
- **Implementing a facility siting program** – 31 process engineers were trained in facility software and modeling and facility siting assessment to improve EHSS risk identification and mitigation and enhance internal capabilities and competencies in process-risk management. Staff at 10 sites were trained in 2017, with the remainder to be completed in 2018.

## EMERGENCY RESPONSE AND CRISIS MANAGEMENT

SABIC's crisis and emergency management program is designed to promote effective crisis management and emergency response at local, regional and global levels.

In August and September 2017, SABIC responded to Hurricane Harvey, providing resources and support and ensuring business continuity at SABIC-affected locations. Key activities included activation of SABIC's existing Houston Area Severe Weather Emergency Response Plan, precautionary safe shut-down of the SABIC Technology Center in Houston, and the creation of crisis management sub-teams for emergency response, humanitarian support, communications and business continuity.

This year, SABIC conducted a number of cyber-incident exercises to help ensure it is fully prepared to

manage IT threats. In addition, SABIC conducted widespread training in crisis management and emergency response and emergency drills to assess and improve readiness for potential incidents.

## SECURITY RISK MANAGEMENT

This year, SABIC implemented a number of security improvement programs to proactively identify, assess, and mitigate security risks, including:

- Harmonized global travel-security programs for all SABIC travelers.
- Competency programs for security staff and new employees, and a training program for security supervisors.
- Implementation of a canine security service in a number of affiliates.
- Improved security awareness training for security teams at many sites.
- Compliance audits at Saudi Arabian affiliates to assess and improve compliance with new 2017 HCIS directives.
- Completion of security code requirements for Responsible Care recertification.
- Establishment of Jubail Chapter of ASIS International, a global association of security professionals, to build relationships, exchange ideas, and share insights and best practices, locally and globally.
- Completion of a global security risk assessment to identify, prioritize and address security risks to personnel, assets, and operations.
- Updating and revising of information security standards to better protect sensitive information in a dynamic threat environment.
- Development and rollout of a program for arming security guards at Saudi Arabian facilities, including selection, testing and training.
- Successful initiation of an e-security and government relations system.

## PRODUCT STEWARDSHIP

2017 was a year of execution and re-evaluation in our Product Stewardship program, with:

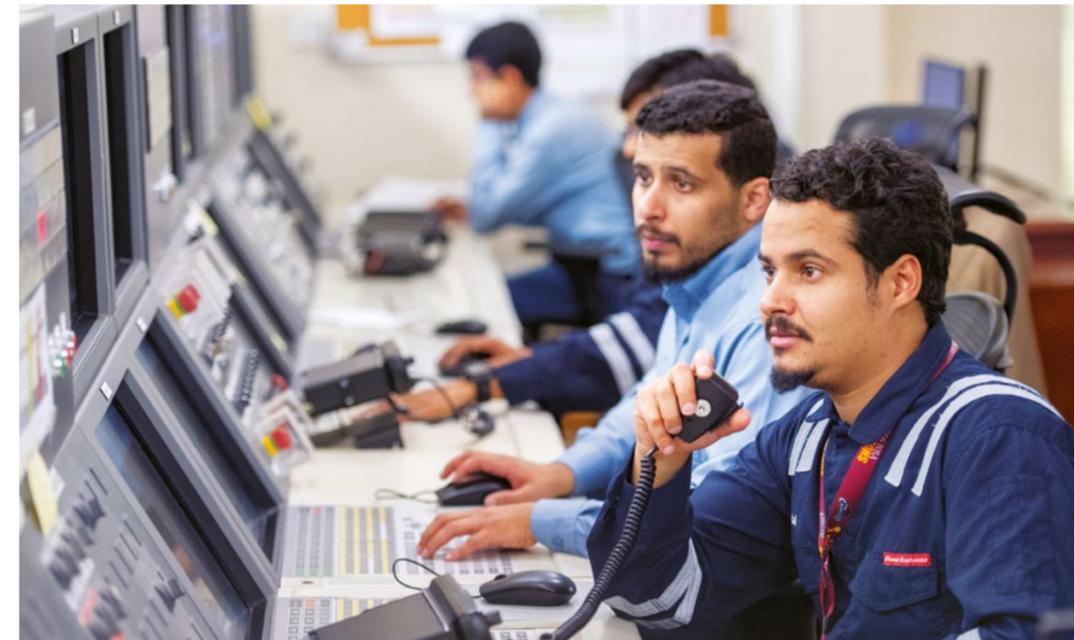
- A Responsible Care value chain pilot for American methanol and styrene customers.
- Completion of an additional 15 risk characterizations of SABIC's top 50 high priority chemicals, bringing the total to 25.

