

UKMO OILFIELD

Magazine

1st
édition



Conscious Youth Club





Opening word ...

We can't start the opening of this new and fresh magazine "U.K.M.O. Oilfield Magazine" in its first edition without talking about February, 24th which is the day of hydrocarbon nationalization in Algeria. Also we should be proud of Algeria accomplishment in the Oilfield sector.

Since the oil crisis of 1973 all world countries, including developed countries highly dependent of hydrocarbons, have become aware of the consequence of depletion of fossil energy sources and are trying to diversity through scientific research, their sources of renewable energy.

The potential of the Algeria in hydrocarbons can ensure its future needs, but beyond 2040, it will face enormous difficulties to meet its internal needs in this area, hence the need to put in place the mechanisms to ensure a progressive contribution of renewable in the energy economy, and solar origin specifically. It should also be noted the possibility of exploration of shale gas, which the Algeria seems well placed in this fields, provided that they master the techniques of exploitation of this resource and respect the environment. The exploitation of hydrocarbon resources can generate consequences that can harm the environment through waste.



*By Pr. HACINI Messaoud,
The Faculty of Hydrocarbons, renewable energies,
Earth and universe sciences' Dean
Kasdi Merbah University -Ouargla*

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Kasdi Merbah University - ouargla

The excellence is already in the heart of tradition.

27 years of existence, it's so young; especially for a state institution with a scientific cultural and professional character, where the vocation of forming, training and researching shows the extraordinary ambition. 27 years of efforts sustained by institutional willingness.

UKMO offers a lot of training and forming since its opening. Today it has **11** domains, **88** licenses, **89** masters, **28** doctorates.

This university has a great accomplishment, since its creation; it delivered about **4400** diploma transmit by deep conviction for more than **2500** students in its perspective vision. Now it has 11 faculties in different major:

Hydrocarbon, Science and technology, exact science, medical science, economic science, human and social science, languages and literary, law and politic science, sports and physical activities, substance science, biology.

In back, the university wants just a one unique thing: upgrade its place in the world universities.
























UKMO classifying

Congratulations:

Kasdi Merbah University accomplished a lot of things which led it to have a great place in Algerian universities (2nd position) and Arab universities in the (15th place) also.

Arab_world

ranking	World Rank	University	Det.	Country	Presence Rank*	Impact Rank*	Openness Rank*	Excellence Rank*
1	244	King Saud University			141	315	564	397
2	474	Cairo University			760	449	1236	633
3	780	King Abdulaziz University			281	2032	1061	690
4	989	American University of Beirut			1810	2302	602	882
5	1050	American University in Cairo			1182	974	1149	2207
6	1054	King Fahd University of Petroleum & Minerals			1302	2239	1276	893
7	1061	United Arab Emirates University			1516	1539	2304	986
8	1167	Mansoura University			1423	1674	2878	1047
9	1263	University of Jordan			2472	2598	621	1402
10	1284	King Abdullah University of Science & Technology			1928	3158	1813	766
11	1350	University of Baghdad			1038	1515	1131	2697
12	1419	Benha University			2194	1779	1415	2252
13	1448	Alexandria University			1142	3192	2961	996
14	1781	Université Djillali Liabes			8305	1336	4414	1850
15	1798	Université Kasdi Merbah Ouargla			2229	2259	376	3826

Conscious Youth Club



How did you get the idea to create “Conscious Youth” club?

There were no activities in our department so we wanted to make a space for creative student. And for the new students who don't have any orientation, this is where our club comes and introduce them to several activities and help them to devolope their skills.

When did it start?

It's a fresh club; it started officially in February 16, 2015. And we want to pass it to the next generation to continue what we started.

Did you have any obstacles?

Yes, of course. We couldn't find the equipment for this club and the place for workshop...

How many member it has?

We create this club with 4 members from production department, but it's not for us it's for the entire student and we welcome them to join us.

What kind of activities does it offer?

