CHAPTER FOURTEEN

THE GCC DREAM: BETWEEN THE BRICS AND THE DEVELOPED WORLD

April 2007
Windfall Comes as a Blessing for the Region

The Gulf Cooperation Council (GCC) countries (Saudi Arabia, United Arab Emirates, Kuwait, Qatar, Oman and Bahrain) have benefited from the surge in global energy prices in recent years. The massive oil and natural gas windfall has allowed GCC economies to improve their overall net foreign asset and fiscal positions over the past four years, and to post strong, investment-driven economic growth. Regional current account and budget surpluses soared to 30% and 23% of regional GDP in 2006, respectively, and economic growth rebounded strongly to an estimated 7% in 2006—well above the 3.5% average for 1990-2002.

This robust economic performance is likely to continue uninterrupted in the next few years, as the region continues to benefit from high energy prices, which will be reinforced by a combination of strong demand growth and supply-side constraints. What is more interesting from our perspective is the region’s longer-term economic potential. Not surprisingly, the region’s growing importance in energy markets and as a supplier of capital to the rest of the world is commonly acknowledged and widely discussed. What is less clearly appreciated, however, is the ongoing economic transformation of the Gulf region and its long-term economic potential.

The region is becoming an economic power to be reckoned with. The GCC currently boasts a GDP level of about $735bn, comparable to that of such sizeable economies as Mexico ($810bn), Australia ($745bn) and the Netherlands ($665bn). Average regional per capita income is also fairly high, at $20,500, and ranks 27th on a global scale, just after New Zealand ($24,500), Greece ($22,000) and Cyprus ($21,000), and above Israel ($20,000), Portugal ($18,000) and Korea ($18,000).

We believe the region has a lot more to offer as it continues to benefit from strong global energy demand growth in the coming decades. Rapid economic development of the BRICs and N-11 economies will exert considerable pricing pressure on global energy markets, especially in the coming 10 to 15 years. This strong demand-side stimulus will, in turn, secure...
an (extra-normal) oil and natural gas windfall for the GCC, allowing the region’s economies to sustain very high investment levels and generate strong, welfare-enhancing economic growth in the coming decades.

The region’s economic convergence process is unlikely to be as explosive as that of the BRICs or some leading N-11 economies. Economic rigidities, political constraints and general regional instability will likely continue to prevent the GCC from realising its full economic potential. But with extra effort, by placing more emphasis on improving the overall investment climate and facilitating strong total factor productivity growth, we believe the GCC can emerge as one of the most prosperous regions in the world in the coming decades.

**Strong global energy demand, thanks to BRICs’ rapid industrialisation**

Our earlier work suggests that global energy demand can potentially grow at an annual average rate of 2.9% p.a. going into 2020, well above the previous 15 years’ average of 1.85%. We expect energy demand growth to retreat gradually to 2.1% p.a. through the 2030s and stabilise around 1% p.a. thereafter. The bulk of the demand growth is projected to come from the BRICs economies (especially China and India) as they undergo the highly energy-intensive early stages of their economic development (marked by rapid industrialisation, urbanisation and infrastructure development), and as more subtle demographic factors kick in to pull down economic growth rates gradually.

Our projections do not constitute exact forecasts and are intended mainly to illustrate the potential impact of growing BRICs demand on global energy markets. In reality, supply-side constraints and ensuing price pressures might not allow for such rapid demand growth, and eventually call for greater energy efficiency and diversification into alternative energy sources. This could, in turn, push demand growth (especially for hydrocarbons) somewhat lower. That said, energy (and specifically hydrocarbon) demand is likely to remain strong, supporting relatively high prices in the coming decades—much to the benefit of global energy producers. The GCC, as a major energy supplier, should prove no exception and would benefit from emerging strong demand-side pressures and higher energy prices.

**GCC is ideally positioned to benefit from rising energy demand**

The region’s proven oil reserves stand at 484.3bn barrels and natural gas reserves at 41.4tn cubic meters—accounting for 40.3% of the world’s proven oil and 23% of natural gas reserves. The region produces roughly 6.7bn barrels of crude oil and 195.9bn cubic metres of natural gas every year. Even if production levels were to rise substantially through time, the vast natural resource base of the GCC region would still be sufficient to comfortably sustain steady oil and natural gas production for a long time.