- Improvement of risk identification for new products and processes by designing a cross-functional EHSS review of research and development projects, with implementation scheduled for early 2018.
- Development of analytical methodology to characterize non-intentionally added substances (NIAS) in food contact materials where no harmonized system exists.
- Piloting of Product Stewardship incident reporting throughout manufacturing, with continued rollout to business units and corporate functions set for 2018.
- ExxonMobil's "Global Operations SHE Excellence Award," "Responsible Care Award" and "Global Operations Excellence Award" for Yanpet, a SABIC/Mobil Yanbu Petrochemical Company joint venture.
- "AICM Responsible Care® Chairman Award" in recognition of the company's leadership, innovation and contribution to China's chemical industry and people – our third consecutive award, following "Responsible Care® Merit Awards" in 2013 and 2015.
- "Tianjin Municipal Level Top 100 Work Group" award to SINOPEC SABIC Tianjin Petrochemical Company for its safety record since 2010.
- Two energy efficiency awards from the American Chemistry Council for SABIC's Selkirk, New York, site for "Significant Improvement in Manufacturing."
- "ACC Energy Efficiency Award" in the "Energy Efficiency Program, Plant Site" category for SABIC's Bay St. Louis, Mississippi, site.
- 2017 IChemE Global Awards Finalist in "Process Safety Award" category for Kemya.

## GLOBAL EHSS AWARDS

2017 awards at affiliate sites for positive EHSS performance include:

- A safety award from the Ministry of Labor and Social Development for our Ibn Sina affiliate.
- Recognition from Worldsteel (The World Steel Association) in "Process Safety Management implementation" for Hadeed.



Above: SABIC's crisis and emergency management program is designed to promote effective crisis management and emergency response at local, regional and global levels.

# MANUFACTURING

In pursuit of its objective of achieving best-quartile performance using up-to-date technologies and technical solutions following international standards, SABIC has implemented two transformational programs: Asset Integrity and Reliability (AIR) and Asset Aging Assessment (AAA).

Alongside these two specific programs, a variety of other ongoing initiatives to identify and exploit synergies, share expertise, and otherwise improve performance are in progress.

## ASSET INTEGRITY AND RELIABILITY

The Asset Integrity and Reliability (AIR) initiative provides all SABIC affiliates and sites with a consistent framework for asset management to ensure integrity and reliability throughout any asset's full life-cycle, from design through decommissioning.

Effective asset management helps achieve full realization of the value of assets, and effective exploitation of their potential contribution to the successful achievement of business goals, objectives, and value drivers.

Successful implementation of the AIR program is expected to deliver improved EHSS and operational performance and reduced operational risk thanks to improved reliability and asset health – and the implementation of appropriate asset life-cycle management strategies.

## ASSET AGING ASSESSMENT

SABIC Manufacturing's Asset Aging Assessment (AAA) program aims to ensure that risks incurred by asset-aging or obsolescence are identified and mitigated.

The AAA program saw all manufacturing sites intensively engaged with the AAA Global Deployment Team. Completion of the first phase of this initiative was scheduled for the end of November 2017; the program is planned to safely and cost-effectively help manage asset performance and associated risks during its remaining life.

## ENERGY AND SUSTAINABILITY

With its focus on culture, systems and tools, SABIC Manufacturing launched its own Certified Energy Expert Course (SCEE), aiming to develop key personnel and build a network of in-house energy and sustainability expertise. Thirty-seven people qualified as SABIC Certified Energy Experts during 2017.

SABIC Manufacturing undertook sustainability opportunity-assessments of various projects during the gating process to ensure that these projects achieve outstanding energy and sustainability performance. In addition, we started the development of site energy optimizers for several SABIC sites. This tool helps identify opportunities for improved operating strategies, and generate insights that can enhance energy systems, resulting in improved energy performance.

Below: SABIC pursues up-to-date technologies and technical solutions at its manufacturing sites.



SABIC's 2016 Sustainability Report was recognized for effective data management and effective use of key performance indicators by the World Business Council for Sustainable Development.

## BENCHMARKING

We periodically compare its manufacturing performance against industrial peers at regional and global levels. Over the last five years, more than 70 percent of SABIC's global production has been benchmarked.

