

Houston Regional Group

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Oil & Gas EIS Project
Mr. Robert Potts
Natural Resources and Planning Team Leader
National Forests and Grasslands in Texas
2221 North Raguet
Lufkin, Texas 75904

Dear Rob,

The Houston Regional Group and Lone Star Chapter of the Sierra Club (Sierra Club) provide this seventh set of comments for scoping for the U.S. Forest Service (FS) oil/gas leasing environmental impact statement (OGLEIS) under the National Environmental Policy Act (NEPA) for the National Forests and Grasslands in Texas (NFGT).

Although the official scoping period is over, the Sierra Club will continue to send the FS documents and articles that relate to the OGLEIS. The Sierra Club has been told in the past that although there is an official scoping comment period, that scoping extends from the beginning of the scoping comment period until the draft EIS is released. There are additional articles that the Sierra Club provides to the FS with this letter.

1. Climate change accelerating, scientists say,", Henry Fountain, New York Times, Houston Chronicle, December 5, 2019.

This article states that climate change is accelerating and its effects are happening quicker than scientists thought. All the more reason for the FS to reduce or eliminate oil/gas exploitation from the NFGT.

2. "Frak to the future: It's looking like 1980s". Erin Douglas, Houston Chronicle, December 6, 2019.

The article notes the economic outlook for a "boom and bust" industry like oil/gas is not good. "Fracking Bust: The Sequel. At least, that's how Greater Houston Partnership's lead economist Patrick Jankowski sees Houston right now. With an oversaturated real estate market, an overbuilt industrial market and a bleak outlook for oil and gas, history may not be repeating itself, but it looks pretty close, Jankowski wrote in his annual economic forecast report for the region."

3. "Crude prices hang in the balance as OPEC meets", Jordan Blum and Sergio Chapa, Houston Chronicle, December 5, 2019.

This article states "The fate of crude oil prices and the health of the U.S. energy sector heading in 2020 may be determined this week in Vienna when OPEC and its allies meet to determine whether to extend or deepen production cuts that have kept the market from crashing ... With crude supplies expected to keep outpacing waning demand growth in the months ahead, inaction from OPEC or even a decision to extend the existing cutbacks could send oil prices plunging toward \$40 a barrel by mid-2020, a level at which few U.S. companies could make money and likely leading to layoffs in Houston and across the industry. With prices stuck in the \$50-to-\$60 range, energy companies already are cutting back and eliminating jobs." "Boom and bust" oil/gas has economic consequences that are also negative, not just positive, and must be revealed in the OGLEIS analysis and EIS.

4. "U.S. hits a milestone as petroleum exporter", Dino Grandoni, Washington Post, Houston Chronicle, December 4, 2019.

This article states that more oil will be on the market. This means the price will be driven down further.

5. "Gas flaring is under fire", Sergio Chapa, Houston Chronicle, December 4, 2019.

This article states that flaring wastes product and money and should not be allowed, in many cases.

The Sierra Club appreciates this opportunity to provide these additional initial scoping comments about the OGLEIS. Thank you.

Sincerely,

Brandt Mannchen

Forest Management Issue Chair Lone Star Chapter of the Sierra Club

Chair, Forestry Subcommittee

Houston Regional Group of the Sierra Club

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BUSINESS

HOUSTON CHRONICLE . FRIDAY, DECEMBER 6, 2019 . SECTION B ★★

● DOW: 27,577.79, up 28.01 (+0.1%) [◆ S&P: 3,117.43, up 4.67 (0.2%)] ● OIL: \$58.43, no change 0.0c (0.0%) [● NATURAL GAS: \$2.427, down 0.028c (-1.21%)

Frack to the future: It's looking like 1980s

Houston's economy following similar pattern to last major oil bust, forecast report suggests

By Erin Douglas

Fracking Bust: The Sequel. At least, that's how Greater Houston Partnership's lead economist Patrick Jankowski sees Houston right now. With an over-saturated real estate market, an overbuilt industrial market and a bleak outlook for oil and gas, history may not be repeating itself, but it looks pretty close, Jankowski but it looks pretty close, Jankowski wrote in his annual economic

forecast report for the region.
"There was a downturn in the '80s, and things got better in '85, and then another downturn in '86," he said. "We had a downturn (in 2016), then 2017, 2018 looked pretty good, and now we're seeing another downturn. It's a very simi-

The good news: Houston's banking sector isn't about to collapse (as it did in the 1980s). And the rest of the nation is doing fine, which is likely to continue to pro-

"The U.S. economy is perform-ing better (right now) than every-one thought it would," Jankowski

The Houston economy will like ly add 42,300 jobs in 2020, ac-cording to the GHP forecast. That would be a slowdown of more

than 22,000 Jobs from what Houston is on track to add by the end of 2019, at 64,400.

Houston's economy is tied to the energy market, and the energy market is not doing so hot. Energy makes up 9 percent of the local economy, and the sector is set to lose a net 4,000 jobs next year, according to Greater Houston Partnerchin's forecast

Wall Street investors have tightened capital spending for explora-tion and production companies, oil prices are stuck between \$50\$60 per barrel (not horrible, but also not enough to make a lot of money), and a slowing global economy has hurt demand for fuel products. Fewer wells are be-ing drilled and the rig count is down to its lowest level since March 2017.

And while the reasons for the bust might be different this time, the way Houston's economy is responding looks eerily similar to how it did more than 30 years ago, Jankowski said.

Economy continues on B7

OPEC seeking to curtail pumping

By Jordan Blum STAFF WRITER

OPEC and its allies are recommending a production cut of an additional 500,000 barrels of crude per day in early 2020 to help head off an oil supply glut, but the plan may not have much of an impact on global markets and prices because the cartel's output already is well below existing quotas

Details of the potential agreement were scarce Thursday after
OPEC canceled a scheduled news conference as a closed session between energy ministers continued late into the evening in Vienna.

The proposed deal, though, likely translates into Saudi Arabia, which has kept is output well below its allowance, maintaining those lower production levels while requiring better compli-ance from frequent quota violators such as Iraq, Nigeria and key OPEC ally Russia

In practice, the 500,000-barrel cutback might equal about a 100,000-barrel reduction from current output levels, energy an-alysts said. The proposal was first confirmed by Russian Energy gy Minister Alexander Novak to reporters after OPEC ministers met prior to the full OPEC meet-

ing Thursday.

The Organization of the Petro leum Exporting Countries and its allies, known collectively as OPEC+, are scaling back production again because of the ongo-ing U.S. shale boom - the U.S. has more than doubled its oil output since 2011 - and a wave of new oil coming online from non-OPEC nations such as Norway,

Brazil, Canada and Guyana. The concern among OPEC+ members - and other producers

Funding the greatest needs as strategy shifts



After 14 years at the helm of United Way of Greater Houston, Anna Babin plans to step down in March to devote more time to her family. The charity plans to emphasize one issue — helping working, low-income families achieve financial stability.

United Way of Greater Houston's CEO talks about the organization's narrowing focus

By Erin Douglas

Amid declining revenues across the nonprofit sector driven by new donor preferences and changing tax incentives, the

The United Way of Greater Houston, which runs the largest 24/7 helpline in the country and provides grants to more than 100 local organizations, is narrowing its focus, attempting to emphasize one issue - helping worktional United Way model

More than \$50 million that Houston area nonprofits receive from the organization is under review as a result. That means that grants that local nonprofits rely on each year may be at risk if their program doesn't meet the United Way's new invest-ment standards.

In the midst of the transition,

OPEC cuts continues on B7

ing, low-income tamilies achieve financial stability — rather than a broad array of Issues in the tradi-

United Way of Greater Houston CEO Anna Babin plans to step United Way continues on B7

Couriers soon may get OK to deliver alcohol

By Paul Takahashi

The Texas Alcoholic Beverage Commission will start issuing new permits later this month allowing third-party couriers such as Favor and Instacart to deliver alcohol to consumers

alcohol to consumers.

"For years, Texans have relied on third-party services to deliver everything from clothing to vehicles," TABC Executive Director Bentley Nettles said in a statement. "Now, at long last, alcohol can be delivered as well."

The consumer delivery per-

The consumer delivery per-mits, which will be issued starting the third week of December, are a result of the passage this year of Senate Bill 1450, which amended the alcoholic beverage



Amazon Fresh has begun delivering alcohol to select customers. Third-party couriers could start to do the same this month.

code to allow third-party compa-nies to deliver alcohol from res-taurants, bars, liquor stores and grocers licensed by the TABC.

