

CRUDE

The rip-off of Iraq's oil wealth

DESIGNS





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Executive Summary

While the Iraqi people struggle to define their future amid political chaos and violence, the fate of their most valuable economic asset, oil, is being decided behind closed doors.

This report reveals how an oil policy with origins in the US State Department is on course to be adopted in Iraq, soon after the December elections, with no public debate and at enormous potential cost. The policy allocates the majority¹ of Iraq's oilfields – accounting for at least 64% of the country's oil reserves – for development by multinational oil companies.

Iraqi public opinion is strongly opposed to handing control over oil development to foreign companies. But with the active involvement of the US and British governments a group of powerful Iraqi politicians and technocrats is pushing for a system of long term contracts with foreign oil companies which will be beyond the reach of Iraqi courts, public scrutiny or democratic control.

COSTING IRAQ BILLIONS

Economic projections published here for the first time show that the model of oil development that is being proposed will cost Iraq hundreds of billions of dollars in lost revenue, while providing foreign companies with enormous profits.

Our key findings are:

- **At an oil price of \$40 per barrel, Iraq stands to lose between \$74 billion and \$194 billion over the lifetime of the proposed contracts², from only the first 12 oilfields to be developed. These estimates, based on conservative assumptions, represent between two and seven times the current Iraqi government budget.**
- **Under the likely terms of the contracts, oil company rates of return from investing in Iraq would range from 42% to 162%, far in excess of usual industry minimum target of around 12% return on investment.**

A CONTRACTUAL RIP-OFF

The debate over oil “privatisation” in Iraq has often been misleading due to the technical nature of the term, which refers to legal ownership of oil

reserves. This has allowed governments and companies to deny that “privatisation” is taking place. Meanwhile, important practical questions, of public versus private control over oil development and revenues, have not been addressed.

The development model being promoted in Iraq, and supported by key figures in the Oil Ministry, is based on contracts known as production sharing agreements (PSAs), which have existed in the oil industry since the late 1960s. Oil experts agree that their purpose is largely political: technically they keep legal ownership of oil reserves in state hands³, while practically delivering oil companies the same results as the concession agreements they replaced.

Running to hundreds of pages of complex legal and financial language and generally subject to commercial confidentiality provisions, PSAs are effectively immune from public scrutiny and lock governments into economic terms that cannot be altered for decades.

In Iraq's case, these contracts could be signed while the government is new and weak, the security situation dire, and the country still under military occupation. As such the terms are likely to be highly unfavourable, but could persist for up to 40 years.

Furthermore, PSAs generally exempt foreign oil companies from any new laws that might affect their profits. And the contracts often stipulate that disputes are heard not in the country's own courts but in international investment tribunals, which make their decisions on commercial grounds and do not consider the national interest or other national laws. Iraq could be surrendering its democracy as soon as it achieves it.

POLICY DELIVERED FROM AMERICA TO IRAQ

Production sharing agreements have been heavily promoted by oil companies and by the US Administration.

The use of PSAs in Iraq was proposed by the *Future of Iraq* project, the US State Department's planning mechanism, prior to the 2003 invasion. These proposals were subsequently developed by

the Coalition Provisional Authority, by the Iraq Interim Government and by the current Transitional Government. The Iraqi Constitution also opens the door to foreign companies, albeit in legally vague terms.

Of course, what ultimately happens will depend on the outcome of the elections, on the broader political and security situation and on negotiations with oil companies. However, the pressure for Iraq to adopt PSAs is substantial. The current government is fast-tracking the process and is already negotiating contracts with oil companies in parallel with the constitutional process, elections and passage of a Petroleum Law.

The Constitution also suggests a decentralisation of authority over oil contracts, from the national level to Iraq's regions. If implemented, the regions would have weaker bargaining power than a national government, leading to poorer terms for Iraq in any deal with oil companies.

A RADICAL DEPARTURE

In order to make their case, oil companies and their supporters argue that PSAs are standard practice in the oil industry and that Iraq has no other option to finance oil development. Neither of these assertions is true.

According to International Energy Agency figures, PSAs are only used in respect of about 12% of world oil reserves, in countries where oilfields are small (and often offshore), production costs are high, and exploration prospects are uncertain. None of these conditions applies to Iraq.

None of the top oil producers in the Middle East uses PSAs. Some governments that have signed them regret doing so. In Russia, where political upheaval was followed by rapid opening up to the private sector in the 1990s, PSAs have cost the state billions of dollars, making it unlikely that any more will be signed. The parallel with Iraq's current transition is obvious.

The advocates of PSAs also claim that obtaining investment from foreign companies through these types of contracts would save the government up to \$2.5 billion a year, freeing up funds for other public spending. Although this is true, the investment by oil companies now would be massively offset by the loss of state revenues later.

Our calculations show that were the Iraqi government to use PSAs, its cost of capital would be between 75% and 119%. At this cost, the advantages referred to are simply not worth it.

Iraq has a range of less damaging and expensive options for generating investment in its oil sector. These include: financing oil development through government budgetary expenditure (as is currently the case), using future oil flows as collateral to borrow money, or using international oil companies through shorter-term, less restrictive and less lucrative contracts than PSAs⁴.

IN WHOSE INTERESTS?

PSAs represent a radical redesign of Iraq's oil industry, wrenching it from public into private hands. The strategic drivers for this are the US/UK push for "energy security" in a constrained market and the multinational oil companies' need to "book" new reserves to secure future growth.

Despite their disadvantages to the Iraqi economy and democracy, they are being introduced in Iraq without public debate.

It is up to the Iraqi people to decide the terms for the development of their oil resources. We hope that this report will help explain the likely consequences of decisions being made in secret on their behalf.

NOTES

1. The Iraqi government would be left with control of only the 17 fields that are already in production, out of around 80 known fields.
2. The precise terms of proposed contracts are obviously be subject to negotiation: our projections are based on a range of terms used in the most comparable countries, including Libya, which is commonly viewed as having some of the most stringent in the world. Multinational oil companies are pushing for lucrative terms by international standards, based on Iraq's high level of political and security risk. These risks place the Iraqi government in an extremely weak negotiating position. The projections are given in undiscounted real terms (2006 prices). The contract duration is assumed to be 30 years as 25-40 years is the common length. The (2006) net present value of the loss to Iraq amounts to between \$16 billion and \$43 billion at 12% discount rate.
3. The terminology of PSAs labels the private companies as "contractors". This report illustrates that this label is misleading because PSAs give companies control over oil development and access to extensive profits.
4. These might include buyback contracts, risk service contracts or development and production contracts

Glossary

bbl	barrels
bn	billion
CEO	Chief Executive Officer
CNPC	China National Petroleum Corporation
CPA	Coalition Provisional Authority
DOE	(US) Department of Energy
DPC	development and production contract
FCO	(UK) Foreign and Commonwealth Office
FDI	foreign direct investment
FOB	freight on board
GDP	gross domestic product
ICSID	International Centre for Settlement of Investment Disputes
IMF	International Monetary Fund
INOC	Iraq National Oil Company
IOC	international oil company
IPC	Iraq Petroleum Company
ITIC	International Tax and Investment Centre
IRR	internal rate of return
kbpd	thousand barrels per day
KRG	Kurdistan Regional Government
mbd	million barrels per day
MEES	Middle East Economic Survey
MOU	memorandum of understanding
OECD	Organisation for Economic Co-operation and Development
OPEC	Organisation of Petroleum Exporting Countries
NPV	net present value
PSA	production sharing agreement
SERIS	Sheffield Energy and Resources Information Service
UN	United Nations
USAID	United States Agency for International Development

1. The Ultimate Prize: Anglo-American interests in Gulf oil

The UK and US have long had their eyes on the massive energy resources of Iraq and the Gulf. In 1918 Sir Maurice Hankey, Britain's First Secretary of the War Cabinet wrote:

*"Oil in the next war will occupy the place of coal in the present war, or at least a parallel place to coal. The only big potential supply that we can get under British control is the Persian [now Iran] and Mesopotamian [now Iraq] supply... Control over these oil supplies becomes a first class British war aim."*¹

After World War II both the US and UK identified the importance of Middle Eastern oil. British officials believed that the area was "a vital prize for any power interested in world influence or domination"², while their US counterparts saw the oil resources of Saudi Arabia as a "stupendous source of strategic power and one of the greatest material prizes in world history"³.

TURNING BACK TO THE MIDDLE EAST

With over 60% of the world's oil reserves,⁴ their interest in the Gulf region is unsurprising. Iraq alone has the third largest oil reserves on the planet – accounting for 10% of the world total. Iraq is also reckoned to have the world's largest unexplored potential, primarily in the Western Desert. On top of its 115 billion barrels of proven reserves, Iraq is estimated to have between 100 and 200 billion barrels of further possible (as yet undiscovered) reserves. Furthermore, not only are Iraqi and Gulf reserves huge, they are mostly onshore, in favourable reservoir structures, and extractable at extremely low cost.

Since the nationalisation of the major oil industries of the Middle East in the 1970s, Gulf reserves have been out of the direct control of the West and off the balance sheets of its companies. The oil companies have filled the gap by moving into the North Sea and Alaska in the 1970s and 1980s, and then in the 1990s by opening new 'frontier' areas such as the Caspian Sea and offshore West Africa.

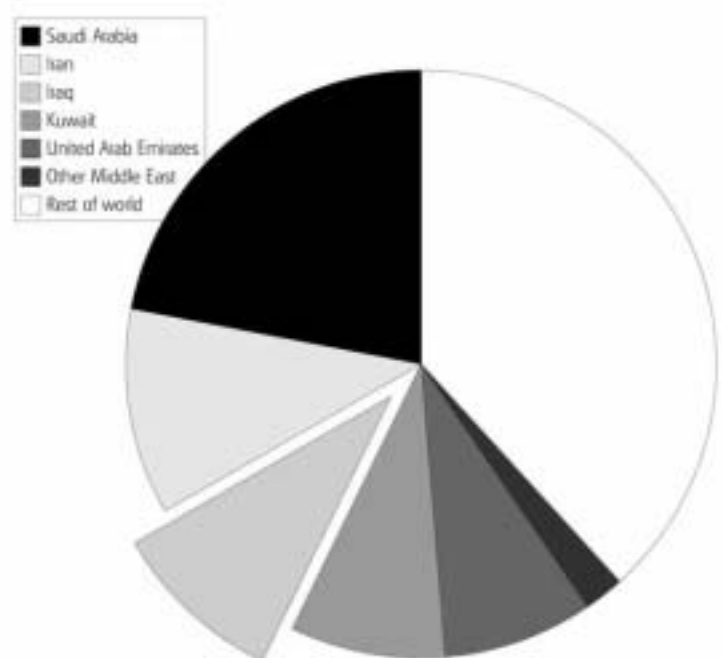
However, the North Sea and Alaska are now in decline and while companies continue to actively pursue frontier oil development, the opportunities for growth there are limited and costs high. Thus, unable to escape from the arithmetic of where the giant reserves are, the US and UK are turning back their attention to the Middle East.

In a speech to the Institute of Petroleum in London in 1999, Dick Cheney, then CEO of oil services company Halliburton, commented:

*"By 2010 we will need on the order of an additional fifty million barrels a day. So where is the oil going to come from? ... While many regions of the world offer great oil opportunities, the Middle East with two thirds of the world's oil and the lowest cost, is still where the prize ultimately lies."*⁵

To this analysis, he added a note of frustration: "Even though companies are anxious for greater access there, progress continues to be slow".

World oil reserves, 2004



A PRIMARY FOCUS OF US/UK ENERGY POLICY

Two years later, one of the Bush Administration's first actions was to appoint Cheney, as US Vice President, to lead an Energy Task Force to consider where the USA's long-term energy supplies would come from. His report noted:

"By any estimation, Middle East oil producers will remain central to world oil security. The Gulf will be a primary focus of U.S. international energy policy."⁶

While US interest in Middle Eastern oil has been well-documented, similar considerations play in British strategic planning too. In January 2003, Foreign Secretary Jack Straw announced that one of the Foreign Office's seven priorities was "to bolster the security of British and global energy supplies".⁷ The geography of such a policy had been spelled out in the 1998 Strategic Defence Review white paper:

"Outside Europe our interests are most likely to be affected by events in the Gulf and the Mediterranean. Instability in these areas also carries wider risks. We have particularly important national interests and close friendships in the Gulf. Oil supplies from the Gulf are crucial to the world economy."⁸

Pointing to the government's partnership on these issues with major oil companies, a further Foreign Office strategy paper later in 2003 identified a key objective as to:

*"improve investment regimes and energy sector management in these regions [the Middle East, parts of Africa and the former Soviet Union], **focusing on key links in the supply chain to the UK**"⁹ (emphasis added).*

Importantly, these policies in America and Britain are coordinated. The US-UK Energy Dialogue - a bilateral initiative established during the April 2002 meeting of Prime Minister Blair and President Bush in Crawford, Texas¹⁰, and designed to "enhance coordination and cooperation on energy issues" - demonstrates the close convergence of Anglo-American views and interests on Middle Eastern oil:

"Current forecasts for the oil sector put global demand by 2030 at about 120 million barrels per day (mbd), which is



The key US-UK 'energy security' priority is secure control over an increasing supply of Gulf oil, preferably delivered by investment from their own companies

roughly 45 mbd higher than today. While recognizing that the increasing role of Russia and other non-OPEC producers, a large proportion of the world's additional demand will likely be met by the Middle East (mainly Middle East Gulf) producers. They hold over half of current proven reserves, exploration and production costs are the lowest in the world, and production in many mature fields in the OECD area is likely to fall. To meet future world energy demand, the current installed capacity in the Gulf (currently 23 mbd) may need to rise to as much as 52 mbd by 2030."¹¹

PUSHING FOREIGN INVESTMENT

However, as noted in the Dialogue, one obstacle to "free access" to oil that concerns the British and Americans is the lack of 'installed extraction capacity'. To help deal with this problem President Bush and Prime Minister Blair tasked a joint Working Group with a list of planned activities. First on the list was to undertake "...a targeted

study to examine the capital and investment needs of key Gulf countries...".¹²

Within this context, it is perhaps unsurprising that in advising on the post-war reconstruction of Iraq, the British government has recommended that foreign investment in oilfields of most benefit to Iraq. In late summer 2004, the Foreign and Commonwealth Office issued a Code of Practice for the Iraqi oil industry, which argued that:

"It has been estimated that a minimum of US\$ 4 billion would be needed to restore production to its 1990 levels of 3.5 million barrels per day (mbd), and perhaps US\$ 25 billion to achieve 5 mbd. ... Given Iraq's needs, it is not realistic to cut government spending in other areas, and Iraq would need to engage with the International Oil Companies (IOCs) to provide appropriate levels of Foreign Direct Investment (FDI) to do this."¹³

The Foreign Office subsequently went on to advise the Ministry of Oil on "fiscal and regulatory" issues.¹⁴ Although this was never published in a formal policy document, it continued at an informal level, with Foreign Office minister Kim Howells stating that "We discuss with the Iraqi Ministries their priorities on a regular basis."¹⁵ The FCO remains secretive about the content of this advice, refusing Freedom of Information applications. Tellingly, one of the exemptions used for their refusal was that the advice was "voluminous".¹⁶

The US government too has maintained close contacts with Iraqi decision-makers.¹⁷ Speaking on the handover from the Coalition Provisional Authority to the Iraqi Interim Government, one senior US official said:

"We're still here. We'll be paying a lot of attention and we'll have a lot of influence. We're going to have the world's largest diplomatic mission with a significant amount of political weight."¹⁸

A report commissioned by the US Agency for International Development was more specific about the form of contracts that should be used in Iraq, in order to achieve the West's energy security goals:

"Using some form of [production sharing agreements] with a competitive rate of return has proved the most successful way to attract [international oil company] investment to expand oil productive capacity significantly and quickly."¹⁹

As the above policies illustrate, the key US-UK 'energy security' priority is secure control over an increasing supply of Gulf oil, preferably delivered by investment from their own oil companies. It is clear that Iraq's newly accessible oil is expected to play an important role in meeting these priorities. But as we shall see, implementing these arrangements could have severe impacts on Iraq's future development.