The exercise involves teams comprising members from affiliate operations, maintenance, human resources, finance, global asset technology center,

GLOBAL PRODUCTION  
BENCHMARKED

70%

SABIC CERTIFIED  
ENERGY EXPERTS

37

## SYNERGY

In 2017, SABIC manufacturing continued its efforts to identify and exploit synergies, such as the production of methanol from Petrokemya's off-gas at Ar-Razi and Ar-Razi's oxygen venting reduction.

In 2018 Petrokemya plans to optimize a Sharq stream to increase butadiene capacity – and has a number of other potential synergies with neighboring companies under evaluation.

SABIC Manufacturing embarked on a process for optimal global utilization of its expertise and know-how, through the integration of technical support, networking, and knowledge management in one seamless platform. To achieve this, Regional Asset Support (RAS) is tasked with unlocking knowledge and leveraging this large volume of expertise to drive technical support through effective networks. This effort will retain knowledge for future generations, improve our innovative capabilities, and ultimately develop SABIC's performance as a learning organization.

This process has so far been successfully implemented across four regions, with 108 technical issues resolved. A community forum was introduced, to unite the wider manufacturing community in sharing technical information and managing our knowledge content.

## ACTIVE ENGAGEMENT, IMTYAZ+

The first phase of the manufacturing transformational journey not only included organizational evolution but also the deployment of the manufacturing management system, IMTYAZ.

Having standardized organizational structures, processes, stewardship models, performance metrics, and leadership behaviors in 2016, our focus this year was to ensure correct use of the management system by embarking on an active-engagement approach, IMTYAZ+, delivered through coaching and experiential learning. This approach identified areas of good implementation that should be more effectively leveraged, and others of opportunity that needed to be addressed, in order to maximize impact on operational-risk reductions, production increases, and cost efficiencies.

Our next steps will be to engage in further integration, to ensure direct impact of initiatives on our strategic objectives in line with SABIC's 2025 strategy and our journey toward optimized performance-based manufacturing excellence.

business units, and regional manufacturing performance and operational support.

In 2017, methanol and styrene benchmarks were undertaken with global peer groups. At the same time, internal assessment of high-volume product families including olefins, ethylene glycols, methanol, polyolefins, ammonia and urea were conducted, building internal manufacturing capabilities. As an outcome of these comparative studies, improvement initiatives were generated, with the objective of ensuring first-quartile performance in the operation and maintenance of all assets.

# SUPPLY CHAIN

2017 saw the transformation of SABIC's Global Supply Chain organization into a single, efficient, streamlined supply-chain function.

SABIC has devoted considerable time and attention to improving its supply-chain strategy and integrating and optimizing its solid, liquid, and bulk supply chains, making them more efficient, sustainable, and responsive to the needs of customers. Particular highlights this year have come in strategy formulation and execution, organizational refinement, capability improvements and sustainability.

Results vindicated the sustained and focused efforts of recent years: SABIC was this year ranked one of the chemicals industry's top three companies for supply-chain excellence in Gartner's Top 25 supply-chain benchmarking.

## STRATEGY

The newly established Global Supply Chain (GSC) organization embarked on defining a global supply-chain strategy for SABIC to empower growth and deliver tangible value to SABIC and its customers. The GSC strategy comprises numerous strategic initiatives: to empower growth, customer service, the full exploitation of digital resources; value sourcing, value-chain optimization, and people empowerment; whilst continuing to improve SABIC's sustainability performance. The strategy was endorsed by SABIC's executive committee and implemented through a dedicated strategic organizational structure.

## CAPABILITY

The new global supply-chain structure consolidates the supply chains of the Petrochemicals and Agri-Nutrients business units into one, with two core chains – solids and liquid/bulk – both fully supported by sourcing, excellence and value chain planning.

As part of global-sales and operational-planning optimization, SABIC aims to enhance ethylene-feedstock allocation by identifying and capturing value-improvement opportunities arising from synergies between ethylene and its derivatives across and within affiliates. Ethylene-optimization agreements signed between SABIC and some of its affiliates are designed to help shift mindsets toward value-driven thinking across all entities and regions.

Our Bulk Supply Chain planning achieved similar optimization for SABIC's ammonia and nitrogen businesses.

SABIC was ranked one of the top three companies for supply-chain excellence in the chemicals industry in Gartner's 2017 Top 25 supply-chain benchmarking.

## PROCESS AND SYSTEMS

The FANAR+ program, which provides a single uniform global platform to enable consistent and standardized planning and operations became operational for all SABIC's supply-chain regions in 2017.