Beer and wine must be delivered in their original, sealed con-tainers and must be ordered with food. Customers must be of age and located in an area where li-

quor sales are legal.

Restaurants, bars and retailers
with beer and wine permits as
well as food and beverage certifleates have been able to deliver alcohol to consumers without a

permit since the law went into ef-fect Sept. I. The law expands al-cohol deliveries to third-party delivery companies with a permit.

Several retailers have taken advantage of the new law already. AmazonFresh began delivering beer and wine to select customers, and Walmart followed with beer and wine curbside pickup at 70 Houston-area stores.

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TECHBURGER

T-Mobile's 5G feels just like 4G, but sometimes it's slower and worse

By Dwight Silverman

T-Mobile turned on its 5G network earlier this week in Houston and nationwide: smartphones that support it go on sale Friday. But when early adopters jump onto the network , they're likely to be disappoint-

Tests conducted using a 5Gcapable Androld phone since Monday show both download and upload speeds can be in-consistent – sometimes within matter of a few yards - and sometimes are much slower than what a 4G device gets at

the same spot. When T-Mobile's 5G network is fast, it's not a Jaw-dropping experience. A top T-Mobile engineer said that users can expect about a 20 percent in-

crease over average 4G LTE speeds, and when I saw fast speeds, they matched those expectations. But as a T-Mobile customer with an IPhone ii Pro Max, I sometimes got speeds just as zippy on that 4G device. T-Mobile's 5G network uses

the 600-megahertz spectrum, part of which is also used for its 4G service. That's a frequency that's much lower than that being used by the two biggest carriers in the United States, AT&T and Verizon. They're using a high frequency known as millimeter wave, or mmWave, that's capable of carrying data at much faster

For example, when Verizon demonstrated what they've branded as UltraWideband 5G after turning it on in Houston 5G continues on B7

UNITED WAY From page Ri

down March 3L Babin spoke with the Houston Chronicle about the new strategic vision and the challenges of not only mitigating financial challenges, but growing the organization's services at the

Q: You've been at United Way for 14 years. Why are you

A: As you would expect it's very demanding. My husband's already retired and I want to spend some time with him and my grandchildren. So it is the right time.

Q: United Way has been struggling with declining reve-nues. How have you tried to mitigate the impact to your organization?

A: In our community, 62 percent of our corporate gifts and employee giving comes from the energy sector. We decline when oil prices decline. Over the years it was a higher percentage, but we've worked to diversify our relationships.

We have a relationship with the health care industry, like Memorial Hermann. H-E-B is a \$1.1 million campaign. It's about creating a relationship with those CEOs, but going deeper down into the organization with the

Q: What are some other issues that Houston's United Way has adapted to?

A: You can't talk about that without thinking about the fact that we are in a disaster-prone rea. We have experienced a lot of donor fatteue (for disaster relief) after Harvey. So many people upped their gifts during Harvey, they had nothing in their budget to increase their giving

the next year.

Q: How has the organization changed its donor strategy since you've been there?

A: We have really focused on ar next generation of donors. About five or six years ago, we invested in a 30 and under (program) for young professionals. After a year of volunteering, we asked them to give at a minimum of \$250 a year, and we had over 850 donors. That's been steadily

Q: How did the "Second Century Vision," the new stra-tegic plan, come about?

A: A good board and a good organization will always look at how it can be better. We determined that the needs in the community were going to basically be the same. We see a growing pop-ulation, a growing need for food and shelter. A need for employment, workforce development, quality child care, after school programs, and behavioral and physical health care. We decided that we would focus our attention

O: What are the major goals?

A: It's really focused on a pop-ulation that is most vulnerable. Forty percent of our households uggling to make ends meet How do we best invest in programs to get families on a path-way of financial stability? We really believe that the well-being of Houston is dependent upon the well-being of every person.

O: How is the way in which you're investing donor funds changing?

We're looking at every policy that we have around our investments and what our expectations would be with an agency when they receive United Way dollars. We are going to invest in those programs that align with financial stability.

Let's face it, some programs may not fit as part of our new direction. But we will work on a transition plan on how to taper down investments. It's going to be a difficult thing.

O: Will that coincide with a decrease in the distribution of

A: The prayer is that money grows. It will be taking the same money and redistributing it.,

Q: How did the 211 helpline come into existence and how has it grown?

A: When I arrived in 2005, we were answering 245,000 calls per year, and next year, we will prob-ably answer 1.2 million calls. Demand grew after every hurricane. In 2013, we launched a capital campaign and we built a building to house about 85 full-time individuals to run the 24/7 heloline.

Q: What are you most proud of?

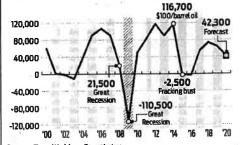
A: I'm most proud of United Way THRIVE. I'm proud that w stepped out of the box to collaborate to create the opportunity for families to achieve financial stability. Every family wants a good job, good wages, financial security, affordable housing and success for their children...

Q: How did you get into this

A: I am from Texas, I really love math and I didn't think I was patient enough to teach. I got an accounting degree and I thought I was going to be a rich CPA. But, I always say, "God has other plans for you." I just fell into nonprofit work and I was able to use my financial experience and my financial background.

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Metro Houston job growth



Sources: Texas Workforce Commission; Greater Houston Partnership

ECONOMY

Prom page Ri

In the aftermath of the 1980s bust, Houston had a glut of office space, an overbuilt industrial mar-ket and a surplus of apartments and ket and a surplus of apartments and single-family homes. While the local single-tainty noises, while the local market may only have a surplus of office space right now, industrial and residential real estate markets will soon be overbuilt if developers don't pull back, jankowski said. Typically, Houston can absorb

partment unit for every six new jobs. But as of early November, 23,000 apartment units were under construction and another 28,000 were in the planning stages. That means Houston would have to create more than 300,000 lobs, or, the number of Jobs the region created in the last six years.

Jankowski said builders may be reading the market wrong. Monthly government employment statistics, based on a limited survey, notoriously overestimate job growth at the regional level during times of expansion. The figures are often re-vised downward in the spring when more data is available.

"If you're basing your decisions on what (the government) is report-ing, and they're over-reporting," jankowski said," you're going to make some bad business deci-

Health care is projected to add the most jobs to the region of any other sector, according to Greater Houston Partnership forecasts. But that growth is slowing. The health care sector added on average 8,500

jobs per year over the last 10 years.

The partnership forecasts the sector will add 7,900 jobs in 2020. A number of factors – health care politics in 2020, pressure from consumers to lower prices and new competition from online health care providers – will contribute to weaker job growth next year, ac-cording to jankowski.

"The health care industry is get-

ting it from both sides," Jankowski said. "The Republicans want to do away with the Affordable Care Act and the Democrats want to totally remake U.S. health care. How do you plan for that?"

Another one of Houston's most important sectors, manufacturing, is set to slow down next year. Mariu-facturers have strusped to recover from the last oil bust in 2015, and the sector was still 21,000 jobs short of its December 2014 peak in October. Since August, the sector has lost

1,800 jobs, and the sector is forecast to create only 1,000 jobs next year.

The U.S.-China trade war has hit manufacturing particularly hard, disrupting supply chains, increas-ing costs and stoking uncertainty among customers. At the same time, the energy sector slowdown is weighing on manufacturers as well, nce more than a quarter of the sector's jobs are fied to oil and gas.

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OPEC CUTS

From page Bu

Crude prices ended the trading day in New York unchanged at \$58.43 barrel, a sign that markets don't yet know how to react, analysts said.

We need details. We need to know who is cutting and by how much," said Matt Reed, vice president of Foreign Reports, a Washington consulting firm focused on Mideast of politics. "To really enhance its credibility, OPEC needs the slackers to step up now

On paper - if the proposal is finalized - OPEC+ would in-crease its existing production cuts of 1.2 million barrels a day to 1.7 million barrels in the first three months of 2020. The group would meet again in March to de-cide what, if any, adjustments are needed.

But Saudi Arabia already is more than 300,000 barrels a day below its quota, and Angola is well below its allowance because of its depleting oilfields. Better compliance from the violating countries essentially would push OPEC+ to the new 500,000-barrel threshold.

"We need details. We need to know who is cutting and by bow much. To really enbance its credibility, OPEC needs the slackers to step up now."

