Our Commitment

We are committed to being a safe, responsible oil and natural gas company and a positive force within the communities where we work.

VIEW OUR SUSTAINABILITY COMMITMENTS

2016 Highlights

ENVIRONMENT
We reduced our U.S. methane emissions by more than 1.6 billion cubic feet with the help of new technology.

LEARN MORE

HEALTH AND SAFETY
Our employees are working more safely than ever, achieving our lowest-ever recordable incident rate.

LEARN MORE

COMMUNITIES
We are improving lives in Equatorial Guinea by funding breakthrough solutions to eradicate malaria.

LEARN MORE

PEOPLE
We continued to build leaders, with 68 employees completing our 12-month LEAD program.

LEARN MORE

A Message From Dave Stover

READ THE LETTER

All Performance Data

VIEW NOW

IPIECA/API/IOGP & GRI Index

VIEW NOW
Environment

Environmental responsibility includes minimizing emissions from our operations, reducing our footprint and impact on local habitats, and protecting local watersheds.

Health and Safety

The term “NO HARM” sums up the guiding principles behind all our environmental and health and safety actions. It also describes the health and safety culture that we instill in all our employees and contractors.

Communities

We strive to make a significant difference in the communities where we live, work, and operate. Our community initiatives are built around three strategic pillars: community health, environmental efforts, and education/workforce development.
People

We continually identify new ways to allow employees to learn, grow and succeed – approaches that have deepened the strengths of both individuals and the organization.

Transparency

Our ongoing presence at the top of the Center for Public Accountability’s CPA-Zicklin Index, a measure of transparency policies and practices in political spending, is just one measure of our commitment to ethical and transparent actions. Accountability for our operations and practices starts with our Board of Directors and extends to every Noble Energy employee and contractor.

About Our Reporting

Noble Energy’s sixth annual Sustainability Report describes the company’s management objectives, approach and performance during calendar year 2016. It reflects our commitments to transparency and to improving the rigor and materiality of our sustainability reporting and other public disclosures.
A Message from Dave Stover

At Noble Energy, some of our greatest accomplishments go beyond our operational and financial results. We recognize that we have many stakeholders, including our stockholders, governments, non-governmental organizations and the communities in which we operate. Our 2016 Sustainability Report highlights the things we did during the year to support our commitment to sustainability, an obligation we take to heart as we energize the world and better people’s lives.

I am especially proud of our sustainability accomplishments during a year of challenge for our industry. Of particular note, we set a company record low lost time incident rate while repeating the record low recordable incident rate set in 2015.

We play an important role in our communities. Our focus on strategic partnerships in those communities is allowing us to have a measurable impact and increase employee involvement.

We are committed to improving the quality of our sustainability reporting, providing additional detail in a number of areas. Our online sustainability reporting site is fully integrated into our main Noble Energy website. You can build your own custom report based on your interests, or download a summary of key highlights.

I am grateful for our employees, business partners and contractors who help us every day to be a better and more sustainable company.

David L. Stover
Chairman, President and Chief Executive Officer
Our Sustainability Commitments

• Protecting workers, the environment and local communities where we operate

• Developing and maintaining strong relationships with our contractors to achieve operational and environmental, health and safety excellence

• Reducing our impact on the environment by developing and applying best-practice technologies, such as:
  - Responsible management of water supply and quality including sourcing, well integrity, transport, use, treatment, recycling, reuse and disposal
  - Management of air emissions, including greenhouse gas emissions and ozone precursors (volatile organic compounds and nitrogen oxides)

• Engaging with stakeholders to better understand their perspectives, to inform decision-making and to seek mutually beneficial solutions

• Respecting human rights and the cultures of communities where we operate

• Making social investments that create value for stakeholders on a sustainable basis and are consistent with our business objectives

• Conducting our business in compliance with legal and regulatory requirements, and in a transparent manner

• Fostering a culture where innovation is embraced and a learning environment exists to maximize everyone’s potential
About Our Reporting

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Reporting Frameworks

As one framework for this report, Noble Energy used the Oil and Gas Industry Guidance on Voluntary Sustainability Reporting (3rd Edition, 2015) developed by the International Petroleum Industry Environmental Conservation Association (IPIECA), American Petroleum Institute (API), and International Association of Oil & Gas Producers (OGP). The report also references the Global Reporting Initiative’s (GRI) Sustainability Reporting Guidelines (G4, 2013) and G4 Oil and Gas Sector Disclosures (G4, 2013). Our combined IPIECA/API/IOGP, GRI and GRI OGSD Index identifies the management disclosures and performance indicators we report on for 2016, and where the data may be found in this report or in additional documents.

Report Scope

Unless otherwise noted, this report covers activities under Noble Energy’s direct operational control during calendar year 2016, which coincides with the company’s fiscal year. All financial data are reported in U.S. dollars and represent the company’s share of operated as well as non-operated oil and natural gas exploration and production activities.

Divestitures, Restatements and Additions

Under our portfolio management program, we divested certain assets through asset or equity sales, exchanges, dissolutions of joint ventures and other transactions throughout the year. In the DJ Basin, we closed an acreage exchange agreement to receive approximately 11,700 net acres in our core Wells Ranch development area in exchange for 13,500 net acres outside of our focus area. We also divested approximately 33,100 net acres and sold certain other producing and non-producing assets.

In mid-2016, we signed a definitive agreement to divest a portion of our interest in the Tamar field, and in December 2016, we closed the divestiture of 3.5% ownership interest, partially fulfilling the commitment in the Israel Natural Gas Framework to reduce our ownership interest in Tamer to 25% by year-end 2021. Noble Energy’s reporting on the Marcellus Shale includes the company’s share of activities and performance, but does not include the activities or performance of CONSOL Energy, its joint venture partner in the Marcellus Shale. In October 2016, we and CONSOL Energy agreed to dissolve our 50/50 joint development agreement and executed an exchange agreement to transfer co-owned properties.

Our 2017 data will reflect the following portfolio changes:

- In January 2017, we announced the signing of a definitive agreement to acquire Clayton Williams Energy, adding, 71,000 core net Delaware acres adjacent to our existing position
- In May 2017, we announced the signing of a definitive agreements to divest all of our Marcellus upstream and midstream assets in northern West Virginia and southern Pennsylvania.

Stakeholder Engagement and Input

We believe that stakeholder feedback is essential to continuous improvement in sustainability reporting. We used input gathered from a diverse group of NGOs and sustainability performance analysts to learn more about external stakeholder expectations in order to develop our initial sustainability reports and have continued to gather feedback from these sources. Their comments and others helped guide the development of this 2016 Sustainability Report.

Assurance

Information in this report has been subject to internal review and we believe it to be correct at the time of reporting. We did not have a third-party assess the report.
Materiality Analysis

The content of this report was determined through a 2016 materiality analysis to identify areas of greatest interest to internal and external stakeholders. Internal interviews and workshops were conducted to discuss topics of potential significance.

This report focuses on the areas that we believe are of the greatest interest to external stakeholders and greatest relevance to Noble Energy’s operations and business success.

Forward-Looking Statements and Other Matters

This report contains forward-looking statements that reflect Noble Energy’s views about future events as of the date of this report. These statements by their nature are subject to risks, uncertainties and assumptions and are influenced by various factors. As a consequence, actual results may differ materially from those expressed in the forward-looking statements. We do not assume any obligation to update forward-looking statements should circumstances, management’s estimates or opinions change.

We Want Your Feedback

Tell us what you think about our 2016 Sustainability Report and our sustainability performance. For questions or feedback, please contact us at responsibility@nblenergy.com.

Report Archive


Additional Information

Visit www.nblenergy.com for additional information.
Environmental responsibility includes minimizing emissions from our operations, reducing our footprint and impact on local habitats, and protecting local watersheds.

Our efforts were recognized by inclusion in the December 2016 Euronext Vigeo US 50 Index as one of the top 50 U.S. companies with the most advanced environmental, social, and governance (ESG) performance. Only two oil and gas exploration and production companies were included in the semi-annual assessment. The index constituents are selected by Vigeo Eiris, a global provider of ESG research to investors and public and private companies.

Another external measure of our progress was our scorecard rating from the Investor Environmental Health Network (IEHN), which rose from 19 to 35 out of a possible 43 points. This ranked us in second place among 28 companies evaluated. The scorecard cited Noble Energy as one of “a core group of companies within the industry [that] has maintained and enhanced disclosures of their practices for managing the environmental risks and community impacts of their operations.” IEHN is a collaborative partnership of investment managers and advisors concerned about the impact of corporate practices on environmental health. Its scorecard benchmarks the public disclosures of oil and gas companies engaged in horizontal drilling and hydraulic fracturing on 43 key performance indicators.

We consider environmental protection an integral part of our commitment to operational excellence. For that reason, we do not capture a separate total dollar figure for environmental protection spending. The data and examples shown in each section indicate the scope of our commitment.

**In This Section**

- **GREENHOUSE GAS AND OTHER EMISSIONS**
- **CLIMATE CHANGE**
- **HABITAT**
- **WATER**
- **WASTE MANAGEMENT**
- **SPILL MANAGEMENT**
- **SPILLS AND VIOLATIONS**
- **DECOMMISSIONING**

**Other Resources**

- **GLOBAL MANAGEMENT SYSTEM**
- **HYDRAULIC FRACTURING**
- **CHEMICAL MANAGEMENT AND DISCLOSURE**
- **WELL INTEGRITY**
- **WATER MANAGEMENT STRATEGY**
- **CONTRACTOR SAFETY MANAGEMENT**
- **CDP SUBMISSIONS**
Greenhouse Gas and Other Emissions

Our greenhouse gas (GHG) emissions levels reported in 2016 rose compared to 2015. This reflects both an increase in our operations activity and changes in measurement and reporting.

Overall, our direct GHG emissions rose 12 percent. Contributing to this were a full year of operations in Texas as we worked toward bringing Rosetta assets up to our standards, as well as the addition of the Thunder Hawk offshore production platform in the U.S. Gulf of Mexico, of which we assumed operator status in the third quarter of 2016. Other factors included increased compressor use in the DJ Basin and an increase in flaring in Equatorial Guinea. Increased activity in the Eastern Mediterranean raised our electricity consumption there. These increases were offset to some degree by reduced venting from the Neptune Spar in the U.S. Gulf of Mexico, lower levels of activity in the Marcellus Shale, and a drop in mobile emissions resulting from discontinuation of helicopter use in the Falkland Islands.

Data changes that affected our emissions calculations included the addition of a new Environmental Protection Agency industry segment, Onshore Petroleum and Natural Gas Gathering and Boosting. These activities were previously not included in our reporting scope and increased both our combustion and fugitive emissions calculations. We saw a reduction in venting emissions in our onshore Texas operations by improving the accuracy of our recordkeeping.

In addition, our reporting of U.S. emissions of volatile organic compounds (VOCs) increased following implementation of a new regulation that requires us to report a standardized emissions figure for new sites until actual emissions measurements can be calculated. That standardized number is higher than our site-specific historic measurements.

We made significant advances in reducing methane emissions. Our reduction in 2016 was an estimated 1.62 billion cubic feet (bcf). Two factors that contributed to this were continued use of infrared cameras to detect leaks and more accurate recording of vapor recovery unit data in the DJ Basin. Our data for 2016 also includes reductions achieved in our new Texas onshore assets.

ADDRESSING COMMUNITY CONCERNS

We continue to work closely with local communities to address concerns they might have about the effects of energy development. In Colorado, Noble Energy served as one of 21 members of the Governor’s Oil and Gas Task Force, which included government, industry, civic and NGO leaders. It recommended nine changes that significantly expand the role of local governments – and their citizens – in making siting decisions for large facilities in urban areas. In 2016, the last of these recommendations was implemented when the Colorado Oil and Gas Conservation Commission approved regulations that would allow local governments to consult with energy companies on the location of multiple-well drilling sites, storage tanks and other large facilities in developed areas. The multi-year task force process demonstrates the effectiveness of bringing all parties together to find solutions to existing or potential conflicts.
After exploring multiple alternative fuel options, the Douglas County, Colorado, school district chose to launch a compressed natural gas (CNG) pilot program. Through a partnership with Noble Energy and the Regional Air Quality Council, the school district was able to secure more than $250,000 in grants, enabling it to purchase new compressed natural gas (CNG) buses for less than the cost of used diesel buses.