In Solid Supply Chain, we worked with Saudi Ports Authority and Saudi Customs to establish dedicated SABIC offices at Saudi ports. The first opened in March in Jeddah, enhancing communication between all parties and expediting clearance. A number of workshops with stakeholders helped to ensure a successful startup and operation of the new streamlined processes.

In the Asia region, the e-commerce platform introduced to Engineered Thermoplastics customers resulted in e-commerce sales reaching, at 48 percent, almost half of total sales for the region.

## INFRASTRUCTURE

The new Global Supply Chain organization is enabling growth in emerging markets, with new logistics-service-provider agreements signed in Brazil and Peru, and studies underway looking into the potential for similar arrangements in Africa. Strategic initiatives such as container-load optimization for solids, tank-terminal optimization for liquids, and conveyor-belt for agri-nutrients are all contributing to the infrastructural improvements necessary to support SABIC's ambitious production growth.

Two new eco-ships designed in Germany and built in China have entered service in our Liquid Supply Chain. This year, GasChem Orca joined its sister ship GasChem Beluga in transporting refrigerated ethane. As the vessels run on ethane gas rather than



Above: One of the two new eco-ships that have entered service in SABIC's Liquid Supply Chain.

heavy fuel oil, they surpass compliance well ahead of the International Maritime Organization's 0.5 percent sulfur-emission cap on marine fuel by 2020. Each vessel will save more than 1,200 tons of CO<sub>2</sub> emissions a year. Our Liquid Supply Chain also achieved a record 78,500 metric tons load on the NCC Fajr, reducing costs by 22 percent.

Through innovative thinking, our Bulk Supply Chain loaded jumbo bulk bags on top of bulk urea when shipping from Jubail commercial port to the USA, reducing lead-time and cost as well as offering our agri-nutrients customers a "one-stop shop," with no additional capital outlay. The Bulk Supply Chain further optimized container-loading capacity by 17 percent.

In Asia, optimization in our solid-supply-chain warehousing network cut costs without compromising customer-service delivery in any way, while sea bulk deliveries rose 23 percent year on year. To support sales growth in western China, the Solid Supply Chain successfully executed the first train shipment from Europe to China.

## SUSTAINABILITY PERFORMANCE

Throughout 2017, the Supply Chain Performance Management (SCPM) program enabled effective cost-per-ton reporting, with supporting analytics and value-adding KPIs, such as Net Promoter Score and supply chain Carbon Footprint. The Carbon Footprint KPI enables accurate calculation of SABIC's outbound supply-chain carbon footprint for all regions and transport modes, right through to delivery to the customer: a global first.

Our Solid Supply Chain in Europe and one of its service providers, Den Hartogh, jointly introduced a railway connection between Chemelot rail terminal in Geleen and Moerdijk in the Rotterdam area, taking around 200 trucks a month off Dutch roads. Not only does this ease road congestion, it also exemplifies SABIC's continuous focus on improving our carbon footprint, cutting our annual CO<sub>2</sub> emissions by around 550 metric tons.

The ultimate testament to the Global Supply Chain's sustainability successes came in the form of a clean external RC 14001 audit, which reported zero findings.

## LOOKING AHEAD

The Global Supply Chain organization will continue implementing its comprehensive supply-chain strategy, bringing value to SABIC businesses and their customers globally. Through key initiatives such as service-level differentiation and a digital and excellence strategy, SABIC will remain among the world's top-rated chemical supply chains.

GasChem Orca and GasChem Beluga will each save over 1,200 tons of CO<sub>2</sub> emissions every year.

# SUSTAINABILITY

SABIC recognizes sustainability as not just an ethical issue but a business imperative, enabling our company to be more agile, dynamic, and better prepared for the future.

We look to incorporate sustainability into every facet of our organization, and look to ensure that our business strategies and sustainability aspirations are always aligned.

This year, we will be issuing our seventh Sustainability Report. SABIC has been recognized as a leader in global sustainability reporting by the World Business Council for Sustainable Development – a testament to the success of our integrated strategy for responsible business and growth.

## NATURAL CAPITAL

By integrating resource and energy efficiency into our strategy, company culture, and operations, SABIC protects natural capital for future generations.

We continue to build on our initiatives targeting four sustainability goals by 2025: reducing greenhouse-gas, energy, and water intensities, all by 25 percent, and material-loss intensity by 50 percent, all from 2010 levels. Such reductions not only reduce our products' life-cycle impacts; they also improve our operational efficiency, and bear down on operating costs.