We do sport like football and handball; we're going to have a conference and lectures about oilfield with people from different companies like SONATRACH, ENAFOR and HESP...which will be about February 24th. We're doing a cultural competition and the winner will be announced at the end of the conference.

What are you willing for this club in the future?

I hope it will succeed and make a progress. I want to have more activities and pass it to the next generation. I wish it will be helpful; we're here for you don't hesitate to come.

The networking workshop at Anadarko



INTERVIEW WITH MR. BOUKHALFA SOLIMANE:

How did you get the idea to do this networking workshop?

The Career Center is the bridge between the university and the work place, the idea is to take the student of hydrocarbon to Anadarko to establish that connection and facilitate the contact between student and employers.

How much time did it take to manage that?

It took around one month to complete all the paper work for the University, World Learning, Career Center and Anadarko.

Did you have any obstacles?

Not really, the only challenging thing is that we had to choose only 30 people and most students wanted to go...

What are all the activities that you did?

We did different activities where the student could ask the employers about internships, employability skills... The ultimate purpose is to make people aware about the need of employability skill for the workplace.

How was the networking workshop?

It was fantastic; all the people were speaking in English. Anadarko employees were impressed and invited the same group in April.

Do you want to add something?

Yeah, I wish that more students come and join the Career Center because it's the key of success and help them to get a job and follow their dreams. Also I wish to have other networking workshop with other companies and I thank Anadarko for all the support.

Don't give up

Mohamed El Habib Aroudji is a student in UKMO, He is also an example for hard-working student, he's got such an inspiring story he will give us the details:

Who's Mohamed El Habib Aroudji?

Well, Mohamed Al Habib Aroudji was born on January 29th, 1992 in Brizina, Bayadh, I had my BAC on 2011 in experimental sciences with an average of 14.69, and I'm a 1st year master student.

That's impressive, let's move on your college life, how was your first days in college?

After completing my registrations like every new college student, I had a very big desire to study, because I was dreaming to study in college since I was a little boy, but in the first I had difficulties in getting used to the changes, because it was different from home, by times this problem has gone, but the result of exams was not good like high school, but it was enough to succeed and get my license in production of hydrocarbon.



Now let's talk about hard times, when you knew that you were not on the primary master list, how was your feeling?

It was a huge chock, it meant the end of my studies and dreams, I did blame myself because I wasted a lot of time without studying, it was really hard time I had been through, a lot of sadness and guilt, I can assure you that there was a mistake in my grades .

I can only imagine, but the best part came after, you were in the second list, and you took your chance, what happened after that?

Yes, it was the only chance that I was looking for, I decided to change my study methods, and prove that I have a big potential, hard work was my weapon. Every day, I had the same passion and especially in the last three weeks before exams, with organized methods.

That's gave you the third place, from an expelled to the 3rd place, what does it mean to you?

That means that I deserved this chance, it was a very good result and I was happy with it, my mates was happy for me except the jealous ones LOL, it was a great experience, it means to me a lot really.

What can you say to students who worked very hard but they didn't get good grades?

I can say that success is the result of hardworking, it doesn't matter the early success if comes after it a lot defeats, keep going and be patient and the success will be yours.

Tell us about your hobby or hobbies?

I love Arabic poetry (ALMADRASSA ALJAHILIYA).

Do you want to say a last word?

Well I thank all members of Conscious Youth Club and your magazine which gave me this chance to express myself, I wish to all of you a lot of success in your magazine and your study too, thank you.

Belgacem Haba:

Belgacem is an Algerian electronic researcher; he's in the top 100 productive inventor in the U.S.A. with 45 patents from the beginning of 2014 till august.

In 2012, He was selected one of 100 most innovative scientific in the 40 place. In the same year he had 66 patents in electronics.

This Algerian inventor have 894 patents, and this number will be sooner 900 as some sources said.



How did you get to this level and your life since you left Algeria?