The GCC is set to capture an increasingly large share of the global energy pie in the coming decades. The region’s share of global oil (22.8%) and natural gas production (7.1%) is currently below its share of proven reserves, which suggests that the GCC will contribute increasingly to global oil and natural gas supply. The IEA estimates that during 2005-2030 roughly 38% of the projected increase in the global oil supply will come from the GCC region, with regional production growing by 72%. GCC natural gas production is also projected to grow by more than 200% during the same period, accounting for roughly 46% of the total projected global increase.
That said, it will be quite a challenge to increase the region’s production capacity at a pace that can match the world’s growing demand for energy, and considerable capex will be required to bring new capacity on stream. The region’s crude oil reserves are abundant, but some of the giant oil fields in the region are ageing gradually, with natural ‘decline rates’ approaching 12% p.a. in places. Likewise, the region (especially Qatar) boasts some of the largest natural gas reserves in the world, but considerable investment will be needed to bring existing reserves into use.

The IEA (rather conservatively) estimates the total capex needed to sustain a steady 2.2% p.a. increase in crude oil and 5.6% increase in regional natural gas production at roughly $650bn (measured in 2006 prices) in the coming 25 years.

This is a substantial figure, but the GCC governments see further opportunities building in the global economy. Financing is also a less pressing problem for the more prosperous GCC region, compared with some of the African, Middle Eastern and Central Asian energy producers. The latter are subject to more serious sovereign risks and do not enjoy the financial means available to the more prosperous GCC economies. They also face much higher extraction costs upstream.

The likelihood of serious ‘investment failure’ remains relatively limited in the GCC. Hence, the region will most likely consolidate its lead as the world’s prime energy exporter. This implies sustained and increasing oil and natural revenue inflow into the region, probably well beyond what we have seen in previous decades.

**GCC's net cumulative energy windfall could reach $5trn over 25 years**

To put the region’s long-term windfall potential into some quantitative perspective, we projected GCC oil and natural gas revenues going into 2030. We developed two scenarios: base and the historical trend.

Our **base scenario** more or less captures the picture we have depicted above: i.e., sustained, strong global demand for carbon-based fuels, coupled with robust capex growth and steady capacity expansion. We set all parameters in line with our global energy demand forecasts. Specifically, we assume:
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- Oil and natural gas exports from the region will grow on average by 2.5% and 5.5% p.a. during 2005-2030, consistent with our global energy demand growth projections.

- We set the average oil price at $48/bbl, above the $35/bbl post-war average (both measured in 2006 prices). We basically assumed that prices would prove ‘sticky’ in the coming 15 years, due mainly to strong demand growth and supply-side constraints. Beyond 2020, we assumed that the pressure would ease as new production capacity comes on stream and as demand pressures moderate somewhat, allowing the oil price to retreat gradually towards $40/bbl. We also assumed a flat $6.5Mbtu for the average natural gas price (measured in 2006 prices).

- We assumed $1.2trn capex (measured in 2006 prices) during the forecast period, well above the $650bn projected by the IEA. As such, we accounted for potential supply-side challenges involved in raising production levels to match growing demand.

The historical trend scenario is intended mainly to put this in context. We set all key model parameters (i.e., prices and the net export growth rate) at their respective 35-year averages. This period encompasses two major oil shocks (1974 and 1979), one major investment cycle (1972-1982) and three regional wars (Iran-Iraq and the two Gulf Wars), all of which led to major price increases.

- We assumed 1.8% net crude oil export growth and 3% natural gas for the forecast period, well below the assumptions of our base scenario.

- We set the average crude oil price at the historical $35/bbl average and natural gas at $4.7Mbtu, both flat as measured in 2006 prices.

- We set capex at $600bn, in view of the very low extraction costs that have prevailed throughout the region in the past four decades.