2. Re-thinking privatisation: Production sharing agreements

THE NATURE OF "PRIVATISATION"

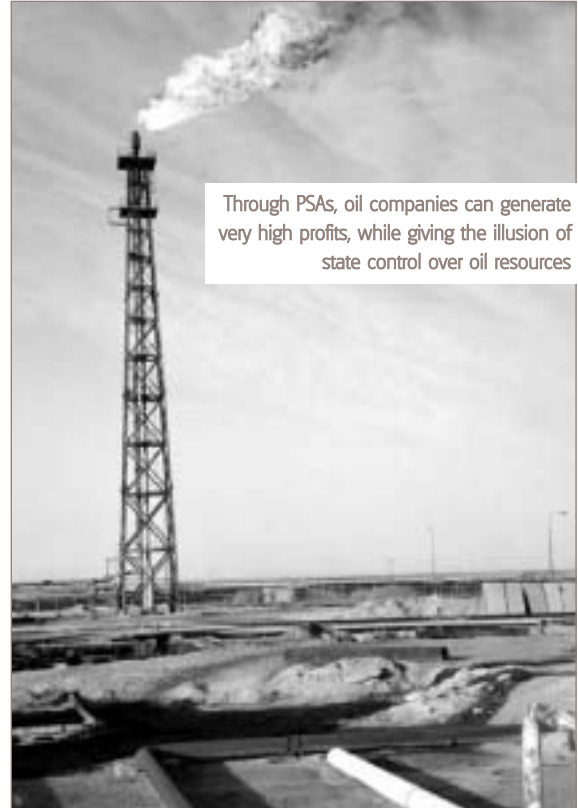
Given the West's fundamental strategic interest in the oil reserves of Iraq and the Gulf as outlined in the previous section, some observers were surprised when the oil sector was excluded from the sweeping privatisations of Iraq's economy by US Administrator Paul Bremer in 2003 and 2004. Decisions on the future structure of the oil industry were deferred, to be addressed by an elected Iraqi government.

The Coalition Provisional Authority only awarded short-term repair and restoration contracts – for service companies such as Halliburton and Parsons to restore the country's existing oil infrastructure, which had been damaged by war and sanctions – rather than long-term extraction concessions. In February 2005, Interim Oil Minister Thamer al-Ghadban stated that "As for the extraction sector, that is, dealing with the oil and gas reserves, which are 'assets', privatisation is completely out of the question at the moment."²⁰

But if the non-privatisation of oil was a surprise, this was largely based on a misconception of what "privatisation" means in the Iraqi context. In the minds of some neo-conservatives, writing on Iraqi oil before the war, privatisation meant the transfer of *legal ownership of Iraq's oil reserves into private hands*. However, in all countries of the world except the USA^a, reserves (prior to their extraction) are legally the property of the state. This is the case in Iraq, and remains so under the new Constitution. There has never been a realistic prospect of US-style privatisation of Iraq's oil reserves. But this does not mean that private companies would not develop Iraq's oil.

In some ways, the debate on "privatisation" has obscured the important practical issues of who gets the **revenue** from the oil, and who **controls** the way in which oil is developed. On this matter, Iraq has a relevant history.

The development of Iraq's oil industry began in the aftermath of the First World War, while the



Through PSAs, oil companies can generate very high profits, while giving the illusion of state control over oil resources

Photo: Greg Muttitt

country was occupied by Britain under a League of Nations Mandate. In 1925, Iraq's British-installed monarch, King Faisal, signed a concession contract with the Iraq Petroleum Company (IPC)²¹, a consortium of British, French and (later) American oil companies. The contract followed a model widely applied in the British colonies. It was for a period of 75 years, during which terms were frozen. Combined with two further concessions granted in the 1930s, the IPC obtained rights to all of the oil in the entire country. Even the Iraqi call for a 20% stake in the concession was denied, despite having been specified in earlier agreements.

As Iraqi frustration at the unfair terms of the deal grew, in the 1950s and 1960s the contract came under pressure. Underpinning this were the issues of whether the split of revenues between company and state was a fair one, and the

[a] In the USA, onshore reserves belong to the landowner, which may be a public or private body or individual

degree of control the foreign companies had over the development: they restricted production to boost their producing areas elsewhere in the world, and used their monopoly on information to fix prices, depriving Iraq of income. These same arguments were echoed in all of the major oil-producing countries at the time, most of which had similar deals with multinational companies. The ultimate conclusion to these disputes was the nationalisation of many oil industries – in Iraq's case in two stages in 1961 and 1972.^b

INTRODUCING PRODUCTION SHARING AGREEMENTS

While these disputes were raging in the Middle East, a different model was emerging in Indonesia. There, a new form of contract was introduced in the late 1960s: the **production sharing agreement (PSA)**.

An ingenious arrangement, PSAs shift the ownership of oil from companies to state, and invert the flow of payments between state and company. Whereas in a concession system, foreign companies have rights to the oil in the ground, and compensate host states for taking their resources (via royalties and taxes), a PSA leaves the oil legally in the hands of the state, while the foreign companies are compensated for their investment in oil production infrastructure and for the risks they have taken in doing so.

Although many in the oil industry were initially suspicious of Indonesia's move, they soon realised that by setting the terms the right way, a PSA could deliver the same practical outcomes as

a concession, with the advantage of relieving nationalist pressures within the country. In one of the standard textbooks on petroleum fiscal systems, industry consultant Daniel Johnston comments:

"At first [PSAs] and concessionary systems appear to be quite different. They have major symbolic and philosophical differences, but these serve more of a political function than anything else. The terminology is certainly distinct, but these systems are really not that different from a financial point of view."²²

So, the financial and economic implications of PSAs may be the same as concessions, but they have clear political advantages – especially when contrasted with the 1970s nationalisations in the Middle East. Professor Thomas Wälde, an expert in oil law and policy at the University of Dundee, describes them as:

"A convenient marriage between the politically useful symbolism of the production-sharing contract (appearance of a service contract to the state company acting as master) and the material equivalence of this contract model with concession/licence regimes in all significant aspects...The government can be seen to be running the show - and the company can run it behind the camouflage of legal title symbolising the assertion of national sovereignty."²³

As we will see, these advantages now appear to make PSAs the Western method of choice for future development of the Iraqi oil industry.

OPTIONS FOR OIL POLICY

There are essentially three models a country may choose from for the structure of its oil industry, plus a number of variations on these themes.

1. The system currently in place in Iraq, which has been the case since the early 1970s, is a **NATIONALISED INDUSTRY**. In this model, the state makes all of the decisions, and takes all of the revenue. The extent of involvement of foreign private companies is that they might be hired to carry out certain services under contract (a **technical service contract**) – a well-defined piece of work, for a limited period of time, and for which they receive a fixed fee. This is the model used throughout most of the Gulf region.

[b] The last remnants of concessions were nationalised in 1975.

One variant on the technical service contract is the **risk service contract**. In this system, a private company provides capital to invest in a project, but is paid a fixed rate of return, agreed in the contracts (thus preventing excessive profits). A similar mechanism is the **buyback contract**, which has been used on some fields in Iran, in which companies also have a right to buy the oil or gas.

2. In the **CONCESSION** model, sometimes known as the tax and royalty system, the government grants a private company (or more often, a consortium of private companies) a license to extract oil, which becomes the company's property (to sell, transport or refine) once extracted. The company pays the government taxes and royalties for the oil.

3. The **PRODUCTION SHARING AGREEMENT (PSA)** is a more complex system. In theory, the state has ultimate control over the oil, while a private company or consortium of companies extracts it under contract. In practice, however, the actions of the state are severely constrained by stipulations in the contract. In a PSA, the private company provides the capital investment, first in exploration, then drilling and the construction of infrastructure. The first proportion of oil extracted is then allocated to the company, which uses oil sales to recoup its costs and capital investment – the oil used for this purpose is termed 'cost oil'. There is usually a limit on what proportion of oil production in any year can count as cost oil. Once costs have been recovered, the remaining 'profit oil' is divided between state and company in agreed proportions. The company is usually taxed on its profit oil. There may also be a royalty payable on all oil produced.

Sometimes the state also participates as a commercial partner in the contract, operating in **joint venture** with foreign oil companies as part of the consortium – with either a concession or a PSA model. In this case, the state generally provides its percentage share of development investment and directly receives the same percentage share of profits.

3. Pumping profits: Big Oil and the push for PSAs

As with many issues of foreign policy, the interests of the world's largest oil corporations mesh closely with those of their national governments – as we saw in section 1. While the governments seek secure and adequate supplies of oil to feed their economies, the corporations need control over reserves to ensure their future profitability, to deliver returns to their shareholders. For governments, “secure” oil supplies often means that they are in fact part-controlled by major oil corporations based in their own countries.

For their part, major multinational oil companies have made no secret of their desire to gain access to Iraq's reserves. Shortly before the invasion Archie Dunham, chairman of US oil major ConocoPhillips, explained that “We know where the best [Iraqi] reserves are [and] we covet the opportunity to get those some day.”²⁴ Shell has stated that it aims to “establish a material and enduring presence in the country.”²⁵



Oil companies covet Iraq's oil wealth, and are pushing for access to it through production sharing agreements

Photo: Greg Muttitt

Since the overthrow of Saddam Hussein, foreign oil companies have worked hard to build relationships with Iraq's Oil Ministry. They have appointed lobbyists to develop relationships with influential officials, provided training (often for free) for Iraqi officials and technicians, sponsored Oil Ministry participation in international conferences, and entered contracts (again, often for free) to analyse oilfield geological data.

In 2004, Shell recruited an Iraqi external affairs officer to help the company gain access to Iraqi government decision-makers, specifying in their advertisement:

“A person of Iraqi extraction with strong family connections and an insight into the network of families of significance within Iraq.”²⁶

Through these means, the companies aim to be well-positioned when it comes to the signing of contracts.

WHAT OIL COMPANIES WANT

It is helpful at this point to look at the companies' agenda for Iraq. Oil corporations are looking for three things when they invest in a country, all of which are delivered by production sharing agreements:

1. **A right to oil reserves.** Companies want a deal that guarantees their right to extract the reserves for many years, thus ensuring their future growth and profits. Furthermore, they want a contract that allows them to ‘book’ these reserves – including them in their accounts – which increases their company value. Production sharing agreements, like concession contracts, permit companies to book reserves in their accounts. The importance of this should not be underestimated for the oil majors. In 2004, when British/Dutch oil company Shell was found to have overstated the size of its ‘booked’ reserves by over 20%, it lost the faith of the financial markets: this impacted heavily on its share price and credit rating.

Shell is now desperate to acquire new reserves – which is a key reason why Shell has made more effort than most to make friends in Iraq.

2. **An opportunity to make large profits.** Generally, oil companies make their profits from investing and risking their capital. In some cases, they lose their capital, for example when they drill a 'dry well'. But in some cases they will find large and hugely profitable fields. Oil companies are therefore very different from service companies like Halliburton, which make money from fixed fees on predictable contracts. Oil companies aim for deals which may be more speculative, but which give them a chance of making super-profits. Production sharing agreements are designed to allow companies to achieve very large profits if successful.
3. **Predictability of tax and regulation.** While companies can accept exploration risk (that they won't find oil) or price risk (that the oil price falls), both being beyond their control, they try to manage 'political risk' (that tax or regulatory demands will increase) by locking in governments. They thus seek to bind governments into long-term contracts that fix the terms of their investment. Production sharing agreements generally last for 25 to 40 years with terms protected from potential change by incoming governments.

Shell's head of Exploration & Production, speaking at a conference in 2003, made the case for PSAs:

"...international oil companies can make an ongoing contribution to the region [the Persian/Arabian Gulf]... However, in order to secure that investment, we will need some assurance of future income and, in particular, a supportive contractual framework. There are a number of models which can achieve these ends. One option is the greater use of production sharing agreements, which have proved very effective in achieving an appropriate balance of incentives between Governments and oil companies. And they ensure a fair distribution of the value of a resource while providing the long term assurance which is necessary to secure the capital investment needed for energy projects."²⁷

THE VOICE OF BIG OIL

The most detailed expression of what the oil companies are seeking in Iraq has been made by the International Tax & Investment Centre (ITIC), a corporate lobby group pushing for pro-business investment and tax reform.