Douglas County is one of nine counties benefitting from Noble Energy’s CNG bus program, which has helped Colorado school districts purchase 47 buses with contributions of nearly $4.19 million since 2013. Clean-burning natural gas is up to one-third less expensive than diesel fuel on an equivalent energy basis, saving school districts approximately $3,000 on fuel per CNG bus per year while dramatically reducing air pollutants compared to diesel-fueled vehicles. According to the U.S. Department of Energy’s Office of Transportation Technologies, natural gas engines dramatically reduce carbon monoxide by 70%; non-methane organic gas by 87%; and nitrogen oxides by 87%.

A NEW CNG BUS FOR DOUGLAS COUNTY

CNG buses donated to Colorado school districts since 2013
Climate change has become the subject of significant global focus. The impact of human activity on the climate remains a complex issue. Numerous governments around the world have concluded that it poses an urgent threat that requires the reduction of greenhouse gas emissions and other governments are responding with similar policies. Crude oil and natural gas exploration and production operations are a direct source of certain GHGs, namely carbon dioxide and methane, and an indirect source of GHGs from the combustion of crude oil and natural gas products.

We believe there are both risks and opportunities arising from the global climate change initiatives. In terms of opportunities, the regulation of GHGs and introduction of formal technology incentives, such as enhanced oil recovery, carbon sequestration and low carbon fuel standards, could benefit us in a variety of ways.

First, sales of natural gas comprised approximately 57% of our 2016 total sales volumes. The burning of natural gas produces lower levels of GHG emissions as compared to fuels such as liquid hydrocarbons and coal.

In addition, public concern about nuclear safety has increased. These factors could increase the demand for natural gas as fuel for power generation. Also, should renewable resources, such as wind or solar power, become more prevalent, natural gas-fired electric plants may provide an alternative backup to maintain consistent electricity supply.

Further, future GHG standards for vehicles could result in the use of natural gas as transportation fuel. This may also increase the market demand for natural gas.

However, future restrictions on emissions of GHGs, or related measures to encourage use of renewable energy, could have a significant impact on our future operations and reduce demand for our products.

(Excerpted from our 2016 Annual Report and 10-K. For full discussion, see pages 65-66 of the 10-K)
Our operations take place in diverse locations onshore and offshore. Wherever we operate, we consider it a priority to minimize disturbance to the surrounding habitat. We follow applicable regulations and use our own environmental site screening processes to assess potential impacts to habitats before we begin our operations and to avoid negative impacts.

Screening
As part of our environmental site screening process, we work to identify and avoid sensitive habitats, such as those involving threatened and endangered species and high-quality habitats relative to migratory birds. We also use our screening data to determine how we can mitigate possible impacts to species and their habitats. During 2016, we completed a habitat assessment in Israel to evaluate how proposed projects may impact species’ habitats. We will use this information to develop a Biodiversity Action Plan, which specifies a set of future actions that will lead to the conservation or enhancement of biodiversity.

During seismic operations in both the Gulf of Mexico and Gabon, qualified observers are stationed onboard to watch for whale and turtle species that may be adversely affected. We use a “soft-start,” or low-volume, method to ensure marine species have time to leave the vicinity prior to commencement of seismic surveys. When a species is observed, seismic activity is immediately stopped and does not resume until the species has left the area.

Minimize, Mitigate and Enhance
Once we begin operating in an area, we work first to minimize our impact, such as by using technology that reduces our surface footprint. We also work to mitigate the effect of our operations by taking proactive steps to protect species. In some instances we go further, and even enhance habitat.

Our DJ Basin operations are adjacent to the Pawnee National Grasslands in Colorado. Managed by the U.S. Forest Service and Bureau of Land Management, this area is home to a variety of wildlife including eagles, migratory birds and federally listed threatened and endangered species. We work closely with resource managers in both agencies to ensure that we are complying with conservation objectives and federal, state and local permit and approval processes.

Raptor education is one aspect of our wildlife, cultural and wetland awareness and compliance program in Colorado. We continue a partnership with the Rocky Mountain Raptor Program that began in 2014, when we jointly developed a method for employees and contractors to internally report injured raptors they see. Employees receive training on about raptor species in the area, best management practices, personal safety tips and incident reporting.

The area around our Marcellus Shale operations in Greene and Washington counties, Pennsylvania, is recognized as having some of the most exceptional Indiana bat maternity roost colony habitat in the region. In addition to the Indiana bat (a federally protected endangered species), the Northern-long-eared bat (a federally protected threatened species) also has habitat in the area. We are working with agencies to avoid and/or minimize impacts to these species and find ways to enhance habitat where appropriate.

Our bat habitat mitigation and enhancement activities in 2016 included planting trees to reclaim previously disturbed properties and placing bat roosting structures in areas of subpar or marginal habitat to provide for the species. We continued monitoring the success of previously-placed mitigation structures on four other sites.

In the Permian Basin, our onshore Texas operations are near the University of Texas McDonald Observatory. Growing industry activity has brought increased lighting within a 57-mile radius of the observatory, affecting the observatory's research. As part of the observatory’s Dark Skies Project, we are adding shields on lighting to direct the light downward and reduce glare, and converting lightbulbs to LED bulbs. Founded in the 1930s, the McDonald Observatory is one of the nation’s leading centers for astronomical research, education and outreach.

Our U.S. Gulf of Mexico business unit’s community outreach committee looks for partnerships that impact communities surrounding the Gulf of Mexico. In 2016, employees from the business unit volunteered at the Katy Prairie Conservancy in Waller, Texas, near Houston, planting and watering more than 300 plants. The Katy Prairie Conservancy is a nonprofit organization that works to protect greenspace for its conservation and recreational benefits, to enhance wildlife habitat, restore tallgrass prairie and wetlands, and sponsor scientific research.
Our Equatorial Guinea office is located on Bioko Island. One of our community partners on the island is the Bioko Biodiversity Protection Program, which was established to conserve Bioko Island’s unique wildlife – especially the endangered monkeys and sea turtles – and the habitat that provides them with the shelter and food they need. Heidi Rader, who works for the Bioko Biodiversity Protection Program, was so inspired by her on-the-job experiences that she wrote two books to share the island’s unique story with children in the classrooms of Equatorial Guinea and across the globe. Her goal is to inspire children to play a role in conserving the unique wildlife they discover through her writing and presentations. As part of our partnership with the Bioko Biodiversity Protection Program, Noble Energy sponsored the printing of “Chatter in the Caldera: Monkeys of Bioko Island,” Heidi’s second book, which was published by the Wildlife Conservation Association.

Heidi visited Houston and shared her story with our Houston employees and their children at an event on our headquarters campus, as well as with children at a local YMCA and the Aldine Family Hope Center. She also traveled to Canonsburg, Pennsylvania, where Noble Energy’s Marcellus Shale office is located, to share her story with more than 100 second-graders at a local elementary school.

Copies of her book in Spanish were also distributed to three dozen Bioko Island children participating in our third annual environmental education day on the island, conducted as part of our EG GrEEN program created by employees in 2014 to promote environmental stewardship on Bioko Island. The day’s activities included hands-on learning stations and a trail hike scavenger hunt. Our partners in the event included Bioko Biodiversity Protection Program, Drexel University research biologists and students, University of Equatorial Guinea educators, local environmental education group GIMEA, and performance group Bokamandja.
ENDANGERED AND PROTECTED SPECIES

Eagle Ford Shale and Permian Basin

Endangered:
- Northern aplomado falcon (Falco femoralis septemtrionalis)
- Diminutive amphipod (Gammarus hyalleloides)
- Comanche Springs sunfish (Cyprinodon elegans)
- Pecos gambusia (Gambusia nobilis)
- Phantom springsnail (Pyrgulopsis texana)
- Phantom Tryonia (Tryonia cheatum)
- Pecos assiminea snail (Assiminea pecos)
- Least tern (Sterna antillarum)
- Gulf coast jaguarundi (Herpailus yagouaroundi cacomitlli)
- Ocelot (Leopardus paralis)

Threatened:
- Mexican spotted owl (Strix occidentalis lucida)
- Pecos sunflower (Helianthus paradoxus)

DJ Basin

Endangered:
- Least tern (Sterna antillarum)

Threatened:
- Mexican spotted owl (Strix occidentalis lucida)
- Piping plover (Charadrius melodus)
- Colorado butterfly plant (Gaura neomexicana var. coloradensis)
- Ute ladies'-tresses (Spiranthes diluivialis)
- Preble's meadow jumping mouse (Zapus hudsonius preblei)

Marcellus Shale

Endangered:
- Snuffbox mussel (Epioblasma triquetrata)
- Indiana bat (Myotis sodalis)

Threatened:
- Northern long-earned bat (Myotis septentrionalis)

Gulf of Mexico

Endangered:
- Fin whale (Balaenoptera physalus)
- Humpback whale (Megaptera novaeangliae)
- Sei whale (Balaenoptera borealis)
- Sperm whale (Physeter macrocephalus)
- Blue whale (Balaenoptera musculus)
- Hawksbill sea turtle (Eretmochelys imbricata)
- Kemp's ridley sea turtle (Lepidochelys kempii)
- Leatherback sea turtle (Dermochelys coriacea)
- Smalltooth sawfish (Pristis pectinata)

Threatened:
- Green sea turtle (Chelonia mydas)
- Loggerhead sea turtle (Caretta caretta)
- Gulf sturgeon (Acipenser oxyrinchus desotoi)
- Scalloped hammerhead shark (Sphyrna lewini)
- Lobed star coral (Orbicella annularis)
- Mountainous star coral (Orbicella faveolata)
- Boulder star coral (Orbicella franksi)
- Elkhorn coral (Acropora palmate)
- Staghorn coral (Acropora cervicornis)
- Pillar coral (Dendrogyra cylindrus)
- Rough cactus coral (Mycetophyllia ferox)

Proposed Endangered:
- Bryde's whale (Balaenoptera edeni)

Species of Concern:
- Ivory tree coral (Oculina varicose)

Candidate:
- Dwarf seahorse Hippocampus (zosterae)
- Giant manta ray (Manta birostris)
- Oceanic Whitetip Shark (Carcharhinus longimanus)
### Eastern Mediterranean

**Critically Endangered**
- Mediterranean monk seal
- Endangered
- Fin whale
- Sei whale
- Green turtle
- North Atlantic right whale
- Loggerhead turtle
- Schreiber’s fringe-fingered lizard (Acanthodactylus schreiberi)
- Short-beaked common dolphin (Delphinus delphis)

**Vulnerable**
- Sperm whale
- Leatherback turtle

**Near Threatened**
- Indo-Pacific humpback dolphin

### West Africa

**Critically Endangered**
- Pennant’s Red Colobus – Procolobus pennantii
- Eisenraut’s Mouse Shrew – Myosorex eisentrauti
- Leatherback Turtle – Dermochelys coriacea
- Hawksbill Turtle – Eretmochelys imbricata

**Endangered**
- Drill – Mandrillus leucophaeus
- Preuss’s Guenon – Cercopithecus preussii
- Bioko Forest Shrew – Sylvisorex isabellae
- Sei Whale – Balaenoptera borealis
- Blue Whale – Balaenoptera musculus
- Fin Whale – Balaenoptera physalus
- Green Turtle – Chelonia mydas
- Loggerhead Turtle – Caretta caretta
- Pincushion Ray – Urogymnus ukpam
- Hawksbill Turtle – Eretmochelys imbricata

**Vulnerable**
- Black Colobus – Colobus satanas
- Red-Eared Guenon – Cercopithecus erythrotis
- Humpback Whale – Megaptera novaengliae
- Sperm Whale – Physeter macrocephalus
- African Manatee – Trichechus senegalensis
- Olive Ridley Turtle – Lepidochelys olivacea
- Fernando Po Speirops – Speirops brunneus
- Red-headed Rockfowl – Picathartes oreas
- Cape Gannet – Morus capensis

**Near Threatened**
- Monitor Lizard – Varanus niloticus
- Ursula’s Sunbird – Nectarinia ursuale
- African Skimmer – Rynchops flavirostrus
- Damara Tern – Sterna balaenarum
- White Grouper – Epinephelus aeneus

**Least Concern**
- Crowned Guenon – Cercopithecus pogonias
- Putty-Nosed Guenon – Cercopithecus nictitans
- African Brush-tailed Porcupine – Atherurus africanus
- Ogilby’s Duiker – Cephalophus ogilbyi
- Blue Duiker – Philantomba monticola
- Common Mink Whale – Balaenoptera acutorostrata
- Risso’s Dolphin – Grampus griseus
- Fraser’s Dolphin – Lagenodelphis hosei
- Pantropical Spotted Dolphin – Stenella attenuate
- Striped Dolphin – Stenella coeruleoalba
- Common Bottlenose Dolphin – Tursiops truncatus
- Cuvier’s Beaked Whale – Tursiops truncatus
- Mountain Sawwing – Psalidoprocne fuliginosa
- Mutton Hamlet – Alphrestes afer
- Niger Hind – Cephalopholis nigris
- Mottled Grouper – Mycteroperca rubra
- Northern Star Coral – Astrangia poculata
- Golfball Coral – Favia fragum
- Great Star Coral – Montastrea cavernosa
- Mustard Hill Coral – Porites astreoides
- Finger Coral – Porites porites
- Lesser Starlet Coral – Siderastrea radians
Water

We recognize that water is an important resource for the oil and gas industry, our communities and the environment. We continually work to reduce our impacts on water resources. To monitor our impacts in sensitive groundwater areas, we frequently take groundwater samples before drilling.