Matt Read, vice president of consultant firm Foreign Reports

OPEC oil production to the tune of an additional 2.25 million barrels per day - more than twice the expected global oil demand growth next year.

The U.S. would account for

less than half the surge, while Norway and Brazil each would add close to 500,000 barrels per

day.
Without additional OPEC cuts, the world again could be awash in oil, causing a collapse in crude prices and a major hit to the Texs energy sector and economy. Even with OPEC+ cutbacks,

supplies still could overwhelm the weaker demand growth forecast for the first half of 2020, energy analysts sald, and push crude prices into the \$40 range.

The world consumes more than 100 million barrels of crude

per day. Saudi Arabia Is seeking market stability and stronger crude pric-es in part because it's finalizing a limited initial public offering for

its available shares at \$25.6 billion, giving Aramco a total valua-tion of \$1.7 trillion.

Another wild card is iraq, which has stated a desire for OPEC to adopt deeper produc-tion cuts, even though it keeps violating its own quotas.

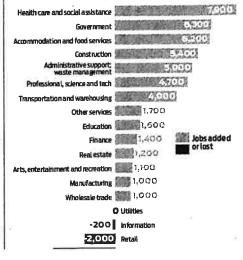
Adding to the uncertainty is a

leadership void in Iraq after the recent resignation of its prime minister amid political unrest and protests.

anwhile, OPEC nations Iran and Venezuela, which are exempted from the quotas, are production decades-low levels because of U.S. sanctions and, in the case of Venezuela, its own geopolitical turmoil and economic free fall.

During the beginning of the Thursday meeting, OPEC Presi-dent Manuel Quevedo of Venezuela criticized the U.S. for its "ne farious" practices of weaponiz-ing oil in the form of sanctions against the socialist nation.

Projected job gains and losses 2020



LIFE TRIBUTES

REGINALD GLENN WELSON

1975-2019



Reginald Glenn Wilson, expired (Thursday) Novemb 28, 2019. Visitation will be held (Saturday) December 7, 2019 from 10-10:55 a.m. Service at 11:00 a.m. Both services will be held at Mt. Vernon B.C., 3618 Stassen St. Rev. Kenneth Rose, of-ficiating. Interment Houston Memorial Gardens.



CEMETERY LOTS

Forest Park Laundale 3 Plets together, w/18z48 placese. 3 Piets \$15,000 713-724-3085 SAM JACINTO CEMETERY re Garden, Lot 343, Space 6, rg \$3,400, Call 214-534-2205

Source: Greater Houston Partnership

5G From page Bi

last month. I saw download speeds of up to 17 glgabit per second. I watched as a 115-minute Netflix movie was downloaded in about 5

But the downside of mmWave 5G is that it can't travel far and is easily blocked. It won't pass through buildings or even dense foliage; even the glass and steel of a moving car is problematic. By contrast, T-Mobile's 600-Mhz network, while nowhere near as fast as its competition's, reaches throu walls and into vehicles. It also travels farther from each transmitter, so T-Mobile can boast about using it to get 5G into rural areas often neglected by carriers.

T-Mobile's proposed merger with Sprint would allow the two carriers to combine their 5G spectrum. Sprint uses frequencles above T-Mobile's and below AT&T and Vertzons in a region known as mid-band. It would give the merged company, which is being called "the New



T-Mobile says its 5G speeds are about 20 percent faster than those of 4G LTE.

T-Mobile," more speed, greater range and better barrier penetration.

When I reviewed Sprint's 5G network shortly after its unveiling in May, I found inconsistent speeds much of the time, but impressive results occasionally. The Sprint 5G signal was not great inside buildings un-less I was close to a window. Upload speeds were awful, mainly because Sprint is still using its 4G network for uploads, and its 4G uploads are notoriously bad in Houston.

Unfortunately, Vertzon would not loan me a device to test its mobile network -I've seen only a brief demo. And despite multiple re-quests, I've not even gotten a demonstration of AT&T's 5G service. (And no, AT&T's "5G E" service doesn't count, it's just LTE with a faster-sounding name.) Here are some highlights

of my tests of T-Mobile's 5G:

 The best download speed I saw was 87 Mbps on Monday evening near the intersection of Welch and Shepherd in the Montrose/

River Oaks area.

• The worst download speed was 3.1 Mbps at the intersection of Spann Drive and San Feline, in River Oaks (and not far from the Welch/Shepherd spot, where I saw the fastest).

. Near the intersection of Interstate 10 and Studemont in the Heights, I got about 30 Mbps download on the 5G phone, but my 4G iPhone got more than triple that with a 92-Mbps result at that location.

• The best upload speed was 51 Mbps at the south west corner of Discovery Green downtown, with decent download speed of 79 Mbps.

 At my desk in the Mighty Houston Chronicle building at the Southwest Freeway and Loop 610, I've averaged around 50 Mbps downloads. On my iPhone, It runs between 30-35

I sent my results to T-Mobile, asking about some of slower instances, and the company responded with this statement:

"In some places, 600 MHz 5G will be a lot faster than LTE. In others, customers won't see as much difference. On average,

customers with a 600 MHz 5G phone should see a 20 percent download speed boost on top of what T-Mobile's LTE network deliv-ers, and with the New T-Mobile they can expect that to get exponentially faster over time, just like we saw when 4G was first introduced."

The smartphone T-Mobile loaned me was the OnePlus 7T Pro 5G McLaren, a \$900 Androld de-vice. It's remarkably fast, with decent cameras and no junkware. It's close to a pure Androld interface, has decent battery life and doesn't seem to get as hot as other SG phones I've tried. I'd buy this phone if I was in the market for a 5G device on T-Mobile's net-

But if you do grab it, or the Samung StO+ Note 5G, which also works on the T-Mobile network, don't expect blazing fast speeds ... or even speeds that are consistently faster than 4G. Those may come with time, but for now, T-Mobile's 5G network still needs some work.

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BUSINESS

HOUSTON CHRONICLE . THURSDAY, DECEMBER 5, 2019 . SECTION B ★★

● DOW: 27,64978, up 146.97 (+0.5%) | ● S&P: 3,11276, up 19.56 (+0.6%) | ● OIL: \$58.43, up \$2.33 (+4.2%) | ● NATURAL GAS: \$2.40, down 4¢ (-1.7%)

Electric era zaps auto workers, industry

80,000 jobs being cut amid upheaval

By Christoph Reuwald. David Welch and Anurag Kotoky BLOOMBERG NEWS

It's turning out to be one of the worst years ever for auto workers across the globe amid shrinking demand and a tectonic shift in vehicle technology, with Daimler and Audi announcing almost 20,000 job cuts in just the past

All told, carmakers are eliminating more than 80,000 Jobs during the coming years, statis-tics compiled by Bloomberg News Indicate.

Although the cuts are concen trated in Germany, the United States and the United Kingdom, faster-growing economies haven't been immune and are seeing automakers scale back operations there.

The German companies joined General Motors Co., Ford Motor Co. and Nissan Motor Co. in massive retrenchments put in motion over the past year. The industry is sputtering as trade tensions and tariffs raise costs and stifle investment, and as manufacturers reas sess their workforce in an era of electrification, autonomous driving and ride-on-demand servic-

The global auto industry will produce 88.8 million cars and light trucks this year, an almost 6 percent drop from a year ago, ac-cording to researcher IHS Markit. German auto industry lobby VDA
predicted Wednesday that the
decline will continue next year,
forecasting global deliveries of
78.9 million vehicles, the lowest
level since 2015.

The pace of Job cuts in the home of Mercedes-Benz, Porsche and BMW is expected to be "more pronounced in 2020," VDA President Bernhard Mattes said at a news conference in Berlin. The technology shift alone is expected to put 70,000 jobs at risk over the next decade

"A fundamental structural change with enormously high investments at a time of deteriorating market dynamics – the ten-sion is being felt at many compa-nies," Mattes said.

