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Energy Outlook:

Credit crunch is near-term bearish, long-term bullish

November 2008

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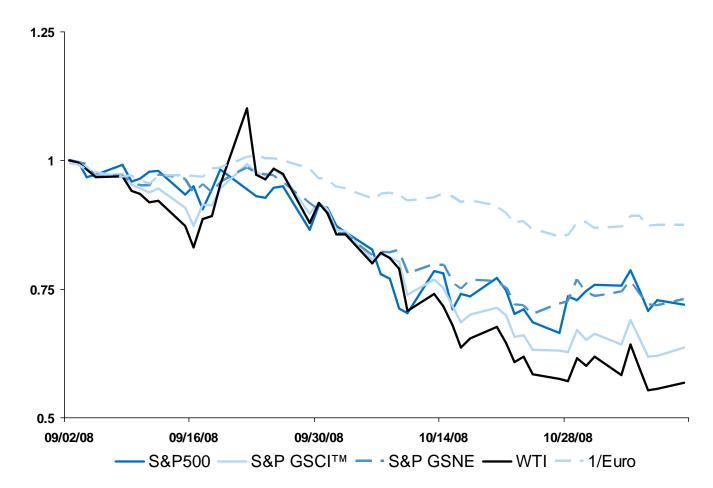
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Pricing: credit crunch putting downward pressure on crude oil timespreads

Goldman Sachs Crude oil prices have declined with the broader sell-off across asset markets

Index Sep 2, 2008=100



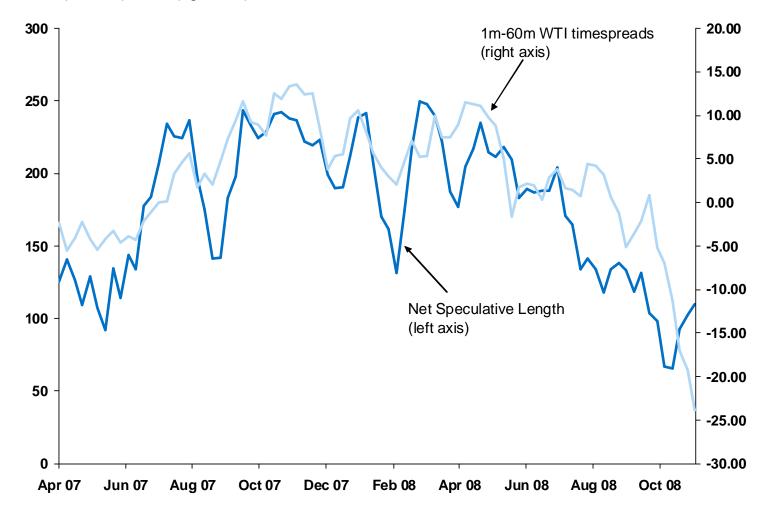
Source: NYMEX, Standard and Poors, and Goldman Sachs Commodities Research.

A sharp decline in net speculative long positions has contributed to the weakening of WTI timespreads...

Million barrels (left axis), \$/bbl (right axis)

Goldman

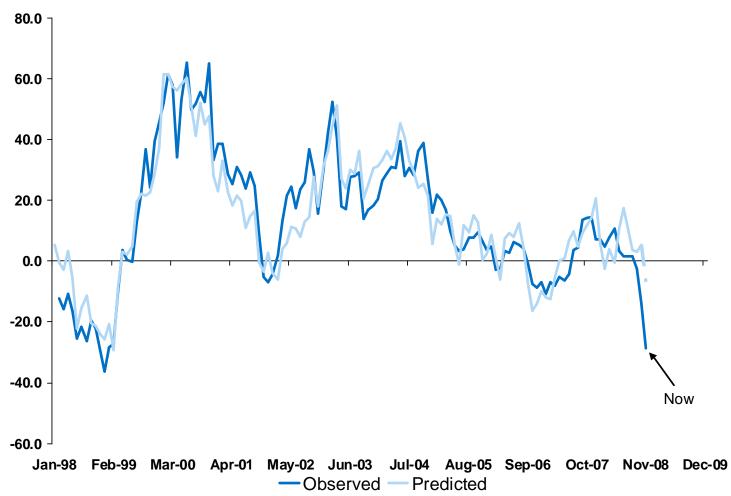
Sachs



Source: Commodities Futures Trading Commission (CFTC) and Goldman Sachs Commodities Research.