Almost all of ITIC's 110 listed sponsors are large corporations, with roughly a quarter of these in the oil sector. ITIC's Board of Directors contains representatives from Shell, BP, ConocoPhillips, ExxonMobil and ChevronTexaco. Since its launch in 1993, ITIC has primarily focused on the former Soviet Union, but more recently, it has expanded its work to include Iraq. Its 2004 strategy review concluded that this project "should be continued and considered as a "beachhead" for possible further expansion in the Middle East."²⁸

In autumn 2004 ITIC issued a major report entitled *Petroleum and Iraq's Future: Fiscal Options and Challenges*, which includes the following key recommendations:

- *"The most appropriate legal and fiscal form for the facilitation of [Foreign Direct Investment] longer-term development of Iraq's petroleum industry will be a production sharing agreement (PSA)."*²⁹
- Foreign Direct Investment, by ITIC members and other multinational oil companies, would "effectively "kick start" the [Iraqi] economy and avoid the government diverting spending to oil development that is sorely needed for other programmes."³⁰

PSAs are lauded as providing the "simplest and most attractive regulatory ... framework" which the ITIC claims are now the "norm in most countries outside the OECD."³¹ Having reviewed the various options, with due consideration to "international experience and regional preferences", the ITIC concludes that the alternative models are far inferior to PSAs.

INAPPROPRIATE FOR IRAQ

PSAs are indeed quite common in countries with small oil reserves and/or high extraction costs (especially from offshore fields) and/or high exploration or technical risks. However, none of these conditions apply to Iraq; in fact, Iraq is quite the opposite. PSAs are not found in any other country comparable to Iraq.

Countries with reserves the size of Iraq's do not use PSAs because they are able to invest in their oil industries on far more beneficial terms



Photo: Greg Nuttitt

It is difficult to overstate how radical a departure PSAs would be from normal practice, both in Iraq and in other comparable countries of the region. Iraq's oil industry has been in public hands since 1972; prior to that the rights to develop oil in 99.5% of the country had also been publicly held since 1961^a

In Iraq's neighbours Kuwait, Iran and Saudi Arabia, foreign control over oil development is ruled out by constitution or by national law. These countries together with Iraq are the world's top four countries in terms of oil reserves, with 51% of the world total between them.³²

Together with the United Arab Emirates, Venezuela and Russia, seven countries hold 72% of the world's oil reserves. These latter three all have

some foreign involvement through concession agreements, although both Venezuela and Russia are currently drawing back from it, following unsuccessful expansions in foreign investment in the 1990s. Of these seven countries with major oil reserves, only Russia has any production sharing agreements. Russia signed three PSAs in the mid 1990s; however, PSAs have been the subject of extreme controversy ever since, due to the poor deal the state has obtained from them, and it now looks unlikely that any more will be signed.

Countries with reserves the size of Iraq's do not use PSAs because they do not need to and are able to run their oil industries on far more beneficial terms.

[a] During the final years of Saddam Hussein's regime, Iraq tried to re-open its oil industry to foreign capital. This process was highly political, and contracts were negotiated with and awarded primarily to companies from UN Security Council member countries Russia, China and France, in an attempt to win support for the dropping of UN sanctions. A PSA deal was actually signed in 1997 - with Russian company Lukoil for the West Qurna field - but never implemented, due to the sanctions. Ultimately, Saddam cancelled the contract. Disputes still continue with the new Iraqi authorities as to whether this contract has any validity. Saddam also signed a development and production contract (DPC) with China National Petroleum Corporation for the al-Ahdab field (also never implemented, and ultimately frozen), and came very close to signing a PSA deal with French company Total, on the Majnoon field. Negotiations also took place on various other fields for PSAs, buybacks or DPCs (see section 6).

4. From Washington to Baghdad: Planning Iraq's oil future

PRE-INVASION PLANNING

Prior to the 2003 invasion, the principal vehicle for planning the new post-war Iraq was the US State Department's Future of Iraq project. This initiative, commencing as early as April 2002, involved meetings in Washington and London of 17 working groups, each comprised of 10-20 Iraqi exiles and international experts selected by the State Department³³.

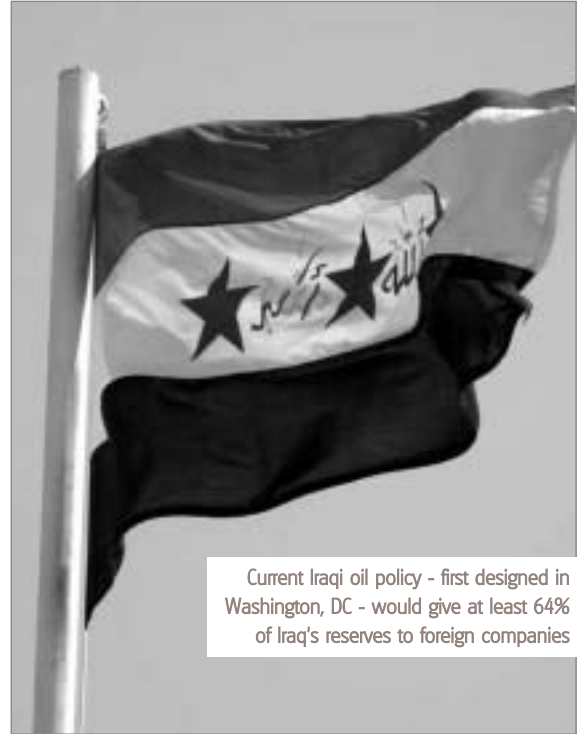
The "Oil and Energy" working group met four times between December 2002 and April 2003. Although the full membership of the group has never been revealed, it is known that Ibrahim Bahr al-Uloum, the current Iraqi Oil Minister, was a member.³⁴ The 15-strong oil working group concluded that Iraq "should be opened to international oil companies as quickly as possible after the war" and that "the country should establish a conducive business environment to attract investment of oil and gas resources."³⁵

The subgroup went on to recommend production sharing agreements (PSAs) as their favoured model for attracting foreign investment. Comments by the handpicked participants revealed that "many in the group favoured production-sharing agreements with oil companies." Another representative commented, "Everybody keeps coming back to PSAs."³⁶

The reasons for this choice were explained in the formal policy recommendations of the working group, published in April 2003:

"Key attractions of production sharing agreements to private oil companies are that although the reserves are owned by the state, accounting procedures permit the companies to book the reserves in their accounts, but, other things being equal, the most important feature from the perspective of private oil companies is that the government take is defined in the terms of the [PSA] and the oil companies are therefore protected under a PSA from future adverse legislation."³⁷

The group also made it clear that in order to



maximize investments, the specific terms of the PSAs should be favourable to foreign investors:

"PSAs can induce many billions of dollars of foreign direct investment into Iraq, but only with the right terms, conditions, regulatory framework, laws, oil industry structure and perceived attitude to foreign participation."³⁸

Recognising the importance of this announcement, The Financial Times noted:

"Production-sharing deals allow oil companies a favourable profit margin and, unlike royalty schemes, insulate them from losses incurred when the oil price drops. For years, big oil companies have been fighting for such agreements without success in countries such as Kuwait and Saudi Arabia."³⁹

The article concluded that: "The move could spell a windfall for big oil companies such as ExxonMobil, Royal Dutch/Shell, BP and TotalFinaElf..."

SHAPING THE NEW IRAQ

The US and UK have worked hard to ensure that the future path for oil development chosen by the first elected Iraqi government will closely match their interests. So far it appears they have been highly successful: production sharing agreements, which were first proposed by the U.S. State Department group, have emerged as the model of oil development favoured by all the post-invasion phases of Iraqi government.

Phase 1: Coalition Provisional Authority and Iraqi Governing Council

During the first fourteen months following the invasion, occupation forces had direct control of Iraq through the Coalition Provisional Authority. Stopping short of privatising oil itself, the CPA began setting up the framework for a longer-term oil policy.

The CPA appointed former senior executives from oil companies to begin this process. The first advisers were appointed in January 2003, before the invasion even started, and were stationed in Kuwait ready to move in. First, there were Phillip Carroll, formerly of Shell, and Gary Vogler, of ExxonMobil, backed up by three employees of the US Department of Energy and one of the Australian government. Carroll described his role as not only to address short-term fuel needs and the initial repair of production facilities, but also to:

- *“Begin planning for the restructuring of the Ministry of Oil to improve its efficiency and effectiveness; [and]*
- *Begin thinking through Iraq’s strategy options for significantly increasing its production capacity.”⁴⁰*

In October 2003, Carroll and Vogler were replaced by Bob McKee of ConocoPhillips, and Terry Adams of BP, and finally in March 2004, by Mike Stinson of ConocoPhillips and Bob Morgan of BP^a. The £147,700 cost of the two British advisers, Adams and Morgan, was met by the UK government.⁴¹ Following the handover to the Iraq Interim Government in June 2004, Stinson became an adviser to the US Embassy in Baghdad.

On 13 July 2003, in the first move towards Iraqi self-government, the CPA Administrator Paul

Bremer appointed the quasi-autonomous, but virtually powerless, Iraqi Governing Council. On the same day Bremer appointed Ibrahim Bahr al-Uloum, who had been a member of the U.S. State Department oil working group, as Minister for Oil.

Within months of his appointment Bahr al-Uloum announced that he was preparing plans for the privatisation of Iraq's oil sector, but that no decision would be taken until after elections scheduled for 2005.⁴²

Speaking to the Financial Times, Bahr al-Uloum, a US-trained petroleum engineer, said: “The Iraqi oil sector needs privatisation, but it’s a cultural issue,” noting the difficulty of persuading the Iraqi people of such a policy. He then proceeded to announce that he personally supported:

- Production sharing agreements for upstream (i.e. extraction of crude oil) development;
- giving priority to US oil companies, “and European companies, probably.”⁴³

Phase 2: Iraq Interim Government

In June 2004, the CPA formally handed over Iraqi sovereignty to an interim government, headed by Prime Minister Iyad Allawi.

The position of Minister of Oil was handed to Thamir al-Ghadban, a UK-trained petroleum engineer and former senior adviser to Bahr al-Uloum. In an interview in Shell’s in-house magazine, al-Ghadban announced that 2005 would be the “year of dialogue” with multinational oil companies.⁴⁴

About three months after taking power, Allawi issued a set of guidelines to the Supreme Council for Oil Policy, from which the Council was to develop a full petroleum policy. Pre-empting both the Iraqi elections and the drafting of a new constitution, Allawi’s guidelines specified that while Iraq’s currently producing fields should be developed by the Iraq National Oil Company (INOC), all other fields should be developed by private companies, through the contractual mechanism of production sharing agreements (PSAs).⁴⁵

Iraq has about 80 known oilfields, only 17 of which are currently in production. Thus the Allawi guidelines would grant the other 63 to private companies.

[a] Bob Morgan died as a result of a rocket attack on his car in Baghdad, in May 2004

Allawi also added that:

- New fields would be developed exclusively by private companies, with the policy ruling out any participation of INOC;⁴⁶
- The national oil company INOC, which manages existing oil fields, should be privatised;⁴⁷
- The Iraqi authorities should not spend time negotiating the best possible deals with the oil companies; instead they should proceed quickly, agreeing whatever terms the companies will accept, with a possibility of renegotiation^b later.⁴⁸

Phase 3: Transitional Government and writing the Constitution

The interim government was replaced in early 2005 by the election of Iraq's new National Assembly, which led to the formation of the new government with Ibrahim al-Ja'afari as Prime Minister. In a move which no doubt assisted policy continuity from the period of US control, Ibrahim Bahr al-Uloum was reappointed to the position of Minister for Oil.

Meanwhile, Ahmad Chalabi, the Pentagon's former favourite to run Iraq, was appointed chair of the Energy Council, which replaced the Supreme Council for Oil Policy as the key overseer of energy and oil policy. Back in 2002 Chalabi had famously promised that "US companies will have a big shot at Iraqi oil."⁴⁹

By June 2005, government sources reported that a Petroleum Law^c had been drafted, ready to be enacted after the December elections. According to the sources – although some details are still being debated – the draft of the Law specifies that while Iraq's currently producing fields should be developed by INOC, new fields should be developed by private companies.

In October 2005, a new Constitution was accepted in a referendum of the Iraqi population. Like much of the Constitution, the oil policy section is open to some interpretation. Apparently referring to fields not currently in production, it states:

"The federal government and the governments of the producing regions and provinces together will draw up the necessary strategic policies to develop oil and gas wealth to bring the greatest benefit for the Iraqi people, relying on the most modern techniques of market principles and encouraging investment."⁵⁰

There are two issues here. The reference to "market principles and encouraging investment" indicates a clear direction of travel, in terms of opening to private companies. Meanwhile the first part of this clause, somewhat vaguely, tries to deal with the issue of jurisdiction. However, while this states that the federal and regional governments will work together, a subsequent clause states that:

"All that is not written in the exclusive powers of the federal authorities is in the authority of the regions. In other powers shared between the federal government and the regions, the priority will be given to the region's law in case of dispute."⁵¹

Signing of contracts for extraction of oil and other natural resources is not listed⁵² as one of the exclusive powers of the federal authorities – the implication is thus that on new fields, it is the authority of the regional governments.

This situation is quite unclear, and is further muddled by a last-minute deal, arranged just before the constitutional referendum, that the Constitution could be amended in the first half of 2006, and by comments by Zalmay Khalilzad, US Ambassador to Iraq, that "after that, as Iraq evolves, so, too, will this charter evolve".⁵³

In so far as the decision rests with Baghdad, the Oil Ministry is keen to sign contracts as quickly as possible. According to officials in the Ministry, their aim is to begin signing long-term contracts with foreign oil companies during the first nine months of 2006.⁵⁴ In order to achieve this goal, officials wanted to start negotiations with oil companies during the second half of 2005, *before* a legitimate Iraqi government is elected and *in parallel* with the writing of a Petroleum Law.⁵⁵ This time frame means that contracts will be negotiated without public participation or debate, or proper legal framework.