Water Use

Onshore, 93 percent (46.3 million barrels) of the water we used in 2016 was derived from public or private sources, meaning that we obtained agreements from government agencies and/or private water rights holders to use the water. No known water sources were significantly affected by water withdrawals related to our operations.

The remaining 7 percent (3.6 million barrels) of the total volume of water we used onshore was recycled or reused flowback and produced water. This reuse practice reduces both our freshwater consumption and our disposed water volumes. To maximize reuse in the Marcellus Shale, we share water between our operations and other operators in the basin, using a pipeline system to reduce truck trips. In 2016, we also improved and automated pressure monitoring on our water pipelines to reduce the likelihood of leaks.

In the DJ Basin, a change in our fracking process during 2016 increased total water consumption but reduced land disturbance and potential air emissions. The new approach allows for more reuse of water, which will be reflected in our 2017 data. A delay in implementing a new water recycling facility resulted in minimal reuse in 2016. In our Texas business unit, we began planning and design of central gathering facilities in the Delaware area of the Permian Basin, with produced water recycling capabilities incorporated into the design. The first central gathering facility will be operational in mid-2017.

Monitoring and Mitigation

We take extra steps to mitigate the impact of our operations on local water resources.

In the DJ Basin, we are a member of the South Platte Water Related Activities Program, an organization that allows us to offset water consumption to address Endangered Species Act issues related to the Platte River. The program works by re-timing water flows to benefit federally listed endangered species.

In 2016, we continued a water monitoring protocol in a watershed within the Marcellus Shale known to contain federally threatened and endangered mussel populations. This process will also provide valuable population and viability data via multi-year surveys, which will help guide future development decisions.

In our recently added Texas operations in the Eagle Ford Shale and Permian Basin, we are focused on the environmental site screening process. We work to identify sensitive water bodies early in the planning process and, focusing on avoidance, integrate mitigation measures during the project development phase.

Onshore Water Disposal

We disposed of 19 million barrels of water in our onshore U.S. operations during 2016. None of this water was discharged to surface water bodies.

Offshore Water Consumption

In 2016, we used 29.4 million barrels of seawater in our offshore operations, and 244,000 barrels of freshwater (primarily for potable water needs). We discharged 15.2 million barrels of water offshore.

2016 U.S. Onshore Water Use

![Diagram showing 93% Derived from public or private sources and 7% Recycled or reused flowback and produced water]
**FINDING A BETTER WAY TO CONTROL SEDIMENT**

Noble Energy and West Virginia University are collaborating on a research project that may turn wood chips created when clearing well sites into filters to control sediment runoff into local streams. Drilling sites, like many other construction projects, use filter socks for erosion control. The filters allow water to flow at a controlled rate from the site. They also trap sediment and prevent the water from carrying harmful materials into streams.

Government standards require these socks to be filled with composted wood chips. As a result, fresh “woods-run” chips created during the clearing process are transported off the site, while filter socks filled with composted wood are transported on-site. The research is designed to test whether the woods-run chips could serve effectively as filter material.

Shawn Grushecky, coordinator of the energy land management program at West Virginia University’s Davis College of Agriculture, Natural Resources and Design, highlighted the potential benefits: “If we’re able to use the green (woods-run) chips on site, it’s going to save companies money, use a product that is being wasted and reduce truck traffic on these sites, which is a benefit to local communities.”

**STREAM STOCKING TEACHES ENVIRONMENTAL LESSONS**

More than 135 students spent a day outdoors for the second annual stream-stocking and clean-up event we hosted along Wheeling Creek and Bear Rock Lake in West Virginia. The students from Marshall and Ohio counties learned about fishing and wildlife management as they stocked a four-mile stretch of the creek with nearly 5,000 pounds of trout and picked up 2.5 tons of trash around the streams. They worked side-by-side with Noble Energy volunteers as well as participants from Cabela’s, the Fraternal Order of Police, the West Virginia Division of Natural Resources and West Virginia University. Woody Yoder, director of Curriculum and Instruction at Marshall County Schools, noted that the partnership teaches students the values of community service and environmental conservation, as well as supplementing classroom biology and physical science material with hands-on learning.
Minimizing and managing waste from our operations has been an ongoing commitment within Noble Energy. We reported our waste management performance data for the first time in 2015.

Note that our products are sold and removed via truck or pipeline. We do not package our product for sale, so there are no packaging materials to reclaim and none of the product comes back for recovery. In 2016, Noble Energy did not conduct international transport of hazardous waste other than as noted below.

In our U.S. onshore operations, we generated the following amounts of waste:

- **DJ Basin:** Contaminated soil - 2,410 tons; non-water drilling - 64,420 gallons; drill cuttings - 1,380 tons; misc. oilfield - 22 tons
- **Marcellus Shale:** General solid - 62 tons; contaminated soil - 1,761 tons; synthetic liner - 57 tons; waste water treatment sludge - 180 tons
- **Texas:** Will begin data reporting in 2017

In our offshore operations, we generated the following amounts of waste:

- **U.S. Gulf of Mexico:** Solid - 160 tons; hazardous - 5 tons; operational - 35 tons; naturally occurring radioactive waste - 11.7 tons; waste oil recycled - 52 tons; acid batteries - 1 ton
- **Eastern Mediterranean:** Israel hazardous: 1,185 tons; non-hazardous: 518 tons. Cyprus – general - 9 tons; dangerous waste (expired chemicals) - 3 tons
- **Equatorial Guinea:** Operational - 304 tons; general solid - 3 tons; general recycled - 117 tons; waste oil recycled - 3,400 liters. Some waste was shipped to a facility in Texas for recycling
- **Falklands:** (Waste disposed in 2016 following 2015 drilling) 138.06 tons of waste, of which 82.6 tons (59.8%) was recycled (i.e., metal: scrap metal/aluminum and plastics). Because local disposal/recycling facilities were limited, waste was shipped to the U.K., which required Scottish Environmental Protection Agency (SEPA) approval in 1Q16. 44.08 tons (31.9%) was classified as hazardous.

In our Houston offices, we use a Houston-based electronics recycler to handle electronic waste. E-waste is the most rapidly growing segment of municipal solid waste streams and contains valuable, recoverable materials as well as limited quantities of hazardous materials. Our vendor is R2 certified, the electronics recycling industry’s leading certification to ensure quality, transparency and environmental and social responsibility. In 2016, we recycled 1 ton of E-waste.
Spill Management

We prevent spills through measures that encompass each step in our operations, from site design and operational planning through mechanical integrity testing and inspections. In the DJ Basin and Marcellus Shale, for example, our operational planning determined that transporting certain chemicals in dry form rather than liquid form would minimize spill risk. We also have in place contingency plans and response equipment for the possibility of an unintentional release of hydrocarbons either from a well or from one of our vessels. We track spills and report any that meet state or federal reporting thresholds. In 2016 we also updated our Tier 2 Process Safety Standard to align with API and industry best practices. Read our Health and Safety section to learn more about the steps we took to improve process safety practices in 2016.

Fines

Noble Energy paid a total of $474,236 in penalties for U.S. and state-level environmental violations in 2016.

In the Marcellus Shale, we paid $67,500 for air-related violations. We paid penalties of $35,500 for non-air-related fines.

In the DJ Basin, we paid $371,236 for air-related violations. We had no non-air-related fines.

We received no notices of violations in the U.S. Gulf of Mexico in 2016.

### Spills

<table>
<thead>
<tr>
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<th></th>
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<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Number</strong></td>
<td>90</td>
<td>91</td>
<td>94</td>
<td>93</td>
<td>95</td>
</tr>
<tr>
<td><strong>Hydrocarbons (in barrels)</strong></td>
<td>697.5</td>
<td>403.6</td>
<td>403.7</td>
<td>135.4</td>
<td>135.8</td>
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<tr>
<td><strong>Water (in barrels)</strong></td>
<td>609</td>
<td>239.3</td>
<td>239.3</td>
<td>172.6</td>
<td>172.6</td>
</tr>
<tr>
<td><em><em>Other</em> (in barrels)</em>*</td>
<td>464</td>
<td>0</td>
<td>0.07</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Other includes non-produced fluids such as diesel, chemicals and drilling mud
We are committed to exiting our projects as responsibly as we begin them. In 2016, 411 wells were decommissioned and 178 tank battery facilities were removed in the DJ Basin and sites are being returned to vegetation; in our Texas operations 26 wells were decommissioned and the land brought back to its original state.

In the decommissioning process, we use standard operating procedures for the assessment and remediation of sites after the discovery of leaks or spills (including historic leaks or spills).

In the DJ Basin, we discovered and reported 80 historic unintentional releases.

Offshore, we worked to decommission three subsea fields during 2016. The project included plugging and abandoning four subsea wells. Work to decommission subsea infrastructure for these wells occurred in phases throughout 2016 with final pipeline decommissioning operations in 2017.
Global Management System

Because our operations are diverse – oil and natural gas, onshore and offshore, in varied ecosystems and economies – we research the specific environmental considerations for each project and address them individually. In addition, our operations are guided by our Global Environmental, Health and Safety Management System (GMS). This system is built on principles from a number of industry and regulatory sources including the U.S. Occupational Safety and Health Administration, U.S. Environmental Protection Agency, International Labour Organization, and World Bank, and ensures consistency throughout our operations.

Hydraulic Fracturing

Hydraulic fracturing is one of the many steps in the process of drilling and completing most onshore oil and natural gas wells. This well-stimulation method has been used by the industry since 1947. Currently, more than 90% of all crude oil and natural gas wells drilled in the U.S. employ hydraulic fracturing. Although the injection process for each well typically lasts only two to three days, the well may produce for 20 years or more.

Commonly known as “fracking,” the stimulation process involves injecting a mixture of water, sand, and a small amount of chemical additives at high pressure into rock formations many thousands of feet below the surface of the earth. The mixture travels inside cement-lined steel casing until it reaches the targeted hydrocarbon-bearing formations, where it creates small fractures that provide a path for trapped oil and natural gas to flow into the wellbore. Hydraulic fracturing makes it possible to recover previously inaccessible oil and natural gas. It extends the life of existing wells and increases the productivity of new wells. This has the effect of reducing the overall number of wells drilled to produce oil and gas. Hydraulic fracturing is often combined with horizontal drilling techniques that enable greater reach within an oil- and/or natural gas-bearing formation from a single well site.

Visit www.noblecolorado.com/fracking-proven-technology to learn more.

Chemical Management and Disclosure

In the last few years, public concerns have been raised that the chemicals used in fracturing fluids may reach ground and surface water supplies. We require our site operators to adhere to strict standards and best management practices to avoid potential environmental impacts during onshore oil and natural gas development. It is not our practice to unnecessarily store fracturing fluids on location. Upon delivery, fracturing fluids are blended on location and pumped, and flowback fluids are captured in steel tanks and then properly disposed of according to applicable federal and state laws and regulations. Noble Energy encourages the utilization of environmentally friendly additives. We do not use diesel fuel in our hydraulic fracturing fluids.

Noble Energy is an active member and participant in FracFocus.org, a national hydraulic fracturing chemical registry website. We began voluntarily disclosing the chemicals used at Noble Energy wells through FracFocus.org in mid-2011.

Well Integrity

Well integrity is an initial line of defense against water contamination. The pre-drilling subsurface evaluations conducted by our geologists and engineers are used to determine the depths of formations that contain underground drinking water, the proximity of that water to potential oil and natural gas intervals, and the integrity of the confining layers above and below the target completion zone. Our engineers then design a casing and cementing plan that shows how the well will be constructed.

