

# البروفيسور رودي بارودي الخبير النفطي

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## New Energy era for Europe “there for the taking”





ATHENS: Offshore gas from the Eastern Mediterranean could usher in a new era of energy independence and economic renaissance for Europe, a regional energy expert told a high-profile industry conference in Athens on Friday.

“Almost instantly, the flow of East Med gas into Europe would mean additional diversification and flexibility of supply, closely followed by enhanced competitiveness for European industry, accelerated economic growth, and dramatic long-term improvements for public finances,” Roudi Baroudi, a veteran of more than 36 years in the oil and gas business, told the Athens Energy Conference.

While “East Med gas would be more of a complement than a competitor to supplies already flowing ... from Russia” and other countries, he explained, other factors were also likely to help Europe diversify its energy supply, putting downward pressure on prices and “reducing the potential impact of possible interruptions elsewhere”.

Baroudi, who currently serves as CEO of Energy and Environment Holding, a Doha-based independent consultancy, has advised governments, companies, and multilateral institutions on energy matters, even helping to craft policy for agencies of the European Union and the United Nations. Speaking on the sidelines of the conference, which drew a broad audience including senior figures from both the public and private sectors, he said the timing “could not be better” for Europe.

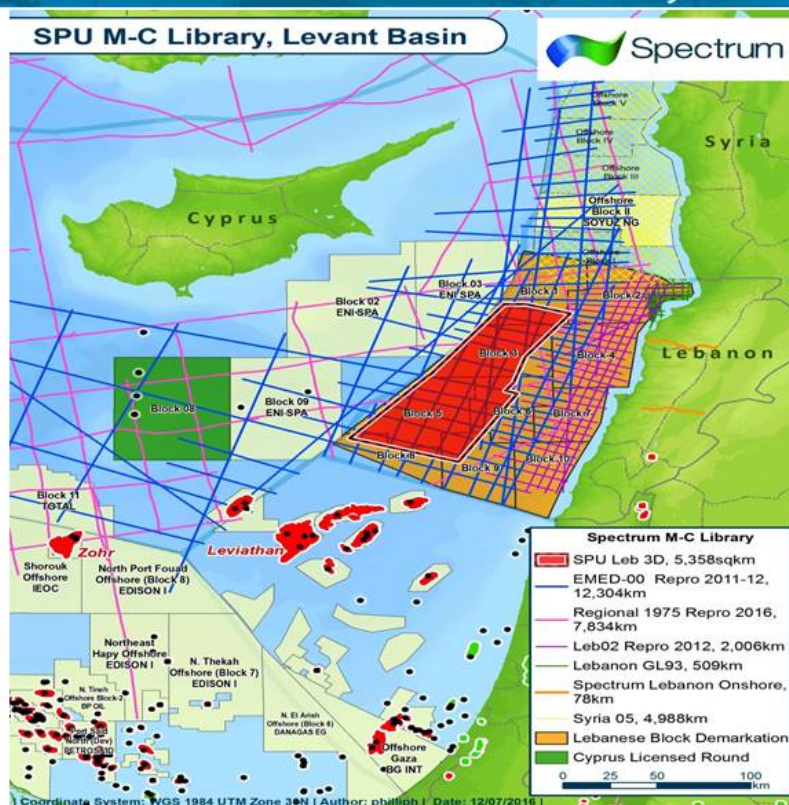
“Shale gas has made America another energy superpower alongside Russia and OPEC, and liquefied natural gas is now a fully fledged global commodity,” he said. “Plus, the East Med producers will be sitting on Europe’s doorstep, and several countries are already gearing up to start taking massive LNG

shipments. Decades of benefits for hundreds of millions of people, all there for the taking.”



# Athens Energy Forum 2018

## Energy Security and Strategic Investments: The Way Forward





# Athens Energy Forum 2018

## Energy Security and Strategic Investments: The Way Forward



Game-changer: "Shale O&G puts America on global energy stage"

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And expected producer countries like Cyprus, Greece, and Lebanon, Baroudi added, stand to gain even more. "For a variety of historical reasons, most of these countries have not yet achieved the levels of development enjoyed in most of the European Union," he told the conference. "Given the potential rewards for their peoples, the governments involved have nothing less than a moral responsibility to take advantage of propitious circumstances by tapping the oil and gas wealth within their respective social, economic, and geopolitical reaches." Baroudi also has emphasized some of East Med countries are not party to UNCLOS but all countries are signatories to the UN Charter. Therefore, Baroudi reminded that all these countries are under an obligation to "settle their international disputes by peaceful means in such a manner that international peace and security, and justice, are not endangered."

He also sounded notes of caution, however. For one thing, he

stressed the need for producer countries to ensure proper management of the proceeds from gas sales to pay social justice. For another, he reinstated on the same countries to avoid international tensions that might impede development of the sector.

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## Gulf crisis and gas: Why Qatar is boosting output



Qatar may be under economic siege but it pulled an ace from up its sleeve on 4 July by announcing that it will bolster liquid natural gas production by some 30 percent.

The move will secure Doha's position for years to come as the world's top exporter of LNG.

Naser Tamimi, a Qatari energy analyst, told MEE: "It is a very significant announcement as it will put huge pressure on the LNG projects underway in countries with higher extraction costs. It is also signals that Qatar is fighting for market share."

The announcement is also seen as a shot across the bows of Saudi Arabia and the UAE, the leads in the embargo, that Qatar

is not buckling under the pressure.

Roudi Baroudi, the chief executive of Energy & Environment Holding, an independent consultancy in Doha, said: "The bottom line is this was a business decision. If politics had an impact, it was in the timing: it's possible that the move was accelerated in order to signal the country's resolve and ensure that if the siege persists, more revenues will be available to help soften the blow."