Needless to say, our projections are highly stylised and do not constitute exact revenue forecasts. But the exercise gives a good sense of the windfall that is likely to accrue in the coming decades. Our main findings are as follows:

- A huge windfall. The oil and natural gas revenues projected under the base policy scenario remain well above what is suggested by the historical trend scenario—implying an extra-normal revenue flow. Specifically, measured in NPV terms (using a discount rate of 6.5%), projected cumulative oil and natural gas revenues for the 2005-2030 period amount to $5.1trn in the base scenario, significantly higher than the $3.6trn implied by the historical trend scenario.

[Graph: Strong Energy Demand Growth will Boost Oil & Natural Gas Revenues]

Source: IEA and GS Projections
The growing energy needs of the global economy will exert considerable pressure on the world’s natural resources and the environment. The IEA’s projections suggest that global CO₂ emissions are set to increase by 50% by 2030, given current energy consumption patterns, efficiency levels and the growth trend (1.75% p.a.). Our own energy demand projections are considerably more aggressive than the IEA’s projections, assuming an average annual consumption growth rate of 2.5% in the coming three decades. Other things being constant, this implies an explosive growth in CO₂ emissions. At some point, consumers might have to switch to more environmentally friendly policies that would help check CO₂ emissions, emphasising increased energy efficiency and the use of alternative (non-carbon-based) energy sources. This could lead to somewhat slower demand growth and perhaps lower prices going forward.

However, the transition to a greener world will take time, and, more importantly, the world economy will continue to depend on carbon-based fuels as its primary energy source for two reasons:

- Carbon-based fuels constitute the most robust energy source available and will continue to play a key role in meeting the world’s growing energy needs. A major technological breakthrough on alternative energy sources could change this picture fundamentally. However, it would probably take considerable time, investment and (ironically) carbon-driven energy input to develop, introduce and (perhaps more importantly) diffuse the new technology, and subsequently adopt it for mass consumption. Such a breakthrough is currently not on the cards.

- Kicking the world’s growing carbon-based energy addiction would require strong political commitment and cooperation among consumer countries. Environmental concerns are becoming more widely expressed among key decision makers globally, and there are some encouraging signs that policy makers and politicians are taking environmental constraints more seriously. However, a lot still needs to be done in the US and even in Europe. It will not be easy for rapidly developing emerging market economies (especially the BRICs) to secure a more energy efficient path to economic development.

![Green Policies Could Imply Slower Hydrocarbon Demand Growth](chart)

Chart 6: Carbon Dioxide Emissions Set to Grow Rapidly in the Coming Three Decades

- **Source**: IEA

Carbon-based Fuels will Remain the Primary Source of Energy in Coming Decades

- **Source**: IEA
Widespread implementation of environmentally friendly economic policies could reduce the oil and natural gas windfall substantially. However, we think this is unlikely to eradicate the windfall entirely. Technological path dependency and strong demand from the BRICs and N-11 are likely to ensure steady growth in net oil and natural gas exports from the GCC region, and to keep energy prices fairly high through the coming decade. After this point, however, demand growth might slow down and prices might come off, which could push the oil and natural gas revenues somewhat lower, compared with our baseline forecasts. To measure the likely impact of green economic policies on the GCC energy windfall we assumed:

- Crude oil export growth rate at 1.8% and natural gas at 5.2%. As such, we cut 2050 net export volumes by 17.6% and natural gas by 5.8% compared with the baseline scenario.
- Oil prices to retreat gradually from $55/bbl during the 2010s to $35/bbl by 2030. We also assumed natural gas prices at $6Mbtu.
- We arbitrarily assumed $1trn in capital spending, reflecting the substantial costs associated with increasing production while simultaneously replacing a natural decline in upstream capacity.

These assumptions brought the projected oil and natural gas revenue to $4.4trn (measured in 2006 prices and expressed in NPV terms). This is significantly below the baseline $5.1trn but still substantially above the $3.6trn implied by the historical trend scenario. In per capita terms, the projected windfall came in at $103,000, again below the $115,500 implied by the baseline and above the $84,250 suggested by the historical trend scenario.
Massive wealth creation. Population growth is expected to remain fairly robust throughout the region during the forecast period, so there will be more GCC citizens to share the windfall in the coming decades. But reducing our forecasts to per capita terms does not change the picture fundamentally. Our projections put the cumulative per capita oil and natural gas export revenue (again measured in NPV terms) at $115,500 in the base scenario, well above the relatively modest $84,250 implied by our historical trend scenario. With regional (nominal) per capita income currently standing at around $20,500, this implies serious wealth creation in the region during the forecast period under the base scenario.

