



unmatched
opportunity



The core sample on the left is from our largest oil field. The feedstock pellets on the right are the product of one of our latest petrochemical ventures.

From crude oil to chemicals, we see unmatched opportunity.

Saudi Aramco Facts & Figures
2017

unmatched
opportunity



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our operations

- 🌟 Saudi Aramco headquarters
- 🌐 global office
- 🔬 R&D center/technology office
- 🏠 wholly owned refinery
- ⚡ power and water utility venture
- 🚰 terminal

📍 refining and chemical joint ventures, and listed subsidiaries:

SAUDI ARABIA

- Rabigh Refining and Petrochemical Company (Petro Rabigh)
- Sadara Chemical Company
- Saudi Aramco Mobil Refinery Company (SAMREF)

- Saudi Aramco Shell Refinery Company (SASREF)
- Yanbu Aramco Sinopec Refining Company (YASREF)
- Saudi Aramco Total Refining and Petrochemical company (SATORP)

MAASTRICHT

- ARLANXEO Holding BV

SEOUL

- S-Oil Corporation

FUJIAN

- Fujian Refining and

Petrochemical Company Ltd.

- Sinopec SenMei Petroleum Company Ltd.

TOKYO

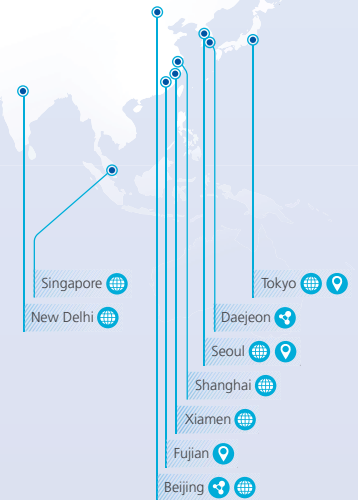
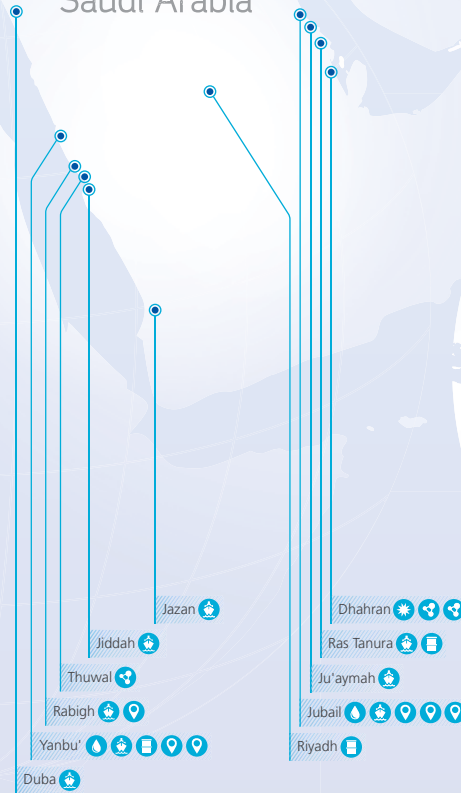
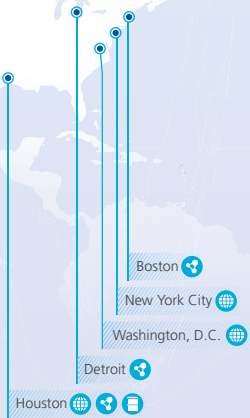
- Showa Shell Sekiyu KK

United States

Europe

Saudi Arabia

Asia



our company

We are the world's largest integrated oil and gas company.

Our vision is to be the world's leading integrated energy and chemicals producer, operating in a safe, sustainable, and reliable manner.

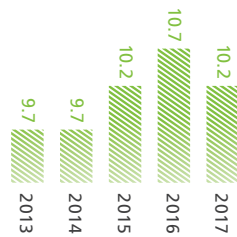
To achieve our vision, we continue to make progress on our journey to grow additional value and strengthen our resilience to crude oil market volatility through the strategic integration of our downstream operations and the development of our chemicals business.

Our commitment to research and development underpins our vision. The development and deployment of advanced technology is critical to the execution of our strategy and is embedded in our operational model. We focus on innovative ideas and technologies that will make our resources more accessible, useful, sustainable, and competitive — helping ensure global energy security.