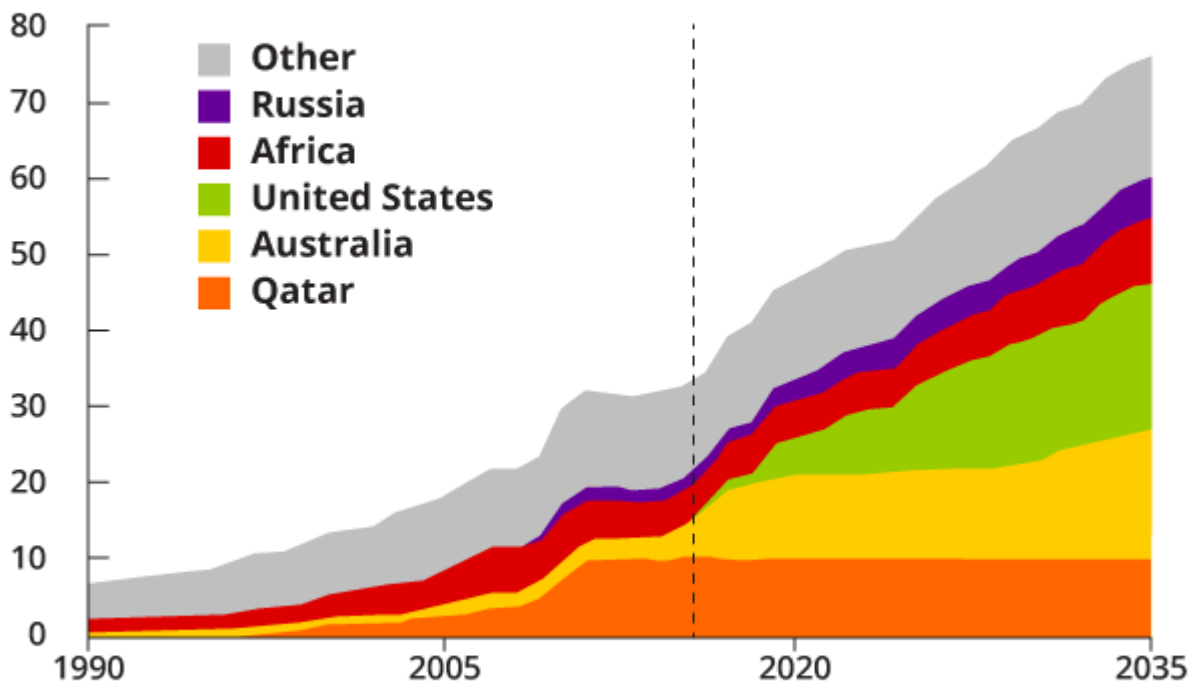
## **The Australia-US-Qatar tussle**

Qatar had indicated earlier this year that it would increase LNG output by 15 million tonnes (MT) but it has more than doubled that figure to 33 MT. It brings annual production up from the current world-record of 77 MT to 100 MT.

Analysts have generally downplayed the timing of the announcement, which coincides with Doha rejecting the demands of Riyadh and its allies.

## Liquid natural gas: Top suppliers 1990 -2035

*Billion cubic feet  
per day*



Source: BP/2017 Energy Outlook



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But the move clearly shows that, at a global level, Qatar wields power when it comes to LNG. Claudio Steuer, director of SyEnergy, a UK-based energy consultancy focused on natural gas and LNG value chains, said: "Qatar's timing is impeccable to exploit the weakness in the current US LNG business model, and pre-empt competition from Russia, Iran, East Africa and East Mediterranean."

Australia is scheduled to become the world's largest LNG supplier during the next two years, but it's anticipated that Qatar will then be back on top by 2022 once new production from its huge offshore North Field begins producing.

The US is also increasing its output and expected to become the world's third-largest LNG exporter by 2020, now that LNG export terminals have come online and the Trump administration

is pushing energy exports.

Qatar's increase will ward off such competition, primarily due to lower extraction costs in the North Field and at its liquefaction facilities, especially when compared with fracking in the US.