In accordance with best practices, we utilize multiple strings of casing and cement to prevent natural gas migration or drinking water contamination. We monitor our pump pressures and fluid returns during the cementing process to ensure adequate coverage of cement across the production and groundwater zones. At various stages of the drilling and completion process, mechanical integrity of the casing and cement is tested to ensure proper installation. During the well construction process, various methods may be used to test the mechanical integrity of the well, such as pressure testing, and various types of wire line logs (including, in some cases, bond logs). We also have well control procedures in place to prevent events, such as loss of well control, from occurring. During the production phase, we continuously monitor flow rates and annular pressures, and we regularly inspect the wellhead assembly and other equipment for leaks, corrosion or damage.

Water Management Strategy

We recognize the importance of water quality and availability. Developing energy resources can require large volumes of water, and significant energy is needed to access, treat and deliver water. With increasing demand for energy and water, we are actively managing and conserving water resources to minimize the impact of our operations. Read our Environment section to learn more.
Contractor Safety Management

Noble Energy is committed to a safe, healthful and environmentally responsible work environment. Recognizing the role of our contractors in achieving EH&S excellence, it is expected that our contractors work under conditions and rules that are at least as protective as those governing our own employees. While we do not take control of a contractor’s safety program or relieve any contractor of its safety responsibility, we have developed a separate Contractor Safety Management Plan to achieve compliance with this element of our Global Environmental, Health and Safety Management System (GMS), which includes third party audits. Our plan includes the evaluation of contractor safety performance prior to contract award through the ISNetworld Contractor Database.

CDP Submissions

Visit our website at www.nblenergy.com/our-commitment to view our submissions to the Carbon Disclosure Project.
Health and Safety

The term “NO HARM” sums up the guiding principles behind all our environmental and health and safety actions. It also describes the health and safety culture that we instill in all our employees and contractors.

VIEW HEALTH AND SAFETY PERFORMANCE DATA

In This Section

BUILDING ON OUR “NO HARM” CULTURE

2016 SAFETY MILESTONES

HEALTH

RISK COMMUNICATION AND OUTREACH

RISK MANAGEMENT
We continue to mature our NO HARM culture. An employee survey to gauge our safety culture conducted in the fourth quarter of 2016 generated an overwhelming 92 percent response rate. The results validated our efforts to continue to build an integrated safety culture as we work toward a culture of sustainable excellence. Process safety, which was a special focus of communication in 2015, moved higher in employees’ responses, and we continued to see high personal ownership of responsibility for safety.

In 2016, we focused on reinforcing the importance of identifying and communicating potentially hazardous conditions. This emphasis on observations helped to significantly reduce potential incidents by defining and reinforcing positive behaviors.

Safety Education

Our “Leading NO HARM” classes have continued and have become an integrated part of the organization’s culture. During 2016, we added an advanced training and competency program within our U.S. onshore operations. This program, which uses our Greeley Training Center to provide realistic competency testing with minimized risk, has become a benchmark for peer companies.

We also continued to emphasize contractor engagement in our NO HARM culture. In the Marcellus Business Unit, for example, we held a safety appreciation breakfast that paired Noble Energy operation teams with partnering contractors to present safety topics relevant to our operations. Approximately 66 contractors representing 33 companies and 65 Noble Energy employees were in attendance.
2016 Safety Milestones

Our employee safety record has improved dramatically since 2013. In 2016, our employee Total Recordable Incident Rate (TRIR) was .04, reflecting only one recordable incident during the year.

Our combined TRIR, which includes both employees and contractors, was .38, matching the record set in 2015. We accomplished these milestones while integrating new operations and workforce into our business.

One highlight was the improvement in safety performance in our Marcellus Business Unit, which in 2015 had the highest incident rate across all our major operating regions. Working to identify specific gaps and to communicate incremental goals, the team made sure everyone shared the same commitment and responsibility for safety. Mobile tools were also developed to make entry of “near misses” easier and more timely. In August 2016, the business unit celebrated a year without a recordable incident, and that incident-free record was maintained through the end of the year.

Process Safety

We continued to focus on process safety – preventing major incidents. In 2016, we took several steps to enhance our practices in this area:

We revised our Tier II process safety governance document to align with American Petroleum Institute and industry best practices. This allows for better defined metrics and benchmarking.

We incorporated process safety identification into our EHS incident reporting administrative practices and quarterly training. This facilitates more consistent front-end data collection.

We included process safety metrics in our weekly and quarterly dashboards and reports to give visibility to our company’s process safety performance.

Industry Leadership

Noble Energy shares its safety experience and expertise within the industry by participating on environment, health and safety committees of industry organizations, including the American Exploration & Production Council (AXPC), where Noble Energy chairs the EHS Policy and Regulatory Affairs Committee. AXPC is a national trade association representing 33 independent natural gas and oil exploration and production companies.

2016 PROCESS SAFETY EVENTS

<table>
<thead>
<tr>
<th></th>
<th>Gulf of Mexico</th>
<th>West Africa</th>
<th>Eastern Mediterranean</th>
<th>DJ Basin</th>
<th>Marcellus Shale</th>
<th>Texas</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier I</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>7</td>
<td>2</td>
<td>15</td>
<td>29</td>
</tr>
<tr>
<td>Tier II</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>18</td>
<td>2</td>
<td>20</td>
<td>43</td>
</tr>
</tbody>
</table>

Tier I incidents involve 7 or more barrels of hydrocarbons
Tier II incidents 1 to less than 7 barrels of hydrocarbons
Health

Occupational Health

Occupational health is an important component of our overall health and safety program. In 2016 we advanced two areas of focus: ergonomics and food safety. We developed a Tier 2 Workstation Functionality Plan that educates employees on appropriate workstation configurations for both comfort and protection from musculoskeletal disorders. We provide ergonomic assessments for individuals when requested or when a concern arises.

We developed a Tier 2 Food Safety Plan for managing workplace food safety within our global operations. The plan uses best-practice concepts from the World Health Organization, the U.S. Centers for Disease Control, the U.S. Department of Agriculture and the European Commission.

EMPLOYEE FIGHTS FOR CHILDREN’S HEALTH IN ISRAEL

A Noble Energy employee received the American Industrial Hygiene Association’s Social Responsibility Award for 2016. Irvin (Yitzhak) Fischer, Certified Industrial Hygienist and Certified Safety Professional, was one of nine individuals recognized for supporting a cause related to the field of industrial hygiene/occupational health. In 1995, Irvin was approached by a colleague in Israel to take a look at a planned project to build a children’s recreational park near an asbestos cement manufacturing plant. His volunteer work with the Organization for Environmental Health and Quality in Nahariya, Israel, regarding the proper handling of asbestos and asbestos-contaminated waste was ultimately presented to the courts and Israel’s Parliament. His findings influenced the courts’ decision to cancel the project and launch a program to properly clean the existing contamination at the site.
In 2016, we continued to focus on community awareness around our operations. A particular area of ongoing concern is fishing safety near our operations in Equatorial Guinea. Three events on Bioko Island helped reinforce this communication.

- A safety and biodiversity community awareness event, in partnership with the Bioko Biodiversity Protection Program (BBPP), brought together nearly 100 participants from the major fishing communities to educate, discuss and inform about the dangers of fishing near oil and natural gas operations as well as about artisanal fishing impacts on biodiversity. The event included roundtable discussions and distribution of 117 life jackets. BBPP also provided food, refreshments and children’s books to the families.
- As follow-up, we held a further discussion with a dozen fishing boat owners and fishermen, providing ongoing education and assistance efforts focused on safety. Our team distributed additional protective clothing to the fishermen.
- The third event was held at the beach in Ela Nguema where many fishermen launch their boats. We applied reflective tape to the hulls of 15 fishing vessels to improve their visibility to larger service vessels operating around the island. We also provided materials they could apply to vessels that were moored offshore. Response to the ongoing support has been enthusiastic, and we have been invited to continue with the program at other beaches.

Improving Safety Data Sheets for Third Parties

We continue to enhance our procedures for Safety Data Sheets (SDS) for employees and contractors by providing more accurate detail on characteristics such as explosive range, flammability, viscosity, and volatility. While the industry standard has long been to categorize unrefined petroleum products with generalized information, our region-specific SDS facilitate safe handling. We continually review product data to increase the specificity of our SDS.
Risk Management

SEMS Audits
To protect the health and safety of workers, the public and the environment, the U.S. federal government requires all offshore oil and natural gas operators to implement a Safety and Environmental Management System (SEMS) and complete a SEMS audit every three years. SEMS requirements have become more comprehensive – growing from 13 required elements in 2013 to 17 in 2016.

In 2016, the Neptune Spar in the Gulf of Mexico underwent a SEMS audit. Early preparation to identify and address gaps from new regulatory requirements and to follow up on gaps identified in the previous audit resulted in a highly successful audit with only minor follow-up action required.

We also completed a successful SEMS audit for the Tamar platform in the Eastern Mediterranean. In recognition of this achievement, we received two certificates of compliance to SEMS standards, one of which we presented to the Israel Ministry of National Infrastructure, Energy and Water, in recognition of our partnership with them for safe and responsible operations.

Emergency Preparedness
Our focus on emergency preparedness is ongoing. Major activities in 2016 included both full-scale emergency simulations and tabletop drills to test readiness, as well as improvements in response planning and capabilities.

Offshore
In our Israel operations in the Eastern Mediterranean, we successfully completed a no-notice simulated event drill as well as a full activation response drill simulating a hydrocarbon release. We also conducted three required oil spill readiness and response exercises and held training exercises for our onshore terminal staff and other shore-based personnel. We completed annual reviews and updates of our emergency plans.

We also conducted our first tabletop cybersecurity drill in Israel, bringing together our IT, security and operations departments to assess our ability to maintain production during a cybersecurity incident. Upon completion of the drill, Israel's National Information Security Authority awarded Noble Energy with a level one certification for completing the first milestone of its cybersecurity program.

In the Republic of Cyprus, our incident management team held a tabletop drill as part of the annual incident management plan training. The pre-drill training included a comprehensive session on the capability of available emergency telecommunications. The incident scenario included overcoming telecommunications challenges as well as other issues that could occur during various offshore emergency scenarios. The team also managed the set-up of a simulated receiving station for the injured in one of the ports and facilitated their transfer to inland hospitals.

Noble Energy also participated in several joint emergency exercises with the Cyprus Joint Rescue Coordination Center (JRCC) under the Ministry of Defense. The “Nemesis” exercise was organized by the Ministry of Defense through JRCC and was a large-scaled aeronautical multinational exercise with participation from Cyprus, Egypt, France, Greece, United Kingdom and United States. A separate “Argonaut” exercise was a multinational civil-military exercise organized by the Ministry of Defense with the participation of Greece, the United States, United Kingdom, France, Israel, Italy and Hungary.

In Equatorial Guinea, we conducted several incident simulations to test our responses to a mass casualty event as well as other scenarios involving safety, security and communication. Our most significant milestone was the opening of an in-country dedicated Incident Command Center, our first such facility internationally. The fully equipped center will enhance our ability to monitor and respond to emergency situations.

We also conducted planning meetings with the other oil and natural gas operators within Equatorial Guinea to ensure notification and response measures are available for mutual aid opportunities. We completed annual reviews of our emergency plans, in the process identifying new efficiencies to be implemented for our oil spill response operations.
Onshore

In the DJ Basin, we conducted emergency drills at five facilities during the year, as well as a training session on our incident command system. We activated our incident management team in May 2016 to assist in response to a well control event experienced by another operator in the vicinity, with no resulting injuries and minor environmental impact.

In the Marcellus Shale, we conducted a drill at our Town Square Center office and a training session on our incident command system. We activated our incident management team at partial levels in response to a major winter storm and in response to a fire at Town Square Center. Neither event resulted in injuries or loss of production.

In our Texas operations, we conducted two training sessions on our incident command system and developed an emergency action plan for this new operating area.

HELPING MARINERS IN NEED

On the morning of August 29, 2016, off the coast of Equatorial Guinea, a Noble Energy support vessel – Swire’s Pacific Victory – was traveling from the floating production vessel Aseng to the Luba Freeport when the crew observed a distress flare in the distance.

Responding, the Pacific Victory crew discovered a fishing boat with engine trouble. The crew attached a tow line to the boat and proceeded on their original route to Luba. The fishing vessel, Santa Marta, had 11 crewmembers onboard and had been drifting for five days after an engine breakdown. The crew of the Santa Marta and the Luba port officials all expressed their gratitude at the quick actions of the Pacific Victory crew.
Communities

We strive to make a significant difference in the communities where we live, work, and operate. Our community initiatives are built around three strategic pillars: community health, environmental efforts, and education/workforce development.