Inflows will peak in the next 15 years. Our projections suggest that the bulk of the windfall is likely to accrue in the coming decade or so, when we expect BRICs demand to peak and alternative energy use and energy efficiency gains to remain limited. In the base scenario, roughly 65%-70% of the total projected revenues accrue within the next 15 years. Beyond 2020, the pace of revenue inflows ‘normalises’ somewhat.

Old Challenges and New Opportunities

‘Natural resource curse’ and regional instability will continue to haunt the GCC

The sizeable windfall implied by our projections suggests that, as a region, the GCC will maintain a structural current account surplus and will be able to sustain high investment levels and generate strong, welfare-enhancing economic growth in the coming decades.

The key question is whether this potential will be realised. Important challenges will have to be overcome, and we also see certain macroeconomic and institutional weaknesses that could undermine the region’s long-term growth potential. However, we believe that, with some effort and good economic management, the region can make a leap forward and emerge as one of the most prosperous regions of the world in the coming decades.

We see two main impediments: one related to the broader Middle East risk and the other linked to the so-called ‘natural resource curse’.

Projected Oil & Natural Gas Revenues (Total and Per Capita)

<table>
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<tr>
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<th>Base Scenario</th>
<th>Green Policy</th>
<th>Historical Trend</th>
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<tbody>
<tr>
<td>Nominal Oil and Natural Gas Exports ($bn)</td>
<td>13,493</td>
<td>10,935</td>
<td>8,234</td>
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<tr>
<td>Nominal Capex ($bn)</td>
<td>1,969</td>
<td>1,395</td>
<td>450</td>
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<td>Net Nominal Oil and Natural Gas Exports ($bn)</td>
<td>11,524</td>
<td>9,541</td>
<td>7,784</td>
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<td>NPV Net Nominal Oil and Natural Gas Exports (2006 dollars, bn)</td>
<td>5,070</td>
<td>4,449</td>
<td>3,618</td>
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<tr>
<td>NPV Net Nominal Oil and Natural Gas Exports Per Capita (2005 Dollars)</td>
<td>115,687</td>
<td>103,174</td>
<td>84,235</td>
</tr>
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<td>Crude Oil Prices (2006 prices)</td>
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<tr>
<td>2005</td>
<td>50.6</td>
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<td>2010</td>
<td>55.0</td>
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<td>2020</td>
<td>50.0</td>
<td>40.0</td>
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<td>2030</td>
<td>40.0</td>
<td>35.0</td>
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<tr>
<td>Average Annual Net Export Growth</td>
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<tr>
<td>Crude Oil</td>
<td>2.5%</td>
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<tr>
<td>Natural Gas</td>
<td>5.5%</td>
<td>5.2%</td>
<td>3.0%</td>
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- **Middle East risk.** The GCC is located in one of the world’s most unstable regions. Many complex examples from the past and today are well known, including the Arab-Israeli conflict, Iraq’s ongoing instability, Iran’s external relations and growing friction within different religious faiths. They all still stand as key risk factors that could destabilise the broad Middle East region (and the rest of the world). GCC countries may have to commit considerable resources to enhancing their defence capabilities, diverting resources from possibly more efficient uses. The need to constantly secure domestic political stability surrounding the GCC could dent political and economic reforms, rendering it more difficult to address deep-rooted incumbency problems.

- **‘Natural resource curse’.** The GCC represents an extreme resource endowment case, characterised by strong rent-seeking opportunities and relatively weak institutional (market) structures. All too often, networks of patronage and clientelism have led to economic inefficiency. Past windfalls have resulted in dramatic increases in government spending, leading to considerable economic waste. It is possible that any future revenue windfall implied by our projections could repeat past tendencies, creating considerable inertia in the region’s transition to a more market-based economy characterised by a more commonly accepted rule of law and strong market institutions.