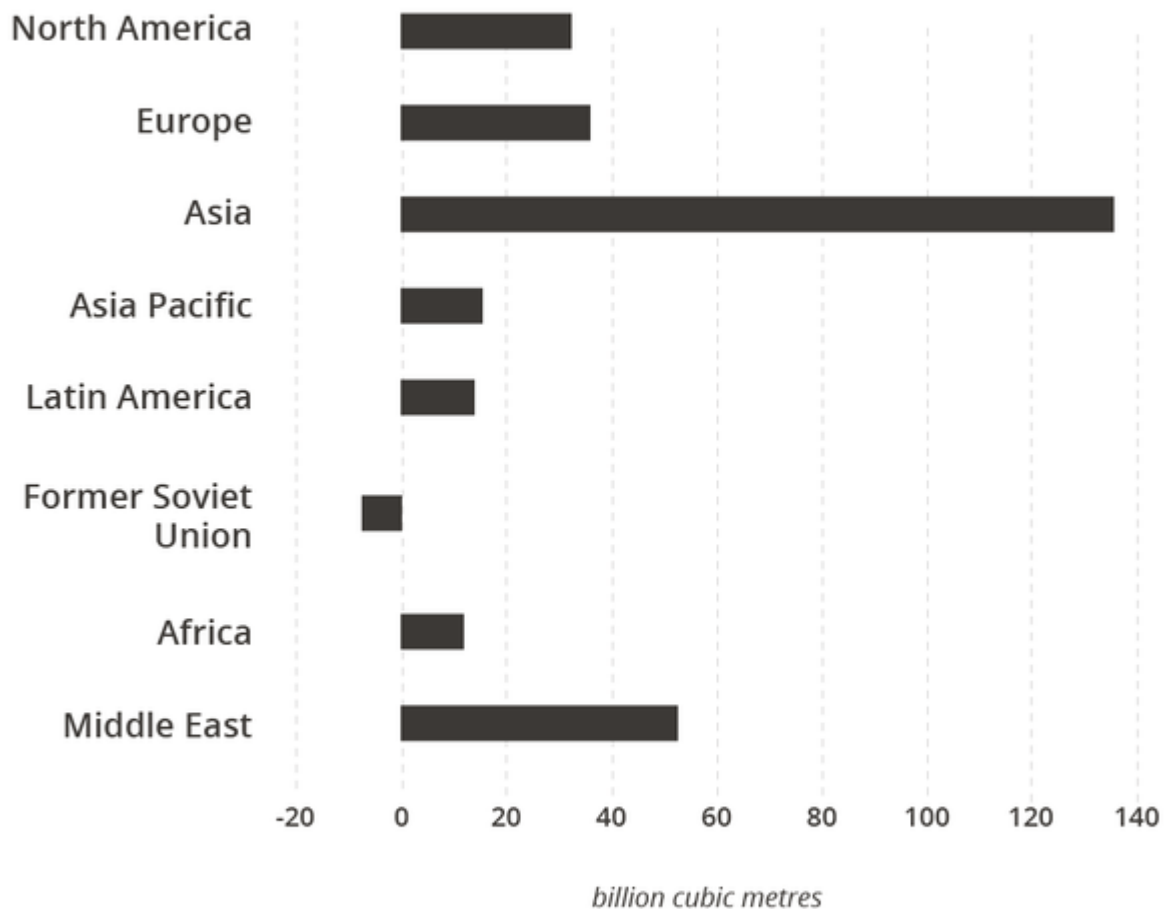
This will enable Doha to gain market share in countries with rising LNG demand, particularly in Asia, currently the destination for two-thirds of its LNG exports.

"Despite the strong US propaganda, the current US LNG projects costs and business model are not competitive in the growing southeast Asian markets," said Steuer.

He said that as things stand, the high costs of American LNG extraction only becomes competitive at oil prices of more than \$60 to \$70 a barrel, which will limit the scale of the expected surge of LNG supplies from the US. By way of comparison, oil prices have ranged from \$40 to \$50 a barrel during the past year.



## Change in worldwide demand, 2015 – 2020



Source: Nexant



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Trevor Sikorski, head of gas and carbon at Energy Aspects, says that US gas producers will need around \$8 to \$8.50 per million British Thermal Unit (BTU) – a standard unit used for gas – to cover their capital expenditure costs and enjoy a return on their investment.

The Qataris, he said, will want a similar figure to cover investment in their new liquefaction trains – the part of an LNG plant which reduces the volume of the gas by chilling it to liquid form.

“But US costs are a dollar or two higher than what Qatar pays. If it’s a race to the bottom on prices, the US will lose.”

## The risks ahead

But Qatar does face one risk: finding long-term buyers of its LNG to secure funding to underwrite the expansion.

Previous LNG projects were greenlit on the expectation of gas prices being double the current \$5 to \$6 per million BTU. Now, they’re struggling.

Qatar has managed to launch out projects, like the RasGas Train 6 – one of 13 liquefaction trains operated by state-owned RasGas and Qatargas – without long-term buyers to guarantee capital expenditures, which eases financing conditions.

Instead it operated on a “merchant basis” that reassures financiers with forecasts of rising demand.

That gamble paid off for Qatar in 2009, when RasGas 6 came online. In 2011 it was given a further boost when it used spare capacity to meet a sudden demand in LNG from Japan after the Fukushima nuclear disaster.

“They’ve taken that risk before and it worked well. If anyone can take that risk it is the Qataris,” said Sikorski.

Riyadh and Abu Dhabi will not be able to use leverage with international oil companies (IOCs) to prevent investment in Qatar. Majors like Royal Dutch Shell, Total and ExxonMobil – already heavily involved in Qatar – have already signalled their neutrality in the GCC crisis.

“I do not see any major show stoppers for Qatar in wanting to ramp up production,” said Steuer, “as all major oil and gas engineering and service providers would welcome the opportunity to secure new business in Qatar.”

The LNG expansion strengthens Qatar's ties with major oil companies while signalling to buyers that Doha can keep taps turned on, despite the crisis.

"Above all else, Qatar Petroleum must be sure it can keep its customers supplied," said Baroudi. "And they're not taking that step alone: they have partnered with some genuine heavyweights of the industry."

## **A blow to Saudi Arabia?**

Opinion is divided as to whether Qatar's announcement raises the regional stakes in the global shift away from oil to gas.

Saudi Arabia and the Emirates, which are not gas exporters, will struggle to match Doha's output.

Shaybah, base for Saudi Aramco's LNG plant and oil production in Saudi Arabia's Empty Quarter in 2016 (AFP)

LNG is considered a cleaner fuel than oil. Major economies such as China, India and South Korea have been moving from coal power plants to gas to reduce pollution.

Steuer said: "As gas is the only fossil fuel with sustainable long-term prospects for the next 25 years, this only reinforces the current tensions involving Saudi Arabia and Qatar.

"As oil demand and prices decline, the economic power is gradually shifting away from oil-rich nations to gas and LNG rich nations. This game changes the balance of political and economic power in the Middle East."

Oil prices are key to balancing the budgets of Saudi Arabia and the UAE. Each needs target prices of \$90 and \$60 per barrel respectively in 2017 to balance the books, according to the Institute of International Finance.

Asia is considered the battleground between Qatar and Saudi Arabia for energy exports.

"I think the Saudis will lose more than the Qataris, as the Qataris depend on gas and condensate more than oil, which is not their main export," said Tamimi. Oil accounts for around 50 percent of Saudi Arabia's GDP and 85 percent of its export earnings, according to OPEC.