Goldman Sector Soldman Inventories, speculative length and rates can explain

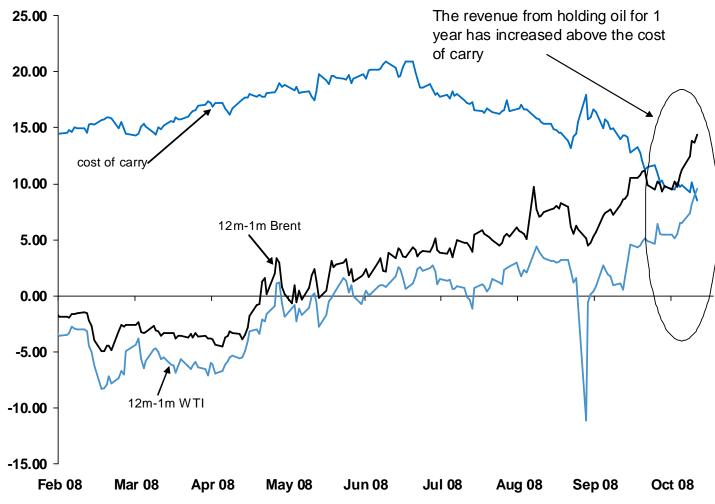
1m/60m WTI timespreads in %



Source: Goldman Sachs Commodities Research.

Contango becomes Super-contango, breaching the cost-of-carry threshold...

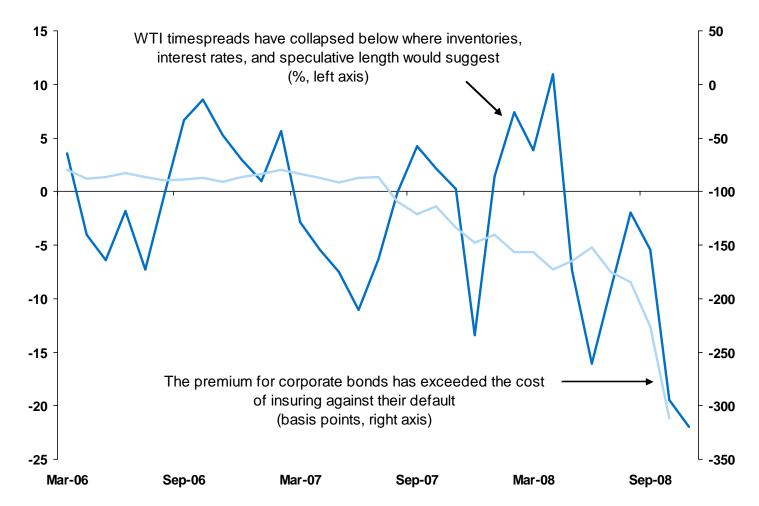
US\$/bbl; cost of carry proxied by LIBOR+200bps + 0.8% of oil spot price for monthly storage costs



Source: NYMEX, ICE and Goldman Sachs Commodities Research.

... similar to trades in other asset classes that require cash funding up front.

% per annum (left and right axes)



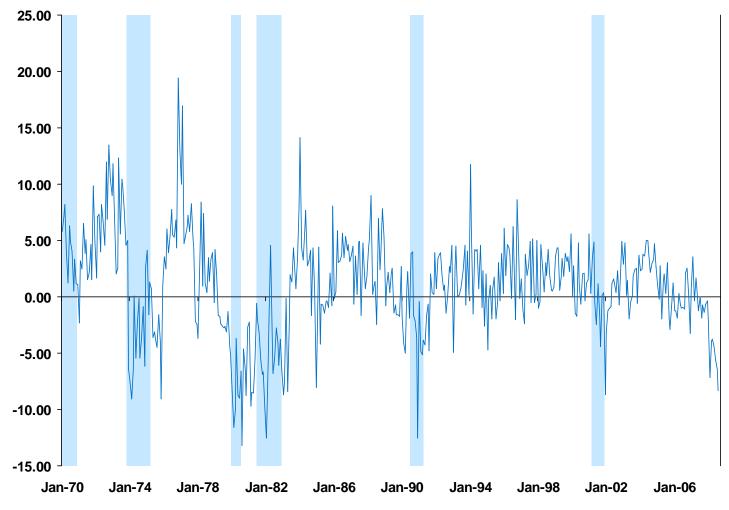
Source: NYMEX and Goldman Sachs Research.



Demand: weak economy and credit crunch sends US and OECD demand plummeting

US total petroleum demand growth has slowed to recessionary levels...

% change year over year

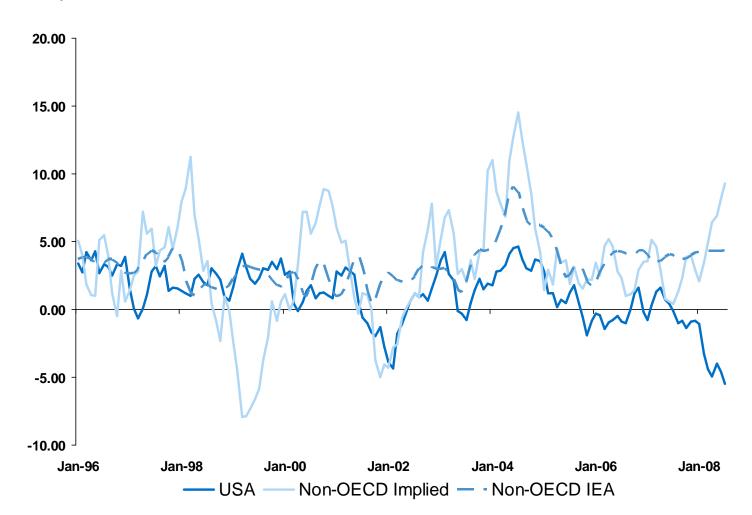


Source: DOE and Goldman Sachs Commodities Research.