The scale of our upstream and downstream operations, and our expertise across the hydrocarbon value chain, position us to identify and capitalize on new opportunities and enter new markets. Equally important is our commitment to be a safe, responsible, and reliable provider of petroleum — one of the world's most important sources of energy — enabling the progress of people, communities, and countries around the globe.

At Saudi Aramco, our planning, decision making, and projects are guided by, and seek to fulfill, our strategic business objectives.

upstream operations



Crude oil production
(million bpd)

For 85 years, we have been entrusted with the stewardship of the Kingdom's oil and gas reserves. Over the decades, we have matured our understanding of the Kingdom's geology and built an integrated network of oil and gas production and processing facilities.

Crude oil and gas exploration activities resulted in the discovery of two new oil fields and one new gas reservoir.

In 2017, we produced an average of 10.2 million bpd of crude oil, including blended condensate, and processed an average of 12.4 billion scfd of raw gas and supplied 8.7 billion scfd of natural gas with an energy content of 1,080 Btu per scf.

We stayed on course to increase the plant capacity of our **Khurais** facility by 300,000 bpd in 2018.

We readied our **Midyan** nonassociated gas field in northwestern Saudi Arabia. The facilities in the field are designed to produce 75 million



In support of our drive to sustain value from the Kingdom's resource base for generations to come, we are working to increase the production capacity of our Khurais facility.

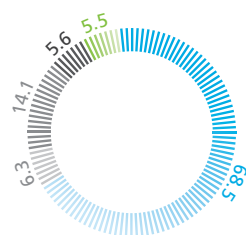
scfd of natural gas and 4,500 bpd of condensate. We also completed wells toward the development of the Hasbah-Khursaniyah increment designed to feed the **Fadhili Gas Plant**, which is planned to process 2.5 billion scfd of raw gas.

Our **upstream R&D** addresses key oil and gas challenges: Improving seismic processing and analysis, increasing the effectiveness and efficiency of gas exploration, optimizing enhanced crude oil recovery

methods, raising crude oil recovery rates, enhancing oil well productivity, and lowering production costs. Research activities are primarily performed in-house, with support from our Global Research Network research centers in Houston, Boston, and Beijing, and from our technology offices in Aberdeen, Scotland and Delft, the Netherlands.

We are the sole supplier of natural gas in the Kingdom, the seventh largest natural gas market in the world.

downstream operations



2017 crude oil exports by market

(percent)

- Asia
- Northwest Europe
- Mediterranean
- U.S.
- Other

Our downstream business is one of the company's engines for growth and diversification.

Our extensive global downstream network is designed to provide a diversified portfolio of non-crude oil revenue streams, create resilience in times of crude oil price volatility, secure dedicated outlets for our crude oil in strategic growth markets, and allow us to maximize value across the entire supply chain.

In Saudi Arabia, we completed Phase I of the project to expand the **Master Gas System**, adding 1 billion scfd of capacity and raising the total capacity of the system to 9.6 billion scfd. **Sadara**, our joint venture with The Dow Chemical Co., began full operation of the last of its 26 plants. At our **Petro Rabigh** venture with Sumitomo Chemical, we achieved mechanical completion of the Rabigh Phase II project, which includes a new aromatics complex, an expanded cracking

facility, and differentiated polymer units.

Worldwide, we continued to evaluate and pursue opportunities to increase our refining and chemicals capacities in key strategic markets.

In **Malaysia**, we executed Share Purchase Agreements with Petronas to participate in a grassroots full conversion refinery and integrated chemical cracker to be located in Johor Bahru, Malaysia.

In **China**, we signed a Memorandum of Understanding with China North Industries Group Corp. (Norinco) to participate in its planned refinery expansion and a 300,000 bpd greenfield refinery in Panjin in Liaoning Province.

In the **United States**, the dissolution of the 18-year-long Motiva joint venture was finalized, with Saudi Aramco retaining the Motiva name and becoming the sole owner of North America's largest

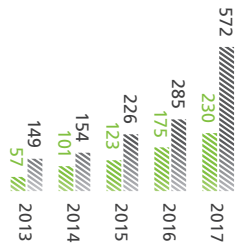
single-site crude oil refinery at Port Arthur, Texas.