In December 2016, Russia overtook Saudi Arabia as the world's largest oil producer. Moscow has also been expanding its market share in China, the world's largest oil importer and third-biggest LNG importer.

"Saudi Arabia used to have 20 percent share of the Chinese market, in 2011, but in the first five months of 2017 it's down to 11 percent," said Tamimi. "It will be difficult or maybe impossible to regain that."

But while Qatar's LNG increase is equivalent to around 10 percent of global LNG capacity, Sikorski thinks it is "a bit of a stretch" to say that gas will replace oil dependency.

"To me this is a case of, 'Look GCC, we [Qatar] are not dependent on you to make our economy work, we can expand our gas exports if you try to squeeze us, and we will continue to make a lot of money on that.' That was the message to me, rather than saying LNG is the future and oil is dead."



Paul Cochrane

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# Gas and the Gulf crisis: How Qatar could gain the upper hand



Asian markets, military allies and a crucial pipeline all offer Doha leverage against its adversaries amid the current crisis

The blockade of Qatar, led by Saudi Arabia and the United Arab Emirates, has already had an economic impact.

Qatar, the world's second largest producer of helium, has stopped production at its two plants as it cannot export gas by land. Qatar Airways can no longer fly to 18 destinations. Qatari banks are feeling the pinch, particularly the Qatar



National Bank (QNB), the region's largest by assets, and Doha Bank: both have extensive networks across countries which are members of the Gulf Cooperation Council (GCC).

Ratings agency Standard & Poor's (S&P) downgraded Qatar's credit rating from AA to A- on 8 June. It could put it on credit watch negative, a sign that the crisis could impact investment and economic growth. Moody's followed suit, placing Qatar's AA long-term foreign and local currency Issuer Default Ratings (IDRs) on rating watch negative.

Doha is unlikely to buckle soon. It has plenty of financial muscle, not least in its sovereign wealth fund, the Qatar Investment Authority (QIA), which holds an estimated \$213.7 billion, according to the Institute of International Finance. The seed capital for that fund comes from Qatar's oil and gas exports.

Energy receipts account for half of Qatar's GDP, 85 percent of its export earnings and 70 percent of its government revenue. The crisis may affect the emirate's medium- to long-term energy contracts, as buyers diversify their imports to be less reliant on Qatari gas.

Roudi Baroudi is CEO of Energy & Environment Holding (EEH), an independent consultancy (the principal holder in EEH is Sheikh Jabor bin Yusef bin Jassim al-Thani, director general of the General Secretariat for Development Planning). He says that when it comes to oil, the advantage is with the Riyadh-led group: Saudi Arabia recently overtook Russia as the world's biggest producer; the UAE is also in the top 10.

"When it comes to gas, however, Qatar holds more and better cards," Baroudi adds.

Doha can use energy as a diplomatic tool to its advantage: how it does this will be crucial as to its attempts to ride out the current storm.

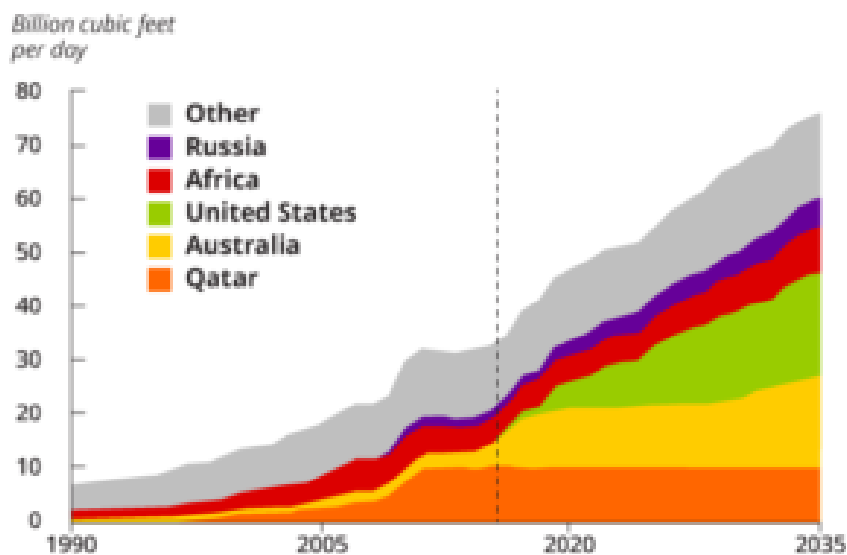
How will Qatar ship its exports?

Qatar is the world's largest liquefied natural gas (LNG) exporter, accounting for nearly one-third of global trade, at 77.8 million tonnes (MT) in 2016, according to the International Gas Union. So far there have been no interruptions to Qatari extraction or exports via the 60-plus LNG carriers that belong to the Qatar Gas Transport Company (Nakilat in Arabic).

But as a result of the crisis, state-owned firms Nakilat, Qatar Petroleum and Industries Qatar have all been downgraded.

Much of Qatar's liquefied natural gas is shipped by tanker. While there have been no reports of oil shipments being interrupted, there is concern about Qatari routes to Asia, the key buyer for the bulk of its oil as well as much of the Gulf's exports.

#### Liquid natural gas: Top suppliers 1990 -2035



Source: BP 2017 Energy Outlook

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Historically, Asian buyers demand a mixture of crude oil from the Gulf: usually the taker would depart the emirate with Qatari oil, then stop to refuel and add Saudi, Emirati and Omani grade crude, usually at UAE ports.

Karim Nassif, associate director at Standard & Poor's in Dubai, says: "If they are not allowed to stop and refuel as some reports suggest, then this could affect the buyers who may be anticipating a variety of crude grades."