Cuts also are being carried out in China, which employs the larg-

Crude prices hang in the balance as OPEC+ meets

Bloc's decision comes as energy sector faces job cuts, stock losses

By Jordan Blum

The fate of crude oil prices and the health of the U.S. energy sector heading in 2020 may be deter-mined this week in Vienna when OPEC and its allies meet to determine whether to extend or deepen production cuts that have kept the market from crashing.
With crude supplies expected

to keep outpacing waning demand growth in the months ahead, inaction from OPEC or even a decision could send oil prices plunging to-ward \$40 a barrel by mid-2020, a level at which few U.S. companies could make money and likely lead-ing to layoffs in Houston and across the industry. With prices stuck in the \$50-to \$60 range, energy companies already are cut-

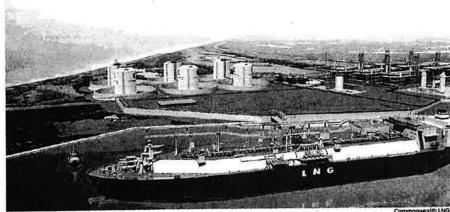
ting back and eliminating jobs.

Some analysts predict that the Organization of the Petroleum Exporting Countries, Russia and othes will agree to cut output beyond the L2 million barrels a day reduction they approved last year and extended in the summer, perhaps by as much as an additional I million barrels a day. But even that might not be enough to offset new production, shrink global supplies and keep prices from diving to \$40 a barrel by spring, said Paul San-key of Mizuho Securities.

And he's not alone in that think-

Even if they layer on additional cuts, it likely won't be enough to stimulate a paradigm shift in the market's view of oversupply," said Ethan Bellamy, an energy analyst at the financial services company Robert W. Baird & Co. "On the other hand, if OPEC undershoots and OPEC+ continues on B8

ENERGY



Houston liquefied natural gas company Commonwealth LNG is seeking permission from the federal government to build an export terminal at the mouth of the Calcasieu Ship Channel along the Gulf of Mexico in southwest Louisiana.

Rare marsh bird may become stumbling block for LNG site

By Sergio Chapa

A rare marsh bird that fits in the palm of the average person's hand may become a stumbling block for a Houston liquefied natural gas company seeking to build an LNG export terminal in southwest Louisi-

In a letter filed with the Federal Energy Regulatory Commission, the Louislana chapter of the Audubon Society wrote that the proposed Commonwealth LNG export terminal could destroy habitat for

the eastern black rall.

Described as "shy and elusive" by the
U.S. Fish & Wildlife Service, the rall is on of 41 species of animals nominated to be added to the federal agency's endangered species list next year. Exact population



The Audubon Society is raising concerns that building a new liquefied natural gas export terminal in Louisiana could destroy habitat of the rail, a shy and elusive marsh bird destined for endangered species list.

Chemical makers launch projects to tackle plastic waste

By Jordan Blum STAFF WRITER

The world's rapidly mounting The world's rapidly mounting plastic waste and the public reaction to its impact on marine and wildlife is challenging the booming petrochemical industry, but the world's biggest energy companies are increasingly stepping up with new projects to take on these challenges.

Royal Dutch Shell, BP and Houston's LyondellBasell have all announced new projects or pilot plants in recent weeks to address

recycling plastics that are the hardest to transform back into re-usable materials. The latest came from Shell, which has begun mak-ling petrochemicals from plastic waste in a process known as charmical recycling.

waste in a process known as chemical recycling.
The Anglo-Dutch energy giant is partnering with Atlanta-based Nexus Fuels to break down hard-to-recycle plastics into a liquid feedstock and then manufacture new high-end petrochemical products. The first feedstock was recently delivered from Nexus to Plastics continues on B6 Plastics continues on B8

recycle plastic waste into liquid feedstock for Royal Dutch Shell to manufacture new plastics.

Nexus Fuels is turning

hard-to-

a place to find your home



713.524.0888 -- 3201 Kirby Drive

713.784.0888 -- 1616 S. Voss, Suite 900

713.864.0888 -- 1801 Heights Blvd.

W 0 0 D

AUTO Prom page Bi

dustry and has been mired in a sales slump. Electric-vehicle startup NIO Inc., which has lost billions of dollars and watched its New York-listed shares plummet, dismissed about 20 percent of its workforce by the end of September, shedding more than 2,000 lohs

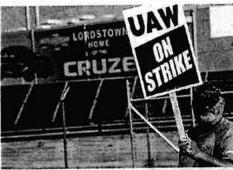
"The persistent slowdown in global markets will continue to dent automak ers' margins and earnings, which have already been hurt by increased R&D spending for autonomous-driving technology," said Gillian Davis, an analyst with Bloomberg Intelligence. "Many automakers are now focused on cost-saving

plans to prevent margin erosion."
Being an early leader in electri-fication hasn't spared Nissan, which has been in turmoil since the arrest of former Chairman

Carlos Ghosn a year ago.
With profits plumbing decade lows, the Japanese automaker is shedding 12,500 positions in the coming years, mostly at factories across the globe, to reduce costs as it rushes to refresh an aging

model lineup.

A redesigned version of the battery-powered Leaf, which debuted later than planned because of the loss of the company's longtime leader, isn't giving the com-



A striking worker in September carries a sign outside of a closed GM plant in Lordstown, Ohio.

pany much of a boost this year.

Factory-floor workers have been rising up against the re-trenching. GM's more than 46,000 U.S. hourly workers staged a 40-day-long strike this fall—the longest against the com-pany in almost half a century— but managed to coax the firm into keeping open only one of the four American factories it made

plans to shutter a year ago. On Nov. 22, about 15,000 people marched in the streets to pro-test job cuts and factory closures in Stuttgart, the German city that's home to the global headquarters of Dalmler, Porsche and

major parts supplier Robert Bosch.

Protesters in the historic downtown square of Schloss-platz wore red scarfs, blew whistes and waved red flags in sup-port of Germany's powerful la-bor union IG Metall, which orga-nized the demonstrations. Top union officials who represent workers at Mercedes-Benz, Audi and many parts makers claim the companies are using the shift to-ward EVs are an army the shift tothrough deeper cuts and boost

"We don't let our jobs be taken away just because some manag-

ers haven't done their home work," Roman Zitzelsberger, the regional head of IG Metall in the state of Baden-Wuerttemberg and the worker representative on Daimler's supervisory board, told the crowd.

The job concerns proved to be ustified. Audi announced a week ater it will eliminate as many as 9,500 positions in Germany through 2025 as parent Volkswagen AG prepares for a costly tran-sition to electric vehicles. Daim-ler announced plans to shed more than 10,000 worldwide.

If it were a country, the auto industry would be the world's sixth-largest economy, according to Fircroft, a technical job-place ment firm. In Germany alone when including local operations of foreign manufacturers, about 150,000 jobs might be at risk in coming years, according to esti-mates by the Center of Automotive Management, near Cologne. The clouds started to form for

U.S. carmakers last year, when Ford revealed plans for a yearslong, \$11 billion restructuring. The company has made a series of piecemeal announcements since then, slashing roughly 10 percent of its global salaried ranks and shutting six plants: three in Russia and one aplece in the U.S., U.K. and France. Of about 17,000 Jobs Ford is elimi-nating, 12,000 will be in Europe. The state of car-factory Jobs in

the U.S. is less clear, mainly thanks to the new contracts De troit-area automakers have been negotiating for the next four

The prospects looked some what bleak for the United Auto Workers union when talks began this summer. With vehicle demand slowing, production shifts mand slowing, production and were being pared back across the country – by Nissan at its truckand-van plant in Mississippi, Flat Chrysler Automobiles NV at its Jeep Cherokee SUV factory in Illinois and Honda at an Ohio plant that mostly makes Accord sedans.

Workers fear plug-in cars, which have fewer parts and re-quire less labor to build, will doom auto iobs.

in the end, the UAW has announced commitments by GM, Ford and Fiat Chrysler to invest almost \$23 billion in U.S. facilities over the course of the next four years, and to add or retain more than 25,000 jobs. While that sounds like a lot, it remains to be seen whether the spending will actually boost production. It costs the companies billions to convert or retool existing factories for them to make new cars and powertrains.

The union also didn't emerge without some bruising losses, with the most notably being its lost battle to save GM's spacious car plant in Lordstown, Ohio.

OPEC+

comes out too dovish, the bottom could drop out of oil quickly."

Output doubles The OPEC+ alliance kicks off its semi-annual meeting Thursday. The cartel has been forced to adopt production cuts to try to off-set the vast amounts of crude flowing from U.S. shale oil fields, particularly the Permian Basin in West Texas, and avoid the price crash of five years ago that led to the worst

oil bust in a generation.
U.S. crude output has more than doubled from 5.7 million bar-rels a day in 201 to a current estimate of 12.8 million barrels daily. Shale production will keep rising albeit at a slower pace - at least through 2020, if not longer, according to U.S. Energy Department forecasts.