**The GCC’s growth environment has improved significantly**

The GCC governments now place a great deal of emphasis on economic diversification, openness and market regulation, as well as on infrastructure and human resource development. These reform efforts, combined with the oil and natural gas revenue boon, are helping to improve the overall growth environment and pulling the region’s long-term growth potential above the rather disappointing 3.5% average of the past few decades.

Our Growth Environment Score (GES) indices capture the fundamental improvement that has taken place across the region and the solid growth potential. The GES is an objective summary measure of 13 variables that drive productivity and help to achieve a country’s growth potential. They help us to assess the likelihood that our projections will be realised. Our recently updated GES measures show a rather encouraging picture for the GCC region. Without exception, the GCC economies now occupy top positions in our global rankings. Specifically, Qatar and UAE rank 24th and 25th, while Kuwait, Oman, Bahrain and Saudi Arabia...
Arabia occupy 32nd, 39th, 42nd and 43rd places (out of 177) in the GES rankings, above (for example) Greece (44th), Hungary (47th), Poland (54th), China (58th) and Mexico (68th).

Among developing economies, the region stands out: Qatar and UAE rank 1st and 2nd, and Kuwait, Oman, Bahrain and Saudi Arabia follow in 4th, 8th, 9th and 10th place, respectively—all well above the BRICs and the N-11 (save South Korea). Among developed high-income group countries, Qatar and UAE compare quite well with their peers, while Kuwait, Oman, Bahrain and Saudi Arabia also do fairly well—although in the latter group there is considerable room for improvement, especially in human resource development, technology use, political stability and governance. At a minimum, our GES indices show that the region’s growth potential remains as good as that of any developing economy.

**Projecting the Future**

**The baseline: Solid growth and rapid convergence**

In order to put the region’s potential in quantitative perspective, we have employed the GDP projection models first used in our BRICs projections. The model is based on neo-classical growth theory and sets labour, capital and total factor productivity (TFP) as key determinants of long-term economic growth.

In projecting GDP levels for the GCC going into 2050, as baseline, we made a conscious effort to keep our assumptions as conservative as possible:

- **Investment levels at average for past 10 years.** We set the underlying gross investment rate at the average over the past 10 years for each GCC economy; specifically, at 15.2% for Bahrain, 15.6% for Kuwait, 15.7% for Oman, 17.9% for Saudi Arabia, 24.7% for UAE and 28.5% for Qatar. As such, we did not factor in a major improvement in the overall investment climate in constructing our baseline projections, and we assumed reasonably low investment levels, notwithstanding the extra-normal revenue inflow. In other words, we assumed that the region would remain a capital exporter and diversify more gradually going forward.
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- **Relatively subdued productivity growth.** Despite the high GES rankings of the GCC economies, we set the convergence ratio (the other key parameter in our projection models capturing TFP growth) at 0.8% for the entire 2006-2050 period. This is towards the lower end of the 1%-1.5% we use for our BRICs and most of our N-11 projections. As such, we conservatively assumed relatively subdued TFP growth for the region, reflecting the overall growth-retarding effects of structural rigidities and geopolitical challenges.

- **Gradual demographic normalisation.** Lastly, we set regional population growth rates around 2%-2.5% until 2015, around 1.5% until 2040 and slightly above 1% until 2050. As such, we assumed a gradual demographic ‘normalisation’.

Under these fairly conservative assumptions, our projections suggest reasonably rapid economic growth and convergence. By the first half of the 21st century, the GCC could become comparable to major developed economies—both in terms of size and per capita income levels. Specifically, we project the region’s total GDP in 2050 at $4.5tn, or just under the projected GDP levels of Germany ($4.9tn) and France ($4.5tn). We estimate the region’s 2050 per capita GDP at $63,250, which compares favourably with that of such leading industrial economies as Japan ($69,000), Germany ($67,000) and Italy ($58,000). Accordingly, we project the income gap with the G7 to narrow significantly, to roughly 77% of the projected G7 average, up from the current 50%.

**An alternative ‘dream’ scenario**

The region potentially could have a lot more to offer than our conservative baseline projections suggest. The growth and convergence potential implied by the baseline scenario is no doubt impressive, but it does not suggest as robust a convergence as that of the BRICs or some of the stronger N-11 economies. To realise its full potential, the region will have to put stronger emphasis on improving the overall investment climate, and more importantly on technology and human resource development.