[b] In this, Allawi was being highly unrealistic. Although contracts can allow a certain degree of renegotiation, companies will not sign them if the potential for renegotiation is substantive or meaningful.

[c] Following the agreement on a Constitution, a Petroleum Law is the next step in defining how the oil industry is to be run.

Meanwhile, the Kurdish authorities are even more impatient to sign deals. In June 2004, the Kurdistan Regional Government (KRG) signed an exploration and development deal with Norwegian company DNO. In a clear sign of the tensions between Baghdad and the regions, the Oil Ministry reacted by warning companies that if they signed deals with regional governments, they would be excluded from contracts at a national level.

Then in October 2005, the KRG signed a memorandum of understanding (MOU) with K Petroleum Company, which is jointly owned by the Canada-based Heritage Oil and the Kurdish company Eagle, to carry out oilfield studies adjacent to the Taq Taq field in Kurdistan. Announcing the deal, Heritage stated that

*"Negotiations to formalize the MOU into a Production Sharing Agreement(PSA) are scheduled to commence while the work program is being carried out.KPC is confident these studies will translate into a PSA, although there is no guarantee that a license will be awarded to the Company."*⁵⁶

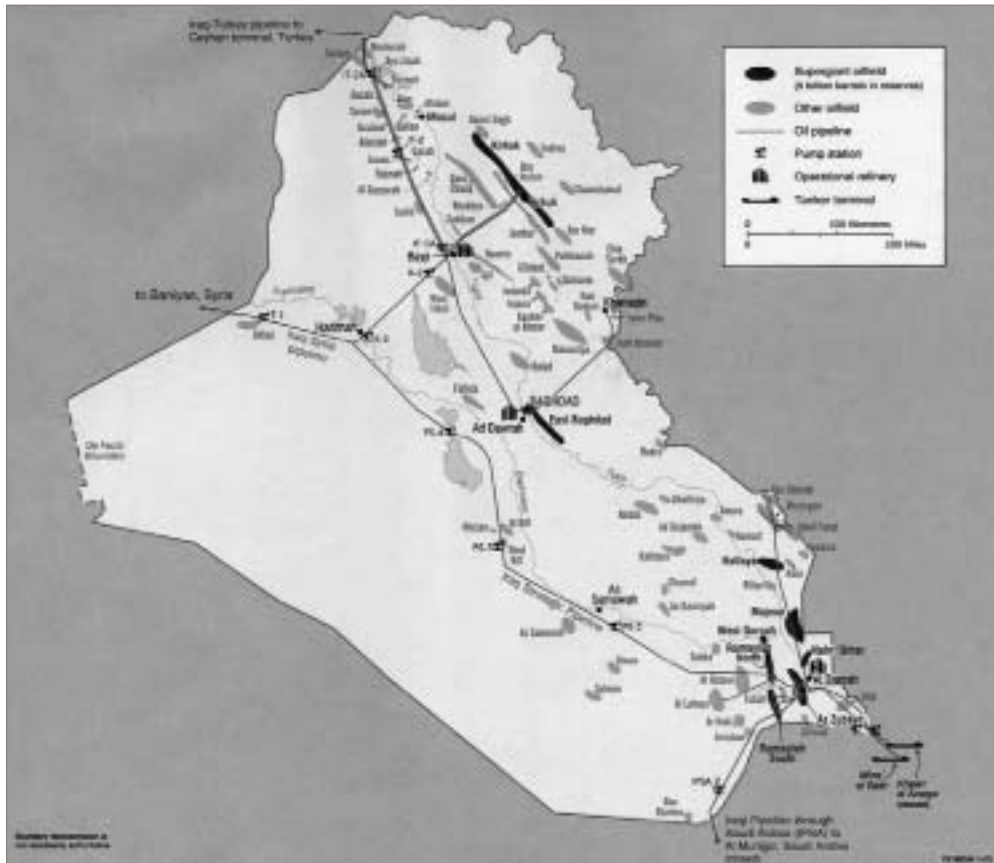
For the southern oilfields, the outlook is less clear. In any case, regional governments of both

Kurdistan and southern Iraq would have far weaker bargaining power in negotiating with foreign oil companies than the Iraqi Oil Ministry (or Iraq National Oil Company), as they lack both the institutional experience and the consolidated weight of handling the entire country's resources. The likely result would be more negative terms than could be achieved at a national level.

As noted above, only 17 of Iraq's 80 known fields are currently in production.⁵⁷ As these 17 fields represent only 40 billion of Iraq's 115 billion barrels of known oil reserves, the policy to allocate undeveloped fields to foreign companies would give those companies control of 64% of known reserves.⁵⁸ If a further 100 billion barrels are found, as is widely predicted, the foreign companies could control as much as 81% of Iraq's oil; if 200 billion are found, as the Oil Ministry predicts, the foreign company share would be 87%.

Given that oil accounts for over 95% of Iraq's government revenues⁵⁹, the impact of this policy on Iraq's economy would be enormous.

Map of Iraqi oil fields and pipelines



Map: University of Texas Libraries

5. Contractual rip-off: The cost of PSAs to Iraq

While the advantages of production sharing agreements for multinational oil companies are clear, there is a severe shortage of independent analysis of whether PSAs are in the short, medium and long-term interests of the Iraqi people. Unfortunately the Iraqi people have not been informed of the pro-PSA oil development plans, let alone their implications, which have transformed so seamlessly from US State Department recommendations into Iraqi government policy. This report hopes to go some way towards redressing this balance.

Our analysis shows that production sharing agreements have two major disadvantages for the Iraqi people:

1. **The loss of hundreds of billions of dollars in potential revenue;**
2. **The loss of democratic control of Iraq's oil industry to international companies;**

PSAs may also undermine an important opportunity to establish effective public oversight and end the current corruption and financial mismanagement in the Iraqi oil sector (see Section 6).

PSAs generally last (with fixed terms) for between 25 and 40 years: thus once signed the Iraqi people would have to live with the consequences for decades.

LOSING REVENUE: HOW MUCH WOULD PSAS COST THE IRAQI PEOPLE?

In order to understand why foreign oil companies are so keen to invest in Iraq, one needs to look at the economic outcomes that would result from applying PSA contracts to the Iraqi oil sector.

We have produced economic models of 12 of Iraq's oilfields that have been listed as priorities for investment under production sharing agreements. We do not know yet what terms Iraqi contracts might contain (that will not be known until they are signed – and possibly not at all, if they are not disclosed to the public). Therefore we have taken contractual terms used in other comparable countries, and applied them to the physical characteristics of Iraq's oilfields (based on data from the Iraqi Oil Ministry, the US Government and respected industry analysts such as Deutsche Bank – see Appendix 3). This process allows us to project the cashflows to the Iraqi state and to foreign oil companies, under a range of assumptions (such as oil price).

Specifically, we look at terms used in Oman and Libya (both having comparable physical conditions to Iraq) and Russia (the only country with any PSAs which has reserves at all comparable in scale to Iraq's). The terms recently applied in Libya are widely viewed to be among the most stringent in the world. We have then compared the results with expected revenues of a nationalised system, administered by state-owned oil companies.^a

Using an average oil price of \$40 per barrel, our projections reveal that the use of PSAs would cost Iraq between \$74 billion and \$194 billion in lost revenue, compared to keeping oil development in public hands.

This massive loss is the equivalent of \$2,800 to \$7,400 per Iraqi adult over the thirty-year lifetime of a PSA contract. By way of comparison Iraqi GDP currently stands at only \$2,100 per person, despite the very high oil price.⁶⁰

It should be noted that these figures relate to only 12 of Iraq's more than 60 undeveloped fields. Iraq has identified 23 priority fields on which to potentially sign contracts in 2006.^b Thus when the other 11 fields are added, along with a

[a] We also ran the models with the terms used in PSAs in Syria and in Equatorial Guinea, and those signed by Saddam Hussein with Lukoil for the West Qurna field in 1997 (which was never implemented, and was subsequently cancelled). All of them produced results within the same range as the three outlined here.

[b] Of these, we were unable to obtain full data on 11 of the smaller ones; however the 12 we have analysed still account for more than 90% of the 23 fields' projected production (and hence revenue).

TABLE 5.1: IMPACT OF PSAs ON IRAQI STATE REVENUES

	Total undiscounted revenue (US\$ billion)	State take	Total revenue loss under PSA scenario (US\$ billion)
Nationalised	971	100%	-
Russia PSA terms	779	80%	192
Oman PSA terms	777	80%	194
Libya PSA terms	897	92%	74

Figures in real terms (2006 prices), at constant \$40/bbl oil price, for the period 2006-35. See appendices 3-5 for details of full results, data sources, methodology and modelling assumptions.

further 35 or more later, and especially other fields yet to be discovered (recall that Iraq's undiscovered reserves may be as large or even double the known reserves), the full cost of the PSA policy could be considerably greater.

We have been deliberately conservative with our assumptions. Our assumptions and methodology are outlined in Appendix 4.

Both the corporate lobby group ITIC (see section 3) and the British Foreign Office have argued that foreign investment can free up Iraqi government

budgets for other priority areas of spending, to the tune of around \$2.5 billion a year.⁶¹ Although technically true, this is deeply misleading – as the investment now would be offset by the loss of revenues later.

Amazingly, in ITIC's report advocating the use of PSAs, the economic impact is only examined up to 2010⁶² – ignoring the fact that any foreign investment must be repaid.^a It is as if one took out a bank loan but only considered the economic impact prior to paying it back!



The use of PSAs could deprive Iraq of \$190 billion of revenue

Photo: Greg Muttitt

[a] This omission compounds the inaccuracy of ITIC's assumption that without foreign direct investment, oil production will not grow beyond 3.5 million barrels per day – on this point, see the section 6.

In contrast, in this report, we look at the impact of PSAs over the whole length of the contract. Economists and indeed oil companies compare investments using the process of 'discounting', and the concept of 'net present value' (NPV). NPV is a measure of what the later income or expenditure would be worth if they were received or incurred now (See Appendix 2).

When looked at in these terms, far from 'saving' the government \$8.5 billion of investment (the whole investment over several years, in 2006 NPV), these contracts will cost Iraq a (2006) NPV of \$16 - \$43 billion, at a 12% discount rate.^b

Our assumed oil price for these calculations is \$40 per barrel. The oil price is currently fluctuating around \$60 per barrel, and there is an argument that structural factors, such as increasing demand in China and India, mean that oil prices are likely to stay at this level – which would make our \$40 assumption conservative.

However, the oil price is notoriously difficult to predict. We therefore also look at the models at a higher price of \$50 and a lower price of \$30 per barrel. Here the models show that Iraq would lose \$55 to \$143 billion at \$30 per barrel, while if the oil price averaged a higher \$50 per barrel, Iraq would lose far greater revenues of \$94 - \$250 billion, compared to the nationalised model.

TABLE 5.2: IMPACT OF PSAs ON DISCOUNTED IRAQI STATE REVENUES

	State revenue - 2006 net present value (US\$ billion)	State take	Revenue loss under PSA scenario – 2006 NPV (US\$ billion)
Nationalised	183	100%	-
Russia PSA terms	140	77%	43
Oman PSA terms	147	80%	36
Libya PSA terms	167	91%	16

Figures in real terms (2006 prices), at constant \$40/bbl oil price, using a discount rate of 12%, for the period 2006-35. See appendices 3-5 for details of full results, data sources, methodology and modelling assumptions.

TABLE 5.3: IMPACT OF ALTERNATIVE OIL PRICE SCENARIOS ON IRAQI STATE REVENUES

Loss relative to nationalised scenario shown in brackets ^c	US\$30/barrel scenario		US\$50/barrel scenario	
	Total undiscounted revenue (US\$ billion)	Total NPV revenue at 12% (US\$ billion)	Total undiscounted revenue (US\$ billion)	Total NPV revenue at 12% (US\$ billion)
Nationalised	716	133	1,227	232
Russia PSA terms	580 (136)	104 (30)	977 (250)	175 (57)
Oman PSA terms	573 (143)	107 (26)	982 (245)	186 (46)
Libya PSA terms	661 (55)	122 (12)	1,133 (94)	212 (20)

[b] We have used a 12% discount rate, as the rate most commonly used in the oil industry. However, it should be noted there is some debate among development economists as to what discount rate should be used for public sector investments. It is commonly argued that, since states can borrow capital at lower interest rates than private companies, and since states do not invest in the same way as companies (and so do not experience the same extent of opportunity costs), the discount rate should be lower than for private sector investments. For example, US public institutions use a discount rate of 7%. Some economists even argue that states should apply a zero discount rate, as the process of discounting undervalues expenditure for future generations. A lower discount rate would mean a higher NPV loss to the Iraqi state.

[c] May differ slightly from difference between figures in table, due to rounding.

MASSIVE PROFITS: HOW MUCH DO THE OIL COMPANIES STAND TO GAIN?

Our economic model has also been used to calculate the key measure of oil project profitability - the Internal Rate of Return (IRR) (see Appendix 2) - which the oil companies are expected to make. This provides another measure of whether PSAs represent a fair deal for Iraq.

Profitability varies according to the size of the oil field, so we have based our projections on three different fields which (in Iraqi terms) are typical small, medium and large oil fields.

Our figures show that under any of the three sets of PSA terms, oil company profits from investing in Iraq would be quite staggering, with annual rates of return ranging from 42% to 62% for a small field, or 98% to 162% for a large field. This shows that under PSAs, Iraq's loss in terms of government revenue will be the oil companies' gain.

By way of comparison, oil companies generally consider any project that generates an IRR of more than a 12% to be a profitable venture. For Iraqi oil fields, even under the most stringent PSA terms, it is clear that the oil companies can expect to achieve stellar returns.

Even at prices of \$30/barrel, profits are excessive on all fields, with any terms, ranging from 33% on a small field with stringent terms to 140% on a large field with lucrative terms. At \$50/barrel, the profits are even greater, ranging from 48% to 178%.