The Daily Telegraph reported that two LNG ships bound for the UK were re-routed due to the crisis, but Baroudi says this is not an issue. "If the reports are true, it's just a by-product of how international companies are coping with the Saudi-led embargo by playing it safe."

"Say Company A was planning to deliver LNG from Qatar to the UAE, but the latter now bans Qatari ships from docking and unloading. Company A's response may well be to send an LNG carrier based in a third country to make the delivery instead, then reroute one or more others to make sure all customers are supplied."

Naser Tamimi, an independent Qatari energy expert, says that the same scenario applies to the possibility of Egypt stopping Qatari tankers using the Suez Canal; or raising fees for Qatari vessels. "The Qataris could get around it through tankers registered elsewhere, like the Marshall Islands," says Baroudi, "or divert some of their cargo going to Europe via South Africa."

He says that such moves could add about half a dollar to the cost of each British Thermal Unit (BTU) – but that the Qataris could cope with that, even if they had to absorb the cost instead of the consumer.

Around 70 percent of Qatar's LNG exports are under long-term contracts – typically of around 15 years – so production and payments are secure. The remaining exports are on short-term or spot prices that are dictated by the international markets.

Sources within the shipping industry speculate that some deals may have been called off or delayed: there have been reports from insurance and petrochemical companies that 17 LNG vessels

are now moored off Qatar's Ras Laffan LNG port – a much higher number than the usual six or seven vessels.

Will Asian markets look elsewhere?

The bulk of Qatar's LNG is destined for east Asia – and analysts say that that is unlikely to end soon.

Theodore Karasik, senior adviser at Washington-based consultancy Gulf State Analytics, says: "Qatari LNG is not affected by the sanctions and blockades, simply because GCC states require good relations with east Asian partners."

He said that if Saudi Arabia and UAE were to interrupt LNG exports to Asia, then those customers may not want to invest in the programmes intended to transform the economies of the UAE or Saudi Arabia, such as the 2030 Visions strategies.

His opinion is echoed by Baroudi. "The Asian markets aren't going anywhere. Asian countries need – and know they need – long-term relations with stable producers, and by this measure Qatar is in a class by itself. The same applies for consumer nations elsewhere, so even if the crisis were to escalate, and right now it appears to be settling down, then any interruption would be a short-term phenomenon.

"Qatari LNG simply cannot be replaced. Australia [LNG] will begin to have an impact on international markets by the end of the decade, but that just means an added degree of market competition, not replacement."

But Tamimi thinks the crisis could prompt Asian buyers to diversify their energy portfolios and lessen their dependency on Qatari gas. "They are under pressure now, and in a global context with an LNG glut," he says.

"All Qatar customers are asking for better deals, and Qatar's market share is decreasing compared to 2013 because of competition from Australia, Indonesia and also Malaysia. The

crisis is a reminder to everyone in Asia that the Middle East is not stable, that everything could change within days.”

Will Qatar shut down a key pipeline?

One scenario that would deepen the crisis still further is a lockdown of the Dolphin gas pipeline, which runs between Qatar and some of its fiercest critics.

While two-thirds of Qatari LNG is bound for Asia and Europe, around 10 percent is destined for the Middle East. Two export markets, Kuwait and Turkey, are secure due to better political relations.

But the other two – Egypt and the UAE – are among those nations currently blockading Qatar. If Riyadh and the UAE raise the ante, then it might raise questions about the pipeline’s future.

Egypt gets two-thirds of its gas needs, some 4.4 MT in 2016, from Qatar on short-term and spot prices. Cairo is firmly in the Saudi camp – but has not halted gas shipments.

Baroudi says: “Since the crisis erupted, Egypt has continued to accept shipments of Qatari gas on vessels flying other flags. The 300,000 Egyptians who live and work in Qatar have carried on as before.

“Neither country wants to burn its bridges for no good reason,” he says, “especially Egypt, which only recently staved off bankruptcy because of Qatari financial largesse,” a reference to the \$6 billion Qatar provided in the wake of the 2011 Egyptian uprising.

But it is the Dolphin pipeline, which carries Qatari gas to the UAE and Oman, that is the most contentious issue. The UAE imports 17.7 billion cubic metres (BCM) of natural gas from Qatar, according to the BP Statistical Review 2016, equivalent to more than a quarter of the UAE’s gas supply.



Nassif says: "The Qataris have indicated that the supply of gas through Dolphin to the UAE and Oman will continue. We have no concerns at present of any armageddon scenario of Qatar changing its stance on this."

Either side would lose significantly if the gas was stopped, especially during the summer when power generation is at its peak to keep the air conditioning on. Halting supply would be the Gulf equivalent of Russia turning off the gas to Ukraine in January 2009.

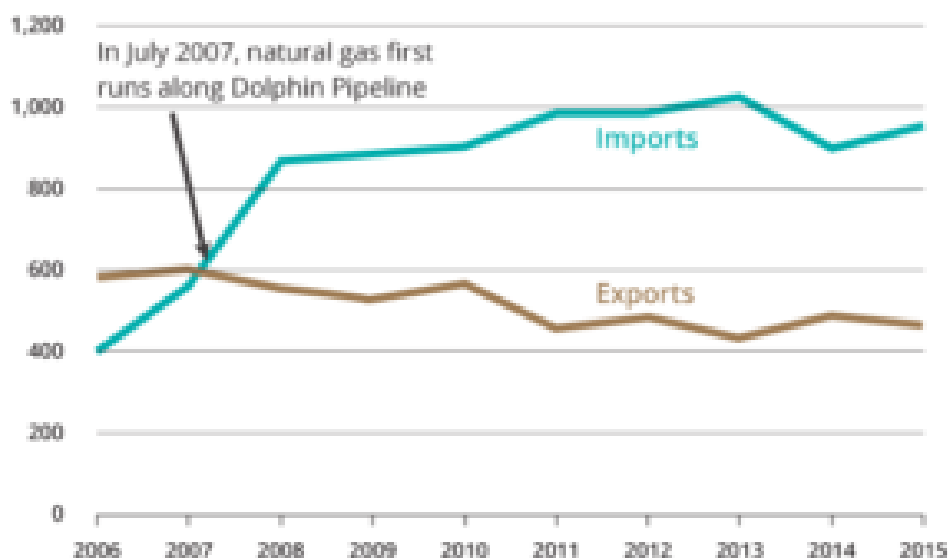
"The UAE would immediately face extensive blackouts without it," says Baroudi. "They would be shooting themselves in the foot if they were to interfere with gas shipments, and Qatar views the pipeline as a permanent fixture, not something to be manipulated for the sake of short-term political gain."