In our drive to grow our **base oils business**, in 2017 we established a global interchangeable slate of Saudi Aramco branded base oils among our LUBEREF, S-Oil, and Motiva affiliates, and commenced domestic sales of aramcoDURA® and aramcoPRIMA® base oils.



Our global downstream portfolio spans the hydrocarbon value chain and includes chemicals manufacturing, trading, refining, and marketing — creating greater value from our resource base

securing the future



New United States patents filed and granted

Granted
Filed

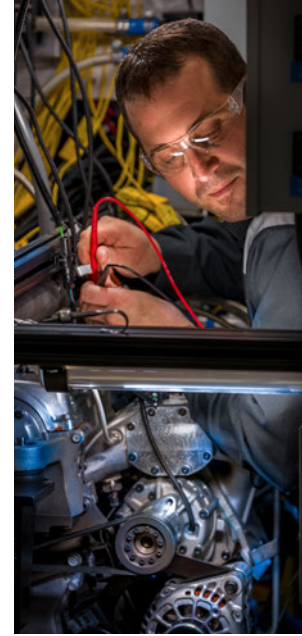
We believe that continued investments in further reducing the greenhouse gas intensity of crude oil and its derivatives will reap benefits for energy producers and consumers alike. Our R&D programs address four areas of strategic importance:

Sustaining low carbon intensity crude oil

A study published in early 2018 in *Nature Energy* examined crude oil grades supplied to the Chinese market from over 100 oil fields in 20 countries and concluded that Saudi Arabian crude oils have the lowest carbon intensity.

Growing non-fuel applications for crude oil

We successfully piloted a thermal crude oil to chemicals technology and established a strategic partnership with leading technology providers to de-risk and scale up this technology. We continued to expand the use of innovative



We are developing and testing next-generation, lower emission internal combustion engines as well as the fuels that power them, helping to ensure a sustainable energy future.

nonmetallic materials, including the deployment of more than 2,300 km of nonmetallic pipes.

Advancing sustainable transport

In collaboration with engine technology developers and major automakers, we are advancing new engine and fuel technologies to reduce exhaust emissions and improve fuel economy — twin goals that help address the global climate challenge and contribute to continued mobility and economic growth.

Driving high-impact solutions

We are investigating cost-effective and efficient low-carbon footprint technologies, including carbon capture, utilization, and storage, and improved energy efficiency and energy mix diversification. Our CONVERGE® polyols technology converts CO₂ into cost competitive and sustainable