- **Investment levels are low.** The investment levels prevailing throughout the region remain fairly low by international standards. The rapidly diversifying economies of Qatar and the UAE are the big spenders of the region, with average investment levels hovering around 25%-30%. These compare well with the 10-year averages in China (34%), Korea (31%), Vietnam (29%), Japan (26%) and India (23%). These economies are probably testing the limits of their absorption capacity; they are already growing rapidly and can probably do very little to bolster investment levels further without creating more serious macroeconomic imbalances—namely chronic inflation, in goods and services as well as in asset prices. However, Saudi Arabia, Oman, Kuwait and Bahrain are still well behind, with their respective investment levels averaging a mere 15%-18%. Relative to the massive pool of economic resources at their disposal, the absorption level of

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**Investment Levels Still Very Low**

![Investment Levels Still Very Low](source: WB)
these economies probably remains well below potential. They can comfortably raise investment levels and commit more resources to economic diversification.

- **The region is lagging its peers in technology use.** Our GES indices also show that the region is lagging behind its peers in high-income countries (HIC) in terms of technology use and human resource development. On technology use, the region is well behind the HIC and resembles more closely an upper-middle-income economy (UMC). The GCC can therefore benefit immensely from greater economic openness, which would help facilitate the transfer of technology and know-how.

- **Human resource base is not sufficiently strong.** On human resource development, the region is ranked just below the HIC and slightly above UMC averages, but there is still considerable room for improvement. Specifically, the region can benefit immensely from a further improvement in education and health standards, which would help bolster TFP growth and further economic development over the longer term. Another major constraint here is the low female labour participation ratio, which still hovers around a disappointing 25%-30%. There are cultural obstacles here, but the region could benefit immensely from the incorporation of women into the active labour force, which would help strengthen the region’s demographic dynamics even further.

In order to demonstrate the hidden potential here, we adjusted two key parameters of our GDP projection models to capture the impact of a more robust investment climate, and stronger technology and human resource base:

- We set the **investment ratio** one standard deviation above the 10-year average for Saudi Arabia (19.7%), Kuwait (21.6%), Oman (18.9%) and Bahrain (19%), and left it unchanged for the region’s big spenders, UAE (at 24.7%) and Qatar (28.5%).

- We set the **convergence ratio** at 1% until 2035 and at 1.2% thereafter, above the 0.8% we assumed in the baseline and more consistent with the region’s exceptionally high GES scores. This was a view to incorporating the productivity gains to be reaped from technology transfer and diffusion, and human resource development.
Under these assumptions, the region comfortably achieves promotion to the league of advanced economies. Specifically, the region’s GDP hits $5.5trn by 2050 (well above the $4.5trn projected in the baseline), overtaking such leading industrial economies as the UK and Germany (both around $5trn) and moving closer to Indonesia ($6.7trn) and Japan ($7trn). In tandem, per capita GDP reaches $78,800 and the income gap with the G7 and the GCC disappears almost completely, with GCC per capita GDP reaching 97% of the G7 average.

As we have discussed above, the odds against this ‘dream’ scenario are high and there is a risk that deep-rooted structural weaknesses and regional instability might continue to hold back the GCC region from fully realising this huge economic potential. It is more likely that the region will grow into a ‘dual’ economic structure characterised, on the one hand, by ultra modern Dubai-like ‘growth-poles’ and, on the other, by continuing inefficiency and ‘waste’ in general resource utilisation.

However, the GCC’s long-term economic potential is immense and we firmly believe that, with a bit of effort, the region can capitalise on the new opportunities presented by the fast-globalising world economy and emerge as a leading economic power in the coming decades.

This globally driven economic transformation and development process will also provide some strong support for regional asset prices (particularly to equity prices) and drive regional currency substantially stronger in the coming decades. In that sense, we do not see the GCC solely as a source of capital for the rest of the world, but also as a long-term investment story, with significant upside potential.