Employee involvement is an essential driver in our community activities. We also encourage our employees to support other causes that are meaningful to them. Our NobleACTS giving program was expanded in 2016 to add paid time off for employees to participate in volunteer activities. NobleACTS provides 2:1 matching funds for employee contributions to qualifying non-profit organizations as well as financial donations to match employee volunteer hours. In addition, the Samuel Roberts Noble Foundation annually matches employee contributions to qualifying educational organizations up to $10,000.

Noble Energy and our employees support several programs that take place in multiple locations:

**Habitat for Humanity** brings people together to build homes, communities and hope.
- Noble Energy sponsored its second home in northwest Houston during 2016. Noble Energy employees put up siding, painted, caulked and shingled to complete the home.
- We donated an unused mobile home from one of our well pads in Pennsylvania to Habitat for Humanity and several Marcellus employees helped renovate it along with six students studying construction at the Greene County Career and Technology Center.

**Junior Achievement** delivers financial literacy, work-readiness and entrepreneurship programs to students in kindergarten through 12th grade.
- In the Marcellus Shale, Noble Energy was recognized as a 2016 Junior Achievement Champion. The Marcellus team has provided continued support to Junior Achievement through social investment and funding, volunteerism and participation in various events.
- In Houston, employees who competed in the Junior Achievement Monster Bowl raised almost $25,000 for Junior Achievement.
- In the DJ Basin, employees participated in the Junior Achievement bowl-a-thon with the theme: “Heroes Don’t Just Fly, They Bowl.” Employees raised nearly $6,000. Also, our Denver office hosted nearly 50 eighth grade students who traveled from Steamboat Springs Middle School as part of Junior Achievement’s Destination Success program.

**United Way** improves lives by mobilizing the caring power of communities.
- In Houston, we held our third annual Sporting Clays Fundraiser. With 107 teams representing employees and Noble Energy suppliers, the event raised more than $80,000 for United Way.
- In Denver, we are an ongoing supporter of the Mile High United Way. In 2016 our employees donated $150,433. NobleACTS matching funds added $256,842 to the employee gift. Employees also participated in United Way-related activities, including assembling and delivering bikes to students at a school in a low-income area of the city, and making and delivering sack lunches to several area homeless shelters.
- In the Marcellus Shale, Noble Energy received the Community Leadership Award and the Chairman’s Award from Weirton United Way in 2016 for being one of the top five campaigns of the preceding year. The business unit contributed nearly $100,000 to United Way’s campaign, largely through a clay shoot event that brought together 63 teams of local vendors and Noble Energy employees.

**Veterans’ support activities** included Memorial Day service projects at National Veterans Cemeteries in the Canonsburg, Houston and Denver areas and Veterans’ Day care packages for active service men and women assembled by employees from Denver, Greeley, Houston and Canonsburg – including handwritten thank you notes. In addition, Noble Energy veterans were honored with a token of appreciation at ceremonies across our office locations.

“The support and generosity of everyone at Noble Energy will make the entire month for a lot of deployed men and women.”
- Dianne Rives of Blue Star Mothers
### GLOBAL SOCIAL INVESTMENT CONTRIBUTIONS

<table>
<thead>
<tr>
<th>Region</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>$3,373,983</td>
</tr>
<tr>
<td>West Africa*</td>
<td>$5,648,255</td>
</tr>
<tr>
<td>Eastern Mediterranean</td>
<td>$1,592,157</td>
</tr>
<tr>
<td>Other**</td>
<td>$347</td>
</tr>
<tr>
<td>NobleACTS (global matching gifts)</td>
<td>$1,787,126</td>
</tr>
<tr>
<td>Total Contributions</td>
<td>$12,401,868</td>
</tr>
</tbody>
</table>

*Includes investment in operated and non-operated assets
**Includes new ventures and discontinued operations
We strive to be a positive force in our communities. This includes a commitment to respecting human rights. We promote respect for the rights set forth in the Universal Declaration of Human Rights and the principles articulated in the International Labour Organization’s Declaration of Fundamental Principles and Rights at Work.

In potential and new operating areas, we conduct assessments that include human rights. Wherever we operate, we respect cultural values and traditions and actively engage with community members to understand the environmental and human rights impacts of our operations. Master contracts with our suppliers require them to comply with the human rights provisions and other elements of our Corporate Social Responsibility (CSR) Policy and our Code of Conduct.

**Highlights in 2016:** We collect information about our vendors’ CSR policies, specifically with regards to human rights, child labor, forced labor, and grievance mechanisms. Of our top 10 vendors in 2016, nine have a Human Rights policy in place and seven have a CSR policy in place.

Within Noble Energy, an externally managed ethics hotline, Noble TalkSM provides a mechanism for anyone to report concerns. In 2016, none of the reports received related to human rights violations or concerns. We had no suspected or reported incidents of child labor and no significant disputes with indigenous peoples. We have not conducted any operations that led to involuntary resettlement.

Noble recognizes that formal Community Feedback Mechanisms (CFM) can enhance relationships with communities and help identify and mitigate risks. Our CFMs provide an avenue for communities impacted by our operations to provide feedback or lodge concerns or complaints and receive timely, respectful and consistent responses. In 2016 we had an active CFM in Israel. In addition, we use other mechanisms to obtain stakeholder input.

We are committed to providing local site security in a manner that is consistent with international human rights expectations. To support this commitment, we take a risk-based approach to providing training on security and human rights for our employees and security contractors. No significant risks were identified to warrant additional training in 2016.
Communities - Houston

The Houston area is home to both Noble Energy’s corporate office and our Gulf of Mexico business unit. With this significant presence, we are highly engaged in efforts that better our community.

Emergency Relief

For the second year in a row, Houston was hit by severe flooding in the spring. Noble Energy employees and their families were among the 3 million residents across nine counties in the Houston metropolitan area who were impacted by the 2016 floods. Areas in northwest Houston near our offices were among the most severely flooded neighborhoods. In response, Noble Energy donated $100,000 to the American Red Cross Greater Houston Chapter and a number of employees volunteered for two days at a Red Cross relief center. While some volunteers unloaded supply trucks, assembled relief kits and loaded kits into the victims’ cars, others assisted victims with financial aid paperwork or helped translate or liaison with Red Cross personnel.

A critical element in emergency management response during Houston’s flood event was an antenna system installed on the roof of the NEC 2 building at Noble Energy’s headquarters. As the building was being completed in 2015, the local Cypress Creek Fire Department approached us requesting the placement of radio antenna arrays and a repeater system on the roof of the new facility. The site allowed the fire department to significantly upgrade its systems and improve coordination of flood rescue operations among multiple area emergency responders.

Community Health

Noble Energy’s strategic partnership with Houston-based non-profit Legacy Community Health Services works to drive healthy change in the communities where we live and operate. Legacy continues to build and enhance its high risk obstetrical care, and has been able to add new providers and clinics to increase its capacity to serve pregnant women with chronic or pregnancy-induced conditions like diabetes and high blood pressure.

Our strategic partnership with the Houston Food Bank made a difference in the lives of more than 3,700 food-insecure children through the Kids Cafe, part of a national initiative that serves healthy hot meals to children attending after-school enrichment sites. Noble Energy’s $50,000 grant in 2016 was used to enhance food safety with both software and equipment purchases.

Supporting the partnership, members of Noble Energy’s affinity group for young professionals and our Houston summer interns spent three hours volunteering at the Houston Food Bank. The group helped sort 6,062 pounds of food to provide 5,051 meals to hungry families across southeast Texas.

“"The Kids Cafe program is such a great resource for our families. It has given the children the ability to consume more fruits and vegetables and it provides the supplemental food they need.”

- Kids Cafe Teacher

Weather challenges failed to dampen our ongoing support of the Houston MS150, which raises funds to help find a cure for, and support victims of, multiple sclerosis. Before rainstorms forced cancellation of day two of the Houston-to-Austin bike event, our 37-member team rode – safely – nearly 90 miles to the day one finish line. The team pedaled in $50,000.

In the 2016 Houston Tour de Cure, Team Noble Energy had the second highest fundraising total of 100 teams. The Tour is the signature fundraising event of the American Diabetes Association. Team members cycled, ran a 5K, or staffed the team tent. Team Noble Energy raised $12,844.
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Environmental Efforts

Noble Energy’s sponsorship of the Bayou Greenways 2020 project began in 2014 and will help create a continuous parks system along Houston’s major waterways, transform more than 3,000 underutilized acres along the bayous into public, accessible greenspace, add more than 80 new miles of hike and bike trails along the bayous, and connect more than 150 miles of greenspace across the city.

To date, the program has 1,331 acres of publicly owned land under Bayou Greenways 2020 management. By the end of June 2017, Bayou Greenways 2020 will be 60 percent complete. Noble Energy employees volunteered at the Houston Bayou Greenway Day outdoor festival in March 2016, preparing the park for the festival, greeting attendees, handing out information, and supervising a children’s bike ride around the park.

“Noble Energy’s support of Bayou Greenways 2020 and our annual festival, Bayou Greenway Day, truly is transforming Houston into a healthier and more beautiful city. Noble Energy’s everlasting impact on the Bayou City will be a part of the company’s legacy for generations to come.”

- Deborah Rule, Houston Parks Board

Education/Workforce Development

In its fourth year, the GeoKids program continued to bring geography to life for students at Northpointe Intermediate School near our headquarters office. Started by several Noble Energy GIS (geographic information systems) employees inspired by the Geomentor.org program and Connect ED, the program now involves 10 employees who provide a science, technology, engineering and math (STEM) learning program with an emphasis on geography. This year’s activities included geocaching using GPS, local key map readings, route planning to theme parks, and state map creation.

“It was wonderful to see the students dive-in hands on and solve real life problems like we do here at Noble Energy.”

- Geoscience Analyst Robert Graham

As part of Noble Energy’s support of STEM education, we awarded a college scholarship, in partnership with the Houston Northwest Chamber of Commerce, to a Spring High School student who plans to study chemical engineering.

We established a strategic partnership in 2015 with the Aldine Family Hope Center, which works with at-risk youth and their families in the underserved Aldine area of Houston. The three-year educational grant funds three programs serving youth aged 6–18. In 2016 the programs included an after-school program serving 45 children, a teen enrichment academy serving 32 students, and a summer program for high school students. The partnership also leveraged our existing support of the Houston Food Bank, which provided after-school food and a weekend food basket for participants. In support of this partnership, our Houston finance and IT employees organized a school supply drive and beautification day benefitting the center. Employees volunteered for three different activities: assembling school supplies in 300 backpacks, the backpack giveaway event and a beautification day to prepare the center for the upcoming school year.

“Because of the leadership and employees of Noble Energy, children and youth at the Aldine Family Hope Center have been provided a safe and caring environment to learn, improve and enhance their education and life skills.”

- Buckner outcomes report

Community Betterment

Houston is a center for human trafficking because of the city’s location and function as a major transportation hub. The huge visitor influx surrounding the Super Bowl football championship, hosted in Houston in February 2017, was expected to attract more trafficking, especially related to prostitution. Because of this, we committed in 2016 to support anti-trafficking efforts as part of its Super Bowl sponsorship role. We worked with three non-profits on various aspects of this issue: the local Catholic Charities’ St. Frances Cabrini Center for Immigration Legal Assistance organization to provide legal assistance to trafficking victims who might be eligible for deferred action for childhood arrivals (DACA) immigration status; Tahirih Justice Center to assist women who were seeking asylum; and LOVE 148 to assist children who were victims of trafficking.
Communities - DJ Basin

In the DJ Basin of northern Colorado, we have three decades of experience working side-by-side with local communities and groups to support environmental, educational and community health goals. In 2016, science education and other workforce development initiatives were in the forefront of our activities.

Education/Workforce Development

Over the past year, Noble Energy and the Denver Center for the Performing Arts (DCPA) have created an innovative curriculum that supports STEAM (science, technology, engineering, arts and math) education in 10 underserved schools across Colorado. The program was delivered to over 500 students in 2016 and is being expanded to ten additional schools.

“They were engaged the entire time … This very hands-on workshop not only helped my students learn and solidify new concepts but also gave me ideas for other ways to teach various concepts.”
- Denver Public Schools teacher

Also in 2016 we invested $100,000 in a Smithsonian pilot program to help teachers introduce more advanced science curriculum into classrooms in 16 schools across Colorado. The Smithsonian serves as a laboratory for creating innovative education methods that support formal education, and our grant will help support its efforts to transform the learning and teaching of science for students in Colorado and across the United States.