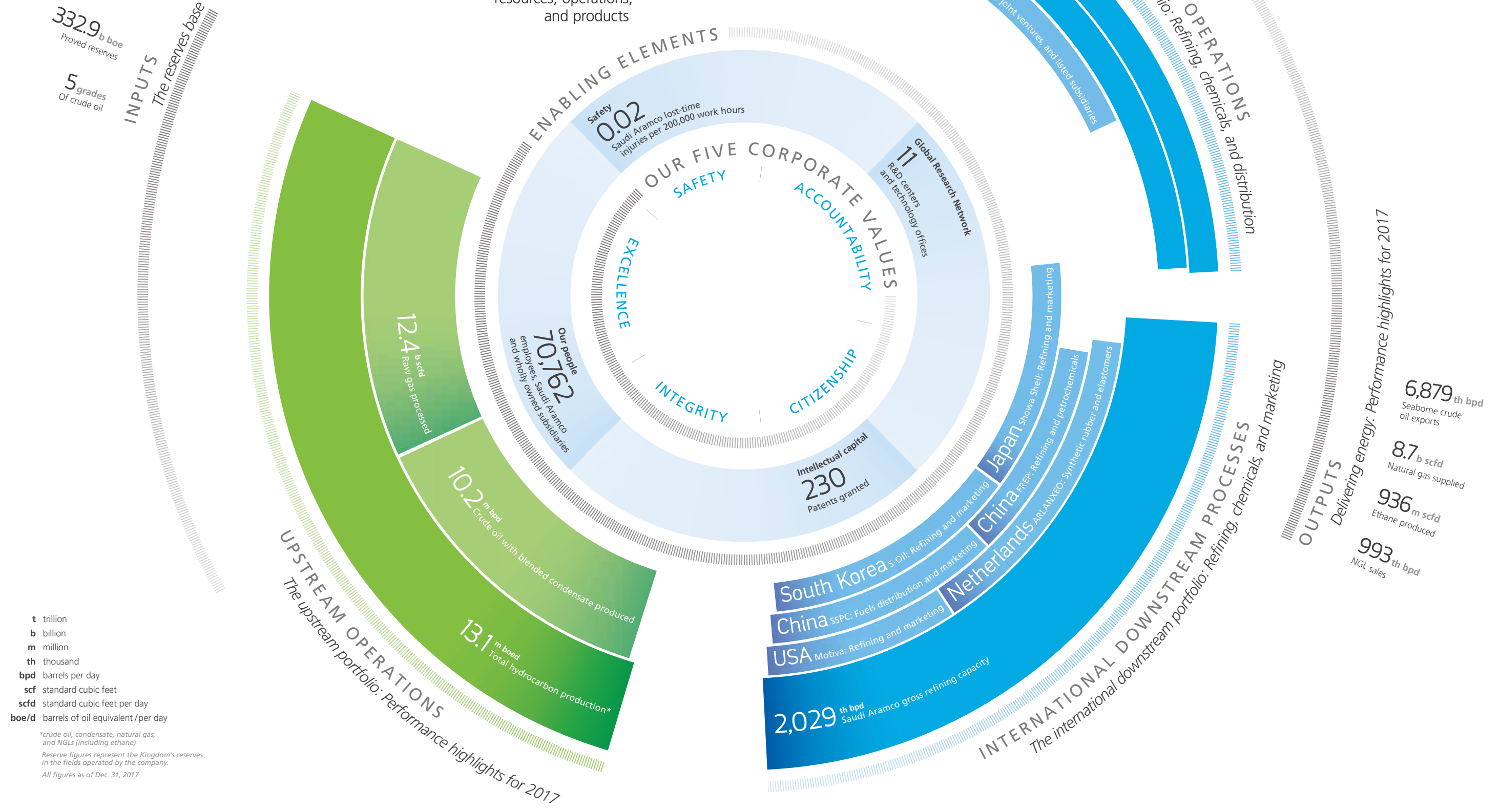
polyols used in a broad range of high performance applications from automobile seating to insulation.

In the Kingdom, we engage and participate with key national stakeholders in the pursuit of high impact research and technology initiatives of strategic importance to our business. Internationally, we collaborate with a network of academic and industry research partners on topics related to the global challenge of a sustainable energy future.

Our Global Research Network — comprised of three in-Kingdom research centers and eight satellite research centers and technology offices in strategic international locations — is dedicated to addressing global energy and sustainability challenges and creating substantial competitive advantage for our business.



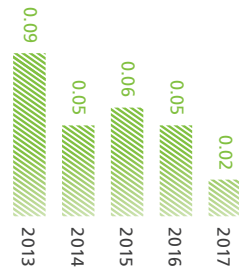
our
business
resources, operations,
and products



t trillion
b billion
m million
th thousand
bpd barrels per day
scfd standard cubic feet
scfd standard cubic feet per day
boe/d barrels of oil equivalent /per day

*crude oil, condensate, natural gas, and NGLs (including ethane)
Reserve figures represent the Kingdom's reserves in the fields operated by the company.
All figures as of Dec. 31, 2017

enabling excellence



*Saudi Aramco
lost-time injury rate
(per 200,000
work hours)*

Our success as a business rests on our attention to safety and the development of our people. To enable increasingly efficient operations, we support endeavors to enhance the domestic energy sector and diversify the economy.

The lost-time injury (LTI) rate for Saudi Aramco employees at year-end was 0.02 per 200,000 work hours, a significant improvement compared to the 2016 LTI rate of 0.05. Overall, our **Traffic Safety Signature Program** has contributed to a 30% reduction in motor vehicle accidents for Saudi Aramco employees.

We deliver continuous development and skill building opportunities tailored to meet the growing responsibilities of our evolving business. In 2017, we delivered a suite of **professional training programs** to more than 22,000 participants from various levels of professional employees and management.