Ahmet O. Akarli
April 17, 2007
The Case for Greater Exchange Rate Flexibility

If global energy demand grows strongly in the coming decades and if, as we argue, this secures a steady inflow of extra-normal revenue to the GCC, then it will become increasingly difficult under the current fixed exchange rate regime to reconcile price stability and rapid economic development objectives, for several reasons:

- With local currencies fixed firmly to the US Dollar, the terms of trade shock from high energy prices would be passed on directly to domestic prices, because energy figures prominently in the consumption bundle and as a productive input in the non-carbon sectors.

- The wealth effect of the oil and gas windfall will raise domestic spending, which will fall in part on non-traded goods. Compared with a scenario without the oil windfall, this will result in an appreciation of the real exchange rate (an increase in the relative price of non-traded to traded goods). Resources will also be drawn into the production of non-traded goods and services, and out of the non-carbon tradeable goods sectors. This ‘Dutch disease’ scenario need not necessarily signal a problem, since an increase in the demand for non-traded goods and services is a natural consequence of greater wealth. It is essential that the (relative) reduction in the size of the non-carbon tradable producing sectors does not ‘overshoot’, and result in an excessive reliance on oil and gas exports. At a fixed nominal exchange rate against the Dollar, the required real exchange rate appreciation can only occur through a rate of inflation of domestic costs and prices that is higher than that in the US and in other Dollar-pegging countries. This higher inflation should only be temporary, however, as the required adjustment involves an increase only in the level of a key relative price. This wealth effect is in addition to the direct price level effect of an increase in the Dollar-denominated price of energy. It would also occur, for instance, if the windfall resulted not from an increase in the Dollar price of oil and gas but from a new discovery of carbon reserves.

- There is also the Balassa-Samuelson effect, which is associated with a successful convergence of domestic productivity levels to those in the advanced countries. If and when successful catch-up or convergence occurs in the non-oil and gas producing sectors of the economy, productivity catch-up in the traded goods sectors will tend to be more rapid than in the non-traded sectors. This means that, if factors of production can
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flow relatively easily between these two sectors, the relative price of non-traded goods will rise. This supply-side driven real exchange rate appreciation is quite distinct from the demand-driven ‘Dutch disease’ appreciation described in the previous paragraph. This phenomenon can also be expected to persist for as long as real catch-up or convergence takes place—which could be several decades for the GCC region. With a fixed nominal US Dollar exchange rate, ‘Balassa-Samuelson’ real exchange rate appreciation requires inflation in excess of that in the rest of the Dollar-pegging world.

Lastly, although we expect the GCC to be net exporters of capital for the foreseeable future, regional monetary authorities’ desire for large foreign exchange reserves and periodic large inflows of private capital can easily lead to excessive creation of money and liquidity. This could lead to excessive domestic credit expansion and speculative excess.

All these factors will make it increasingly difficult to maintain price stability with a fixed exchange rate peg to the Dollar. A more flexible monetary policy regime would make it easier to reconcile price stability and diversification/growth objectives. More effective liquidity management and greater exchange rate flexibility would help absorb the ensuing pressure on domestic prices.

A more flexible exchange rate regime is not without risks. One risk here could be excessive exchange rate appreciation, which could lead to a crippling form of the ‘Dutch disease’ and undermine diversification efforts. So a more flexible exchange regime would have to be supported by institutional and structural reforms that would enhance the monetary authorities’ ability to resist exchange rate overshooting, and would facilitate productivity growth and bolster labour market flexibility. Fiscal policy would need to become increasingly more counter-cyclical, rather than pro-cyclical, so as to smooth the cycles.

At any rate, the transition from existing pegs to a more flexible exchange rate regime would have to be gradual. The Dollar pegs have served well as solid nominal anchors in past decades, and the institutional structure needed to support more flexible exchange rate regimes are not in place. The first step would probably be towards greater exchange rate flexibility, via the adoption of a composite currency basket peg, which would help reduce the inflationary effects of sharp movements in major currency crosses. The next step would be to prepare the institutional basis for the implementation of more flexible monetary policy regimes, placing much emphasis on the development of local debt markets and also proper central bank independence. Lastly, size matters. The GCC countries would be well-advised to maintain a fixed exchange rate among themselves, while introducing greater flexibility in their common external exchange rate.