I left Algeria in 1980, the government gave me a scholarship to continue my studies at Stanford University, and I had my majester in physics and majester in materiel science engineering in solar system specialty. I went to IBM laboratory in New York where I worked there for 2 years as a researcher. After that it was time to come back to Algeria because I had electronic experience to pass it. I tried to work there; even it was hard to get a job. I worked at the University of Biskra for 3 month exactly, and I quit it because I hated the routine. The problem is that since I entered to inventions and researches, I fell in love with that.

Japan is the capital of technologies and electronic and a big competitive for the U.S. how was your experience?

I went to Japan, and I had a great experience, it went smoothly for work and inventions, and I adapted to that.

When I came back to California I decided to join a small group who made a little company "a start up".

And now about inventor in itself, how is it done? What the inventor is exactly?

First, you need to look for the needs of society, my part is that someone says to me we need that or we're going on that direction... and I take that perspective and I ask myself what I need to get to that goal, you should go back and look for the physical obstacle and get it done.

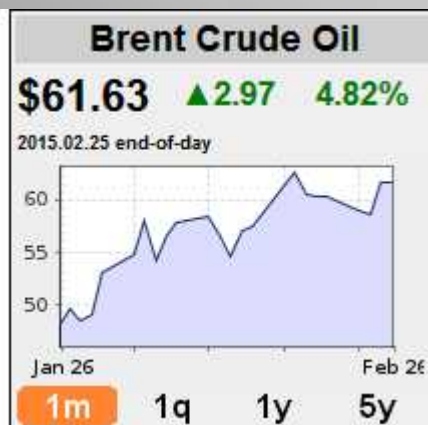
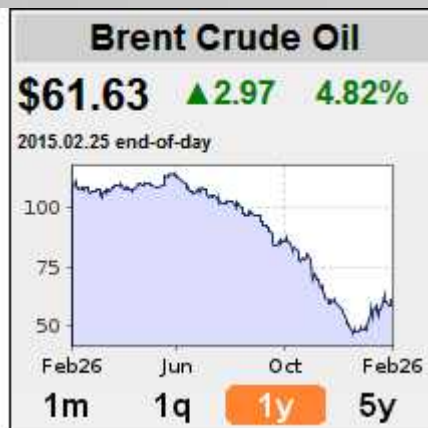
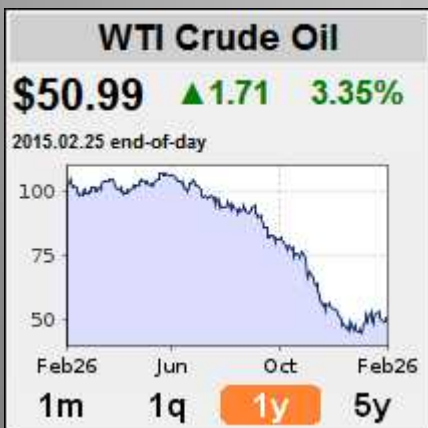
You have a lot of inventions, how can you describe it?

Now I have more than 200 inventions and their application more than 500. I made great points that helped the other to minimize that cell phone volume.

I think you have something to say to the youth, what's your advice?

I tell to all youth to keep their thought in mind and if they have an idea you want to do, even there are problems don't ever give up to that idea.

Crude oil prices



The crude oil prices decreases in the half-end of the year 2014 and the beginning of 2015

After that decrease, oil prices go back to rise again in this last month as it's shown in the graph.

Expert said that the prices continue to rise and other countries may have to change their economic policy to fill that gap of change.

A large offshore oil rig is positioned in the middle of the Mediterranean Sea. The rig is a complex structure with a tall derrick and various platforms. The water is calm, and the sky is clear. In the background, a coastline with some buildings and trees is visible under a clear blue sky.

The offshore in Algeria

Algeria is set to start offshore exploitation by the end of 2014, according to Algerian energy minister Youcef Yousfi, who spoke on the sideline of an energy event held in Hassi Messaoud.