Together with leading industrial partners, we are advancing the development of a sustainable and competitive Saudi Arabian energy sector.

To secure our long-term future, we are always seeking ways to optimize costs, enhance the reliability of our supply chain, and identify greater efficiencies in our operations. Nowhere is this more important than in our home base of Saudi Arabia.

In 2017, we formed two joint ventures to help optimize drilling costs: **Saudi Aramco Nabors Drilling** (SANAD), with Nabors Industries Ltd. for onshore rigs, and **Aramco Rowan Offshore Drilling** (ARO), with Rowan Companies plc for offshore rigs. We also entered an in-Kingdom joint venture with Jacobs Engineering Group and established centers of **engineering excellence** at five local contractor offices.

The **King Salman International Complex for Maritime Industries and Services** targets localizing essential links of our supply chain related to offshore drilling and shipping activities. In 2017, we established **International**

Maritime Industries, a joint venture for the maritime yard. Major operations are expected to commence in 2019, with full production capacity of the facility reached in 2022.

A major component of the expanding in-Kingdom energy ecosystem is **King Salman Energy Park**. In 2017, we began planning for development of Phase I of the park, to be located in the Eastern Province. The park is intended to attract investments by energy-related manufacturing and services companies — many of which are our supply chain partners.

citizenship in our communities

iSpark
4,792
students reached

iDiscover
5,869
students reached

We believe in the power of energy to transform lives, lift communities, advance human progress, and sustain our planet.

Our flagship citizenship initiative, the **King Abdulaziz Center for World Culture**, and the renovated Energy Exhibit, opened in the second half of 2017 and drew more than 44,000 visitors to cultural and educational exhibits and programs.

The international **“Bridges Art Program”** continued to offer compelling cultural events in 2017. More than 50 Saudi artists participated in nine exhibitions, including shows at the Los Angeles County Museum of Art and the Brooklyn Museum, drawing more than 320,000 visitors.

We aspire to make a positive and lasting difference by equipping the people in our **local communities** with the skills, resources, and know-how to create self-sustaining

enterprises. For example, we support the beekeeping and honey industry in al-Baha, coffee farmers in Jazan, fishermen in Yanbu’, and the vision impaired in Madinah with training, skills development, and resources.

The protection and preservation of the natural environment for future generations is vital to our success, and to the continued quality of life for us all. Our initiative to restore lost **mangrove habitats** in the Kingdom’s Eastern Province coastal areas is on track to plant two million mangrove seedlings by the end of 2018.

Our **Shaybah Wildlife Sanctuary** helps preserve a unique ecosystem, and in 2017 we reintroduced three iconic species that had disappeared from the area: The Arabian oryx, the Arabian sand gazelle, and the ostrich.

We also seek to contribute meaningful assistance to the communities that host our

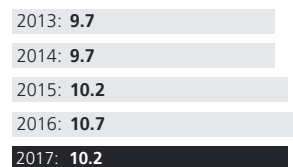
offices and operations around the world. Our efforts include support for a wide range of citizenship activities, including disaster relief, literacy and STEM skills (science, technology, engineering, and mathematics) development, and volunteer work by our employees for charitable causes.



Our people volunteer their skills and time to support their local communities, such as constructing monsoon-proof homes in Bantam, Indonesia, and helping the Houston area in the U.S. recover from Hurricane Harvey.

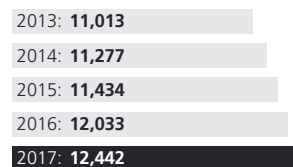
our performance in 2017

Daily crude oil production (millions of bpd)

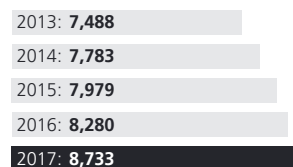


Includes blended condensate and Bahrain's share of the Abu Safah field

Raw gas processed (millions of scfd)



Natural gas supplied (millions of scfd)



bpd = barrels per day
scf = standard cubic feet
scfd = standard cubic feet per day
NGL = natural gas liquids

The company has adjusted its methodology for calculating its performance metrics in 2017 to better align with management of its business. These adjustments have been applied retroactively for all years presented. Reserve figures represent the Kingdom's reserves in the fields operated by the company.