LOSING CONTROL: THE DEMOCRATIC COST OF PSAS

Iraq's democracy is new and weak. Having suffered decades of oppression by Saddam Hussein, Iraq's institutions and civil society need time to develop and mature. In this situation many Iraqis may feel that they do not wish to immediately lock their country into **any** single model of oil development over the long term. Unfortunately this is exactly what Iraqi politicians,

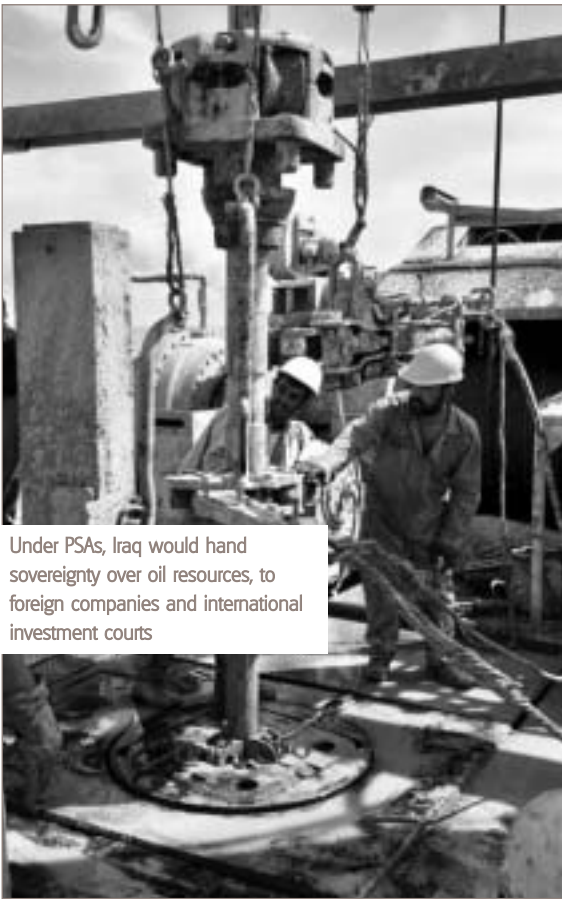
TABLE 5.4: IMPACT OF PSAS ON OIL COMPANY PROFITABILITY

	Projected oil company Internal Rate of Return (%)		
	Amara field (small)	Nasiriya field (medium)	Majnoon field (Large)
Russia PSA terms	62	105	162
Oman PSA terms	51	83	120
Libya PSA terms	42	67	98

For \$40 per barrel average oil price, in real terms (2006 prices). See appendices 3-5 for details of full results, data sources, methodology and modeling assumptions.

TABLE 5.5: OIL COMPANY PROFITABILITY AT DIFFERENT OIL PRICES

	US\$30/barrel scenario			US\$50/barrel scenario		
	Amara	Nasiriya	Majnoon	Amara	Nasiriya	Majnoon
Russia PSA terms	46%	82%	140%	74%	122%	178%
Oman PSA terms	41%	67%	107%	60%	95%	131%
Libya PSA terms	33%	53%	91%	48%	79%	109%



Under PSAs, Iraq would hand sovereignty over oil resources, to foreign companies and international investment courts

Photo: Greg Muttitt

under US and UK pressure, appear to want to do.

As we saw in section 2, *in theory* PSAs would allow the Iraqi state to retain ownership and control over their oil resources. However, *in practice* they will impose severe restrictions on current and future Iraqi governments for the full lifetime (25-40 years) of the contract.

PSAs have four key features that will in practice limit and remove democratic control from the Iraqi people:

- **They fix terms for 25-40 years, preventing future elected governments from changing the contract.** Once a deal is signed, its terms are fixed. The contractual terms for the following decades will be based on the bargaining position and political balance that exists at the time of signing – a time when Iraq is still under military occupation and its governmental institutions are weak. In Iraq's case, this could mean that arguments about political and security risks in 2006 could land its people with a poor deal that long outlasts those risks and is completely unsuited to a potentially more stable and independent Iraq of the future.

- **Secondly, they deprive governments of control over the development of their oil industry.** PSA contracts generally rule out government influence over oil production rates.⁶³ As a result, Iraq would not be able to control the depletion rate of its oil resources – as an oil-dependent country, the depletion rate is absolutely key to Iraq's development strategy, but would be largely out of the government's control. Unable to hold back foreign companies' production rates, Iraq would also be likely to have difficulty complying with OPEC quotas which would harm Iraq's position within OPEC, and potentially the effectiveness of OPEC itself. The only way to avoid either of these two problems would be for Iraq to cut back production on the fields controlled by state-owned oil companies, reducing revenues to the state.

- **Thirdly, they generally over-ride any future legislation that compromises company profitability, effectively limiting the government's ability to regulate.** One of the most worrying aspects of PSAs is that they often contain so-called 'stabilisation clauses', which would immunise the 60-80% of the oil sector covered by PSAs from all future laws, regulations and government policies. Put simply, under PSAs future Iraqi governments would be prevented from changing tax rates or introducing stricter laws or regulations relating to labour standards, workplace safety, community relations, environment or other issues. One common way of doing this is for contracts to include clauses that allocate the 'risks' for such tax or legislative change to the state.⁶⁴ In other words, if the Iraqis decided to change their legislation, they would have to pick up the bill themselves. The foreign oil company's profits are effectively guaranteed.

- **Fourthly, PSAs commonly specify that any disputes between the government and foreign companies are resolved not in national courts, but in international arbitration tribunals which will not consider the Iraqi public interest.** Within these tribunals, such as those administered by ICSID^d in Washington DC, or by the International Chamber of Commerce in Paris, disputes are generally heard by corporate lawyers and trade negotiators who will only

[d] International Centre for Settlement of Investment Disputes

consider the narrow commercial issues and who will disregard the wider body of Iraqi law. As the researcher Susan Lebuscher comments, "That system assigns the State the role of just another commercial partner, ensures that non-commercial issues will not be aired, and excludes representation and redress for populations affected by the wide-ranging powers granted [multinationals] under international contracts."⁶⁵ They may also – especially if connected to bilateral investment treaties – make a foreign company's home state a party to any dispute, thus enabling that country to weigh in on the company's behalf.

This loss of democratic control is illustrated by the case of BP's Baku-Tbilisi-Ceyhan (BTC) oil pipeline, which is being built from the Caspian Sea to the Mediterranean. This project is governed by a Host Government Agreement, some of whose legal provisions are comparable to those in PSAs.

In November 2002, the Georgian Environment Minister said she could not approve the pipeline routing through an important National Park, as to do so would violate Georgia's environmental laws. Both BP and the US government put pressure on the Minister, through then President Shevardnadze. The Minister was forced first to concede the routing with environmental conditions, and then to water down her conditions. Part of the reason for her weak bargaining position was that two years earlier Georgia had signed the Host Government Agreement for the project, which set a deadline for environmental approval within 30 days of the application and stipulated that the contract had a higher status than other Georgian laws. The environment laws the Minister referred to were irrelevant. Ultimately, on the day of the deadline, the President called the Minister into his office, and kept her there until she signed, in the early hours of the morning.⁶⁶

Shortly after Shevardnadze was overthrown in a 'rose revolution' in November 2003, new President Mikhail Sakashvili commented, "We got a horrible contract from BP, horrible"⁶⁷ – but he could not change it.

MULTINATIONAL COMPANIES FAVOUR COMPLEXITY

Another feature of production sharing agreements is that they are the most contractually complex form of oil contract. PSAs generally consist of several hundred pages of technical legal and financial language (often treated as commercially confidential). It is their complexity, not their simplicity, which is advantageous to oil companies.

The simplest form of oil fiscal system is the royalty (defined as a percentage of the total value of the oil), which can be seen as a company paying the state for its oil – effectively 'buying' it. This is used in most concession agreements, and sometimes in PSAs. In comparison with production sharing formulae, it is very clear what the state should receive from royalties – a fixed percentage of the value of oil. As long as the number of barrels extracted is known, and the oil price, it is easy to work out what royalty is due from the oil companies.

However oil companies dislike royalties and prefer systems based on an assessment of profits, such as PSAs. The reason is that they want what they call 'upside' (i.e. opportunities for greater profits) – ways they can reduce their payments, rather than being subject to a fixed level of payment for oil extracted.

Under profit-based systems, revenue is based on the profit remaining when the oil companies' production costs have been deducted from the total revenue. As such, they depend on complex rules for which costs can be deducted, how capital costs are to be treated, and so on. The more complicated the system, the more opportunities there are for a company to maximise their share of the revenue by sophisticated use of accountancy techniques. Not only do multinational companies have access to the world's largest and most experienced accountancy companies, they also know their business in more detail than the state they are working with. Consequently a more complicated system tends to give multinationals the upper hand.

For example, in the Sakhalin II project in Russia, the complex terms of the PSA resulted in all cost over-runs being effectively deducted from state revenue instead of from the Shell-led consortium's profits. During the planning and early

construction of the project, costs inflated dramatically. In February 2005, the Audit Chamber of the Russian Federation published a review of the economics of the project, finding that cost over-runs, due to the terms of the PSA, had already cost the Russian state \$2.5 billion.

Although three PSAs were signed in the mid 1990s in Russia, they have been the subject of extreme controversy ever since. The changing view of PSAs in Russia in general also illustrates the loss of democratic control inherent in PSAs – if the government or political climate changes, the terms of a PSA cannot change to reflect new priorities. PSAs generally last for between 25 and 40 years. In Russia's case, the rush to privatise in the early 1990s is now being questioned – but with the PSAs already in force it is impossible to rectify mistakes.

The Sakhalin II PSA is an example of a special type of PSA, which is growing in prominence. In such PSAs, the sharing of 'profit oil' is based not on a fixed proportion, but on a sliding scale, based on the foreign company's profitability. The state receives only a low proportion of profit oil (or in the Sakhalin case, none) until the company has achieved a specified level of profit. Thus, states are deprived of revenue, while corporate profits are guaranteed. (See Appendix 1).

IRAQ WOULD FARE NO BETTER

In theory, Iraq may be able to negotiate PSAs with much more stringent terms than those used elsewhere in the world. As noted above, we do not know what exact terms Iraq might adopt if it uses PSAs. Iraq could also, in theory, avoid some of the more draconian legal clauses outlined above.

However, we have also seen that there are a number of structural features of PSAs which are likely to act against Iraq's interests, whatever the terms. Helmut Merklein, a former senior official of the US Department of Energy, explains this based on the concept of economic rents – the excess profits of oil production (after deducting production costs and a reasonable return on capital):

"For all the sophistication and the bells and whistles these contracts have, ... they all have two basic flaws, which make them less than perfect in terms of capturing rent. They are subject to distortions through petroleum price fluctuations in world

*markets, and they generally fail to provide the host country with its proper rent if the field turns out to be greater than expected. Various triggers in those agreements reduce the host country's exposure, but they never really eliminate it."*⁶⁸

The generation of rents is a feature of oil production. Because of oil's sheer value, its extraction generates profits beyond what is normally expected on an investment. These rents should belong to the country that possesses the oil resource. However, Merklein's point is that PSAs cannot – in unpredictable economic circumstances – deliver the country its fair share of the rents, and inevitably tend to give foreign oil companies excessive profits at the country's expense.

To the flaws identified by Merklein, we would add the long-term and restrictive nature of PSAs, that their terms are fixed as negotiated in a situation which – one hopes – will not persist in Iraq; and that they also place legal constraints beyond the issue of revenue-sharing, as we have seen.

In some countries, circumstances in the oil sector may favour investment through a mechanism such as PSAs, in spite of these disadvantages – such as where fields are offshore, risk capital for exploration is required, or the country lacks technical competence. In Iraq, however, these conditions do not apply, and given the country's huge oil wealth, it does not need to accept the negative consequences of PSAs.

On top of these structural flaws in PSAs, there are grounds to doubt whether the specific terms Iraq might achieve would be any better than in other countries, despite Iraq's enormous oil reserves. The key issue here is bargaining power: the Iraqi state is new and weak, and damaged by the ongoing violence and by corruption, and the country is still under military occupation.

In fact, rather than negotiating a more stringent PSA deal than elsewhere, the oil companies will inevitably wish to focus on the current security situation to push for a deal comparable to – or better than – that in other countries in the world, while downplaying the huge reserves and low production costs which make Iraq an irresistible investment.

Indeed, precisely this point is being pushed by the oil companies and their governments. The corporate lobby group ITIC attempts to invert conventional economic logic, by implying that

there is greater competition among oil-producing countries than among private companies:

*"Although Iraq's potential petroleum wealth is enormous, the government still faces competition from other countries offering petroleum rights to investors. ... Investors, too, are competing for access to attractive petroleum deposits but competition among them may be limited if the project in question requires scarce expertise or depth of financial resources."*⁶⁹

Thus one of ITIC's key recommendations is that Iraq "offer to companies profit potential consistent with the risk they bear".⁷⁰

Their argument that countries, not companies, must compete is especially perverse given the high oil price, and the wide recognition of supply constraint: that there is a shortage of access to reserves, not of access to capital.

Similarly, the US government's development agency USAID has advised the Iraqi authorities that

*"Countries with less attractive geology and governance, such as Azerbaijan, have been able to partially overcome their risk profile and attract billions of dollars of investment by offering a contractual balance of commercial interests within the risk contract, one that is enforceable under UK and Azeri law with the option of international arbitration."*⁷¹

If Iraq follows that advice, it could not only concede a contractual form which is not in its interests, but specific terms which radically understate the country's attractiveness to the international oil industry. Along with much of its future income, Iraq could be surrendering its democracy as soon as it achieves it.

6. A better deal: Options for investment in Iraq's oil development

A central question for Iraqi planners and politicians is how to invest in the country's oilfields – revenues from which will provide the central plank of the Iraqi economy for the foreseeable future. In the last section we saw, by looking at common practice elsewhere in the world, that investment through production sharing agreements (PSAs), would be likely to come at considerable cost to Iraq.

A RADICAL DEPARTURE

Much as their proponents like to claim that PSAs are standard practice throughout the world's oil industries, in fact International Energy Agency figures show that **just 12% of world oil reserves are subject to PSAs**, compared to 67% developed solely or primarily by national oil companies.⁷² Thus it is far from inevitable or necessary that PSAs must be used in order to obtain investment in Iraq's oil development.