And new supplies are coming online from other countries, including Norway, Guyana and Bra-zil. After starting up in October, oil production from the Norwegian North Sea's giant Johan Sverdrup field has risen to nearly 400,000 barrels a day. Exxon Mobil will soon begin producing up to 120,000 barrels of oil per day offshore of Guyana as the tiny South American nation becomes a signif-

lcant oil producer.
All told, the Norwegian consultancy Rystad Energy estimates, global production outside of OPEC will jump by a record 2.25 million barrel of oil per day in 2020, more that double the anticipated growth in worldwide demand. Energy demand has softened with the slowing global economy, adding to fears of another crude oil glut and

The efforts to better balance



When OPEC meets later this week, the question is whether the cartel and its allies will cut production further.

heaviest load of the production cuts and likely will have to do even more going forward. Although its quota is 10.3 million barrels a day, Saudi Arabia has held its production just below 10 million barrels a day for most of this year.

Saudi's new oil minister, Prince Abdulaziz bin Salman, meanwhile, is expected to decry a lack of compliance with agreed-upon production quotos by other coun-

months, according to government

nd industry estimates. The OPEC meetings also coincide with the Saudis launching a limited initial public offering of the massive state energy company, Saudi Aramco. Higher oil prices are desired by the Saudi govern-ment to boost the price of the stock that is going up for sale.

Bleak outlook

expiration date. Such a decision could cause crude prices to fall by 5 percent a month through mid-2020 – a cumulative 30 percent drop that could push oil prices even below \$40 per barrel, ac-

es even below 440 per barrel, ac-cording to Rystad. Rystad estimates the global oil market is on track to be oversup-plied by 800,000 barrels of oil per day in the first half of 2020. So OPEC+ would have to deepen its world consumes more than 100 million barrels of crude per day. "We have a clear message to the

OPEC+ countries: A rollover of the current production agreement is not enough to preserve a balanced market and ensure a stable oil price environment in 2020," said Bjørnar Tonhaugen, Rystad's head of oil market research. "The out-look will be bleak if OPEC+ fails to agree on additional cuts."

PLASTICS

From page Bi

Shell's chemicals plant in Norco.

La. outside of New Orleans.
"We can't always control what
people do with plastics at the end
of their lifetimes, but we are committed to playing our role," said Thomas Casparie, Shell executive vice president of global chemi-

cais.

BP and LyondelBasell, meanwhile, recently announced pilot plants they're building in Illinots and Italy, respectively, to test new recycling technologies. The world produces more than 300 million metric tons of plastic per year, but more than 8 million tons end up in waterways each year and eventually in the ocean. Beached whales have been found with large amounts of plastic in their stomachs. Shell has partnered with tech-

nology companies that specialize in types of chemical recycling. The goal is to create a circular sys-tem in which plastics can be recy-cled again and again. Most tradi-tional mechanical recycling is limited because the plastics can only be recycled so many times after they they're chopped up, melted and shaped back into plastic gran-

"Every time you do it you degrade the quality of the plastics.

Royal Dutch Shall

A truck delivers liquefied plastic feedstock made from waste to Shell's Norco plant in Louisiana.

and you can only do it so much," manufacture like-new plastics. Casparle said.

Market solution?

The newer technology with Nexus uses pyrolysis, a system of rapidly heating the plastic waste without oxygen to "crack" the plastic, liquefy it and transform it into virgin chemical feedstock to

Environmental groups counter that nearly half the plastics manufactured each year are single-use products, such as bottles and packaging, and the focus should be on eliminating most single-use plastics. Of the world's roughly 6.5 billion metric tons of plastic waste, only 9 percent was recv-

cled and 12 percent incinerated. Meanwhile, it's projected that the amount of plastics in the world's oceans could reach 250 million metric tons as soon as 2025.

Shell said its goal is to recycle! million metric tons of plastic waste a year in its chemical plants by 2025. Casparie said that once

enough chemical recycling plants are built, they will create a market for waste plastics that will help keep them out of the environ-

"It is both good for the environ-ment and for our business," he said. "You're creating a demand for plastic waste, and you're cre-ating more incentives to recycle."

The British energy major BP is spending \$25 million on a pilot plant near its refining complex in Illinois to test its new infinia technology to transform plastics that can't now be recycled into new plastic feedstock.

Molecular level

LyondellBasell plans to build a test plant for recycling old plastics on a molecular level. LyondellBasell worked with the Karlsruhe Institute of Technology in Germany to develop the new recycling tech-nology, called MoReTec, which uses a catalyst to break down plastics on the molecular level more quickly and efficiently than traditional chemical recycling technol-

ogies, the company said.

LyondellBasell will build the first small-scale test plant at its campus in Ferrara, Italy, which is home to much of the chemical maker's research and develop-

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U.S. hits a milestone as petroleum exporter

By Dino Grandoni
WASHINGTON POST

After years of relying on other countries for perroleum, the United States just reached a new energy-producing milestone by notching its first month in at least 70 years exporting more crude oil and petroleum products than it imported per day.

During the month of September, the country sent out 89,000 barrels a day more than it brought in, according to new official data from the U.S. Energy Information Administration released over the leng Thankstiving wedered.

long Thanksgiving weekend.
That marks the first full month
the United States has been a net
petroleum exporter since recordkeeping began in 1949. The country, which for years has been on
the path to becoming a net oil exporter, first posted net petroleum
exports on a weeldy basis in December 2018.

cember 2018.

The monthly milestone, fueled by an outpouring of fracked oil,

was unthinkable just more than a decade ago when president after president from Jimmy Carter to Barack Obama spent their State of the Union addresses hammering home the need to wean the United States off of dependence on foreign oil.

States on or dependence or reeign oil.

"This is a very big deal, not just rich in symbolism but marking a major and tangible benefit to the U.S. economy," said Dartiel Yergin, vice chairman of HIS Markit and author of "The Prize," a Pulltzer Prize-winning history of the oil industry.

"It's the end of an era that began with the oil crises of the 1970s," he added, referring to the days of long lines at gas stations when Middle Eastern nations would wield their vast supplies of oil as a political wearon on the world stage.

weapon on the world stage.
President Donald Trump, too,
has touted making America a net
energy producer as a signature
campaign issue. In office, he has
followed through by aggressively
expanding drilling on federally

controlled lands and trimming back safety rules on offshore oil operations in moves cheered by the petroleum industry and condemned by environmentalists.

"We have unleashed a revolution in American energy," Trump sald during his most recent State of the Union speech while touting the old errort numbers.

the oil export numbers.
But the decade long surge in domestic oil production began before Trump took office with a spigot of new oil produced via the hydraulic fracturing, or fracking, of shale deposits in the Permian Basin stretching from Texas to New Mexico and the Bakken formation running from North Dakota to Montana.

"Shale completely turned it around," Yergin said. "The world has never seen growth at this scale this fast. It's almost as though, in number of barrels, that the United States added a second Saudi Arabia within its own borders."

The height of U.S. oil imports came in August 2006, when the United States posted net imports of more than 13 million barrels a day, according to EIA.

Since then, new fracking techniques, coupled with the lifting of a ban on oil exports in 2015 through a compromise between Obama and congressional Republicans, helped vault the United States to its oil-exporting status.

"The rapid rise in U.S. oil production began before President Trump and would very likely have continued even if he had not become president, notwithstanding his aggressive deregulatory efforts," said Jason Bordoff, founding director of Columbia University's Center on Global Energy Policy.

Through its petroleum exports, the United States has been able to take a bite out of its trade deficit with the rest of the world – another Trump campaign promise – even though the overall U.S. deficit ballooned to \$62! billion last year under Trump.

To be clear, the United States is

still far from free of the sway of

global energy markets.
Gulf refineries still rely on the import of foreign heavy crude since they are best suited for converting that type of oil into gasoline, jet fuel and petroleum products.

And one of the average American's main concerns when it comes to energy policy – the price at the pump – is still set by supplyand-demand forces abroad. In fact, a spike in the historically

In fact, a spike in the historically volatile price of crude oil may undermine the economics of producing oil from U.S. shale formations in the first place.

"Shale oil is more sensitive to crude prices than conventional oil production," sald Robert McNally, head of the Rapidan Group, an energy consulting firm, who worked in the George W. Bush White House, "While the economic and security benefits are large and real, being a net exporter does not confer the ability to stabilize oil netees".