"As a result, neither side has any interest in changing the status quo – and neither has communicated any consideration of such a step."

Analysts say that both sides have contingency plans should the Dolphin pipeline shut down – but, says Tamimi, the UAE will find it hard to compensate for the loss of Qatari gas.

## United Arab Emirates natural gas imports and exports

*Billion cubic feet*



Source: OPEC Annual Statistics Bulletin 2016

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“They’ll have to import LNG as no one can send it by pipeline. That will cost three times the price they’re getting from the Qataris. There is no official price but it is estimated at \$1.6 to \$1.7 per BTU, so around \$1.1 billion [in total].

“If the UAE wants to stop the Qatari imports, they’d have to pay three times that amount at the current price as LNG is linked to the price of oil.”

A stoppage on either side would also violate bilateral agreements. “If the UAE violates it, the Qataris can sue them and vice versa. If the Qataris do it, it would also send a bad message to their customers, to use gas for political reasons.”

Such a move by Qatar would also undermine its strategy of saying it has been unfairly treated by the GCC and is abiding commercial contracts – unlike the UAE and Saudi Arabia, as Qatar Airways CEO Akbar Al-Baker told the press.

Will there be a land grab by Saudi?

Analysts have not ruled out further sanctions by the UAE and

Saudi amid the current crisis. Any move on blocking energy exports, including the Dolphin pipeline, would be viewed as a serious escalation by Doha as it would cripple its economy.

One hypothetical scenario being actively debated at a political level, according to analysts, is an all-encompassing blockade of Qatar as part of Riyadh's and the UAE's plans to re-organise the Gulf Cooperation Council – and, unless there is a change of regime in Doha, kick out Qatar (let's call it a "Qatexit").

An extension of this scenario is an outright land grab by Saudi Arabia of Qatar's energy assets. These would then fund Deputy Crown Prince Mohammed bin Salman's Vision 2030 strategy to diversify the kingdom's economy.

Karasik says: "Arguably the national transformation plan and Vision 2030 may not be going so well. In addition the (\$2 trillion) Saudi Aramco IPO may not achieve its fully stated value. If this is the case, then Saudi is going to need an injection of wealth and will have to do it fast.

"In other words, Riyadh may look for a piggy bank to rob."

Such a move by Riyadh would be armageddon for the Qatari royal family. The emir of Qatar would be forced to stand down – as Emirati real estate mogul and media pundit Khalaf al-Habtoor has suggested – or Riyadh could take control of the kingdom.

Baroudi believes that the crisis is settling down and will soon be resolved. Other analysts have pointed to the recent \$12 billion US fighter jet deal with Qatar, indicating that Riyadh and the UAE will not get their way. The Al-Udeid US air base, which is the headquarters of Central Command, covers 20 countries in the region.

Turkish troops, who arrived in Qatar for training exercises this week, could also help turn the heat down, now that the two countries have signed a defence pact. Ankara has the

region's largest standing army, with its presence near the Saudi border (Qatar's only land border) considered a deterrent.

But other analysts see no sign of tension ebbing soon. They flag how the descendants of Ibn Abd al-Wahhab – the founding father of Wahhabism, both Saudi and Qatar's dominant theology – have distanced themselves from the emirate's ruling family, undermining its legitimacy. The rhetoric against Qatar from Riyadh and the UAE continues unabated. Last week, the UAE called on the US to move the Al Udeid air base out of Qatar.

"There are no more black swans in our world," says Karasik. "This idea [of a land grab] is something people are starting to talk about."

The views expressed in this article belong to the author and do not necessarily reflect the editorial policy of Middle East Eye.

***Paul Cochrane***

***Tuesday 20 June 2017 07:49 UTC***

***Middle East EYE***

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**Energy and Environmental  
Economist, Roudi Baroudi  
joins Power House Energy  
Advisory Panel**



PowerHouse Energy Group Plc (AIM: PHE), the company focused on ultra high temperature gasification waste to energy systems, and the creation of Distributed Modular Gasification© (“DMG”), are delighted to announce the appointment of Roudi Baroudi to its recently established Advisory Panel.

Roudi is a global energy expert with over 37 years experience of international public and private companies across oil & gas, petrochemicals, power, energy-sector reform, energy security, carbon trading mechanisms and infrastructure. In addition, he is currently a member of the United Nations Economic Commission for Europe’s Group of Experts of Gas – this is a body established to facilitate dialogue on promoting safe, clean and sustainable solutions for natural gas production.

With a wealth of international experience he has worked on project and program development with the World Bank, the IMF, the European Commission USAID and the Arab Fund for Economic and Social Development. Mr Baroudi is a regular lecturer on global energy affairs and is also the author and co-author of a number of books, article studies and research reports on political, economic and climate change as well as other energy associated matters.



It should be noted that none of the Advisory Panelists are Directors of the Company, and while management, and the Board, will seek their counsel on particular matters pertaining to their individual expertise, the governance and decision making authority for the Company rests solely with the Board of Directors.