Estimates of proved reserves of crude oil, condensate, natural gas, and NGLs

	2017
Crude oil millions of barrels	256,737
Condensate millions of barrels	4,124
Natural gas millions of barrels of oil equivalent	36,939
NGLs millions of barrels	35,097
Total millions of barrels of oil equivalent	332,897

Reserve figures represent the Kingdom's reserves in the fields operated by the company

Crude oil production and exports

	2016	2017
Crude oil production, millions of barrels <i>Includes condensate and Bahrain's share of the Abu Safah field</i>	3,921	3,735
Seaborne crude oil exports, thousands of bpd <i>Includes blended condensate</i>	7,253	6,879

NGL: production from hydrocarbon gases (thousands of bpd)

	2016	2017
Propane	535	524
Butane	347	349
Condensate	228	216
Natural gasoline	250	248
Total NGL production	1,359	1,337

Ethane produced (millions of scfd)

2013	796
2014	809
2015	794
2016	920
2017	936

Refined products production and exports

	2016	2017
Refined products production, millions of barrels <i>Includes production from wholly owned refineries and Saudi Aramco's share of production from domestic joint ventures</i>	664.6	657.4
Refined products exports, thousands of bpd <i>Includes exports from wholly owned refineries and Saudi Aramco's share of exports from domestic joint ventures</i>	809	818

NGL: sales (thousands of bpd)

	2016	2017
Propane	501	491
Butane	295	291
Condensate	8	20
Natural gasoline	195	192
Total NGL sales	999	993

Excludes sales on behalf of SASREF & SAMREF

Sulfur recovery (metric tons per day)

2016	16,356
2017	17,984

Includes sulfur from joint ventures

Sulfur exports (metric tons per day)

2016	9,728
2017	8,175

Excludes sales on behalf of SASREF & SAMREF

Refining capacity (thousands of bpd)

	Gross capacity	Saudi Aramco or affiliate ownership	Saudi Aramco net capacity
Saudi Arabia			
Ras Tanura	550	100%	550
Riyadh	126	100%	126
Yanbu'	245	100%	245
Petro Rabigh	400	37.5%	150
SAMREF-Yanbu'	400	50%	200
YASREF-Yanbu'	400	62.5%	250
SASREF-Jubail	305	50%	153
SATORP-Jubail	400	62.5%	250
Total Saudi Arabia	2,826		1,924
International			
Motiva-USA	635	100%	635
S-OIL-South Korea	669	63.4%	424
Showa Shell-Japan	445	14.9%	67
FREP-China	280	25%	70
Total international	2,029		1,196
Total Saudi Arabia and international	4,855		3,120

Chemicals production capacity at Saudi Aramco sites and joint ventures (kilotons per annum)

Product groupings	In-Kingdom	Out-of-Kingdom	Total capacity	Saudi Aramco share*
Ethylene	2,998	1,101	4,099	1,788
Propylene	1,766	1,521	3,287	1,561
Paraxylene (including xylenes)	2,040	3,910	5,950	2,713
Benzene	1,176	1,150	2,326	1,091
Polyolefins	2,800	1,553	4,353	1,741
Synthetic rubber and elastomers	295	1,744	2,039	1,043
Intermediates, derivatives, and others	7,435	1,675	9,110	4,646
Total	18,510	12,654	31,164	14,583

*Saudi Aramco's share of capacity is based on the percentage allocation of the capacity volumes based on the ownership structure in the respective entities. Production capacity figures for 2017 reflect the start up of Petro Rabigh Phase II and the ownership restructuring of the former Motiva joint venture.

Principal products manufactured at in-Kingdom refineries (thousands of bpd)

2017	LPG	Naphtha	Gasoline	Jet fuel/kerosene	Diesel	Fuel oil	Asphalt & misc.	Total
Ras Tanura	10	42	117	27	175	87	17	475
Yanbu'	10	9	33	(1)	96	100	—	247
Riyadh	4	—	26	10	44	—	16	99
Jiddah	1	5	7	—	5	20	12	49
Total in-Kingdom	24	55	183	36	319	206	45	870

Saudi Aramco share (thousands of bpd)

2017	LPG	Naphtha	Gasoline	Jet fuel/kerosene	Diesel	Fuel oil	Asphalt & misc.	Total
SAMREF	(2)	—	70	29	58	39	—	195
SASREF	4	34	6	28	46	38	—	156
Petro Rabigh	3	24	16	13	31	38	—	126
SATORP	4	10	47	37	121	1	—	221
YASREF	—	—	66	—	168	—	—	234
Total share	9	68	204	108	426	116	—	931
Grand total	33	123	387	145	745	323	45	1,801

Negative figures primarily indicate products that were reprocessed into other refined products.