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Dia Diem	Dịa Chi Thành	-	Lip Code	Địa Điểm	6828 Annuaciation Street (Fellowship Hall)	Houston	77016-211
osse Ruth Smith Academy	5815 West Little York Road	Heranton		Greater True Light Beptint Church	2005 W W Thome Boulevard	Houston	77073-330
Vestbury Senior High School	11911 Chimney Rock Road (Community Center)	Houston		Nimitz High School	1900 West 34th Street (Room 1203P)	House	77018-618
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entoration Square Full Gospel Baptist Cather	drai 5110 Crace Street	Houston	77026-3908		10410 Clay Road (Social Room)	Houston	77041-875
The Power Center	12401 South Post Oak Read	Houston	77045-2020		770 Pineloch Drive (Gym)	Houston	77062-254
Parkway Place Independent Living	1321 Park Bayou Drive (Independent Living Auditorium)) Houma	77077-1507		12570 Richmond Avenue (Library)	Houston	77082-248
Cate Bell Elementary School	12323 Shaftsbury Drive (PE Room)	House	77031-3123	Saint Lakes Missionary Baptist Church	714 Detering Street (Galilee Room)	Houston	77007-519
Sorean Central Presbyterian Church of Houst	on 14311 Park Row Drive	Houston		Westmide High School	(420) Briar Forest Drive (Library)	Houston	77077-180
Holy Comforter Lutheran Church	1901 Woodland Hills Drive (Gathering Space Lobby)	Kingwood	71339	North Pointe Elementary School	3200 Almond Creek Deve (Gymnasium)	Houston	77059-281
Residence Garage	2347 Underwood Street	Heuston	77062-3422		16850 Middlebrook Drive (Cufeteria)	Houston	77059-470
Clear Lake Precbytesian Church	1511 El Dorsdo Boulevard (Narther: Philadelphia Hall		77069-6009		15500 Vandalia Way (Fallowship Hall)	Houston	77053-212
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Framer Elementary School PISD	10503 Hughes Road (Cafeteria)	Houston	77070-3843		2650 Shadowinian Drive (MultiPurpose Room)		77077-60
	1225 Hargrave Road (Adult Education Building Room 103) Houston	77070-3643	The Forum at Magnerial Woods Multi Parage H	Loom. 777 North Post Oak Road (Large Activity Room	a) Houston	77024-380
Miel Middle School	4415 Cook Roadm (Front Hallway)	Houston	77012-1104	Clear Lake City Church of Christ	938 El Dorado Boulevard (Fellowship Hall)	Houston	77062-402
pdia House	8888 West Bellifort Street	Houston		Holiday Inc Housing Intercontinental	15222 John F Kennedy Boulevard	Houston	77032-230
Mandarin Immersion Magnet School	5445 West Alabama Street (PE Room)	Houston		Clear Lake Intermediate School	15545 El Camino Real (Commons Area)	Houston	77062-579
Paul Revere Middle School	10502 Brian Forest Drive (Library)	Hamble		Clear Lake City Recreation Center Pavilion	16511 Diana Lane (PAV Room)	Houston	77062-579
New Benish E Johnson Elementary School	13901 Homestead Road	Houston		Space Center Intermediate School	17400 Seturn Lane (Smell Gym)	Houston	77058-440
	720 West Tidwell Road (Building A Fellowship Center)	Houston	77042-2999		22311 Provincial Boulevard	Katy	77450-160
Scace Prestyrenies Church	10221 Ella Lee Lane (Molly Ann Smith)	Houston	77007-1408	Bethels Place Community Empowerment Center	12660 Sandpiper Drive (Room 100)	Houston	77035-538
Mount Stati Baptist Charch Family Life Con	er 902 West 8th Street (Gym)	Houston	77077-3036		12900 Almeda Genous Road (Main Room)	Houston	77034-463
Jountry Village Chibbouse	12042 Riverview Drive (Clubbouse)	Houston	77092-6655		2300 Mills Branch Drive (Commons)	Kingwoo	
Weierweight Elementary School	5330 Milwee Street (Cafeteria) 9429 Town Park Drive (Library)	Houston	77036-2315	Willow Creek Elementary School in Humble IS	D 2002 Willow Terrace Drive (Cafeteria)	Humble	77345-178
Margaret Collins Elementary School		Houston	77072-1999		2300 Rodney Street (Fellowship Hall)	Houston	
Chancellor Elementary School	4350 Boose Road (Art Room) 1815 Enclave Perkuray (Main Building Living Room)	Houston	77077-3671		3303 Synott Road (Cafeteria)	Hounton	
Derrytowne Estates	7800 Portal Drive (Gym)	Housen	77071-1700	Liestman Elementary School	7610 Synou Road (Gym)	Houston	77083-519
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Leura Welch Bush Elementary School EV 147Y Alice McKenn Young Neighborhood		Houston	77021	Sunset Shadows Apartments Clubbouse	9850 Meadowglen Lane	Houston	
	2020 Hermann Drive (Assembly Room 1)	Houston	77004-7322	Holmquat Elementary School	15040 Westpark Drive (Masic Room 3121)	Houston	
Indian Robinson Junior Community Center	3225 West Orem Drive (Crossing Life Center)	Нештоо	77045-4603		11825 Teameric Drive (Gyus)	Houston	
The Crossing Community Church	525 Besnington Street (Mini gyro)	Houston	77022-4911	James DeAnda Elementary School	7980 Almeda Genos Road (Room 111)	Houston	
Herrers Elementary School Loss Elementary School	2819 Bay Street (Parents Room)	Houseon	77026-3203		3200 Russell Street (Arts and Crafts Room)	Houston	
Riverwood Middle School	2910 High Valley Drive (Orchestra Room)	Кидиоо	77345-1852	Poe Elementary School	5100 Hazard Street (Main Front Hallway)	Houston	
Benerwood Assembly of God	10611 Fondren Road (Foyer)	Houston	77096-5497	Lakesbore Elementary School	13333 Breakwater Path Drive (Portable Building		77044-137
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Martin Elementary School	11718 Hendon Lane (East hallway)	Houston	77072-3416		8410 Dairy View Lane (Front Hall)	Houston	
Comfort Suites Westchase	2830 Wilcrest Drive (Meeting Room)	Hirostop	77042-3340	Judy Bush Elementary School	9730 Stroud Drive (Library)	Houston	
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HC Public Library Kingwood Branch	4400 Bens View Lane (Meeting Room)	Kingwoo	4 77339-3774		9449 Grant Road (Rooms 114 and 115)	Houston	7734
South Union Church of Christ	7427 Ardinore Street (Classrooms 104 and 105)	Houston	77054-4201	Atascocita Branch Library	19520 Pinehurst Trail Drive (Meeting Room)	Humble	
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Saint George Place Elementary School	5430 Hideleo Street (Library)	Hearton	77056-6211		10851 Scandale Boulevard	Houston	
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Valley Oaks Elementary School	8390 Westview Drive (Library)	Houston	77055-6738		vices 2223 West Loop South Freeway (1st floor Confessor R	rum) Houston	
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Bethany Baptist Church Fellowship Hall	7304 Homestead Road	Houston	77028-3027	HCC West Loop South	5601 West Loop South (Room C108)	Houston	7700
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Creekwood Middle School	3603 West Lake Houston Packway (Choir Room 903)			Neighborhood Cepters Inc Ripley House Campus	4410 Navigation Boulevard (Room 209)	Houston	77011-103
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William Booth Carden Apartments Saint Basil the Great Greek Orthodox Church		Houston		The Orand Tracerry Rotel	12801 Northwest Freeway (The Regimey)	Houston	7704
	1100 Eldridge Perkway (Kostas Hall)	Houston		Moody Park Community Center	3725 Falton Street (Main MultiPurpose Room)	Houston	7700
glesia Episcopal Clurch	9600 Hustington Place Drive 8800 Westplace Drive	Houston		SPIST Lodge Num 88	1435 Beall Street (Annex in back of main building		77008-344
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E-commerce sales spike surpasses an important milestone

CHRIS TOMLINSON



traditional retail industry's Rubi

Just as Julius Caesar's march on Rome established an empire, e-commerce companies have changed retail by selling more goods online this Black Friday than Americans bought in stores, industry data show.