Our initiatives include operational excellence, new technologies, and efficiency projects. SABIC monitors and evaluates the performance of our affiliates, and engages employees across the organization to raise awareness, offer and benefit from training, share best practices, and inspire new ideas. We invest in quick-hit, small-scale solutions; larger and longer-term actions; and global operational changes, bringing transformational resource-and-energy-efficiency gains.

SABIC's Manufacturing corporate function has started the SABIC Certified Energy Expert Course, with a view to building a network of energy-efficiency experts. Manufacturing also leads sustainability and opportunity assessments of megaprojects during the gating process to ensure that such projects are best-in-class in terms of their energy and sustainability performance. SABIC's Jubail-based manufacturing affiliate, Al-Bayroni, has become the first entity in Saudi Arabia to achieve United Nations carbon credits under the Clean Development Mechanism (CDM) scheme.

## INNOVATION FOR SUSTAINABILITY

This year, SABIC is working on innovations beyond new materials, and launched several disruptive material solutions such as THERMOCOMP™ Additive Manufacturing compounds based on acrylonitrile-butadiene-styrene (ABS), polyphenylene ether (PPE), polycarbonate (PC) and polyetherimide (PEI) resins for large-format additive manufacturing that can produce oversized complex parts with speed and precision by optimizing material use and improving process efficiency.

Drawing on our extensive expertise in material chemistries, formulations, production, and part-printing, SABIC pushes the limits of design, materials, and processing – just as we have done with traditional polymer processes over past decades – to bring unique offerings to the additive-manufacturing space. Over the last year we have qualified four new sustainability solutions in our product portfolio, and verified more than 80 innovation projects for sustainability benefits and risks.

## LEADERSHIP WAY

We launched the SABIC Leadership Way in 2017 to help achieve our 2025 vision for talent development and organizational culture.

The Leadership Way is guided by the principles of long-term dependability and building valuable

Below: SABIC is working on innovations beyond new materials, and has launched several innovative material solutions.



Left: SABIC's sustainability initiatives include operational excellence, new technologies, and efficiency projects.

NEW SUSTAINABILITY  
SOLUTIONS  
QUALIFIED

4

PROJECTS FOR  
SUSTAINABILITY  
BENEFITS IDENTIFIED

80+

relationships, while delivering and performing for customers and stakeholders. It provides a meaningful framework for leaders to develop themselves and their teams, highlighting four priorities that SABIC leaders should strive to achieve: being a talent champion, a collaboration partner, an innovation pioneer, and an excellence driver.

SABIC is developing tailored training and development programs for its employees. Our personalized performance system offers employees clear feedback with recommended development actions, and provides over 6,000 classrooms and online courses to support employee learning at every professional level. At the SABIC Academy, employees learn through an integrated talent-development process, with assessment, coaching, experiential learning, and formal classroom training.

This work has earned SABIC the Top Employer Institute certifications, "Top Employees Asia Pacific 2018" and "Top Employers 2018," in five of its key Asian markets – China, India, Japan, Singapore, and South Korea – for five or more consecutive years. These certifications recognize the company's constant efforts in nurturing an inclusive environment that encourages innovation, excellence, and organizational effectiveness, with a strong focus on employee development.

## LOOKING FORWARD

In 2018, SABIC will support our business results through continued progress toward our 2025 energy-and-resource-efficiency goals, exploration of alternative feedstocks, continued development of key-personnel competencies, and improved talent selection and retention. Completion of our portfolio of sustainability-assessment pilots will identify sustainable-product opportunities in key markets.

Another initiative in 2018 will be a refresh of our materiality analysis. This process includes a review of global sustainability megatrends – including the United Nations' Sustainable Development Goals (SDGs), the Paris Agreement, and Saudi Arabia's Vision 2030 – helping us develop a master list of material issues to evaluate against our business and stakeholder needs. Through this process, we will engage externally with key stakeholders and internally with leaders to ensure our focus is on issues of the highest priority to both groups. The results of this assessment will be incorporated into our sustainability strategy over the coming year and published in our next Sustainability Report.

SDGs provide a framework to match important growth areas for society with our business goals, helping us to develop more resilient business solutions. In 2018, we will select those that best fit our priorities. The identified SDGs will be incorporated into our strategic objectives through a wide range of measures, including messaging, targets, and partnership and initiative selection.