We continued our Denver Public Schools (DPS) education partnership with the Denver Broncos, presenting the DPS Foundation in 2016 with $32,000 raised from the Red Zone program – every time the Broncos reached the red zone during the 2015-2016 season, we donated $1,000 to the foundation. The program has cumulatively passed the $100,000 mark, with funds going toward science, technology, engineering and math (STEM) programs. At our annual Noble Energy/Denver Broncos day of service in the schools, employees and contractors volunteered at McGlone Elementary School. They led field day activities, gardened, painted, and read to students. We also surprised the students by donating $3,000 for McGlone Elementary’s summer programs.

“For years to come, this gift will not only enrich the education of our kids but their life experiences. Through their generosity, Noble Energy is part of the fabric of our community.”
- Veronica Figoli, DPS Foundation President and CEO

Additionally, Noble Energy and the Denver Broncos have worked with DPS to recognize and encourage students who demonstrate excellence in STEM subjects, through the Noble Energy Kids Program. At every Broncos home game, six to 10 students from 20 local schools in lower-income neighborhoods are selected by DPS leadership to receive tickets and field passes and are recognized on the main video board. In 2016, we received 160 applications for Noble Energy Kids.

Our workforce development outreach efforts also support programs that build a diverse base of leaders in our communities:

- We have partnered with the Hispanic Chamber of Commerce of Metro Denver for three years by supporting its Leadership Development Program. In 2016, Noble was recognized for its efforts with the Chambers Corporate Advocate Award.
- In 2016, we sponsored Mi Casa’s Denver Resource Fair, a networking event to provide opportunities for businesses.
- We supported a 13-week program offered by the Women’s Business Center that helps aspiring entrepreneurs and emerging businesses achieve their goals.

Our science education efforts also involve our training center in Greeley. Not only does the center leverage science and technology to educate Noble Energy employees as they come on board, it also demonstrates science and safety principles to external visitors. The outdoor production simulator illustrates our field operations. All the equipment was donated by our vendors, with cutouts to show the inner workings. The indoor training lab shows how our employees are tested on equipment, company processes, and safety. In 2016 the training staff hosted 11 stakeholder tours with 242 participants, including legislators, students, and federal and state officials.
Environmental Projects

After exploring multiple alternative fuel options, the Douglas County, Colorado, school district chose to launch a compressed natural gas (CNG) pilot program. Through a partnership with Noble Energy and the Regional Air Quality Council, the school district was able to secure more than $250,000 in grants, enabling it to purchase new compressed natural gas (CNG) buses for less than the cost of used diesel buses.

Douglas County is one of nine counties benefitting from Noble Energy’s CNG bus program, which has helped school districts purchase 47 buses with contributions of nearly $4.19 million since 2013. Clean-burning natural gas is up to one-third less expensive than diesel fuel on an equivalent energy basis, saving school districts approximately $3,000 on fuel per CNG bus per year while reducing air pollutants compared to diesel-fueled vehicles. According to the U.S. Department of Energy’s Office of Transportation Technologies, natural gas engines dramatically reduce carbon monoxide by 70%; non-methane organic gas by 87%; and nitrogen oxides by 87%.

Community Health

Noble Energy is a long-time supporter of the Denver-based Morgan Adams Foundation, which works with leading physicians and directly funds pediatric cancer research and therapies to improve survival rates and reduce treatment side effects. In 2016, our employees provided 159 volunteer hours to the Foundation.

Continuing another long-term community outreach program, a team of Noble Energy employees organized multiple fundraising events as part of the Weld Food Bank’s Annual Corporate Food Challenge. The event raised funds that provided more than 480,000 meals for seniors, children and families in need. In addition, employees volunteered a total of 247 hours in 2016 at the Weld Food Bank.

Noble Energy was named the Tennyson Center for Children’s Corporate Champion for 2016. Since 2008, we have funded a total of $800,000 to support the Tennyson Center, which provides residential and therapeutic services, as well as a K-12 school, for children who are survivors of severe abuse or neglect, or have significant mental health or developmental issues. In 2016 our employees donated backpacks through Tennyson’s annual backpack drive, played with the kids in the center’s annual golf tournament, spoke at their Northern Colorado dinner and worked with the Denver Center for Performing Arts to deliver a Dramatic Learning program to a group of 5th graders at Tennyson’s school.

Our employees also participated in events supporting several other health issues. In the American Heart Association Relay for Life, our team placed first in the large group category. Noble Energy employees participated in the annual Turkey Trot benefitting the Northern Colorado Medical Center Foundation to assist cardiac and pulmonary rehabilitation patients. And in Denver, employees and their family members participated in the “Undy Run” for The Colon Cancer Alliance, whose goal is to knock colon cancer out of the top three cancer killers.

Community Betterment

Beyond our strategic pillars of community support, we lend a hand to other efforts that make our communities better places to live.

In Weld County, Noble Energy employees volunteered at New Raymer Park as part of the first phase of revitalizing the town’s main park. In addition to the New Raymer Park project, Noble Energy has been a multi-year contributor to the Weld County’s Northeast Drylander Fair, in particular underwriting the cost of the annual community barbecue.

Noble Energy’s support for the Rocky Mountain Children’s Law Center included multiple volunteer-driven activities during the year. The center fights for the best interests of children both in and out of the courtroom to help them achieve a higher quality of life. During the center’s annual Elf Bash holiday gift drive, more than 85 percent of our employees participated in collecting 241 gifts over the course of two weeks.
Noble Energy began operating in west and south Texas in 2015 when we merged with Rosetta Resources. As our Texas business units have taken shape, we have also taken a strategic approach to building our community role by conducting a formal needs assessment process. In 2016, we formed employee advisory committees in both the Eagle Ford Shale and Permian Basin areas to determine our priorities within the three Noble Energy community pillars of community health, environment efforts, and education/workforce development. We also maintained key community relationships built by previous operators and met with a number of potential future community partners.

Environmental Efforts

Our most significant new initiative so far is our commitment to participate in the Learning Across New Dimensions in Science (L.A.N.D.S.) programming developed by the Texas Wildlife Association Foundation. The Foundation works to increase natural resource literacy and promote conservation and educational programs that connect Texans to the land. The program will roll out in 2017 beginning in Reeves County, in the Permian Basin, with future program support in Dimmit County, in the Eagle Ford Shale.

We are sponsoring a contract educator to present L.A.N.D.S. programs to 35 classes (reaching approximately 1,200 students annually) and provide related educational resources such as distance learning to 80 classes (reaching approximately 2,000 students annually).

The L.A.N.D.S. program includes classroom curricula, special presentations, field trips, learning modules, webinars, and interactive video conferencing programs designed for students in grades K through 12.

Education/Workforce Development

Nearly 1,000 high school students learned about the oil and natural gas industry at the Spurring Education Energy Day hosted in San Antonio by the South Texas Energy and Economic Roundtable. Four Noble Energy employees participated in the one-day education program set up to show students the opportunities available for them in the energy sector. Their presentation explained the rock cycle, reservoir porosity and how technology is used to find oil and natural gas in unconventional shale plays.

Dimmit County area teachers were honored at the 10th annual Bullnanza Bullriding Event, sponsored by Noble Energy. Six employees and their families volunteered at the rodeo, held at the Dimmit County Rodeo Fairgrounds in Carrizo Springs, near our operations in South Texas.

Community Health

We teamed up with the City of Dilley Police Department in south Texas to provide Thanksgiving meals and Christmas gift bags to those in need. In addition, we made donations to support two women’s shelters, Casa De Misericordia and Wintergarden Women’s Shelter.

In December, employees from both Texas business units teamed up with employees from our Marcellus Shale business to donate funds for a toy drive for pediatric cancer patients in Houston. Through Linked with Liam, a nonprofit organization created by a family who lost their son Liam to cancer, the employee donations were used to provide toys to children at MD Anderson Cancer Center and Memorial Hermann Hospital.
In the Marcellus Shale formation in the northeastern United States, our operations are focused in the productive areas of southwestern Pennsylvania and northern West Virginia. While the dissolution of our joint venture in the region during 2016 narrowed our geographic scope, we remained highly active in our key communities.

(Note: In May 2017, we announced the sale of our Marcellus Shale assets.)

Emergency Relief

After historic flooding in southern West Virginia left 44 of the state’s 55 counties officially in a state of emergency, Noble Energy joined other members of West Virginia Oil and Natural Gas Association in a coordinated effort to collect funds to be directed to the West Virginia Red Cross. Our $25,000 commitment was part of the industry’s overall $350,000 donation.

Community Health

Employees in Canonsburg, West Virginia, collected 558 pounds of food in response to a community challenge from the Marshall County Family Resource Network. The month-long challenge was initiated to replenish local food banks during July, typically a time when demand rises and donations drop. The following month, employees donated another 520 pounds of non-perishable food to the Washington City Mission, whose shelves were nearly empty. In addition, employees gathered monetary donations for the mission.

We partnered with the Marshall County Family Resource Network to donate new or gently-used purses and bags to local women in need. The donated bags were filled with small toiletries and household products and distributed to six local organizations: CASA, Wellspring Pregnancy Center, Blue and Gold Christian Center, Moundsville Police Department, Feeding Body and Soul Soup Kitchen, and the YWCA.

Noble Energy volunteers delivered and served meals to nearly 100 patients, doctors, nurses and supporting staff in the pediatric heart wing at the Pittsburgh Children’s Hospital. The project was organized through Jameson’s Army, a nonprofit organization dedicated to raising awareness and funding for children and families affected by congenital heart defects.

Environmental Efforts

More than 135 students from Marshall and Ohio counties spent a day learning about fishing and wildlife management at the second annual stream stocking and clean up event we hosted along Wheeling Creek and Bear Rock Lake in West Virginia. Together with Noble Energy volunteers, Cabela’s, the Fraternal Order of Police, the West Virginia Division of Natural Resources and West Virginia University, the students stocked a four-mile stretch of the creek with nearly 5,000 pounds of trout and picked up 2.5 tons of trash around the streams.

Education/Workforce Development

As a founding partner of the petroleum technology program at West Virginia Community College in Morgantown, West Virginia, Noble Energy has provided numerous lectures and tours for students of the program and we remain on the advisory panel to provide input on curriculum. To date, we have hosted six interns and hired three as lease operators. In 2016, we participated in the program’s first internship fair. More than 100 students attended from program majors such as Petroleum Tech, Mechatronics, and Applied Process Management.

We donated more than 600 backpacks as part of the first annual Tyler County Back to School Fun Fair. At the event, Marcellus employees distributed backpacks, glue sticks and notebook paper to pre-K through fifth grade students to prepare them for the first day of school.

As the 2016 sponsor of Waynesburg University's freshman service project, Noble Energy helped more than 400 students make a bigger impact on the Greene County community. We helped connect them to multiple organizations throughout the county to offer assistance, and provided several volunteers for the service day. One project: building a community garden, pumpkin patch and orchard at the local food bank. Local county prison inmates will maintain the gardens in the future and all fruit and vegetables will be available to anyone in need.
Communities - Eastern Mediterranean

In the Eastern Mediterranean, Noble Energy’s successful offshore exploration and development of natural gas and Israel’s approval of a new regulatory framework have helped create a new energy industry in Israel. Many of our community outreach programs remain focused on building the skilled workforce that will enable Israel to reap the full economic benefits of this new industry. In nearby Cyprus, where we have an as-yet-undeveloped discovery, our community outreach is in its early stages, too.

Education/Workforce Development

The Noble-Ruppin Center for Energy Professions at Ruppin Technological College is a higher education center we helped build and support to educate and train the next generation of Israeli professional employees in the energy industry. Noble Energy engineers assisted in the development of the curriculum and often provide professional seminars and guest lectures to the students throughout the year. Now in its third year, the program will launch its first internships in 2017, offering a select group of students the opportunity to execute their final project at Noble Energy.

At the high-school level, we help sponsor two main programs at the Heznek-L’Atid association, a unique organization that provides professional training in the energy and natural gas fields for at-risk students across Israel. The first program is Heznek Lata’asiya (Sprint to the Industry), which gives 10th-12th graders a chance to learn in a technological high school program that incorporates personal empowerment and practical work experience. The second, Heznek L’Handesayim (Sprint to Vocational Training), aims to address the high percentage of drop-outs from the vocational training programs in Israel by providing a supporting environment, extracurricular classes and employment guidance to lead students to succeed.