E-commerce rose 19.6 percent on Black Friday to total \$7.4 billion, Adobe Analytics reported. The only two days with higher sales were last year's Cyber Monday, and this year's, which totaled a stunning \$9.4

billion.
The long decline of brick-and-The long decume or lonk-and-mortar stores clearly is acceler-ating. Foot traffic on Black Fri-day fell 6.2 percent this year, ShopperTrack reported. Amer-icans instead bought \$2.9 billion in goods with their mobile phones, a 21 percent increase over Black Friday last year, Ado-

Too many traditional retailers still consider themselves distinct from e-commerce. They spend

their time and money creating beautiful stores with welltrained staff to merchandise select products. They think they sell taste and experience as much as anything else.

More than half of retailers

said they planned to create a unique and immersive shopping experience for their customers, a survey by Adobe showed. Two-thirds of them said loyalty programs are essential.

Investments in experience

and loyalty are smart. And admittedly, forecasts predict that out of the \$730 billion that the National Retail Federation expects Americans to spend this holiday season, only \$170 billion will go to websites. But that ratio Is changing fast.
The good news is that some

retailers have figured out the future of retail is a cyborg.

Last week, consumers re-warded brick-and-mortar store Tomlinson continues on B5

HOUSTON CHRONICLE . WEDNESDAY, DECEMBER 4, 2019 . SECTION B **

● DOW: 27,502.81, down 280.23 (-1.0%) | ● S&P: 3,093.20, down 20.67 (-0.6%) | ● OIL: \$56.32, up 36¢ (+0.6%) | ● NATURAL GAS: \$2.44, up 11¢ (+4.2%)

Perry's role in Ukraine 'scheme' spelled out

House Dems' report says ex-Texas governor knew of and approved actions by Trump

By Benjamin Wermund and James Osborne WASHINGTON BUREAU

WASHINGTON - Rick Perry was one of several senior admin-istration officials who knew about and approved of President Donald Trump's attempt to "use the powers of his office to solicit foreign interference on his be-half in the 2020 election," according to a report by Democrats running an impeachment inquiry into the president.
The report, the culmination of

weeks of public and private hearings by the House Intelligence committee, says the president subverted foreign policy toward Ukraine and undermined national security when he pushed Ukrainian President Volodymyr Zelenskiy to announce investiga-tions into Trump's political rival,

former Vice President Joe Biden. The report also debunks theorles that Ukraine Interfered In



the 2016 election. Trump's so-called scheme was

"undertaken with the knowledge and approval of" senior administration officials, in-

cluding Perry, the former Texas governor who re-cently stepped down as energy shells, the report details Perry's involvement in Trump's effort, which included participating in a sort of diplomatic back channel with Ukraine led by the president's personal attorney, Rudy Giuliani.

The report, largely built off accounts of officials who publicly testified before the committee Percy continues on B5

ENERGY



A flare burns near Mentone. Williams and its unit Mockingbird Midstream Gas Services sued the Railroad Commission over gas flaring by oil companies.

Gas flaring is under fire

Pipeline firm sues state, says oil byproduct should be sold

By Sergio Chapa STAFF WRITER

The controversial oil and natural gas inclustry practice of burning off natural gas product of the dealer of burning off natural gas product of crude oil production is under fire in a lawauit filed by a pipeline company alleging that Texas regulators allowed one of its potential customers to flare natural gas instead of moving it to market and selling it.

it to market and selling it. In a Nov. 20 lawsuit filed before judge Jan Soifer with the 345th State District Court in Austin, Oklahoma pipeline operator Williams and its substidiary Mockingbird Midstream Gas Services sued the Railroad Commission of Texas over the agency's 24 decision on Aug. 6 allowing Dallas oil and natural gas company Exco Resources to burn natural gas produced by 138 wells in the Eagle Ford shale of South Texas.

Williams argues that its natural gas gathering pipelines Flare continues on B3



Environmental groups say natural gas flaring contributes to greenhouse emissions and pollution.

Trade association supports call for taxes on carbon emissions

By James Osborne

WASHINGTON - A leading natural gas trade association came out in support of carbon taxes Tuesday, as the oil and gas industry comes under increasing pressure to better work with government on addressing climate changes

change.
Representing companies including Exxon Mobil, Chevron, CottocoPhillips, Cabot and Southwestern Energy,

Natural Gas Supply Association President Dena Wiggins said member companies were unanimous in their support for taxing carbon endssions and suggested more in companies were likely to follow.

low.

"It's such a huge, important national conversation,
every trade association has to
bethinking about it," she said.
"We're likely not going to be
the leat"

The move follows calls for a Carbon continues on Ba

Poor potato harvest could mean tighter supplies of french fries

By Ashley Robinson

Potato processors are rushing to buy supplies and ship them across North America in order to keep french fries on the menu after cold, wet weather damaged crops in key producers in the U.S. and Canada.

Cool conditions started to hit growing regions in October, lashing potatoes with frost. Farmers in Alberta and idaho were able to dig up some damaged crops for storage. But growers in Manitoba, North Dakota and Minnesota received snow and rain, forcing them to abandon some supplies

As the wild weather hurt crops, an increase in fry-processing capacity in Canada has boosted demand. The combination will lead to tight supplies, and it's likely that potato prices could climb this year across North America, Stephen Nicholson, a senior grains and oilseeds analyst at Rabobank, sald in a phone interview. International costs may also rise as the U.S. won't be able

to export as much

"French fry demand has just been outstanding lately, and so supplies can't meet the demand," Travis Blacker, industryrelations director with the Idaho Potato Commission, said in a phone interview.

phone Interview.

The United Potato Growers of Canada estimates about 12,000 Maniltoba acres, or 18 percent of the province's planted area, were left unharvested – equal to what was abandoned for all of Canada last season. About 6.5 percent of

Potatoes continues on B5



William Isherwood drives a forklift with a pallet of potatoes into the warehouse of Northwest Harvest in Seattle.

FLARE

From page Bi

were already connected to Exco's wells and would have allowed the company to move the gas to mar-ket and sell it instead of burning it off in an industry practice known

as flaring.
"Natural gas flaring has long been recognized as wasteful and environmentally harmful," Williams said in the lawsuit. "The Railroad Commission of Texas is vest-ed with the duty to prevent the

waste of oil and gas."

Natural gas is byproduct of crude oil production, but with gas prices so low, many companies are simply burning it off, rather than paying the costs to transport it.

Exco has been using temporary permission from the Railroad Commission to burn off billions of cubic feet of natural gas from it Ea-gle Ford wells since Dec. 2017.

Costs and capacity

In a filing with the Railroad Commission, Exco contended that it does not have a natural gas gath-ering agreement with Williams and even if it did, the using the system would be too costly and that the network does not have enough canacity to move all of the natural

gas produced by the wells.

"Connecting to Williams' pipe-line would be uneconomic," Exco said in the filing, "and without a flaring exception Exco will have to shut in the IS8 wells which could cause damage to the wells and the reservoir resulting in a waste of hy-

Flaring remains a thorny issue



Gas flares burn in La Salle and Dimmit counties. The Texas Railroad Commission has not denied any of the more than 27,000 requests for flaring permits over the past seven years, a suit says.

for the oil and natural gas industry in Texas where the Norwegian re-search firm Rystad Energy estimates that operators burned 752 million cubic feet of natural gas per day during the third quarter, a double digit in le digit increase from the 650 million cubic feet burned daily during the second quarter.

Selling that gas, instead of burn-ing it, would have prevented the release of millions of pounds of carbon dioxide and other pollut-ants into the atmosphere. It also could generate billions of dollars in revenue and hundreds of millions of dollars of royalties for landowners, the state, county governments and school districts.

Emissions, waste In it's lawsuit, Williams argued that the Railroad Commission has not denied any of the more than 27,000 requests for flaring permits received over the past seven years, a practice that had already sparked the ire of environmentallsts who say the agency is weak on enforcement and is doing nothing

to limit greenhouse gas emissions blamed for climate change.

Environment Texas, an Austinbased environmental group, delivered an open letter to the Railroad Commission on Tuesday asking agency's three elected commissioners to stop issuing flaring permits. Signed by 26 people rang-ing from environmentalists, scienand Native American leaders to Texas State Sen. Jose Rodriguez D-El Paso, and retired Shell Oil Company John Hofmelster, the letter asked the agency to end flaring.

"At current prices, flaring in the Permian Basin burns an excess of \$1.8 million dollars a day worth of natural gas," the letter stated. "Annual waste of gas is sufficient to power 400,000 Texan homes 7 for two and a half years."