PSAs are often used in countries with small reserves; however the nationalised model is almost exclusively used in all countries with very large oil reserves.

The use of PSAs in Iraq would represent a major departure from common practice among the large oil producers of the region. Iraq and three of its neighbours (Saudi Arabia, Iran and Kuwait) are the world's top four countries in terms of oil reserves, with 51% of the world total between them.⁷³ **None of them use any form of foreign company equity involvement in oilfields.**

Looking further afield, these four Gulf states together with the United Arab Emirates, Venezuela and Russia, hold 72% of the world's oil reserves. These latter three all have some foreign involvement in their oil industry, although both Venezuela and Russia are currently drawing back from it, following unsuccessful expansions in foreign investment in the 1990s. **Of these seven countries with major oil reserves, only Russia has any production sharing agreements.**

In the Russian case, three PSAs were signed in the mid 1990s; they have been the subject of extreme controversy ever since due to the poor deal the state has obtained from them, and it now looks unlikely that any more will be signed.

TABLE 6.1: FOREIGN INVESTMENT IN THE WORLD'S MAJOR OIL RESERVES

	Reserves (billion barrels) end 2004 ⁷³	Share of world total reserves	Foreign company equity investment?	PSAs?
Saudi Arabia	262.7	22.1%	No	No
Iran	132.5	11.1%	No	No
Iraq	115.0	9.7%	No	No
Kuwait	99.0	8.3%	No	No
United Arab Emirates	97.8	8.2%	Yes	No
Venezuela	77.2	6.5%	Yes ⁱ	No
Russian Federation	72.3	6.1%	Yes ⁱⁱ	Yes ⁱⁱⁱ
TOTAL	856.6	72.1		

i In Venezuela, the apertura policy of 1993-8 to allow foreign oil companies in is now being reversed.

ii Russia also saw massive expansion of the private sector's role in the 1990s; the trend is now in the opposite direction.

iii Only three PSAs have been signed, all during the rapid post-Soviet liberalisation of the early-mid 1990s. PSAs are now highly controversial, and no more are likely to be signed.

After 50 years of rip-off by foreign companies and over 20 years of war, Iraq needs the right policies to develop its oil industry.



Photo: Greg Muttitt

OPTIONS FOR INVESTMENT

One argument that is deployed by proponents of PSAs is that Iraq has no other option to generate the capital investment needed to rebuild and expand its oil industry.

This is simply not true. In fact Iraq has at least three options for generating investment in its oil industry, without giving away its revenue and control over the industry:

1. **Direct investment from government budget.**
2. **Government / state oil company borrowing from banks, multilateral agencies and other lenders.**
3. **Investment by international oil companies using more flexible and equitable forms of contract.**

It is not the role of this report to advocate any particular structure for the Iraqi oil industry, nor to advocate for or against the use of foreign investment. That decision rests with the Iraqi people. However, in this section we briefly explore each of these options, all three of which are superior to PSAs in terms of consequences for the Iraqi economy and people.

First, it should be stressed that there is considerable technical competence among Iraqis themselves and foreign companies are not required to manage the industry. Indeed, the most

successful period in the history of Iraq's oil industry was between nationalisation in 1972 and the start of the first of Saddam's wars with Iran in 1980. Freed up from the foreign interference that had unhappily characterised Iraq's previous petroleum history, the Iraq National Oil Company moved forward confidently and effectively: between 1970 and 1979, INOC increased production from 1.5 million to 3.7 million barrels per day and discovered the four super-giant fields West Qurna, East Baghdad, Majnoon and Nahr Umar^a, and at least eight giant fields.

In some areas, the state of Iraqi knowledge may not be the most up-to-date, because of the sanctions era. However, this is easily solved within any of the above models by employing specialist companies under short-term technical service contracts to provide drilling and production expertise when required. Thus what is at issue is how capital is obtained, not skills.

OPTION 1: FINANCING FROM GOVERNMENT BUDGETS

The simplest model would be for the required investment to be provided each year out of government budgets. This is quite possible and appropriate in Iraq's case, because in contrast to many other countries:

- The development cost is low when compared to the return;

[a] Now renamed Bin Umar.

THE NEED FOR TRANSPARENCY

Ensuring that Iraq's oil wealth benefits the majority of Iraqis is not only a question of the contracts themselves. Appropriate development also depends on good governance.

There are very few oil-producing countries that have managed to prevent corruption in their oil sectors, and Iraq is no exception. Indeed, during the three decades of national control over the industry, Iraq's oil wealth was used to sustain a brutal dictatorship and its internal security apparatus, to personally enrich Saddam Hussein and his family, and to finance devastating wars with Iraq's neighbours. Meanwhile, corruption became endemic at all levels of Iraqi officialdom.

Corruption is already a problem in post-Saddam Iraq. Investigations by US and international agencies into the financial operations of the Coalition Provisional Authority and Iraq's interim governments have concluded that billions of dollars have been lost due to corruption, theft and inadequate accountability. The vast majority of that money, estimated to be at least \$4 billion, was derived from Iraq's oil income, which was meant to be invested in the reconstruction of the country.⁸⁵

Whether Iraq's oil is held in the public or the private sector, good governance and effective democratic institutions will be essential. In order to prevent the emergence of another Saddam, it is particularly important to curb the discretionary power of the executive over oil income and expenditure. It is also necessary to ensure that adequate oversight powers are given to appropriate government bodies and that transparency is enshrined in law.ⁱ Furthermore, all oil income and expenditure must be included in a transparent and accountable budgetary process. Auditors should report to parliament and parliamentarians should be able to call ministers and senior officials to account. No national reserve fund should be allowed to be used as a "slush fund".⁸⁶

These challenges are enormous in Iraq. However, the insistence by the United States, the oil industry and their allies on constitutional and contract terms favourable to foreign investors with minimal state regulation, is likely to hinder, not help, transparency and accountability.

Although civil society around the world is now pressing for disclosure of contracts, with some initial successesⁱⁱ, confidentiality remains the norm. Minimum requirements for any form of contract must be the prohibition on non-disclosure clauses and the publication of the contracts themselves.⁸⁷ Even then, PSAs present serious difficulties: as this report has already shown, their complexity makes them notoriously difficult to monitor.

The attitude of multinational oil companies can also be unhelpful. Corruption problems often arise from the 'ultra-presidential' status of the executive and Iraq Revenue Watch warns:

"Foreign influence also has had a hand in promoting ultra-presidential systems. During the 20th century, companies mainly preferred to deal with one "negotiator," either the president or his representatives, and the executive branch in many resource rich countries grew all-powerful as oil rents flowed through it. As foreign oil companies engage in more business with Iraq's nationalized oil industry, Iraqis must be vigilant to the potential role of those companies in encouraging an ultra-presidential government."⁸⁸

The emerging lesson from the growing body of evidence of the 'resource curse' – where countries with natural resources such as oil suffer high levels of corruption, and even (paradoxically) economic decline, is that before massive influxes of capital or oil revenue, it is necessary to have in place the institutions to manage them and an economic base that is broader than sole reliance on the oil economy.⁸⁹ In this context, it is precisely the speed of Iraq's opening to the oil multinationals, with rapid change and a lack of clear governance structures, which is likely to create the conditions for corruption and economic failure.

i For more on this, see www.publishwhatyoupay.org - website of the Publish What You Pay coalition of over 280 civil society organisations.

ii Such as in Azerbaijan – legal agreements were unavailable until civil society pressed for them to be published. After which BP posted its agreements on its website www.caspianddevelopmentandexport.com

- As a consequence, the payback period is very quick;
- Since there are considerable proven but currently undeveloped oil reserves, risk to capital is very low (as no exploration is required for immediate field development). In the longer term, Iraq will explore but even this is relatively cheap and low-risk.

Iraq's investment requirement is expected to peak at around \$3 billion per year.⁷⁵ This is well within the range of current budgetary allocations: the 2005 Iraqi oil investment budget is \$3 billion⁷⁶ (out of a total Iraqi budget of around \$30 billion).

Furthermore, within at most three years from the start of development, revenues from new production would well exceed the ongoing investment requirements, and could therefore provide this finance. In other words, at worst Iraq would have to invest \$2.5 – 3.0 bn of its existing budget for three years.

One argument commonly advanced in favour of foreign investment in Iraq's oil is that it would save government budgetary expenditures for other priority areas. For example, the British Foreign Office argued in 2004, in a Code of Practice issued to the Iraqi Oil Ministry:

"In the absence of a very high oil price, Iraq would only be able to finance this investment [in oil development] itself if it could secure a very generous debt reduction deal and was prepared to make substantial cuts in government expenditure in other areas. Given Iraq's needs, it is not realistic to cut government spending in other areas, and Iraq would need to engage with the International Oil Companies (IOCs) to provide appropriate levels of Foreign Direct Investment (FDI) to do this."⁷⁶

In other words, if Iraq pursued the option of direct financing, the amount of money invested from the government budget would no longer be available for schools, hospitals, roads etc. Economists say that this capital has an *opportunity cost*.

However, the use of discounting techniques (see Appendix 2) is precisely designed to allow for the opportunity cost of capital. In the previous section, we saw that, having considered this opportunity cost by discounting, the Iraqi government is still better off investing its own money. The (2006) net present value lost by the

Iraqi state as a result of adopting the PSA policy would be between \$16 and \$43 billion, at 12% discount rate.

This shows that, in purely economic terms, the policy is bad for Iraq. However, the choice of what development path to follow – whether to develop more quickly now, or to build steadily for the long term – is ultimately a political one. As such, this decision should be made by the Iraqi people; but it should be made with a full understanding of the economic implications.

In the previous section, we found that companies could expect rates of return on their investment of between 42% and 162%, depending on the field characteristics and the PSA terms. These rates of return can also be seen as the cost of the capital to the state if Iraq decides to use the PSA financing route.

When looking at it in this way, it is helpful to put all 12 fields together and consider them as a single investment. In this case, we get 'company' internal rates of return of:

Libya PSA terms: 75%

Oman PSA terms: 91%

Russia PSA terms: 119%.

The financial structure of PSAs versus bank loans are different, so these are not directly equivalent to bank interest rates. However, by comparison with bank rates, we can see that the cost of PSA capital would be huge and could not justify the political considerations outlined above.

OPTION 2: GOVERNMENT / STATE OIL COMPANY BORROWING

An alternative option would be for state oil companies (or the government) to borrow the money, either as

1. loans from banks, using future oil production as collateral;
2. concessionary loans from multilateral agencies, such as the World Bank; or
3. the issue of government bonds.

As with the direct funding option above, the low cost of development and quick payback make this quite an attractive option.

Helmut Merklein, a former senior official of the US Department of Energy, comments that the foreign investment/PSA approach, "would be like securing a \$300 loan by pledging a fully paid-for \$300,000 residence as collateral. In contrast he notes:

"With that kind of collateral, there will be no shortage of commercial or governmental (bilateral or multilateral) credit institutions eager to supply the required capital needed to rehabilitate oil production in Iraq."⁷⁸

Muhammad Ali Zainy, an expert on Iraqi oil at the Centre for Global Energy Studies, looks specifically at the Majnoon field as an example, noting that:

"If INOC [Iraq National Oil Company] borrows the \$3 billion amount to be repaid over 20 years at 10% interest compounded annually, the debt service (principal and interest) would be around \$352 million/year, or around \$1.6 per barrel per day. ... [Combining this capital cost with production and transportation costs] the total FOB^b cost to INOC would be \$3.5 per barrel. If this oil is sold at \$35 per barrel, the rent to INOC would be \$31.5 per barrel. With these prices and costs, it should not be very difficult for INOC to borrow from the banks, with incremental oil as the collateral."⁷⁹

What is unclear at this stage is how such an approach would interact with Iraq's existing national debt – the largest (relative to GDP) of any country in the world.

The International Monetary Fund is expected to issue a Standby Agreement, setting out conditions with which Iraq will have to comply in order to receive some debt relief, by the end of 2005. It is unknown whether this will place restrictions on Iraq's future borrowing. The IMF recognises the need for investment in Iraq's oil sector but the IMF is also infamously keen on pressuring countries to privatise their industries.

There is similarly a question of whether commercial lenders would be deterred by Iraq's high level of debt. Their decision will depend in particular on what agreements are made on repaying the existing debt. In any case, the points made by Merklein and Zainy, above, are convincing: given the huge scale of the available

rents^c, and the corresponding potential collateral (from future oil production), it would seem to be more a question of negotiating the right terms than of finding a lender willing to participate.

Furthermore, in light of the priority given by the international community to rebuilding Iraq, lower-cost loans from the World Bank or other multilateral agencies should also be an option.

There is a very strong case, being made by the Jubilee Iraq network⁸⁰ and others, that the bulk of Iraq's debt should be treated as odious debt. That means that the debt was incurred by Saddam Hussein without the consent of, and not for the benefit of, the Iraqi people. Rather, he used it to fight wars and to finance internal repression. Thus, it is argued that the people of Iraq bear no legal or moral responsibility to repay that debt.⁸¹

Were this argument to be accepted by the Iraqi authorities, international borrowing could be quite straightforward. As the *Wall Street Journal* pointed out:

"We wouldn't blame (Iraq's) leaders if they decided that some of those financial obligations are indeed odious. And given that this is such an extreme case, international lenders probably wouldn't hold it against them for long."⁸²

In any case, it is noteworthy that even the strongest advocates of PSAs – including corporate lobby group ITIC, the British government, and Iyad Allawi – seem to accept that borrowing is an option.⁸³

OPTION 3: MORE EQUITABLE AND FLEXIBLE CONTRACTS?

Iraq's neighbours Iran, Kuwait and Saudi Arabia have recently allowed some limited foreign investment in their oil and gas industries, although in a very different way from PSAs.

They have used alternative contractual options such as risk service contracts, buyback contracts or development and production contracts.

Each of these contractual forms allows a foreign company to provide investment in an oil development, but gives it no direct interest in the oil produced. The oil remains with the state and the company is paid as the state's contractor. As

[b] Freight on Board - the price quoted for oil loaded onto a tanker in the export port.