Principal products manufactured at in-Kingdom refineries (thousands of bpd)

2016	LPG	Naphtha	Gasoline	Jet fuel/kerosene	Diesel	Fuel oil	Asphalt & misc.	Total
Ras Tanura	13	48	126	32	180	85	15	499
Yanbu'	10	9	30	(1)	96	101	—	245
Riyadh	7	—	34	13	58	—	20	132
Jiddah	2	6	11	—	7	19	15	61
Total in-Kingdom	32	64	202	45	340	205	50	937

Saudi Aramco share (thousands of bpd)

2016	LPG	Naphtha	Gasoline	Jet fuel/kerosene	Diesel	Fuel oil	Asphalt & misc.	Total
SAMREF	(2)	—	66	29	54	39	—	186
SASREF	4	32	6	30	45	34	—	151
Petro Rabigh	2	23	15	14	30	38	—	121
SATORP	1	11	45	29	126	5	—	216
YASREF	—	—	60	—	145	—	—	205
Total share	5	66	192	101	400	116	—	879
Grand total	37	130	393	146	740	321	50	1,816

Negative figures primarily indicate products that were reprocessed into other refined products.

In-Kingdom product sales by region *(thousands of bpd)*

2017	Central	Eastern	Western	Total	2016	Central	Eastern	Western	Total
LPG	4	21	20	45	LPG	7	22	16	45
Gasoline	208	111	280	599	Gasoline	200	111	256	567
Jet fuel/ kerosene	29	9	61	99	Jet fuel/ kerosene	28	10	55	93
Diesel	185	140	244	570	Diesel	188	162	331	681
Fuel oil	3	6	469	478	Fuel oil	5	5	415	424
Asphalt	15	19	22	56	Asphalt	19	18	24	61
Naphtha	—	31	—	31	Naphtha	—	5	—	5
Total	444	337	1,096	1,877	Total	446	333	1,097	1,876

Ship calls at Saudi Aramco terminals

Ship calls by product type	2017	2016	2015	2014	2013
Crude oil	2,023	2,013	2,210	1,936	2,018
Products	489	1,007	649	1,028	824
LPG	309	259	250	200	198
Total ship calls	2,821	3,279	3,109	3,164	3,040

Exports from Ras Tanura, Ju'aymah and Yanbu' and transfers at Jiddah, Rabigh, Yanbu' and coastal bulk plants.

Disclaimer

The use of terms such as "company," "Saudi Aramco," "organization," "it(s)," "our(s)," "their(s)," "we," and "us," and of abbreviated titles refers to the Saudi Arabian Oil Company and its consolidated subsidiaries unless otherwise indicated, and is for convenience and reference only, and is not intended as an accurate description of the individual status of any legal entity or corporate relationship, or to indicate that Saudi Aramco is conducting commercial activities outside the Kingdom of Saudi Arabia.

The information in this Facts & Figures booklet is presented as of the date of this booklet and is subject to change without notice. The delivery of this booklet is not, under any circumstances, intended to create the implication that there has been no change in the matters discussed herein. This booklet is not intended to be a comprehensive description of Saudi Aramco.

The information presented in this booklet is not audited and is subject to change. You should not place undue reliance on the information contained herein. Additionally, the historical information and other information presented herein are likely not indicative of Saudi Aramco's expected results in future periods.

All statements, other than statements of historical fact, included in this booklet are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "will," "anticipate," "expect," "plan," "believe," "intend," and "should," or the opposite of these terms or other comparable terminology. These statements relating to future events, or Saudi Aramco's future performance, reflect management's current beliefs and expectations and involve known and unknown risks, uncertainties, and other factors that may cause Saudi Aramco's actual results, performance, or achievements to be materially different.