... while reported non-OECD demand growth has stayed firm and implied growth has soared

% change year over year

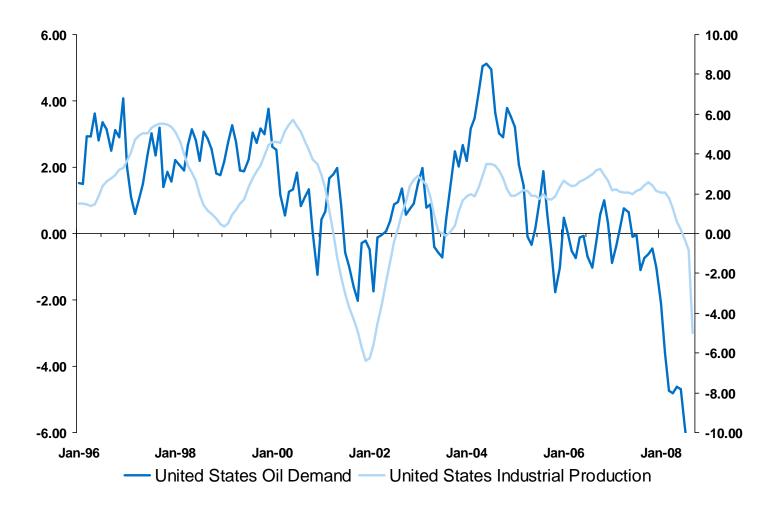
Goldman Sachs



Source: DOE and Goldman Sachs Commodities Research.

US oil demand has fallen faster than overall economy has slowed...

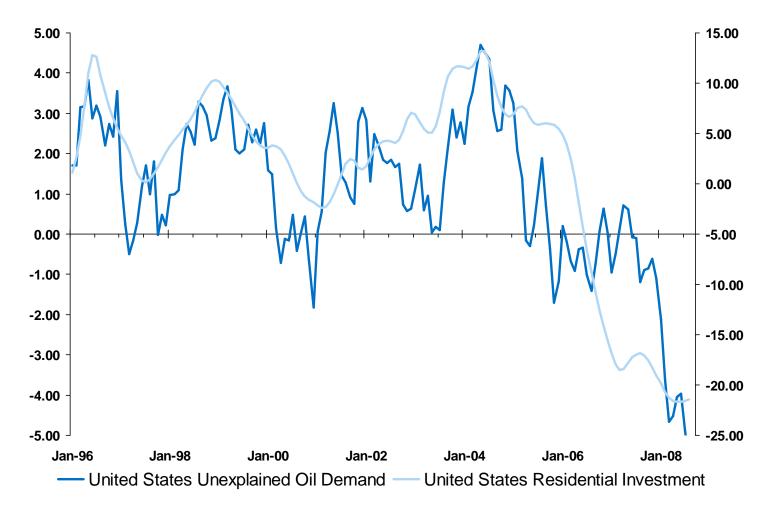
% change year over year



Source: DOE and Goldman Sachs Commodities Research.

... but discrepancy can be explained by impact of housing downturn on US consumer

% change year over year

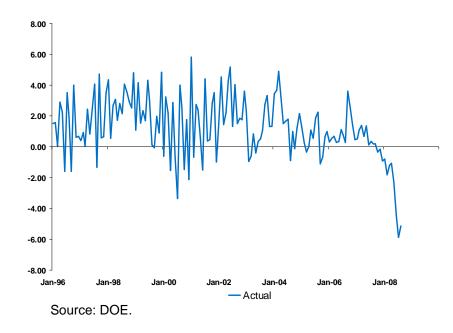


Source: DOE and Goldman Sachs Commodities Research.

US motor gasoline and diesel demand fell through the floor starting in June...