[c] Rents are defined as the surplus revenue after costs and a reasonable return on capital are deducted (i.e. excess profits)

such, these contracts can be seen as modifications of the technical service contract to allow investment.

All three give operatorship of the field to a foreign company, but with much more limited rights, and in the case of buybacks and DPCs, for a much more limited period of time than PSAs. Importantly, in all three contract types, the foreign company does not have the opportunity to make excessive profits, as it is paid either a fixed fee or a fixed rate of return.

Obviously any form of external financing has a cost. Indeed, even with the borrowing option above, Iraq will have to carefully consider the terms of any loan, and its future implications^d. Iraq should be careful not to tie its hands, either through contracts, or through collateral arrangements. The challenge will be to weigh the advantages of freeing up government funds against the cost of the finance.

We have seen that if Iraq's oilfields are developed by foreign companies under PSAs, the cost to

Iraq's economy will be enormous. We have also seen that PSAs would give considerable control away to the multinationals for many decades.

It is in these respects that buyback, risk service or development and production contracts may be preferable for Iraq. For the same reasons, the oil companies argue that such forms of contract are not sufficiently appealing *to them* (not profitable or wide-ranging enough) to justify their investment.⁸⁴ In large part, this is a negotiating position – inevitably, companies will downplay their interest in order to get a better deal.

Even if it is true to some extent, Iraqi negotiators should not be pushed into accepting terms that are not in Iraq's interests. In the previous section of this report, we have shown how damaging PSA deals would be; in this section, we have tried to show that other options are available. If the oil companies will not sign fair contracts, then Iraq can develop its oil industry without them.

ALTERNATIVE CONTRACT TYPES

Algeria has made significant use of a mechanism known as the **Risk Service Contract**. In this model, a foreign company invests capital, and when production begins is reimbursed their costs (from oil sales), plus generally a fixed fee per barrel of oil produced.ⁱ The company can thus increase its profits by increasing the rate of production; on the other hand, the company carries the risk that the venture will fail (especially where exploration is involved). This model may also be used in Kuwait's opening to investment of four of its northern oilfields (Project Kuwait), which is still under parliamentary debate.

In the 1990s, Iran developed the **Buyback Contract**, which it has applied on a number of oilfield investments. This is very similar to the risk service agreement, but is generally for a shorter period – commonly 5 to 7 years of production (following 2-3 years of development) – after which the state oil company becomes the operator of the project and keeps all revenue. The fee is paid in oil rather than cash and is calculated as a percentage of the capital invested. Thus the company obtains an agreed rate of return on its investment, provided a sufficient rate of production is achieved (although, again, the company carries the risk that little or nothing will be produced). Returns are generally 15-24%.

In the late 1990s, Iraq under Saddam Hussein developed a new form of contract along similar lines, known as the **Development and Production Contract**. In this, a company would develop and operate an oilfield for a fixed period – commonly 12 years. After that, operatorship would be passed to the state oil company, but with the foreign company providing services under a Technical Service Agreement (often for a further 15 years), during which the company also has a right to buy oil – either at market price or at an agreed discounted rate.

All of these contract types limit the profits that can be extracted by foreign companies, so guarantee more effectively the state's income, and do not cede the same degree of sovereignty as PSAs.

i The term "risk service contract" is slightly ambiguous – it is alternatively sometimes taken to mean the equivalent of a PSA, but where revenues are shared (in cash), rather than production itself.

[d] See for example, the 'Drilling into debt' report by Oil Change International, which finds that oil-producing countries tend to experience major indebtedness.

7. Conclusion

We have seen in the preceding chapters that, under the influence of the US and the UK, powerful politicians and technocrats in the Iraqi Oil Ministry are pushing to hand all of Iraq's undeveloped fields to multinational oil companies, to be developed under production sharing agreements. They aim to do this in the early part of 2006.

The results for Iraq would be devastating:

- Iraq would lose an enormous amount of revenue (making it conversely highly profitable for the foreign companies);
- The terms of the contracts would be agreed while the Iraqi state is very weak and still under occupation, but be fixed for 25-40 years;
- PSAs would deny Iraq the ability to regulate or plan its oil industry, leaving foreign companies' operations immune from future legislation;

- PSAs would shift decisions on any disputes out of Iraq into international arbitration courts, where the Iraqi constitution, body of law and national interest are simply not relevant.

Yet, Iraq has other options for obtaining investment in its oil sector, including:

- Direct financing from government budgets;
- Government/state oil company borrowing; or
- Less damaging contracts with multinational oil companies, such as buybacks or risk service agreements.

These decisions should be made with the full participation of the Iraqi people, not in secret by unaccountable elites. Care should be taken not to take major irreversible steps that would later be regretted.

Getting these decisions right is vital for the future of Iraq.

Appendix 1: How a production sharing agreement works

In a Production Sharing Agreement (PSA), a foreign company provides capital investment. In Iraq's case, in the medium term this will include drilling and the construction of infrastructure, but not exploration – as Iraq has around 65 known but undeveloped fields.

The first proportion of oil extracted is then allocated to the company, which uses oil sales to recoup its operating costs and capital investment – the oil used for this purpose is termed 'cost oil'. There is often a limit to what proportion of oil production in any year can count as cost oil.

Once costs have been recovered, the remaining 'profit oil' is divided between state and company in agreed proportions.

The company is often also taxed on its profit oil and, to add further complexity, there may also be a royalty payable on all oil produced. Often a bonus is paid to the government on signing, and sometimes on start of production. However, such bonuses are generally small compared to the revenues themselves.

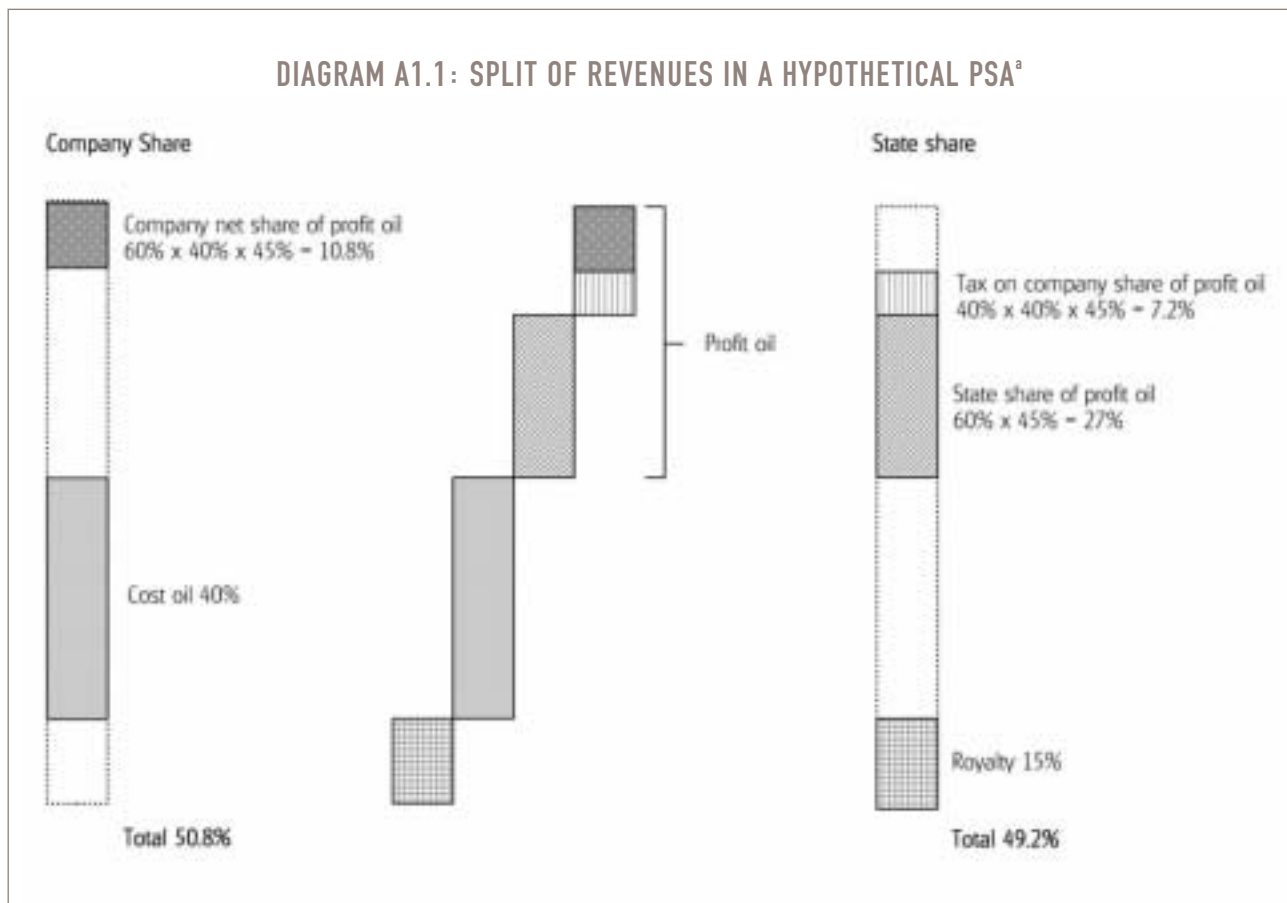
AN EXAMPLE OF HOW PSAs WORK

To illustrate how a PSA works, let us consider a hypothetical case which includes all of the above elements, with the following terms. This example illustrates the mechanisms involved, and is not based on terms that would be appropriate to Iraq.

Profit oil split: 60 state : 40 company

Royalty: 15%

Profits tax: 40%



In the diagram above, we show how these elements are divided. Royalties are charged as a percentage of the total value of the oil. Cost oil is then deducted. In this case, we assume that development and production costs amount to 40% of the total revenue (this is determined by the physical and economic characteristics of the oilfield, rather than by the PSA terms). The remaining 45%, after deducting royalties and cost oil, is divided between state and company 60:40. The company's share of profit oil is then taxed.

Putting all of these together, the company receives 50.2% of total revenues including the recovery of its costs. As the profits of the field are 60% of the revenues (after deducting the 40% costs) – thus the state *take* is 82% of the profits; the company's take (share of profits) is 18%.

Sometimes the state also participates as a commercial partner in the contract, operating in joint venture with foreign oil companies as part of the consortium (as in Libya, for example). In this case, the state is considered as a shareholder in the 'company' – so the 'company' share of profit oil is split between the state and private investors. If the state has a 50% participation share, it provides 50% of the capital investment, and receives a further 50% of the company share of profit oil (after the state-company split).

A newer form of PSA divides 'profit oil' not in fixed proportions, but on a sliding scale, intended to reflect the profitability of the venture.^a The theory is that the more profitable a venture, the quicker costs are recovered, and so the more is available for the state. The sliding scale can be based on rates of production⁹⁰, 'R'-factors (defined as the ratio of cumulative receipts to cumulative expenditures) or the company's internal rate of return.⁹¹

The argument for rate-of-return style PSAs is based on allowing the state to capture a reasonable share of profits, but in practice this advantage can be outweighed by other consequences:

1. the investor's profits are effectively guaranteed, by denying the state a fair share of revenue until the specified profit has been achieved;
2. while the specified level of profits is assured, this does not preclude the investor from obtaining much higher profits (at the more normal, lower share of profit oil);
3. it is in the investor's interests to inflate costs (a process known as 'gold-plating'), especially if they can sub-contract operations to another company in the same group (for example, from one Shell subsidiary to another Shell subsidiary) – as the subcontractor profits from their work, the project operator still profits according to the PSA, and the state gets little or nothing.

[a] This approach is primarily designed for exploration and production contracts, in which case it is not known how large or profitable any fields found will be. However, this has not stopped them being applied to pure production contracts on known fields – ACG and Sakhalin being two prime examples.

Appendix 2: Discounting in oilfield economics – key concepts

THE TIME VALUE OF MONEY

Investments in the oil industry generally last over a period of decades. A large amount of capital is invested up-front, and then income is received over the life of the project.

When modelling such investments, it is important to consider the *time value of money*. A specified amount of money is worth more now than it is at some later date – even neglecting the effect of inflation.^a This is because money received now can be invested, and so will earn extra profits.

For example, if I have £100 now, and invest it in a bank account with 10% interest (0.1 in decimals), I will get £10 interest in the first year. After one year, I will have:

$$100 + (0.1 \times 100) = 100 \times 1.1 = 110.$$

In the second year, I will get £11 interest (10% of £110) – this includes interest on the original £100, and also on the first year's interest – known as *compound interest*. After the second year I will therefore have:

$$100 \times 1.1 \times 1.1 = £121.$$

Extending this logic, in five years' time, I will have:

$$100 \times 1.1 \times 1.1 \times 1.1 \times 1.1 \times 1.1 = £161.$$

This is written 100×1.1^5 (100 times 1.1 to the power of 5). Thus, if this level of interest is available, £100 now is worth 61% more to me than £100 in five years' time.

DISCOUNTING AND PRESENT VALUE

Put the other way round, money in five years' time is worth less than it is now – to consider its equivalent value today, we have to *discount it*.

When we compare different transactions at different times, we discount all future amounts to what they would be worth now, allowing for the time value of money. What they would be worth now is called their *present value*.

DISCOUNT RATE

The effect time has on the value of money depends on what return would be available were the 'now' money to be invested. So if we could only get 5% interest, £100 now would be worth $100 \times 1.05^5 = £128$ in five years' time.

The annual rate at which today's money would grow – and hence the rate at which 'later' money must be discounted in our model – is called the discount rate.

Reversing the calculations above allows us to work out present values. £100 in five years' time has a present value of:

$$100 / 1.05^5 = £78 \text{ at a discount rate of 5\%; and}$$

$$100 / 1.1^5 = £62 \text{ at a discount rate of 10\%}.$$

The oil industry commonly uses a discount rate of 12% in real terms, or 15% in nominal terms (allowing for inflation).