Keith Allaun, Executive Chairman of PowerHouse, said: "I believe it is a very strong validation of PowerHouse's potential that we are able to attract someone of the calibre of Roudi to assist the Company.

"The tremendous advantages afforded the Company by such an experienced Advisory Panel cannot be overstated and we are very pleased to welcome Roudi to the team. The members of this panel, investing their time and commitment to our success, will help the Company achieve its commercial goals in segments of the market, and geographies, in which we are well suited to operate.

"I am honoured that each of these industry luminaries has agreed to serve our objective of ubiquitous DMG. With their assistance, we believe PowerHouse and DMG have a very bright future."

Further information on Roudi Baroudi

Roudi Baroudi has more than 37 years of international public-and private-sector experience in the fields of oil and gas, petrochemicals, power, energy-sector reform, energy security, environment, carbon-trading mechanisms, privatization and infrastructure.

Mr. Baroudi's transactional practice began when he joined an energy firm in Pittsburgh, Pennsylvania, U.S.A., in 1978. His practice relates principally to the energy, high technology, renewable and green electricity, and life sciences sectors of the economy, and involves contract and legal negotiations and

investment vehicles, business combinations, divestitures and operations, as well as various forms of corporate and government finance.

His international experience includes project and program development with the World Bank, the IMF, the European Commission, state-to-state protocols, USAID, the Arab Fund for Economic and Social Development, and Italian Bilateral Protocols, as well as multilateral agency financing in the United States, the Middle East, Central Asia, Japan and Europe, many of which have involved negotiations between and among private and publicly owned concerns and national governments or state enterprises.

Mr. Baroudi has helped to formulate energy and environment policies in the Euro Mediterranean and North Africa region and for the Middle East area. He participated in the preparations of the Euro-Med Energy Free Trade Zone, and in the Euro-Med Regional and Euro-Med Government negotiations. He also has had a

role in energy and transportation policies, advising both the European Commission and its Mediterranean partners between the Barcelona and Trieste Declarations of 1995-1996 and 2004. In addition, Mr. Baroudi was a founding member of the Rome Euro-Mediterranean Energy Platform (REMEP).

In particular, his work and research on integration have focused on energy and transportation networks and related projects, including natural gas and electricity rings affecting both EU and non-EU member states bordering the Mediterranean. His expertise is regularly sought by the United Nations Economic

Commission for Europe (UNECE), which invites him to participate in the expert working party on topics such as gas savings, underground gas storage, and sustainable energy development.

Mr. Baroudi has done extensive work in energy, security and

economic development, industrial programs which have helped bring about energy and economic advances related to private sector power development, electricity market unbundling, gas market reform, political reform and deregulation. He also has done extensive work on international oil and gas ventures, including petroleum development and exploration, as well as government legislation.

Mr. Baroudi has held a variety of influential positions. In 1999, he was elected secretary general of the World Energy Council – Lebanon Member Committee, a position he held until January 2013. He is also a member of the Association Française des Techniciens et Professionnels du Pétrole (French Association of Petroleum Professionals and Technical Experts). Mr. Baroudi is a former senior adviser to the Arab Electricity Regulatory Forum (AREF), a member of the Energy Institute, (UK), and a member of the International Association for Energy Economics (IAEE) in the U.S.A. Mr. Baroudi also serves on several boards of directors of different companies and international joint ventures.

Mr. Baroudi is the author or co-author of numerous books, articles, studies, and research reports on political, economic, climate change and other matters associated with energy. His insights on these and related issues are frequently sought by local and international companies, governments, media and television outlets. He is also a regular lecturer on global energy and transportation affairs.

In addition to the foregoing, Mr. Baroudi is currently a member of the United Nations Economic Commission for Europe's Group of Experts of Gas, a body established to facilitate multi-stakeholder dialogue on promoting safe, clean, and sustainable solutions for the production, distribution and consumption of natural gas in the world's single-largest energy market.

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#### About PowerHouse Energy

PowerHouse is the holding company of the G3-UHt Ultra High Temperature Gasification Waste-to-Energy system, and the creator of Distributed Modular Gasification© ("DMG")

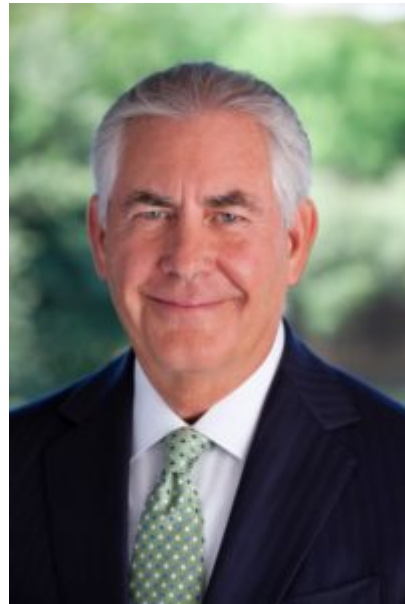
The Company is focused on technologies to enable energy recovery from municipal waste streams that would otherwise be directed to landfills and incinerators; or from renewable and alternative fuels such as biomass, tyres, and plastics to create syngas for power generation, high-quality hydrogen, or potentially reformed into liquid fuels for transportation. DMG allows for easy, economical, deployment and scaling of an environmentally sound solution to the growing challenges of waste elimination, electricity demand, and distributed hydrogen production.

PowerHouse is quoted on the London Stock Exchange's AIM Market. The Company is incorporated in the United Kingdom.

For more information see [www.powerhouseenergy.net](http://www.powerhouseenergy.net)

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# Così Cipro unita aiuterebbe tutto il Mediterraneo







**il Giornale.it** **mondo**

Uno dei fattori chiave che hanno permesso a Donald Trump di vincere a novembre è stata l'enorme voglia di cambiare la politica interna.