# DIRECTORY

MANUFACTURING COMPANIES	70
GLOBAL DIRECTORY	74



# MANUFACTURING COMPANIES

COMPANY	LOCATION	PARTNERSHIP	PRODUCTS
<b>Alba</b> <sup>M</sup> Aluminium Bahrain**	Bahrain	SABIC Industrial Investments Company (20.62%), Bahrain Mumtalakat Holding Company (69.38%), others/public (10%)	Aluminum (liquid metal, ingots, rolling slabs, and billet)
<b>Al-Bayroni</b> <sup>A P</sup> Al-Jubail Fertilizer Company	Al-Jubail, Saudi Arabia	A 50/50 SABIC joint-venture with Taiwan Fertilizer Company	Ammonia, urea, 2-ethyl hexanol, and DOP
<b>Ar-Razi</b> <sup>P</sup> Saudi Methanol Company	Al Jubail, Saudi Arabia	A 50/50 joint venture with Japan Saudi Arabia Methanol Company	Chemical-grade methanol
<b>Cos-Mar Company</b> <sup>P</sup>	Caville, Louisiana, USA	A 50/50 joint venture with Total	Styrene
<b>GARMCO</b> <sup>M</sup> Gulf Aluminum Rolling Mill Company**	Bahrain	SABIC (30.40%), Bahrain Mumtalakat Holding Company (37.29%), Iraq (4.71%), Oman (2.36%), Qatar Holding Company (2.36%), Kuwait Investment Authority (16.98%), Gulf Investment Corporation (5.90%)	Aluminum sheets and can stocks
<b>Gas</b> <sup>P</sup> National Industrial Gases Company	Al-Jubail, Saudi Arabia (head office); Yanbu, Saudi Arabia (branch)	SABIC (70%) and a group of Saudi Arabian private-sector companies (30%)	Oxygen, nitrogen and argon (Al-Jubail); oxygen and nitrogen (Yanbu)
<b>GPIC</b> <sup>A P</sup> Gulf Petrochemical Industries Company**	Bahrain	Joint-venture with equal partnership for the Petrochemical Industries Company of Kuwait, State of Bahrain, and SABIC	Methanol, ammonia, and urea
<b>Hadeed</b> <sup>M</sup> Saudi Iron and Steel Company	Al-Jubail, Saudi Arabia	A wholly owned affiliate of SABIC	Steel rebar, wire rod, hot-rolled coils, cold-rolled coils, galvanized coil, and flat-steel products
<b>Ibn Al-Baytar</b> <sup>A</sup> National Chemical Fertilizer Company	Al-Jubail, Saudi Arabia	A 50/50 SABIC joint-venture with SAFCO	Ammonia, urea, compound fertilizer, phosphate, and liquid fertilizer
<b>Ibn Rushd</b> <sup>P</sup> Arabian Industrial Fibers Company	Yanbu, Saudi Arabia	SABIC (45.19%), PIF (33.51%), and a group of Saudi Arabian and regional private shareholders (21.3%)	Aromatics (paraxylene and benzene), purified terephthalic acid (PTA), bottle-grade chips, PET, and acetic acid
<b>Ibn Sina</b> <sup>P</sup> National Methanol Company	Al-Jubail, Saudi Arabia	A 50-50 joint venture with CTE (a company jointly owned by subsidiaries of Celanese and Duke Energy)	Chemical-grade methanol, MTBE, and polyoxymethylene

- <sup>P</sup> Petrochemicals
- <sup>A</sup> Agri-Nutrients
- <sup>S</sup> Specialties
- <sup>M</sup> Metals\*