The discount rate can be considered to be the opportunity cost of capital. By investing capital in a project, the investors have lost the opportunity to invest it elsewhere. Therefore they will not invest in the project if the capital could be invested elsewhere more profitably (e.g. in another project, or in a bank account, or in bonds or stocks). The discount rate is the return they would expect to get by investing elsewhere.

[a] Throughout this report, we work in real terms figures, excluding the effects of inflation

NET PRESENT VALUE (NPV)

So when we consider the profitability of a capital-intensive project such as an oilfield development, we have to look at discounted values. Rather than simply counting the profit as <sum of receipts> minus <sum of expenditures>, we look at the net present value (NPV) of the project, which is defined as <sum of present values of receipts> minus <sum of present values of expenditures>.

Net present value is always given with a specified discount rate – if the discount rate is not stated, the NPV is meaningless.

We can illustrate this with a simple example of a five-year project, with the following cashflow:

Year	Expenditures	Receipts
1	75	0
2	20	30
3	10	40
4	10	40
5	10	40

This project has total expenditures of 125, and total receipts of 150. But to see whether it is profitable, we need to use discounting.

Year	Net cash flow (NCF) (= Receipts less expenditures)	Present value of NCF at 12% discount rate
1	-75	-75
2	10	= 10 / 1.12 = 8.93
3	30	= 30 / 1.122 = 23.92
4	30	= 30 / 1.123 = 21.35
5	30	= 30 / 1.124 = 19.07

This project has a net present value of £ -1.73, at a discount rate of 12% (the total of the right-hand column) - so is not considered profitable.

Note that profitability depends on what discount rate we use. At a discount rate of 10%, the same project would have a net present value of £ +1.91 so it becomes profitable at this discount rate.

INTERNAL RATE OF RETURN (IRR)

The other concept that is used to assess profitability of oilfield projects is *internal rate of return* (IRR). This is defined as the discount rate at which the project NPV would be reduced to zero.

IRR can only be worked out numerically – by trial and error. For the project above, we can see that the IRR is somewhere between 10% and 12%. However, modern spreadsheets programmes can calculate IRR automatically. Using a spreadsheet, we can find that in fact the IRR for this project is 11.03%.

The investor considers the project profitable (and will decide to invest in it) if the IRR is greater than the discount rate. The higher the IRR, the more profitable the project.

Appendix 3: Iraqi oilfield data

As noted in section 4, Iraq's emerging oil policy is that the Iraq National Oil Company will continue to operate the oilfields which are currently in production, while all new fields will be developed by private companies through production sharing agreements.

In March 1995, the Ministry of Oil (under the Saddam regime) listed 25 new fields to be earmarked for priority development if sanctions were lifted: 11 in the south, 4 in central Iraq and 11 in the north. The list was presented by Ministry officials including Thamer al-Ghadban, who subsequently became "chief executive" of the Ministry during the first few months of the occupation in 2003, and then Oil Minister in the Interim government of Iyad Allawi.

These fields are listed below, with summary data. This data has been taken from recent reports by the US Department of Energy's Energy Information Administration, Deutsche Bank, the Iraqi Ministry of Oil and BearingPoint strategic consultants for the US Agency for International Development (USAID).

TABLE A3.1 – DATA ON 25 UNDEVELOPED IRAQI OILFIELDS

Field ⁹²	Reserves (bn bbl) ⁹³	Peak production (kbpd) ⁹⁴	Development costs (\$ bn) ⁹⁵
SOUTHERN			
Halfaya	3.5	225	2
Bin Umar ^a	6	470	3.4
Majnoon	21	600	4
West Qurna	15	800	4
Gharaf	1	100	0.7
Nasiriya	2	300	1.9
Rafidain	0.5	75	0.75
Amara	0.3	80	0.5
Noor	n/k	n/k	n/k
Tuba	1	180	1.25
Ratawi	2	200	1.3
NORTHERN			
Hamrin	0.1	60	0.5
Khurmala	1	100	2.5
Taq Taq	n/k	120	0.5
Galabat	n/k		
Qamar	n/k		
Qara Choq	n/k		
Khashm Al Ahmar	n/k		
Qayara	n/k	170	0.5
Qasab	n/k		
Nejmah	n/k		
Jawan	n/k		
CENTRAL			
East Baghdad	11	200	0.8
Balad	n/k		
Ahdab	0.2	100	1.3

In June 2005, the Ministry of Oil announced that it was seeking discussions with multinational companies on the development of 11 oilfields in the south of Iraq.⁹⁶ Although they did not list the fields, we assume that it is the same 11 southern fields listed above.

The Khurmala and Hamrin fields in the north are now being developed through technical service agreements, signed respectively with Turkish company Avrasya in December 2004 and with the Canadian OGI in March 2005, leaving just 9 fields in the north, in two groups.

[a] Formerly known as Nahr Umar

Appendix 4: Economic analysis – methodology & assumptions

The impact of the proposed Production Sharing Agreement policy on Iraq's revenue will of course depend on the terms of any PSA, as well as on physical circumstances, especially development and production costs, and the oil price.

In this appendix we consider a number of possible terms used in other countries, and apply them to a 'base case' physical scenario; we then test sensitivity to variations in the physical scenario. The aim of the exercise is to examine how PSA performance compares to the current nationalised system.

Theoretically the state's percentage of net revenues from a PSA – known as state take – can range anywhere from 0.1% to 99.9%, according to how the contractual terms are set. In practice, according to Petroconsultants' 1995 review of petroleum fiscal regimes, on economically marginal oil fields, state take ranges from 25.1% in Ireland to 101%^{2a} in Syria, while on very profitable 'upside' fields it ranged from 25.0% in Ireland to 87.7% in Abu Dhabi. However most PSAs provide for a state take of between 60 to 90%.

We have selected three different scenarios (Oman, Libya and Russia)^b, with varying terms, and then applied them to the physical characteristics of Iraq's oilfields, to consider their economic implications.

- **Oman** was selected as, like Iraq, it has relatively low-cost onshore fields, and is one of the only countries of the Gulf region that actually uses PSAs.
- **Libya** was selected as it has produced oil for many decades, and has recently reopened to foreign investment following a period of international sanctions. Libya's most recent ("EPSA IV") terms are widely considered within the oil industry to be among the most stringent in the world, so might be considered a 'best case' PSA for Iraq.
- **Russia** was selected as it is the only country which currently uses PSAs and has oil reserves which are remotely comparable in size to those of Iraq. Like Iraq, Russia has had an oil industry for many decades. Russia's PSAs were also signed during a period of rapid liberalisation following major regime change. Indeed, there is substantial technical collaboration between Russia and Iraq.

[a] These figures are produced by applying all the countries' terms to the same hypothetical oilfields. Clearly, the marginal field here would not be developed if found in Syria, as it would be uneconomic – the company would make a net loss.

[b] We noted in section 6 that no countries comparable to Iraq use PSAs – indeed we would argue that PSAs are not appropriate to Iraq's situation of plentiful, low-cost, known fields. Thus there is no natural choice of country's terms to apply in this analysis. Therefore it should be noted that the Oman and Libya PSAs are for exploration and production, and thus carry the exploration risk that no oil will be found. As a result they give potentially more lucrative terms to compensate for the risk of failure to find oil. The short- and medium-term development of Iraq's oil will be of the roughly 65 known but undeveloped fields, whereas new exploration (especially in the Western Desert) will deliver longer-term development. However, against the lack of exploration risk in potential early PSA contracts, Iraq carries more political risk than any of these other cases. On the other hand the Sakhalin II field (which like the Iraqi fields was known before the PSA was signed) is offshore and hence higher-cost which may be reflected in more lucrative terms for the company. However, the current high political risk in Iraq could quite plausibly lead to similarly lucrative terms.

The exception would be the PSA deal signed by Saddam Hussein with Lukoil in 1997 for the West Qurna field which was never implemented and was cancelled in 2002. We have not used these terms as one of our three featured scenarios because of its unusual status. However, we did test the model against those terms. The loss of state revenue (undiscounted and NPV) is within the range of these three scenarios. The company internal rates of return, remain high by international oil industry standards (20%, 40%, 57% at \$40/barrel) for the 3 fields we examined in section 5) but at lower than the three featured scenarios due to an unusually high \$100 million up-front signature bonus. While the bonus is small compared to the total value of revenue, the fact that it is paid up-front impacts more significantly on the rate of return (due to the time value of money - see Appendix 2). The context of this decision was that it was signed during the sanctions era, when the regime was desperate for up-front cash, but conversely keen to win Russia's political support in the UN Security Council. In this sense it was not a 'normal' PSA so we have not used it in our main analysis. The Lukoil terms were not officially published, so in our test we used those reported by the Middle East Economic Survey [11 November 2004 - 'Lukoil Seeks West Qurna Development/Iraq Debt Deal'].

PSA TERMS

Russia (Sakhalin II)

PSA terms for the Sakhalin II project in Russia are as follow:⁹⁷

- \$50m of bonuses; \$160m reimbursement of state's exploration costs; \$100m to Sakhalin Development Fund.
- 6% royalty.
- No cost oil limit.
- "Profit oil" split only once costs *and* 17.5% company IRR have been achieved: 10:90 (government:company) for two years, then 50:50 until 24% IRR achieved; then 70:30.
- 32% tax on company profits, for which capital costs are depreciated over 3 years on a straight-line basis.

Oman

PSA terms for Oman are as follows:⁹⁸

- Signature bonus of \$0.25m; discovery bonus of \$3m; production bonuses of \$1m each when production levels of 25, 50, 75, 100, 125 and 150 kbpd are reached.
- Cost oil limit of 40% of revenues.
- Profit oil split 80:20.
- No royalty.
- No tax.

Libya (EPSA IV round)

Libya uses a modified joint venture-type PSA. Terms for Libya's EPSA IV round are as follows:⁹⁸

- No tax (tax is paid only by the National Oil Company, from its share of profit oil).
- No royalty.
- Signature bonuses and state participation share were open for companies to bid in an auction, with the contract going to whichever company offered the highest share of production to the state (or whichever offered the higher signature bonus if two companies bid the same share). State participation shares of profit oil ranged from 61.1% to 89.2% (average 81.5%), and signature bonuses from \$1m to \$25.6m (average \$8.8m). In applying Libyan-type terms to Iraqi oilfields, we take these average bonuses and participation shares.
- On top of the signature bonuses, further production bonuses apply for each block. In our model, we take the bonuses of Libya's Block 54, which constitute: \$5m when 100m barrels have been produced, then a further \$3m when each of 130, 160, 190, 220, 250, 280, 310, 340 and 370 million barrels have been produced.
- State provides no contribution to exploration costs, 50% of development capital, and share of operating costs equal to its participation share.
- Profit oil is split according to production rate and 'R' factor (ratio of contractor's accumulated receipts to accumulated costs). This varies from block to block in Libya. For our analysis, we take the terms from Libya's Block 54, which does not consider production rate, but divides profit oil according to 'R' factor as follows:

'R' factor	Contractor share
0.0 – 1.5	90
1.5 – 3.0	70
> 3.0	50

OIL FIELDS CONSIDERED

We now consider the economic impact on Iraq, using these three sets of PSA terms.

For this assessment, we consider only the fields likely to be opened soonest via PSAs: Halfaya, Bin Umar, Majnoon, West Qurna, Gharaf, Nasiriya, Rafidain, Amara, Tuba, Ratawi, East Baghdad and Ahdab. These are the priority fields identified for development in 1995 (as listed in Appendix 2), excluding Hamrin and Khurmala which are now already being developed, and also excluding 11 smaller fields on which full data was not available.

PSAs could potentially be signed on all of these in 2006.

ECONOMIC MODELLING

To consider the economic impact of the proposed PSA policy, we have constructed economic models of each of the twelve priority oil fields listed in Appendix 3. The results are shown in section 5.

- We consider only oil, not gas, in this analysis.
- All figures are in real terms (2006 prices) – i.e. with no inflation.
- We assume that economic factors (including production rates, costs etc.) are the same whether oil is extracted by the Iraq National Oil Company or by foreign companies through PSAs. This assumption is based on the technical expertise existing within Iraq's own oil industry, and its access to new technological resources through technical service agreements.
- We use a discount rate of 12%.
- The analysis assumes PSAs are signed in 2006, followed by feasibility and appraisal expenditures of \$10 million in the three subsequent years. Project sanction (and hence first development investments) occur in 2009. First oil is achieved in 2011, at 30% of the peak level, then rising steadily to peak in 2014.
- Production profiles are based on the figures for reserves and peak production cited in Appendix 2, with constant exponential declines in production ranging from 3% for the largest fields (Majnoon, W Qurna, East Baghdad) to 15% for the smallest (Ahdab). Similarly, production plateaus range from zero (single peak) for the small fields to over 20 years for the largest.
- Development expenditures are based on those used by PetroConsultants, adjusted according to the field size and production rate, generally continuing until two years after the end of peak/plateau production.
- Iraqi oil experts estimate operating costs between \$0.5¹⁰⁰ and \$1.5¹⁰¹ per barrel. We assume this to relate only to variable operating costs; for our analysis, we take \$1.0 per barrel. We add fixed operating costs of 5% of development costs.
- For simplicity, we do not include transport costs – thus the oil price used is effectively the wellhead price. If transport costs \$0.5 per barrel, then the FOB oil price is \$0.5 higher than the wellhead price.

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The **Institute for Policy Studies** strengthens social movements with independent research, visionary thinking, and links to the grassroots, scholars and elected officials. With an emphasis on the UN and the Middle East, IPS's New Internationalism Project works to strengthen the US and global peace movements. www.ips-dc.org

Oil Change International campaigns to expose the true costs of oil and facilitate the coming transition towards clean energy. We are dedicated to identifying and overcoming political barriers to that transition. www.priceofoil.org

UK co-publishers

The **New Economics Foundation (NEF)** works to construct a new economy centred on people and the environment. Founded in 1986, it is now one of Britain's most creative and effective independent think tanks, combining research, policy, training and practical action. www.neweconomics.org

War on Want is a UK-based campaigning charity. Founded in 1951 it has links to the labour movement and supports progressive, people-centred development projects around the world. War on Want campaigns in the UK against the causes of world poverty. www.waronwant.org