“The program changed my life. Thanks to the program, a new world has been opened to me. For the first time in my life, I am excelling in something. It’s the first time I’ve made my parents proud. My dream is to work in the Israeli industry and to keep learning as much as I can.”
- Heznek student

Ta’asideyda students present their “city of the future” plans to Israel Country Manager Binyamin Zomer

For the past three years, Noble Energy has sponsored a middle-school program that focuses on the oil and natural gas industry. The Ta’asiyeda program is part of the educational outreach of the Manufacturers’ Association of Israel, which provides programs in various industries. In 2016, over 16,800 young students participated in 60 courses called “A City with New Energy” and 500 workshops called “The Energy Revolution in Israel.” Noble Energy sponsored Ta’asiyeda programs in schools across the country. At the end of each course, the students presented cutting-edge ideas for an energy-efficient city with a focus on natural gas use using a three dimensional model of the “city of the future.”

“Before the course I did not know what natural gas was. I heard little about it on the news. This course made me realize how important it is for our country and our environment.”
- Ta’asiyeda student
Shuir Archer is another educational program we have supported on an ongoing basis. This program for middle- and high-school students focuses on professional careers such as law and accounting. Each of ten sessions covers one profession in depth in an engaging way. Our professional staff participate in these sessions to help students understand the variety of careers open to them.

Noble Energy’s support of the Jewish Agency’s Youth Futures program, which provides disadvantaged Israeli youth with an opportunity to develop their academic and social skills, continued in 2016. Volunteers spent a day renovating an older Youth Futures center in Tel Aviv, transforming a gray, dingy shelter into a colorful and happy space. The volunteers’ efforts were supplemented by a donation from Noble Energy. In another project, 50 Noble Energy employees prepared 225 Purim baskets and delivered them to children in the Youth Futures program in Tel Aviv and Jaffa.

Community Engagement

In late 2016 we introduced a monthly half-day visitor program to which we invite students and other groups to increase their familiarity with the workings of the energy industry. The program includes presentations on natural gas in Israel and on engineering, and includes a tour and discussions with our geological experts. One well-received feature is a quiz that participants take using a smartphone app.

Community Health

Recently, Noble Energy employees in Israel volunteered to distribute food baskets to families in need for Rosh Hashana, the Jewish New Year. The volunteer day was held through Pitchon Lev, a national humanitarian NGO that helps organizations distribute food to thousands of disadvantaged people throughout Israel. In addition, Noble Energy made a donation that helped feed another 100 families during the holidays.

Environmental Efforts

Noble Energy employees in Israel volunteered with the Israeli Archeological Institute in the ancient port city of Caesarea to support efforts to rebuild the city. Caesarea – a city dedicated to Caesar Augustus by Herod the Great nearly 2,000 years ago – is rich in cultural heritage and its story is an important part of Israel’s history. Employees took part in excavations around the city that aim to explore and understand the ancient regimes of Caesarea. During the excavation, volunteers found ancient coins, bones, broken clay pots and other relics.

Cyprus

Our initial community activities in the Republic of Cyprus are centered on community health.

In 2016 we supported the Sophia Foundation’s “I Cook and I Offer” program. With the support of the Cyprus Ministry of Education, the foundation constructs and equips kitchens in all-day primary schools and brings in mothers as volunteers to cook every day for their children. We also supported the Red Cross through both a financial donation and volunteer involvement. In Cyprus, the organization’s largest activity is the operation of the Children Therapy Centre Stella Soulioti in Limassol. There, children aged up to 18 years old with severe physical disabilities, such as paralysis, muscular dystrophy, and other serious developmental and mobility problems are cared for.

A group of Noble Energy employees in Cyprus participated in the 5K corporate race that was part of the 10th Annual Limassol Marathon. This year’s race raised money for the Karaiskakio Foundation in support of the Bone Marrow Donor Registry.

Mothers volunteer to cook for children through the “I Cook and I Offer” program in Cyprus
In West Africa, our operations are centered on two offshore platforms near Bioko Island, a nearly 800-square-mile island off the northern coast of Equatorial Guinea that is home to more than 300,000 people. Our community outreach efforts have consistently focused on improving the lives of residents through health initiatives and workforce development, and conserving the environment of this volcanic island. In 2016, we supported major progress toward malaria prevention, and focused more attention beyond the island to the Equatorial Guinea mainland. We also provide community outreach in Gabon, where we hold a working interest in an exploration project.

Community Health

Bioko Island Malaria Control Project

Since 2005, Noble Energy has been a partner in a milestone public-private partnership, the Bioko Island Malaria Control Project. Through an integrated approach of community education, mosquito spraying, distribution of mosquito netting, and new protocols for diagnosis and treatment, the initiative has reduced the prevalence of this deadly disease. Malaria cases on Bioko Island fell by 23 percent in 2016 as compared to 2015. Beginning in 2015, the partnership also began funding (as part of a wider coalition) promising research on a malaria vaccine. In 2016, after clinical trials on Bioko Island demonstrated the efficacy of the Plasmodium falciparum sporozoite, or PfSPZ, vaccine developed by Sanaria Group, Noble Energy stepped up its role by initiating and sponsoring a first-of-its-kind symposium on malaria immunization. Organized by Sanaria, the event in Washington, D.C., brought together the world’s leading experts to tackle one of the most challenging issues in malaria immunization: the interaction of immunization and pregnancy.

Clean Water

Availability of clean water remains a challenge for residents of Bioko Island and other parts of Equatorial Guinea. In early 2016, we inaugurated a solar-powered water well for the city of Luba on Bioko Island. The project, completed in 2015, provides a steady supply of clean, potable water for more than 2,000 nearby residents in this growing community. Five community faucets are connected to the well fed from a 20,000 liter tank. As part of our production sharing contract with the Government of Equatorial Guinea, we contracted with a local company for the building and delivery of this unique project. A group of local residents have also been trained in both maintenance and safety issues by Noble Energy’s EHSR department and the local contractor to ensure the long-term sustainability of the project.

In the island’s urban district of Batoicopo, we began a project to renovate an existing well. The project involved remediating asbestos, installing solar power and placing new pipeline for the mile-long aqueduct that carries water from the river a mile up the mountainside. Several new water points were also installed to provide access to clean, filtered water to the community.

Other Community Health Projects

In 2015 we established a four-year agreement with the United Nations Population Fund (UNFPA) to invest more than $6 million to reduce maternal and neonatal mortality rates in Equatorial Guinea. In 2016, those rates dropped by 12 percent and 30 percent respectively through education, better delivery infrastructure, capacity building and training.

As part of the UNFPA project, we provided funding in 2016 for a significant initiative to address cervical cancer, one of the leading causes of death and disability among women in Equatorial Guinea. The initiative, conducted by Medical Care Development International in consultation with the Ministry of Health and Social Welfare, aims to screen 6,000 women aged 20-60 years using a simpler “screen and treat” approach that includes immediate treatment of precancerous lesions identified during screening. Community education on the need for screening is an important component of the initiative.

“In many cases, neither cancer nor women’s health issues are a priority for public health organizations working in Africa. Noble Energy has taken the lead on addressing cervical cancer in a way that makes a huge difference for women’s health in Equatorial Guinea.”

- Dr. Carlos Cortés, Medical Care Development International
Employees and contractors in Equatorial Guinea hosted a fundraiser for the Malabo Lampert Orphanage, donating more than $3,700 to purchase diapers, powdered milk, meat, fish and vegetables to give to the orphanage.

Environmental Efforts

Since its opening in October 2015, the renovated Alcaide Children’s Park in Malabo has become a continuing reflection of our commitment to the community. Sponsored by Noble Energy, it spans more than 10,000 square meters and features two basketball courts, a soccer field, volleyball courts, gardens and green spaces. In 2016, employee volunteers spent a day conducting a clean-up and beautification program at the park in celebration of Earth Day. Employees were joined by U.S. Ambassador Julie Furuta-Toyand and several U.S. Embassy staff members, along with students from the University of Equatorial Guinea. Volunteers picked up trash, planted trees, repaired fences and painted. Two local artists dedicated work to the park: Sr. Pocho created a sculpture from recycled materials and local painter Mene led the volunteer effort to paint over graffiti. Mene returned later in the week to paint a colorful mural on the wall.

On another day, members of the EG Olympic Committee gathered with the community to celebrate Olympic Day at the park. It provided the perfect setting for children of all ages to discover new sports, get active and meet top athletes from their country. Due in large part to the success of Alcaide park, the Ministry of Mines and Hydrocarbons has authorized Noble Energy to construct another park in Bata, on the Equatorial Guinea mainland.

Education/Workforce Development

Workforce Development

In Equatorial Guinea, we have developed and implemented a robust competency assurance development program for Equatoguinean technicians and operators working on offshore facilities. The program begins with three years of initial training in English, math and science, and an introduction to process operations and instrumentation maintenance at a local technical training institute in EG. Following initial training, trainees complete 12 to 18 months of intensive technician and operator training and certification at the internationally recognized Aberdeen Skills and Enterprise Training College (ASET) in the United Kingdom. Upon completion of the program, trainees receive a recognized vocational qualification endorsed by ASET and return to EG and progress their knowledge through on-the-job training at Noble Energy’s offshore facilities until their skills demonstrate their ability to work without supervision as technicians and operators according to OPITO standards. To date, 50 trainees have begun the training program, with 38 others to follow.

Other Educational Initiatives

Noble Energy continued its support of “Dulce Nombre de Maria” (Sweet Name of Mary) Basakato West boy's boarding school on Bioko Island. In 2016, a newly built pavilion was inaugurated as well as the recently renovated educational center. The project included construction of a new two-story administration building, dormitory and facilities building. The school now can house approximately 100 students.

In Basupu, Equatorial Guinea, Noble Energy helped the community build a unified, modern primary school building. The project, which included demolition of existing structures and the construction of new facilities, began in 2015 and was completed in 2016. The new school will serve more than 150 students with six classrooms, several offices, a large patio area and a multipurpose court for the community.

Community Betterment

Food security is a significant concern in Equatorial Guinea. Noble Energy donated $72,000 to the non-profit Desarrollo 2000 en Africa for an agricultural development program to be conducted jointly with the Bata agricultural training school (ECA). The project is focused on establishing a farm where local men and women will learn scientific agricultural methods while raising short-cycle and perennial food crops. Once established, the project will then become self-sustaining, generating economic benefits for the community.

We also believe one of the ways we can live up to our vision of “Bettering People’s Lives” is to build local capacity for social good. In 2016, we made small grants to three non-governmental organizations that work on critical issues:

In addition, we continued our partnership with the Wildlife Conservation Society to provide training on biodiversity and business skills to communities in protected areas to enhance their fishing and agricultural skills while protecting delicate ecosystems.

We funded renovation of the Rebola Cultural Center to address the resource and educational needs of the growing town of Rebola, just north of Malabo. The center is the community’s primary site for cultural, educational and community events. The renovation focused on upgrades for safe outdoor activities, exterior improvements, plumbing upgrades and exterior and interior painting.

Our employees in Equatorial Guinea participated in the “Malabo 5K Charity Run” sponsored by the U.S. Embassy Malabo Diplomatic Security Service (DSS). The event was part of the DSS Global Race for Charity, which includes 100 charity runs at 100 embassies throughout the globe celebrating the 100th anniversary of the DSS, the arm of the U.S. Department of State charged with protecting U.S. diplomatic missions and diplomats worldwide. All proceeds of the run were presented to La Inmaclada – Batete, a residence and school for orphans and poor children in the town of Batete.
Because our U.S. Gulf of Mexico business unit operates entirely offshore, much of its community support is linked to our Houston headquarters. In mid-2016, however, the business unit formed its own community outreach committee to identify and coordinate partnerships in communities we touch along the coast in Texas, Louisiana and Alabama.

Environment

The first volunteer day organized by the Gulf of Mexico community outreach committee brought 26 employees to Waller, Texas, to work with the Katy Prairie Conservancy. The nonprofit organization works to protect greenspace for its conservation and recreational benefits, to enhance wildlife habitat, restore tallgrass prairie and wetlands, and sponsor scientific research. Throughout the day, employees planted and watered a total of 327 plants.

Education/Workforce Development

In partnership with the National Energy Education Development Project (NEED), the Gulf of Mexico business unit sponsored two training workshops for public and private middle and high school math and science teachers. The first, in LaPlace, Louisiana, brought in more than 20 teachers from numerous surrounding parishes. The second, in Mobile, Alabama, hosted nearly 40 teachers. The workshops provided teachers with resources and supplies to teach their students about the science of energy, sources of energy, technology and innovation surrounding oil and natural gas exploration, different uses of oil and natural gas and conservation of natural resources.

EMPLOYEES HELP THE KATY PRAIRIE CONSERVANCY PROTECT GREENSPACE, ENHANCE WILDLIFE HABITAT AND RESTORE PRAIRIES AND WETLANDS
People

We continually identify new ways to allow employees to learn, grow and succeed – approaches that have deepened the strengths of both individuals and the organization.