COMPANY	LOCATION	PARTNERSHIP	PRODUCTS
<b>Ibn Zahr</b> <sup>P</sup> Saudi European Petrochemical Company	Al-Jubail, Saudi Arabia	SABIC (80%), Ecofuel-Italy (10%), Arab Petroleum Investment Corporation APICORP (10%)	MTBE and polypropylene
<b>Kemya</b> <sup>P</sup> Al-Jubail Petrochemical Company	Al-Jubail, Saudi Arabia	A 50/50 SABIC joint-venture with Exxon Chemical Arabia	Polyethylene (LDPE, LLDPE), ethylene, carbon black (CB), polybutadiene rubber (PBR), styrene butadiene rubber (SBR), ethylene propylene diene monomer (EPDM), regular butyl (RB) and halo butyl (HB)
<b>Ma'aden Phosphate Company</b> <sup>A</sup>	Riyadh, Saudi Arabia	SABIC (30%) and Ma'aden (70%)	DAP, MAP, NPS
<b>Ma'aden Wa'ad Al-Shamal Phosphate Company</b> <sup>A</sup>	Riyadh, Saudi Arabia	SABIC (15%), Mosaic (25%), and Ma'aden (60%)	DAP, MAP, NPS, NPK
<b>Petrokemya</b> <sup>S P</sup> Arabian Petrochemical Company	Al-Jubail, Saudi Arabia	A wholly owned affiliate of SABIC	Ethylene, polystyrene, butene-1, propylene, butadiene, benzene, polyethylene, VCM, S-PVC, and ABS
<b>Sadaf</b> <sup>P</sup> Saudi Petrochemical Company	Al-Jubail, Saudi Arabia	A wholly owned affiliate of SABIC	Ethylene, styrene, caustic soda, ethylene dichloride, and MTBE
<b>SAFCO</b> <sup>A</sup> Saudi Arabian Fertilizer Company	Al-Jubail, Saudi Arabia	SABIC (42.99%), GOSI (12.24%), public investors (44.77%)	Ammonia, urea, and urea formaldehyde
<b>SABIC Innovative Plastics US LLC</b> <sup>S</sup>	Bay St. Louis, Mississippi, USA	A wholly owned affiliate of SABIC	CYCOLAC™, CYCOLOY™, and GELOY™ resins
<b>SABIC Innovative Plastics B.V.</b> <sup>S</sup>	Bergen op Zoom, Netherlands	A wholly owned affiliate of SABIC	LEXAN™, XENOY™, NORYL™, NORYL™ GTX™ and VALOX™ resins; LEXAN™ sheet, and film
<b>SABIC Innovative Plastics US LLC</b> <sup>S</sup>	Burkville, Alabama, USA	A wholly owned affiliate of SABIC	LEXAN™ resin
<b>SABIC Innovative Plastics España ScpA</b> <sup>S</sup>	Cartagena, Spain	A wholly owned affiliate of SABIC	LEXAN™, EXTEM™, ULTEM™, and CYCOLOY™ resins
<b>SABIC Innovative Plastics Mt. Vernon</b> <sup>S</sup>	Mt. Vernon, Indiana, USA	A wholly owned affiliate of SABIC	LEXAN™, CYCOLOY™, ULTEM™, VALOX™, XENOY™, XYLEX™, SUPEC™, and SILTEM™ resins, LEXAN™ sheet and film, and ILLUNINEX™ display film
<b>SABIC Innovative Plastics US LLC</b> <sup>S</sup>	Ottawa, Illinois, USA	A wholly owned affiliate of SABIC	CYCOLAC™, CYCOLOY™, and GELOY™ resins

# MANUFACTURING COMPANIES

continued

COMPANY	LOCATION	PARTNERSHIP	PRODUCTS
<b>SABIC Innovative Plastics US LLC</b> <sup>S</sup>	Selkirk, New York, USA	A wholly owned affiliate of SABIC	PPO™ resin, NORYL®, NORYL PPX® and NORYL GTX® resins, and high-impact polystyrene (HIPS)
<b>SABIC Petrochemicals B.V.</b> <sup>P</sup>	Geleen, Netherlands	A wholly owned affiliate of SABIC	Polyethylene (HDPE, LDPE, LLDPE), polypropylene, ethylene, propylene, butadiene, MTBE/ETBE, benzene, gasoline components, styrene, C9 resin feed, cracked distillate, acetylene, hydrogen, and carbon-black oil
<b>Geismar Olefins Plant.</b> <sup>P</sup>	Geismar, Louisiana, USA	SABIC Petrochemicals Holding US, Inc (11.54%) and NOVA (81.46%)	Ethylene
<b>SABIC UK Petrochemicals Ltd</b> <sup>P</sup>	Teesside, UK	A wholly owned affiliate of SABIC	Ethylene, propylene, benzene cyclohexane, cracked distillate hydrogen, butadiene, polyethylene (LDPE)
<b>SABIC Polyolefine GmbH</b> <sup>P</sup>	Gelsenkirchen, Germany	A wholly owned affiliate of SABIC	Polyethylenes (HDPE, LLDPE) and polypropylene
<b>SAMAC</b> <sup>P</sup> Saudi Methyl Acrylate Company	Al-Jubail, Saudi Arabia	A 50/50 joint venture with Mitsubishi Chemical Corporation	Methyl Methacrylate (MMA), polymethylmethacrylate (PMMA)
<b>SSTPC</b> <sup>P</sup> SINOPEC SABIC Tianjin Petrochemical Co. Ltd.	Tianjin, China	A 50/50 joint-venture between SABIC Industrial Investments Company and SINOPEC (China Petroleum & Chemical Corporation)	Ethylene, propylene, polyethylene (HDPE, LLDPE), polypropylene, ethylene oxide, MEG, DEG, phenol, acetone, MTBE, butadiene, and butene-1
<b>Saudi Kayan</b> <sup>S P</sup> Saudi Kayan Petrochemical Company	Al-Jubail, Saudi Arabia	SABIC (35%), public shareholders (65%)	Ethylene, propylene, polypropylene, LDPE, HDPE, ethylene glycol, acetone, polycarbonate (PC), ethanolamines (EOA), ethoxylates, bisphenol A, benzene, normal butanol, and natural-detergent alcohol (NDA)