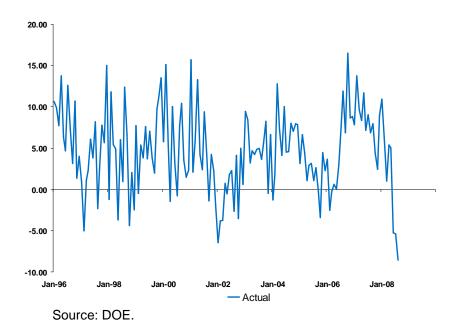
US motor gasoline demand

% change year over year



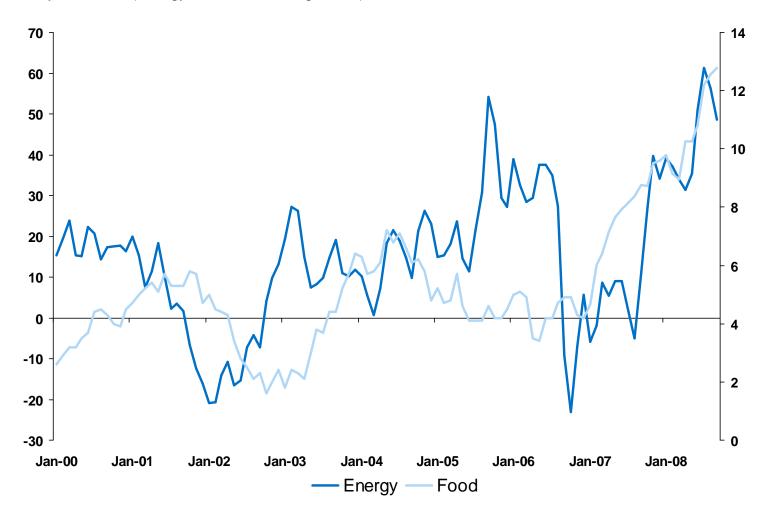
% change year over year

US diesel demand



... as rising energy and food prices combined with falling housing prices put squeeze on consumers.

% change year over year in CPI (Energy left axis, Food right axis)

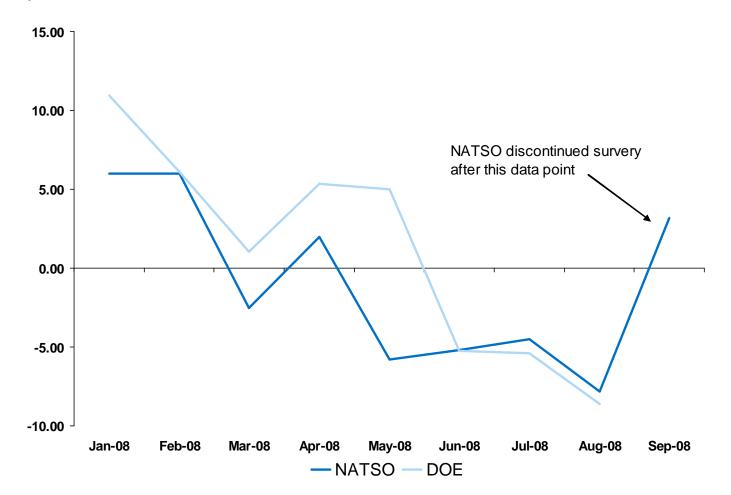


Source: US BLS and Goldman Sachs Commodities Research.

NATSO retail level survey of diesel demand confirms declines in monthly DOE data

% change year over year

Goldman Sachs

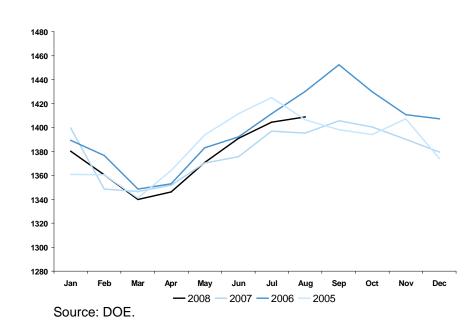


Source: NATSO, DOE and Goldman Sachs Commodities Research.



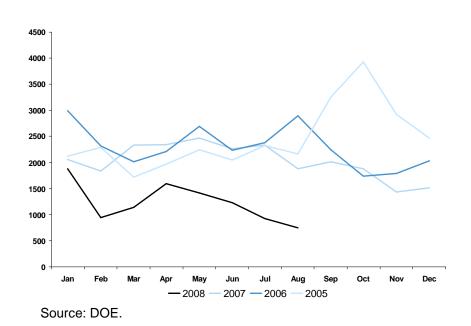
US petroleum product demand declines resulting in higher exports, not higher inventories.

US total petroleum product inventories



Million barrels

US total petroleum product net imports

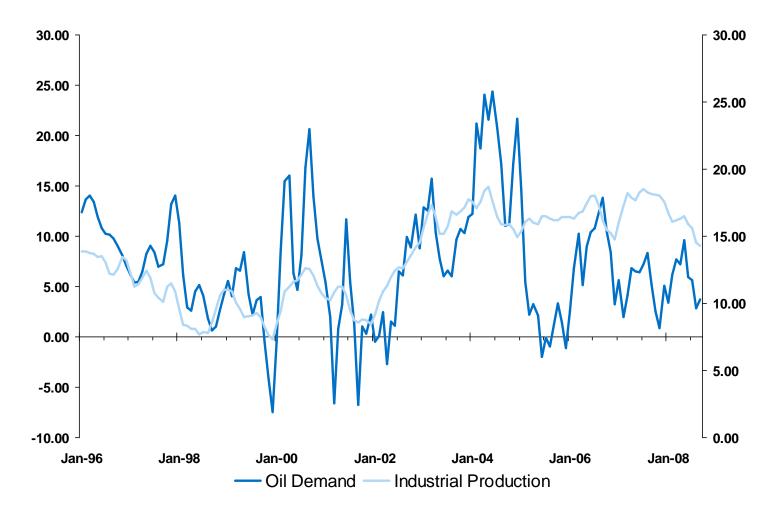


Thousand b/d

Chinese industrial production alone does not explain recent moves in Chinese oil demand growth...