VIEW PEOPLE PERFORMANCE DATA

In This Section

A LEARNING CULTURE
DEVELOPING NEW LEADERS
INNOVATION
DIVERSITY
BENEFITS THAT BENEFIT OUR COMMUNITIES
WORKPLACE WELLNESS
We view career development as a shared responsibility of the employee and his or her leader, with support from the organization through communications, resources and an environment that encourages open and frequent career and employee development discussions.

Our philosophy is to encourage people to seek and explore career interests and to partner with their leader to align their development goals with Noble Energy’s business strategy. Each individual has the opportunity to build the depth and breadth of their capabilities, including personal effectiveness, technical and functional knowledge, business understanding and leadership capabilities.

We took this further in 2016, actively identifying ways to help our people broaden their perspectives through lateral moves, stretch assignments and experiences that may have taken them out of their normal work realm. The benefits to both individuals and our business have been remarkable as we continue to grow our organizational capabilities.

Visit www.nblenergy.com/careers to learn more about our culture.
We continued to invest in developing leaders within Noble Energy through our two established programs, LEAD (Learn, Excel, Achieve and Develop) and Executive LEAD.

In 2016, 68 employees completed the LEAD program and 72 started in the program that will finish in 2017. LEAD is a 12-month program designed for individual contributors, first-level managers and managers of managers. The goal is designed to accelerate the development of key talent in the organization. The skills graduates acquire in this setting also help them become catalysts for developing others.

The Executive LEAD program for mid- to senior-level leaders parallels the larger program in many ways, but includes elements such as external executive coaches. Executive LEAD participants also serve in the development of LEAD participants. In 2016, 9 leaders completed the program and 12 started the 2016/2017 curriculum.
We encourage our employees to explore innovative technical and business solutions. We held our fifth annual Business Innovation Conference in 2016, with the theme, “Exploring New Ideas, Leveraging the Outside World.” We presented two employee awards: the Inventing the Future Award and the CEO Award.
Diversity

Diversity is a key value both in our employee culture and in our community support. We recognize that we increasingly live in a global world that is interconnected – and we are headquartered in the most ethnically diverse city in the United States. Honoring the diversity within our workforce and reaching out to connect with future talent from varied backgrounds are important to our sustainable future.

We have proactively sought over the last three years to establish more relationships with “non-traditional” community partners, particularly in the DJ Basin, our largest operating area, and in Houston. These include both business-focused groups such as the Urban League, Hispanic Chamber of Commerce and Women’s Chamber of Commerce, and non-profit organizations that serve or benefit underserved populations. Many of the organizations listed in the Communities section of this report reflect that focus.

Our forward social investment strategy aims to have a balanced portfolio or projects and partnerships reflective of the populations in the communities where we operate and specifically to emphasize programs serving a greater share of women and more mixed ethnic/racial composition.

A few examples of our 2016 activities illustrate this strategy:

• In Houston, our focus on reaching underserved communities has resulted in a strategic partnership with Legacy Community Health, a clinic with multiple locations in medically underserved parts of the city. Legacy identifies unmet needs and gaps in health-related services and develops client-centered programs to address those needs.

• In the DJ Basin, we have been partnering with the Hispanic Chamber of Commerce of Metro Denver for three years to support its Leadership Development Program, which is helping build a strong base of Hispanic leaders in Colorado. In 2016, we received the Chamber’s Corporate Advocate Award.

• In Israel, our partnership with Heznek allows us to reach underserved populations, primarily immigrant groups on the periphery of Israeli society.

• In Canonsburg, West Virginia, we repeated our successful disability “Mentoring Day.” We partnered with ARC Human Services to host students with disabilities who attend Carson-Mac, the high school closest to our office. Students were paired with employee volunteers to explore different jobs within the office environment while learning about the oil and natural gas industry.
At Noble Energy, we encourage employees to volunteer their time in support of their communities. In 2016, we launched a global volunteer policy under our NobleACTS program that allows employees to devote up to 45 hours of paid work time per calendar year to volunteer activities. They can use up to 27 hours of paid time for volunteer work with qualified organizations of their choice and 18 hours for volunteering with company-sponsored events benefitting non-profits.
Noble Energy encourages and supports employees in living a healthy lifestyle. Amenities include onsite fitness centers at major offices, and healthy food offerings in company facilities. We also support wellness through biometric assessments and incentive programs rewarding healthy lifestyle choices.

Reflecting our wellness focus, a group of Noble Energy employees placed third overall against 27 companies in the area in the 2016 Houston Fit Company Challenge.

The challenge included three unique courses designed to test strength, power, conditioning, agility and endurance. Forty-two employees competed in relay teams to complete each of the three courses.
Transparency

Our ongoing presence at the top of the Center for Public Accountability's CPA-Zicklin Index, a measure of transparency policies and practices in political spending, is just one example of our commitment to ethical and transparent actions. Accountability for our operations and practices starts with our Board of Directors and extends to every Noble Energy employee and contractor.

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SOCIAL CHARTERS
Our Board of Directors is the foundation of our governance structure. The Board and its committees hold responsibility for strategic oversight of our activities around the world. We provide a full description of our Board structure in the corporate governance section of our website. Additional current Board information is in our 2017 proxy statement. Nine of our ten directors have been determined by our Board to be independent as defined by the New York Stock Exchange and U.S. Securities and Exchange Commission.

Our Board's Environment, Health and Safety (EH&S) Committee assists the Board of Directors in determining whether the Company has appropriate policies and management systems in place with respect to EH&S, and in monitoring and reviewing compliance with applicable EH&S laws. The Committee also serves as a forum to review our Corporate Social Responsibility (CSR) strategy and initiatives. In 2016, the Committee was composed of six Board directors, the majority of whom are generally familiar with EH&S aspects of oil and gas exploration and production operations, as well as CSR. The Committee met three times during the year to discuss various topics including:

- Company and contractor EH&S policy and management systems
- EH&S safety performance
- EH&S strategic outlook
- EH&S compliance auditing

To ensure the EH&S Committee achieves its purpose, it regularly reports its discussions to the Board of Directors and conducts an annual evaluation of its performance. In addition, the Board conducts an annual review of the Committee's EH&S risk, impact, and opportunity assessment and management procedures.

Our Board also plays an active role in assessing the impacts of our exploration and development operations by approving our entry into any new country. Our pre-entry analysis includes technical feasibility, commercial attractiveness, and above-ground risk, which includes the impact of our operations on the environment and any local communities.

Areas of governance addressed by our board committees in 2016 included a continued focus on stockholder engagement with an emphasis on obtaining feedback from stockholders in the areas of climate change, executive compensation and proxy access.
The Noble Energy Code of Conduct lays out our expectations for directors, officers, employees and contract staff worldwide. It applies to our majority-owned affiliates and their employees as well as to business partners such as service providers and agents. We consider it an integral part of our governance structure and make it widely available as part of our commitment to transparency.

Both employees and external parties can report ethical concerns or ask questions via an externally managed, anonymous and confidential reporting mechanism, NobleTalk™. Accessible in multiple languages and at any time, NobleTalk offers toll-free or collect-call access and a web intake form. Employees are also encouraged to report matters internally to our Global Compliance, Human Resources and Legal departments.

In 2016, 37 cases were reported through NobleTalk™. The most commonly reported observations involved discrimination or harassment, employee relations issues, and environment, health and safety concerns.

Alleged violations are tracked, assigned an investigator and managed in our case management database allowing categorization, streamlined workflow and internal reporting. All NobleTalk™ matters and dispositions of closed matters, including any disciplinary or remedial actions, are reported quarterly to the Audit Committee of the Board of Directors. In 2016, five cases resulted in disciplinary action. Thirty-five cases were resolved by year-end.

VISIT OUR INTERACTIVE CODE OF CONDUCT AT WWW.NBLENERGY.COM/ECODEOFCONDUCT
Around the globe, we educate and train our employees and contractors to combat corruption. In 2016, 2,038 employees and contractors received anti-corruption training in person or through facilitated webinars. In-person ethics training was also delivered to 27 individuals from 19 third parties.

We also held our seventh annual compliance and ethics summit, attended by 158 employees, with ten internal subject matter experts presenting and 16 external speakers.
Responding to Stakeholder Concerns

We engage with local communities throughout all stages of operations to gain perspectives and understand concerns. Methods for engaging with our communities include town hall meetings, surveys and research, grievance hotlines, online engagements (such as www.noblecolorado.com) and direct interaction. In the DJ Basin, our largest onshore operation, we established a landowner complaint hotline two years ago. The hotline provides an avenue for landowners impacted by our operations to provide feedback or lodge concerns and receive timely, respectful and consistent responses.

Because most of our onshore assets are located in rural areas, the most common community concerns expressed are related to increased truck traffic and resulting impacts to roads, noise, and similar issues. To ensure that these temporary disturbances are minimized and effectively managed, we implement specific road-use strategies. These efforts include blackout hours, which keep large trucks off the road during school bus-route hours, and the use of pipeline transportation systems to reduce truck traffic.

In the DJ Basin, we have established additional practices in response to stakeholder input:

- For each new operating location, we conduct baseline surveys, audio/visual/olfactory inspections, noise surveys and impact assessments that take into account noise, light, and odor pollution. As needed, we implement mitigation measures to reduce these impacts. We follow up to assess the effectiveness of these measures. We are also going back to conduct similar assessments on legacy projects that predated this baseline process.
- We work with the Colorado Oil and Gas Conservation Commission (COGCC) to install effective sound barriers, such as acoustic panels, around our drilling rigs to reduce noise. We also participate in a COGCC technical working group to discuss noise pollution issues and identify ways to lessen them.
- We limit light pollution by taking advantage of natural topography or constructing temporary or permanent light shields, by carefully positioning lights and by using lights only during activities.
- We work to reduce odor pollution by using closed loop systems to store drilling mud, by using green completions to reduce flaring, and by using combustion burners to avoid venting emissions during production.
In 2016, Noble Energy once again ranked #1 on the CPA-Zicklin Index published by the Center for Public Accountability, as we remain committed to accountability and transparency in political spending. The CPA-Zicklin Index measures the transparency policies and practices of the entire S&P 500 listing of major companies.

Our Political Law Compliance Program ensures continued compliance with U.S. federal, state and local regulations on campaign finance, lobbying, and gifts and entertainment, and with guidelines for employee representation and participation in trade associations. Our Board’s Corporate Governance and Nominating Committee provides oversight for Noble Energy’s political activity.

In 2016, our federal lobbying expenses were $2.38 million. Visit www.senate.gov for a full list of federal issues lobbied by Noble Energy.

NEPAC, the Noble Energy Political Action Committee, provides employees an opportunity to contribute to candidates for state and elected office. Noble PAC contributions totaled $53,428 for 2016. More information is in our 2016 Full Year Political Activity Report at www.nblenergy.com/corporate-governance. Also on the governance page of our website are our political activity guidelines and an archive of our political activity reports.
Revenue Transparency

Noble Energy supports the objective of increasing transparency of payments to governments. We are a member of the Extractive Industries Transparency Initiative (EITI), which supports enhanced governance in resource-rich countries by promoting the disclosure and authentication of company payments and government revenue receipts from oil, natural gas and mineral development.

In 2016, we operated in one EITI-compliant country, Cameroon.

The U.S. Department of the Interior Office of Natural Resources Revenue published the second U.S. EITI disclosure report in 2016, showing U.S. natural resources revenue data by company for the first time. We continued our participation in this voluntary initiative for the second year in 2016 by providing our data and by participating in the multi-sector U.S. EITI Multi-Stakeholder Group. The data portal can be found at http://useiti.doi.gov/.

We also engaged with other countries where we operate or have interests, where those countries have expressed interest in becoming candidate and eventually compliant countries.
Noble Energy is active and serves on various committees in a number of industry and advocacy associations, including:

- **The American Exploration and Production Council (AXPC)**
  - Board of Directors
  - Chair of EHS Policy and Regulatory Affairs Committee
  - Government Affairs Committee
  - EHS Policy and Regulatory Affairs Committee
  - Water Working Group
  - Various subcommittees

- **International Petroleum Industry Environmental Conservation Association (IPIECA)**
  - Executive Committee
  - Water Working Group and its task forces

- **American Petroleum Institute (API)**
  - Executive Committee
  - Water Working Group
  - Energy Water Initiative
  - Various subcommittees
We support multiple externally developed economic, environmental, and social charters, principles and initiatives. Examples include:

- Universal Declaration of Human Rights
- International Labour Organization’s Declaration of Fundamental Principles and Rights at Work
- CDP climate change program