This list includes all manufacturing affiliates (with the exception of compounding facilities), as wholly owned by SABIC or to which SABIC is partner. It includes each affiliate's location, types of products produced, and if not wholly owned, the percentage owned by SABIC in such affiliate. A full list comprising the total SABIC group holdings worldwide is available on: <http://www.sabic.com/corporate/en/ourcompany/manufacturing-affiliates/sabic-manufacturing-affiliates>.

- <sup>P</sup> Petrochemicals
- <sup>A</sup> Agri-Nutrients
- <sup>S</sup> Specialties
- <sup>M</sup> Metals\*

COMPANY	LOCATION	PARTNERSHIP	PRODUCTS
<b>Sharq</b> <sup>P</sup> Eastern Petrochemical Company	Al-Jubail, Saudi Arabia	A 50/50 SABIC joint-venture with SPDC Ltd	Ethylene, propylene, aromatics (BTX), ethylene glycol (mono, di, tri), linear low-density polyethylene (LLDPE), and high-density polyethylene (HDPE)
<b>Shrouq**</b> <sup>P</sup> Saudi Japanese Acrylonitrile Company	Al-Jubail, Saudi Arabia	SABIC (50%), ASAHI Kasei Chemicals Corporation (30%), and Mitsubishi Corporation (20%)	Acrylonitrile, Sodium Cyanide
<b>SOCC</b> <sup>P</sup> Saudi Organometallic Chemicals Company	Al-Jubail, Saudi Arabia	A 50/50 joint-venture between Saudi Specialty Chemicals Company and Albemarle Netherlands BV	Tri-ethyl aluminum (TEAL)
<b>Specialty Chem</b> <sup>P</sup> Saudi Specialty Chemicals Company	Al-Jubail, Saudi Arabia	Wholly owned affiliate of SABIC (Arabian Petrochemical Company – Petrokemya, 99%, and SABIC Industrial Investments Company 1%)	TPO/PP compounds, ETP/PC compounds, PC/ABS compounds, and specialty products
<b>SSNC</b> <sup>P</sup> SABIC SK Nexlene Company	Ulsan, South Korea Corporate headquarters: Singapore	A 50/50 joint venture between SABIC Industrial Investments Company and SK Global Chemicals	Metallocene linear low density polyethylene (mLLDPE), polyolefin plastomers (POP), polyolefin elastomers (POE)
<b>United</b> <sup>P</sup> Jubail United Petrochemical Company	Al-Jubail, Saudi Arabia	SABIC (75%), Public Pension Agency (15%), General Organization for Social Insurance (10%)	Ethylene, polyethylene, ethylene glycol (EG), and linear-alpha olefins (LAO)
<b>Yanpet</b> <sup>P</sup> Saudi Yanbu Petrochemical Company	Yanbu, Saudi Arabia	A 50/50 SABIC joint-venture with Mobil Yanbu Petrochemical Company (an affiliate of ExxonMobil Chemical, USA)	Ethylene, polyethylene, ethylene glycol, polypropylene, pyrolysis gasoline, propylene, and hydrogen
<b>Yansab</b> <sup>P</sup> Yanbu National Petrochemical Company	Yanbu, Saudi Arabia	SABIC (51%) and public shareholders or owned by others (49%)	Ethylene, propylene, ethylene glycol (mono, di, tri), linear low-density polyethylene (LLDPE), high-density polyethylene (HDPE), polypropylene, butane-1, benzene, toluene/xylene mixture, and MTBE

\*Metals products are supplied under the SABIC brand through Hadeed, a fully owned manufacturing affiliate of the company.

\*\* During the year ended 31 December, 2017, SABIC acquired 30 percent of the non-controlling interests in Shrouq. Legal formalities for the acquisition of the remaining 20 percent of the non-controlling interests have been completed subsequent to the year ended December 31, 2017.

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