% change year over year (Oil demand, left axis. IP, right axis)

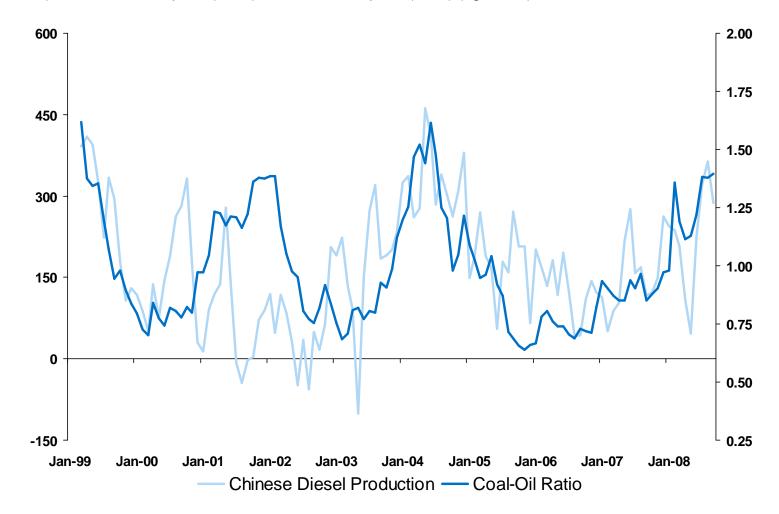
Goldman Sachs



Source: DOE and Goldman Sachs Commodities Research.

Goldman Sachs ... issues in power generation have also been quite important

Thousand b/d (left axis), Newcastle coal price (\$/ton) / WTI crude oil price (\$/bbl) (right axis)

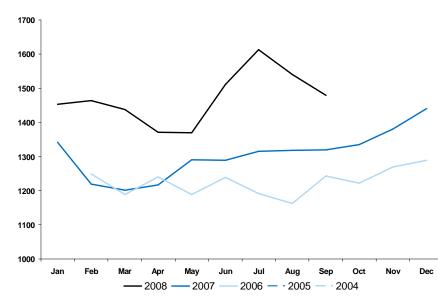


Source: DOE and Goldman Sachs Commodities Research.



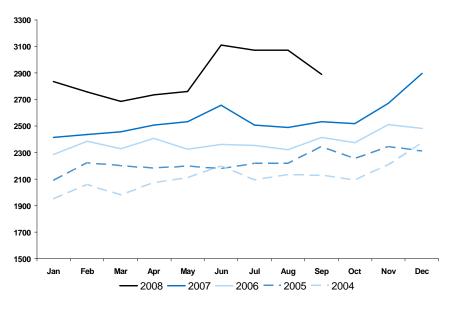
Interestingly, Chinese motor gasoline and diesel demand continue to look robust...

Chinese motor gasoline implied demand



Thousand b/d

Chinese diesel implied demand



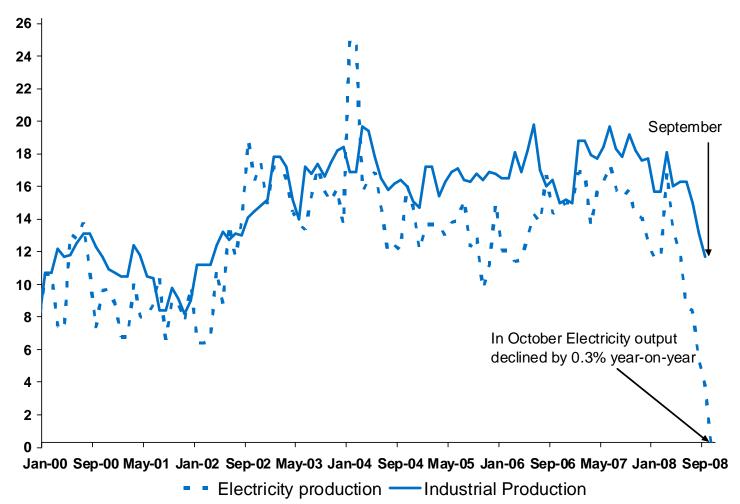
Thousand b/d

Source: DOE.