Eppure la sua presidenza può offrire enormi opportunità anche per quanto riguarda la politica estera e Cipro, insieme al resto dei Paesi dell'Est Mediterraneo, potrebbero così essere tra i primi beneficiari della politica estera di Trump.

L'isola è divisa dal 1974, nonostante i vari tentativi di riunificazione. Trump non è il primo presidente a seminare speranze per Cipro unita, ma questa volta, dopo molti anni, ci sono seri motivi di credere che un accordo totale ed equo è possibile.

Prima di tutto la figura di Trump. È la prima volta che nella storia americana sale alla Casa Bianca qualcuno di così fondamentalmente diverso rispetto ai suoi predecessori. Molti studiosi si sono focalizzati sulle ripercussioni negative che la politica di Trump porterebbe, ma allo stesso modo sono in vista cambiamenti positivi.

Inoltre, a pesare in senso positivo, c'è la nomina del segretario di Stato. Benché Rex Tillerson abbia una scarsa esperienza nel governo, ha lavorato per dieci anni alla ExxonMobil, una compagnia con 75mila dipendenti, che opera in duecento Paesi. Prima ancora ha personalmente seguito e guidato il processo attraverso cui ExxonMobil ha raggiunto la sua invidiabile posizione in Russia, il più grande produttore di energia del mondo. Insomma, un curriculum che la dice lunga sulle sue capacità.

E non da ultimo c'è la tempistica. Cipro sta costruendo molto rapidamente il suo polo energetico regionale per l'est Mediterraneo. Dalle recenti attività di esplorazioni è stata confermata la presenza di depositi di gas naturale.

Questo sviluppo energetico di Cipro potrebbe essere un perno di vitale importanza, primo per la sua posizione geografica, insieme alla sua posizione geostrategica, e per il fatto di essere membro dell'Unione Europea e, non da ultimo, per lo sviluppo industriale della regione.

Molti protagonisti si sono già messi in gioco, incluso la ExxonMobil che, insieme al Qatar Petroleum, il più grande produttore di gas naturale, si è assicurata i diritti di esplorazione del Blocco 10 del Cyprus Exclusive Economic Zone. In campo c'è anche Rosneft, una delle compagnie di energia più importanti della Russia, e Soyuzneftegaz, un'altra compagnia russa.

In questo delicato momento storico, Cipro trarrebbe ovviamente grandi vantaggi da una riunificazione. Prima di tutto,

evidentemente, attrarrebbe più investitori. Se il riavvicinamento tra il presidente russo, Vladimir Putin, e il turco, Recep Tayyip Erdogan, continua così come sostengono molti osservatori, sarà più facile portare avanti una negoziazione positiva. E questo ci fa tornare alla nuova amministrazione americana. Sia l'Unione Europea che l'Onu si sono impegnate a cercare un'intesa su Cipro ma per superare l'ostacolo «dell'ultimo miglio» potrebbe venir richiesto un impegno americano più intenso.

Cipro unificata, che diventa un polo regionale dell'energia sarebbe così un vantaggio non solo per se stessa ma ridurrebbe le tensioni tra Ankara e Atene, e tutti i Paesi vicini del Mediterraneo avrebbero vantaggi dalla stabilità ritrovata, incluso più turismo e più investimenti.

Un discorso non certo facile da realizzare: il processo di unificazione non è facile da raggiungere. Ecco perché una volontà solida dei protagonisti è così fondamentale; le potenziali ricadute positive derivanti dal settore energetico di Cipro potrebbero essere così più forti delle rimanenti obiezioni. È quindi tempo di dare un'opportunità costruttiva e dare un regalo di pace prima a Cipro poi ai paesi del Mediterraneo.

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## **GECF sees oil price to range from \$70 to \$95 in long-term**

GULF TIMES – Doha

Doha-based Gas Exporting Countries Forum (GECF) expects long-

term global oil price to range from \$70 to \$95 a barrel, while short-term prices are expected to remain “weak”.

“Our projection of 2040 oil prices show that over the medium-to-long term, prices will likely range from \$70 to \$95 per barrel in constant (2015) dollars,” GECF said in its maiden report ‘Global Gas Outlook’. These price levels will support the most expensive sources of production such as Canadian oil sands, Venezuelan heavy crude and off shore deep-water African projects, it said.

The expected oil price range (\$70 to \$95) would mean that an expected pick-up in the global economy would sustain the new levels. Global gross domestic product growth is expected to be stronger between 2015 and 2020, at 3.1% per year, but would start to slow down to 2.9% after 2020 as non-OECD (Organisation for Economic Cooperation and Development) Asia, including China and some other major emerging but maturing economies, slow to a more sustainable long-term rate.

In the medium term, the cost of producing the most expensive (marginal) barrel is an important component for oil price projection although the cost of production varies significantly depending on the geology of the production basin, the technology employed and the fiscal terms applied to producers by host governments. GECF said oil price forecasts are predicated on the same determining factor that shape today’s oil prices including economic growth, the interplay between global oil supply and demand, industry production costs, geopolitical events and the behaviour of the Organisation of the Petroleum Exporting Countries (Opec). In the short term, GECF said it expects oil prices to remain “weak” due to a more “pessimistic” economic perspective than previously anticipated and to the absence of a strong decline in non-Opec output.

Forecasting that oil demand growth to grow moderately, it said global demand for oil and other liquids would increase to over 98mn barrels per day (mbpd) in 2020 from 93mbpd. “Oil demand

continue to rise until it peaks at 106.5mbpd in 2035 and then stabilises around 106mbpd through 2040," it said, adding the largest decline in demand for oil and other liquids is expected to occur in the power sector, where it faces strong competition from other fuels including natural gas, renewables and nuclear.