“We expect to start the drilling operations of the first offshore rig in the Mediterranean Sea by (the end of) 2014 (or) early 2015,” the Algerian Press Agency quoted Yousfi as saying. “Once we finalize the ongoing study, we will start the drilling operations.”

The plan is in line with Algiers' policy to diversify its exploration efforts and boost conventional hydrocarbons reserves. While Sonatrach had pledged to drill its first offshore well in 2013, a program is to yet to be drawn up.

The exploration license for the offshore Bejaïa-Annaba perimeter (Blocks 144-A and 145) was granted to Sonatrach in December 2011 by “Agence Nationale pour la Valorisation des Ressources et Hydrocarbures (Alnaft)”. Prospecting activities are also expected in waters adjacent to the Willaya of Jijel, 350 km east of Algiers, and part of the Bejaïa-Annaba perimeter. The overall area of coastal strip to be opened for exploration is estimated at 5,000 km².

In December 2012, Algerian state energy giant Sonatrach awarded a contract to France's CGG-Veritas to carry out the first seismic survey off Algeria's shore. On Sunday, the first offshore drilling contract was awarded to CGC Veritas, Abdelhamid Zerguine said, adding that the French group would also carry out seismic studies.

Sonatrach also said earlier that it would undertake the offshore project alone if it could not find a suitable and experienced partner.

All producing oil and gas fields of Algeria are located onshore, in the south of the country. Algeria has also revealed its ambitions to tackle its unconventional resources, mainly shale gas.



Cover 21

a game for 2 players Need: Counters, Dice

1 player takes turns to cover 2 or 3 numbers that total 21. The numbers can be anywhere on the board. The last player who cover 2 or 3 numbers that total 21 is the winner.

2	16	9	6	8	9
6	11	4	1	13	6
2	12	15	10	5	2
9	18	1	7	5	14
4	3	12	6	9	10
3	9	8	5	7	8
13	8	4	3	11	8
15	1	10	7	17	7

Tic Tac Toe Multiplication 3's Facts



a game for 2 players Use counters in 2 different colors to play.

Take turns to answer a multiplication fact.

If you are correct cover the square with a counter.

The first player to make 4 in a row vertically, horizontally, or diagonally, is the winner.

Try the Variation: The winner is the first player to make a square of 4 small squares.

3×4	8×3	3×3	3×2
3×3	6×3	3×7	3×9
2×3	3×8	3×5	10×3
7×3	3×1	5×9	3×6

10 SCIENTIFIC WAYS TO BE HAPPY





Wherever we keep d money, our son steals it. I don't know what to do about it, where do I Keep the money?

5	3			7			
6			1	9	5		
	9	8					6
8				6			3
4			8		3		1
7				2			6
	6					2	8
			4	1	9		5
				8			7
							9