Goldman Suchs ... but recent economic indicators suggest downside risk to Chinese demand

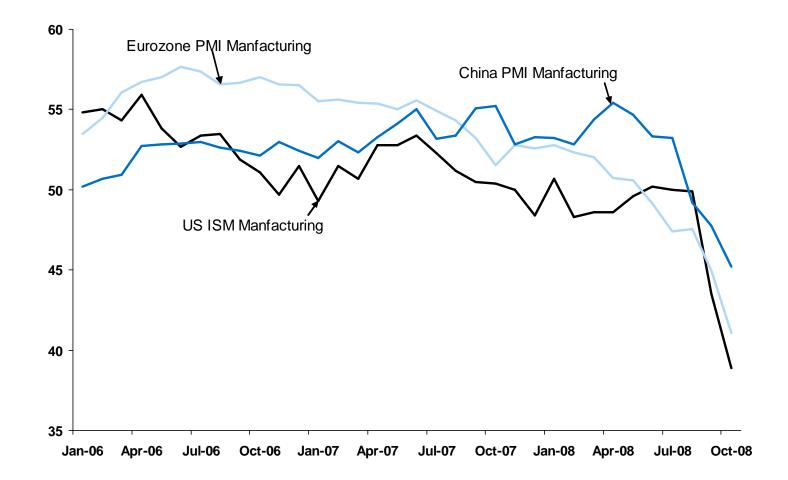
Year-on-year change



Source: National Bureau of Statistics.

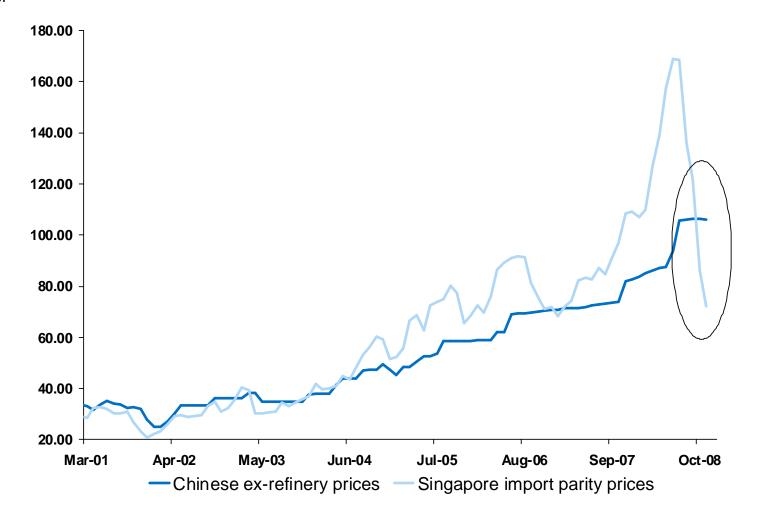
Goldman Chinese PMI declined sharply in October

Chinese Purchasing Manager Index: manufacturing, seasonally adjusted

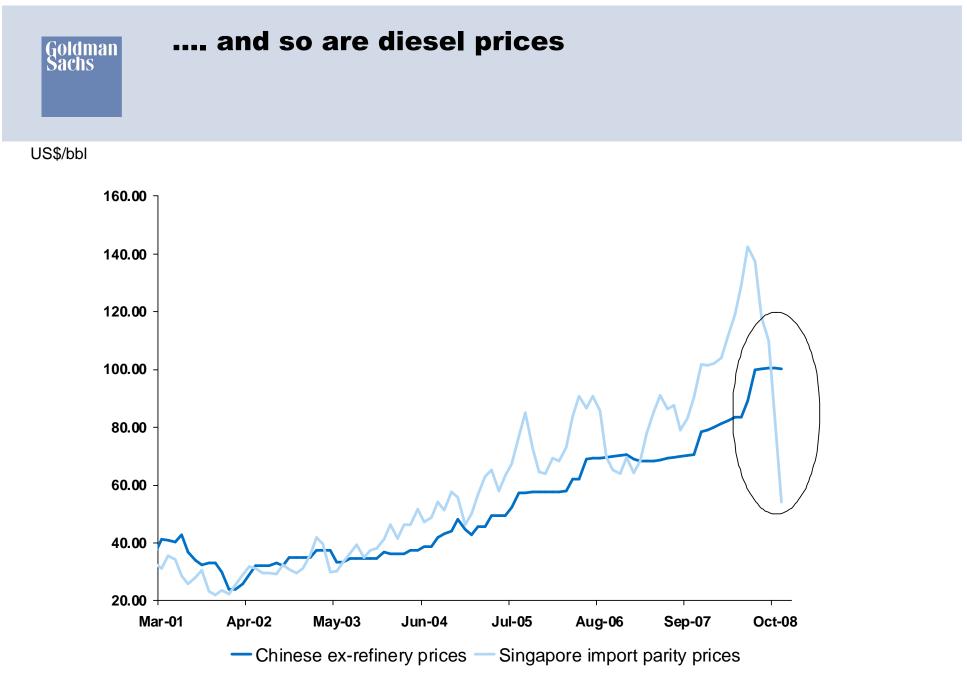


Chinese gasoline controlled prices are now well above Singapore market prices

US\$/bbl



Source: Goldman Sachs Research.



Source: Goldman Sachs Research.