No court date has been set. The Railroad Commission said it would not comment on pending litiga-tion. But the Aug. 6 hearing for Exco's flaring permit sparked flerce debate in the all-Republican commission.

Agency's reasoning Commissioners Christi Crad-

Commissioners Christi Craddick and Ryan Sitton voted in favor
of the permit while Chairman
Wayne Christian voting against it.
"Exco can't go out today and
just turn the valve open because
there is no contract in place and
it's not our job," Sitton said during
the meeting. "We don't have regulatory capacity over those con-tracts or signing contracts."

And with natural gas prices stuck near 20-year lows, Christian expressed concerns about the ecoic incentive to burn it off rather than building new pipelines to move it to market and sell it.

"I have some serious concerns about the frequency and ease with which this commission grants flaring exemptions that may not be associated with the drilling of a completed well," Christian said during the meeting.

"The price of gas right now is a lot of incentive to flare out of convenience and economics rather than necessity."

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CARBON

From base Ba

national carbon tax from a munber of individual companies. Exxon Mobil said last year it was put-ting \$1 million into the effort to convince Congress to enact such a law

The Natural Gas Supply Associa-tion said it was not lobbying for any one specific proposal, but broadly supports carbon taxes at the feder al, state and regional level, as long as they also eliminate existing regulations on carbon emissions and deliver revenues not to government but directly to American consumers in form of tax rebates.

But many environmentalists are skeptical of the industry's conver sion, given earlier efforts to under-mine climate scientists and few signs now that oil and gas compa-nies are putting real pressure on Congress to move ahead.

Skeptics demand action

"Actions speak louder than words. If the natural gas industry is words, in the hatta algas into say so truly committed to combating the climate crisis, they'll work with policymakers on the full suite of actions dictated by science," said Matthew Davis, legislative director of the League of Conservation Voters. "The scale of the climate crisis is massive and while putting a price on carbon could play a role in our transition to a clean energy economy, it won't be the only solu-

The move by the Natural Gas Supply Association comes as a number of state regulators are debating how to go about decarbonizing the power grid, including di-rect subsidies for nuclear plants, which have been closing at a fast pace in recent years amid increasing competition from gas and re-newables. At the same time, some cities are weighing bans on natural gas, in a bld to address climate change.

But Wiggins sald that was not why her trade group chose to come out in support of a carbon

"It might [help our image] but that's not why we did it," she said.
"We think it's the right thing to do
and want to be part of the conver-

Impact on oal-fired plants

Carbon taxes would likely be an advantage for natural gas compa-nies, which produce less carbon dioxide than coal or oil. Carbon taxes would likely force more coal plants to shut down, to be replaced by gas-fired plants, wind turbines and solar panels.

Speaking about efforts to ad-dress climate change last year, Pat-rick Pouyanné, CEO of the French energy major Total, said, "There is room for us to have more gas.

"Gas should – should be – it's a drocarbon - it's a hydrocarbon of choice for energy transition because it's more flexible, because there is less emission of CO2 when you make power," he said.

Total is also a member of the

Natural Gas Supply Association Not included in the NGSA's announcement were any mention of other greenhouse gas emissions such as methane, which oil companies routinely flare in lieu of building pipelines and other infrastructure to get natural gas to mar-ket. Methane also escapes from leaks in pipelines.

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Houston Chronicle

THE MOTLEY FOOL

ASK THE POOL **Big bosses**

Q: What are America's

biggest employers?

P.K., West Haven, Conn.
A: The United States federal government em ploys the most people in America. As of 2018, it employed more than 585,000 civilians in the U.S. Postal Service and over 2 million more people in all other agencies, per the president's budget for fiscal year 2020. The military, meanwhile, employed about 1.4 million people in uniform, for a grand gov-ernmental total of more

Lipton, Cheetos, Gatorade, Ruffles, Tostitos, Near East, Naked, Sabra, Smartfood, SodaStream, Ouaker and Life. Fully 22 of my brands generate more than \$1 bil-lion each. Who am !?

Last Week's Trivia Answer: Hudson Group

THE TAKE A smoking dividend

Philip Morris Internation al (NYSE: PM), the world's second-largest publicly traded tobacco company, was spun off from Altria in 2008. While Altria kept the shrinking domestic market, Philip Morris focused on higher-growth foreign mar-

rateSeeker com **Deposit & Loan Guide**

Institution	nt Chking Acct Min	Money Mkt Acd Min	3 mo CD M.n	6 mo CD Min	12 mo CD Min	18 mo CD Min	24 mo CD Min	36 mo CD Min	60 mo CD Min	Phone / Websita
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private employers, Wal-mart leads the pack by far, employing about 2.2 mil-lion people globally, per Fortune 500 data. It's followed in the Fortune 500 by Amazon.com (647,500 total employees), Kroger (453,000), Yum China Holdings (450,000), Home Depot (413,000), Berkshire Hathaway (389,000), IBM (381,100), United Parcel Service (364,575), Target (360,000), FedEx (359,000), UnitedHealth Group (300,000), Wal-greens Boots Alliance (299,000), CVS Health (295,000), Starbucks (291,000) and General Electric (283,000).

FOOLISH TRIVIA Name that company

I trace my roots back to the 1893 creation of a carbonated beverage for a pharmacy's customers. My CEO in the 1950s was mar-ried to Joan Crawford. In 1965 I acquired Frito-Lay. Today I'm a snack and drink glant, with a market value recently topping \$185 billion. People in 200 countries and territories consume my offerings more than a billion times a day. My brands include Doritos, Fritos, Rold Gold, Tropicana, Mountain Dew,

kets. Selling tobacco prod-ucts in more than i80 countries, Philip Morris can count its geographic breadth as an asset. Weakbreatth as an asset. Weak-ness in developed markets is offset by market advan-tages in developing coun-tries, many of which have a burgeoning middle class seelding affordable lumines, such as tobacco. Philip Morris has been able to grow its sales through price hikes, even as cigarette shipping volumes have fallen. The company is looking beyond traditional tobacco offerings, and its IQOS heated-tobacco device has seen its total user count rise from an estimated 7.6 million in the first quarter of 2018 to 12.4 million in the third quarter of 2019. This has fueled a 45.7 percent year-over-year increase in heated-tobacco unit ship-ping volumes through the first nine months of 2019. At a time when investors worry about a possible reces-sion, Philip Morris is wellpositioned for a downturn: Its chief product is addictive, so people will keep buying it regardless of the economy. It also offers investors a hefty dividend which recently yielded 5.6 percent. If you're OK investing in tobacco, give the stock a closer look.

Andrews McMeel

Truetmark Benk	Call for our 3 and 6 Month CD Specials \$5 Million Maximum Deposit								www.trustmark.com	
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TO PARTICIPATE IN THIS FEATURE, CALL BALES DEPARTMENT @ 773-320-8492

SAVINGS UPDATE

Does the amount of my CD deposit affect my rate? By Sabrina Karl

est amount you can invest to open a particular CD. For-tunately for modest savers, many certificates have entry points as low as \$1,000 or \$500. Others even lower the

But that's not always the case. Sometimes depositing ify for a well-paying jumbo certificate, more funds will earn you a better rate, and it happens

If you're getting ready to sock savings away in a certificate of deposit, you may know how much you want to
deposit But as you shop rates, you might discover deposit minimums and rate tiers influencing your decision.
Then there are banks and credit unions that offer CD
posit minimums and rate tiers influencing your decision.
Then there are banks and credit unions that offer CD
posit minimums and rate tiers influencing your decision.
The tiers. Here, for example, you may earn one rate on
deposits up to \$4,999, then a slightly higher rate above
\$5,000, and perhaps a third rate if you deposit \$25,000

These options may lead you to stretch a bit on your de-posit in order to score a higher rate, moving for instance from an initially planned \$20,000 up to \$25,000 to qual-

one of two ways.

It may also impact whether you open one vs. multiple certificates. The strategy of spitting your savings into Some certificates simply have hefty minimum threshorder than one CD — to lessen the penalty hit if you olds, requiring a deposit of \$5,000 or \$10,000. And need to cash out some of your savings early, but not all there are also "jumbo" CDs requiring \$25,000 or even of it — is a smart one. But if it prevents you from earning \$50,000 in a single certificate. These larger CDs aren't a higher rate with a single, larger certificate, you may guaranteed to pay better than lower-minimum options, want to reconsider.

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