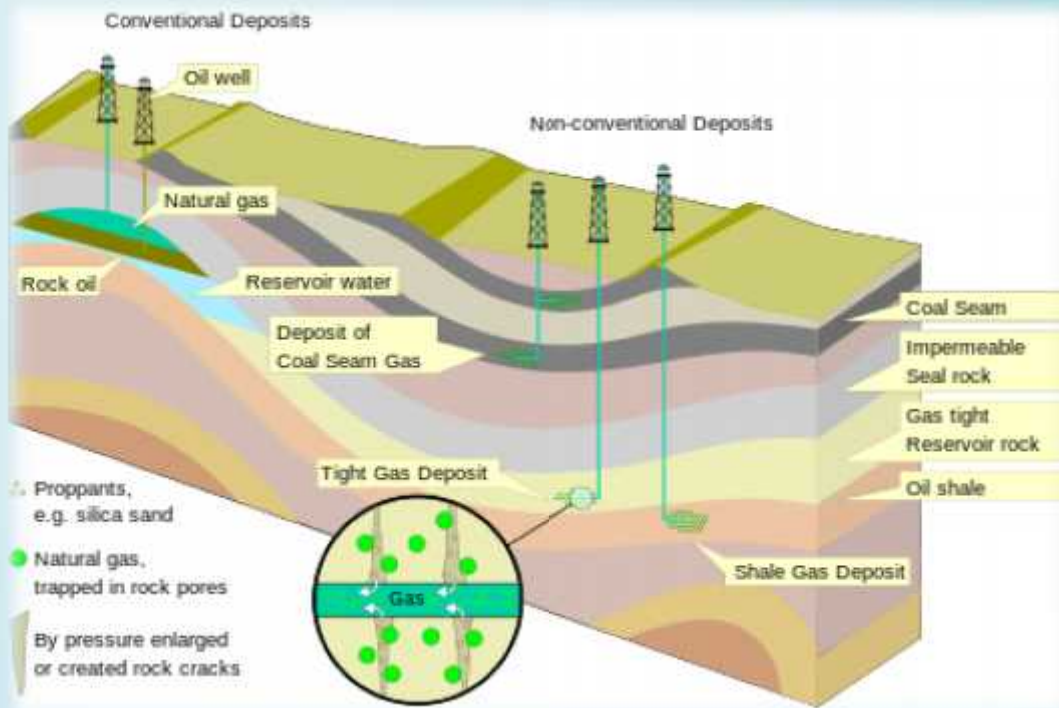
Keep it in his Books.
He Never touches them...



Find the 12 differences



Shale gas?



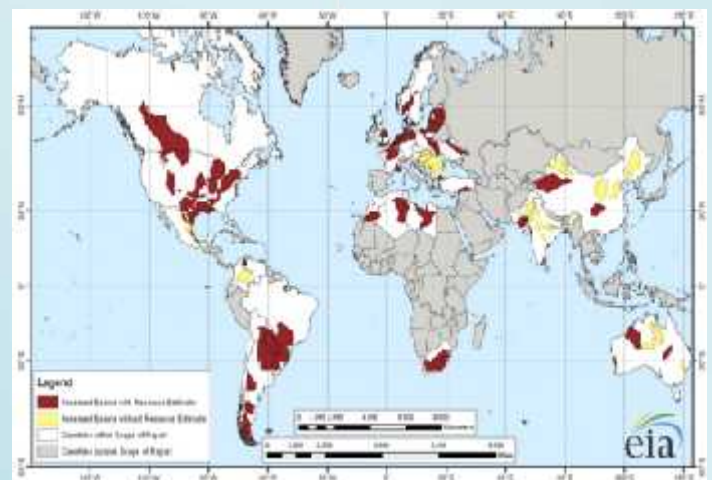
Shale gas is natural gas that is found trapped within shale formations. Some analysts expect that shale gas will greatly expand worldwide energy supply.

Estimated reserves in the world:

	Country	Estimated technically recoverable shale gas (trillion cubic feet)	Proven natural gas reserves of all types (trillion cubic feet)	Date of Report
1	China	1,115	124	2013
2	Argentina	802	12	2013
3	Algeria	707	159	2013
4	United States	665	318	2013
5	Canada	573	68	2013

Shale has low matrix permeability, so gas production in commercial quantities requires fractures to provide permeability. Shale gas has been produced for years from shales with natural fractures; the shale gas boom in recent years has been due to modern technology in hydraulic (fracking) to create extensive artificial fractures around well bores.