Supply: capacity constraints exacerbated by financial turmoil



Global oil production and capacity

The industry has exhausted spare capacity, ending an exploitation phase and beginning a new investment phase

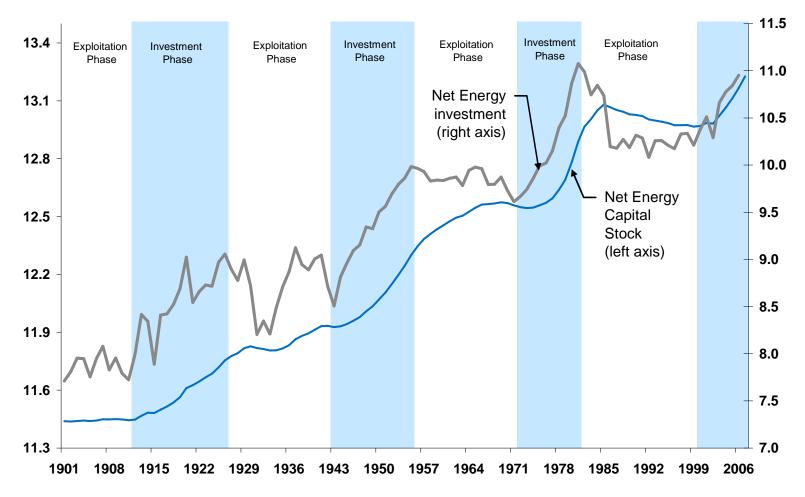
million b/d million b/d 90 Global production 90 capacity **Global Refining** Capacity 80 80 World Petroleum 70 70 Demand 60 60 Global output 50 50 40 40 World Petroleum Supply 30 30 20 · 20 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99 01 03 05 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99 01 03 05

Source: International Energy Agency (IEA), DOE, Goldman Sachs Commodities Research.

Global refining capacity

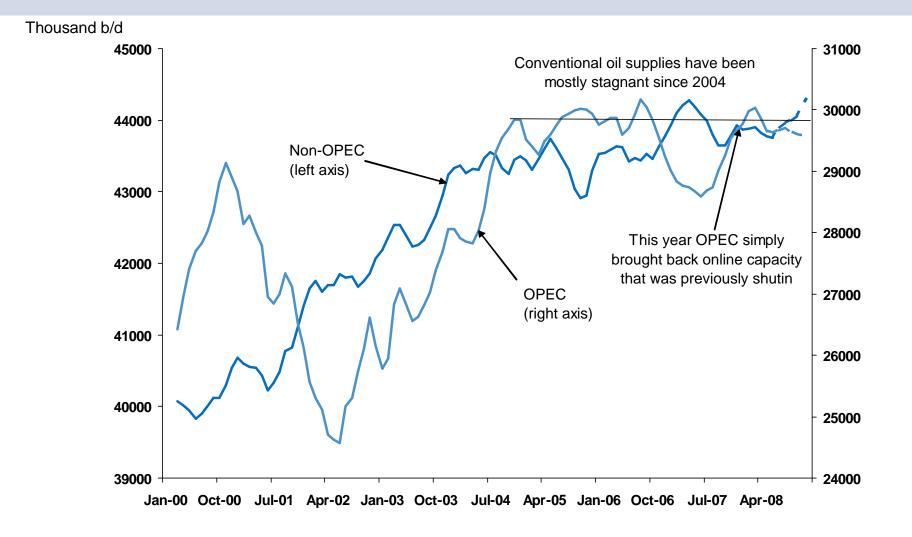
Commodity markets have historically transitioned between investment phases and exploitation phases defined by spare capacity

US data in real 2000 log \$



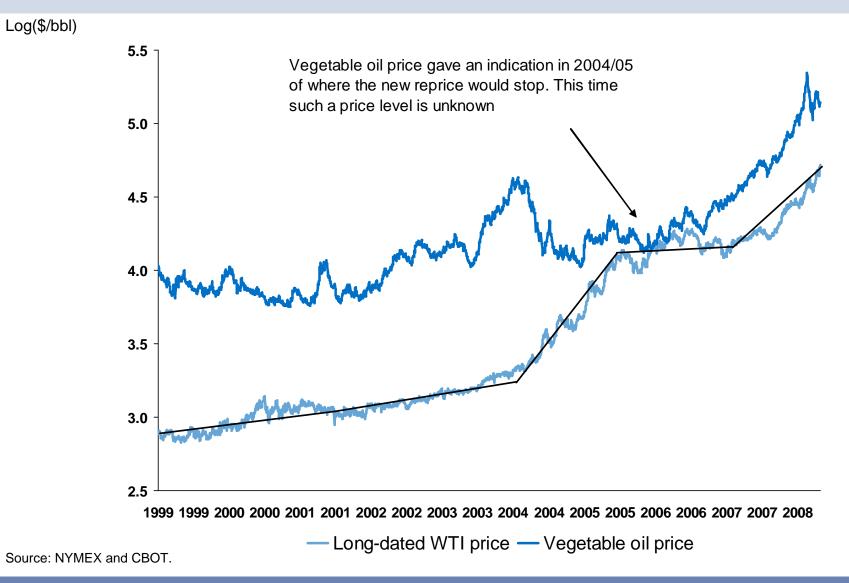
Source: US Bureau of Economic Analysis and Goldman Sachs Commodities Research.

