Global oil production (crude oil plus condensate) has been on a plateau / in decline for 7 years, resulting in high energy prices that are feeding inflation, eroding family budgets and crippling the World economy. It is time for the international political community to awaken to the risks posed by Peak Oil. A British Government report published last week under a Freedom of Information Act (FOIA) request makes clear that civil servants working at the UK department of Energy and Climate Change (DECC) seem very aware of the risks posed by peak oil, and yet the British Government seems happy to continue to ignore warnings.

The post is co-authored by Oil Drum contributor Sam Foucher, who did most of the data mining and provided the adjusted JODI and IEA data. Oil Drum commenter KLR provided this spread sheet deducting natural gas liquids from the BP data.

In recent weeks we have been taking a detailed look at discrepancies between oil production data reported by various agencies. Whilst doing this is important, there is the risk that we lose sight of the big picture shown in the chart above. Despite continued high price, it has not been possible to raise global oil production since 2004, indicating that supply has become inelastic. Data sources and methods are described in the box at the end of this post.

Last week The UK Guardian "newspaper" carried a story about an internal UK government report on peak oil that the government failed to make public and was eventually released under a Freedom of Information Act (FOIA) request made by French student Lionel Badal. The report, in form of a data and text rich Power Point presentation, landed in my inbox (hat tip to Jerome) and I was quite amazed by the content. Slide 16 in particular caught my attention:

Of the 17 bullet points on the slide, 16 have come to pass in the UK and in the neighbouring countries of Europe (click on slide to enlarge and open in separate window). Given that the research was conducted in 2007 and the report compiled in 2009, this conveys amazing insight by the DECC civil servants. Many may argue for different causes for the peak oil symptoms listed by DECC. But given the length of the list, near perfect correlation between forecast and events, and the fact that global oil production has not increased for seven years, is it not safe to now draw the conclusion that peak oil lies at the heart of the UK and global economic woes?

Two important items are missing from the list and when these are taken on board, the story is complete.

1. Peak oil may threaten the global banking and financial system since the Ponzi scheme of growth based on credit expansion requires a growing stream of cheap energy to fuel the real economy. When the stream of cheap fuel dried up, the real economy failed, toppling the global fractional reserve banking system that lay at the heart of the Ponzi scheme. Fractional reserve banking has now been supplemented by Quantitative Easing as a means of creating money to drive consumption of finite reserves.
2. Peak oil will threaten pensions since these are based upon the excess net energy produced from high ERoEI energy sources (Energy Return on Energy Invested). As the ERoEI declines and the lifeblood of cheap net energy dries up, it is inevitable that society's ability to care for those not in work (young, old and dysfunctional) will be steadily eroded. This links to point 1 above via declining stock market valuations.

It seems that the global economy may be on the rocks again for the second time in three years, stemming from energy prices that society can ill afford to pay. It is time for OECD and other governments to wake up and introduce serious energy policies to deal with the clear and present dangers posed by peak oil.

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**Methodology and observations**

There are four main agencies reporting on global oil production:

2. The [International Energy Agency (IEA)](http://www.iea.org) in Paris that is an OECD agency.
3. The [BP statistical review of world energy](http://www.bp.com) produced by BP, the UK based international oil company
4. The [Joint Organisations Data Initiative (JODI)](http://www.jodi.org) that is a voluntary form of NGO.

These agencies may gather information in different ways and they also report data in different ways using different categories and definitions of oil. The EIA reports monthly production data for crude oil + condensate (C+C) that includes synthetic crude oil produced from tar sands in Canada and Venezuela for all countries and giving a world total. JODI also reports C+C but only for 90 countries accounting for around 90% of global production. In the first post in this mini series, Dr Sam Foucher filled in the missing countries from the JODI data using EIA data giving an adjusted JODI proxy for global production that may then be compared with the EIA global total. BP report annualised average daily production data for C+C+NGL (natural gas liquids) and these data are not directly comparable to C+C reported by EIA and JODI. TOD commenter KLR deducted NGL data reported by the EIA from the BP data to get a BP proxy for C+C that is plotted in the chart up top.

The IEA report total liquid production. Bio fuels, refinery gains and NGLs were deducted from total liquids to derive the C+C figures.

Categories of liquids not included in the chart up top are NGLs, biofuels and the volume expansion that takes place during refining known as refinery gains. The latter are not actually gains at all since they represent volume and not energy expansion.

The chart shows annual average daily production. For EIA, JODI and IEA this is a simple arithmetic mean of the monthly reports unweighted for length of month.

**Key Observations**

The two previous posts in this series [here](http://www.theoildrum.com/node/8019) and [here](http://www.theoildrum.com/node/8039) examined the divergence between the EIA and JODI data since 2009 (see chart). Introducing BP and IEA data to the mix shows good agreement with the EIA and may tend to argue that these three sources...
provide the most reliable data. However, it may be the case that the EIA, BP and IEA are obtaining their data from the same source which remains unknown but rumored to be IHS. The source of JODI data is known to be direct reporting by national governments to JODI and it remains intriguing that the JODI data, which are based on government statistics, are diverging from the rest. The latest JODI production data reported for March 2011 shows production below 70 mmbpd. That is 6 mmbpd below the equivalent IEA data.

A production plateau was reached in 2004. The JODI data suggest that production may now be in decline whilst the EIA, BP and IEA data suggest that production remains on the range bound plateau. The difference here is really immaterial since high energy prices post 2007 caused by a failure to raise production to meet demand are traumatising the global economy.