Horizontal drilling is often used with shale gas wells, with lateral lengths up to 10,000 feet (3,000 m) within the shale, to create maximum borehole surface area in contact



Algeria: Mixed Shale Signals Highlight Deeper Economic, Political Disarray



Algeria seems unwilling to shelve its shale ambitions. Despite saying shale plans were on hold to 2022, state firm Sonatrach is pressing on with a pilot project. With lower prices and declining output pressuring the economy, contradictory declarations from top officials show a lack of cohesive, long-term vision

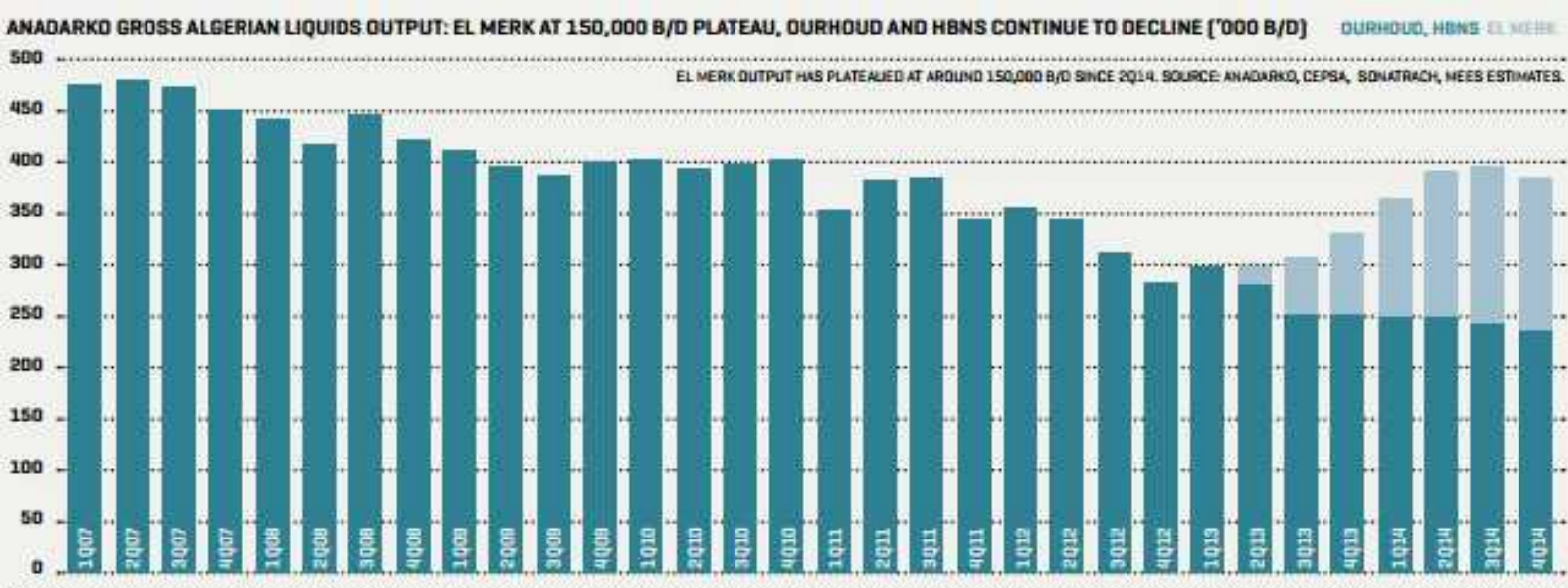
Continuing public demonstrations in the province of In Salah, Algeria's Prime Minister 'Abd al-Malik Sillal on 21 January said shale exploration in Algeria was 'not the order of the day.' The drilling program at In Salah in southwestern Algeria's Ahnet basin would be halted once drilling at a second well is to be completed, he said.

On 9 February, Sonatrach CEO Said Sahnoun told a press conference the company would continue to evaluate the feasibility of exploiting the non-conventional resource, adding more wells were planned. Five wells are expected to be drilled by Sonatrach under its pilot program scheduled for completion in the second half of the year, although the firm itself declined to confirm this. Drilling results from the first well, AHT 1 H2, in the Ahnet Basin were described by Sahnoun as very encouraging, even if not definitive. Drilling at a second well, AHT 1 H1, is due to conclude imminently: "We are about to complete the works, it is a matter of a few days. As soon as we finish the works, the [drilling] equipment will be transported to another [exploration] site," he told state news agency APS on 9 February. Mr Sillal's policy reversal came in response to public protests which started in In Salah province, site of the shale drilling program, in December 2014 before spreading to other cities in the Sahara and in the north, including Algiers, Oran and Bejaia.

Environmental Risks:

Campaigners are calling for a moratorium and a public debate due to concerns over potential groundwater contamination and radioactivity hazard linked to hydraulic fracking. Another concern is the risks associated with the use of fossil water and potential depletion from the aquifers in the Algerian Sahara. However, analysts say shale exploration would involve a marginal amount of water compared to water reserves of more than 30 trillion m³. Current water consumption is estimated at around 2.5 bcm/year. Sonatrach is understood to have started an education program, with the aim of selling shale exploration to the local population.

Observers see limited scope for anti-shale protests in Algeria to turn into mass movements. A nationwide protest is planned on 24 February. Whether this will result in large-scale demonstrations across the country has yet to be seen. "I am sure people in the Sahara will get out massively but I doubt it's going to happen in the North," an Algerian activist said.



Oil Rebounds Above \$59 As Libya's Largest Oilfield Shuts Down

Brent spiked by more than \$1 to approximately \$60/barrel on the last Tuesday following a production stoppage at Libya's Sarir oilfield, the country's largest. A power cut occasioned the shutdown in production, marking a further blow to the north African OPEC producer which depends heavily on oil export revenue. Brent for April delivery was up \$1.10 at \$60/barrel by 1435 GMT, recovering from an earlier low of \$58.10. Meanwhile, WTI was up 60 cents at \$50.05.



Source: Bloomberg

However, analysts cautioned that while falling output from Libya was providing temporary support to prices, rapidly-rising oil inventories in the US still rendered the overall market outlook bearish. A Reuters survey projects that data from the API on Tuesday, and the EIA on Wednesday, will show US crude inventories swelling by 8 million barrels to a record last week. The US production boom has yielded a glut in the oil market. This has been compounded by the largest refinery strike since 1980, now in its fourth week, that has further squeezed demand for crude.

The Sarir field is Libya's largest oilfield. Credit

Analysts at Singapore brokerage Phillip Futures said in a note to clients Tuesday, as reported by Reuters, that "Spreads for crude oil are becoming severely altered by the refinery strikes." They added that the strike had cut demand for WTI and helped widen its discount below Brent. The spread between Brent and WTI was at \$9.73/barrel at 1227 GMT, after seeing \$10.27 on Monday, its widest since March 2014, Reuters reported.

OPEC Contests Reports An Emergency Meeting Being Considered

Late Monday, an OPEC delegate told Bloomberg that the group has no plans to hold an emergency meeting to address the fall in the oil price. Earlier Monday, Nigeria's oil minister and OPEC's president said that OPEC has discussed convening an emergency meeting if the oil price continues its downward trajectory. It is unclear whether the delegate who spoke to Bloomberg was from Saudi Arabia or another OPEC Gulf state, but we see that as very likely. The oil price followed the trajectory of the initial expectation of a meeting, which prompted the price to rise, followed by the delegate's comments to Bloomberg, which prompted it to fall. Brent crude futures fell to \$58.56/barrel by 8:00 a.m. GMT on Tuesday, and US crude returned to \$48.97/barrel after rising above \$50 on Monday afternoon.

After its annual meeting on November 27, in which Saudi Arabia and its Gulf peers maintained the group's 30 M/bd output quota, OPEC said that an emergency session would not be called in Spring. Market analysts who spoke to the FT Monday said it is highly unlikely that Saudi Arabia would agree to such a meeting. And in the final analysis, given that Saudi is the de facto leader of OPEC, it is Saudi's ultimate decision whether or such a meeting would result in any price support action.



OPEC

OPEC may face a few lean years ahead, but BP in the latest edition of its Energy Outlook 2035, says that the producers' group, with its low cost output base will ride out the threat from US shale and ultimately raise its market share.

Surging North American production since early 2012, driven by the US shale and light tight oil boom, threw the 12-member producer

"I'm perplexed by the idea that OPEC has lost its power," BP chief economist Spencer Dale said at the launch of the major's latest long-term oil market outlook on 17 February. "I've read report after report about the impending demise of OPEC, but based on this outlook, my hunch is those reports are greatly exaggerated. OPEC remains a force in the market for the next 20 years."

group's long term role into doubt. Both OPEC and OECD energy watchdog the International Energy Agency (IEA), in their respective monthly oil market commentaries over the past 12 to 18 months, have regularly warned that non-OPEC producers were on course to keep chipping away at OPEC's market share.

The oil major sees OPEC's market share recovering to 40% by 2035 – from around 33% in 2014, according to latest IEA data – following a slump over the coming few years.

US tight oil production growth will begin to slow significantly within the next five years however, as the plays begin to suffer from a combination of high decline rates, and falling well quality. This will leave the door open for OPEC to begin reclaiming some of its lost market share from 2020 onwards, BP says. BP sees global demand for oil, biofuels and other liquids rising by almost 20mn b/d to 111mn b/d by 2035 – growth of 1.3%/year between 2013 and 2020, and 0.7%/year through to 2035. By the end of the forecast period demand for OPEC crude will exceed 2007's record 32mn b/d, BP says.

Mr Birol IEA Executive Director of BP, said/

“The appetite for investment in the Middle East is close to zero, mainly as a result of the unpredictability of the region,”



International news



OIL & GAS

Libya Oil Output 'Almost Impossible'

As IS steps up its activity in Libya with a series of brutal killings, and Egypt responds with air strikes, the country's remaining oil output is hanging by a thread.

OIL & GAS

Cash Crunch Suffocates Iran Oil Sector

Sanctions on exports, and on receiving payments, together with the 50% fall in oil prices, mean Iran is struggling to find the cash for much-needed upstream investment.

OIL & GAS

KRG Slams 'Bankrupt' Baghdad

Erbil will 'for now' honor December's export deal with Baghdad. But, with the KRG claiming Baghdad is failing to transfer its revenue share, the deal looks in trouble.

GEOPOLITICAL RISK

GCC Mulls Yemen Options, Houthis Dig In

The Gulf Arab states are considering imposing economic sanctions against Yemen following the swift power grab of the Arab world's poorest state by Houthi rebels.

CORPORATE

Egypt Eyes IPOs For State Oil Firms

Cairo plans to partially privatize several state-owned oil related firms with the aim of raising operational capital and reducing reliance on state funding.

ECONOMICS & FINANCE

Kuwait Ratifies \$116Bn 2015-19 Plan

Little more than 40% of Kuwait's 2010-14 plan was spent. Implementation needs to be greatly improved if the country is to hit its 4mn b/d oil output target.

I'm just saying!!

I'm just saying that you deserve better than that, are you satisfied about your situation? Doing nothing and just living like a robot , study, eat and sleep , had you ever thought that you can be a genius at doing something ?! A thing that makes you happy, and proud of yourself, yes you do but you don't have the motive yet, may be you will discover it by coincidence, some people say our circumstances don't let us discover our abilities, well that's true but the successful people change their circumstances for their success, look at the most successful people why they are on the top? Because they love what they do, when they wake up every morning the passion guide them to new creative experience and a new success, for example everyone knows Oprah, she had the biggest show in the world, did you know that when she was 13 she was rapped!!! , that chock could make anyone hate life and lock himself away from the rest of the world ,but she didn't and she faced it by helping people whom go through a similar experiences.

Now choose what you want , you want to be a robot doing something you don't want to do or be the new bill gate , and remember I'm just saying !!!

The club and the magazine open the doors for all students and welcome their help and ideas.