Goldman Sachs Conventional oil supplies have remained stagnant since 2004



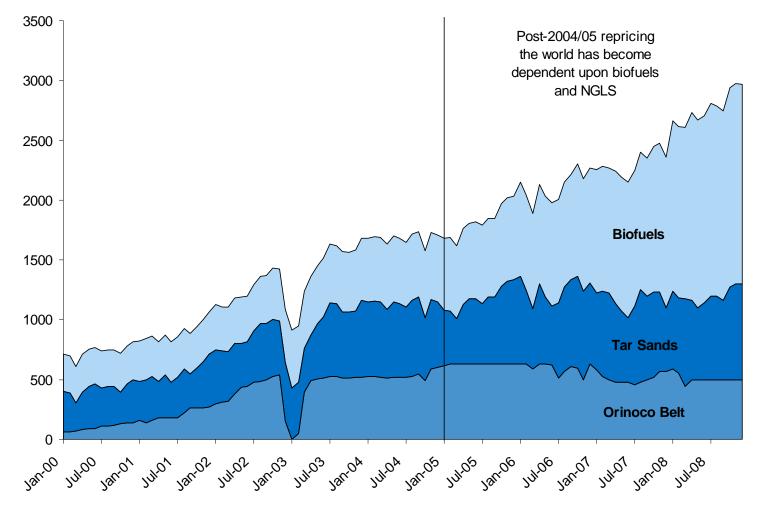
Source: IEA and Goldman Sachs Commodities Research.

Long-dated oil prices had found an equilibrium at biofuel price levels...



Making biofuels economically viable and creating significant growth in their supplies

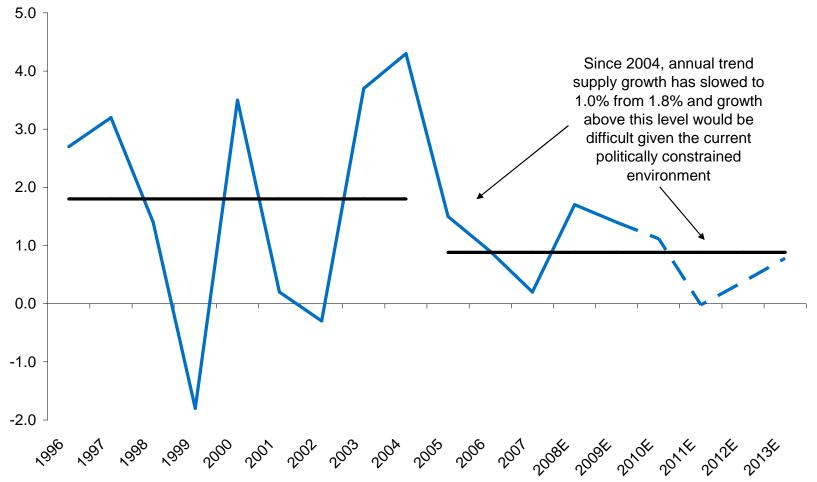
Thousand b/d



Source: IEA and Goldman Sachs Commodities Research.

Goldman
SachsTrend oil supply growth has slowed over the past
several years to 1.0% per year

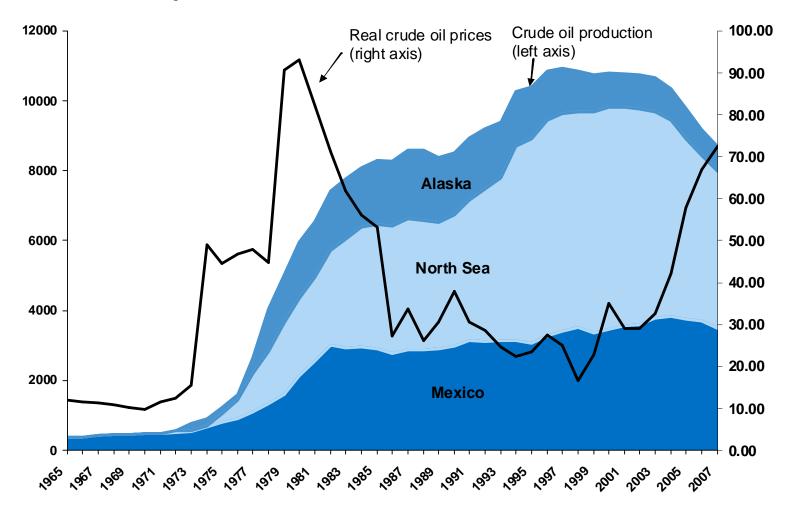
% change, IEA capacity growth estimates in dashed line



Source: IEA and Goldman Sachs Commodities Research.

The end of the last commodity cycle was characterized by the ramp up of massive next generation projects that don't exist today

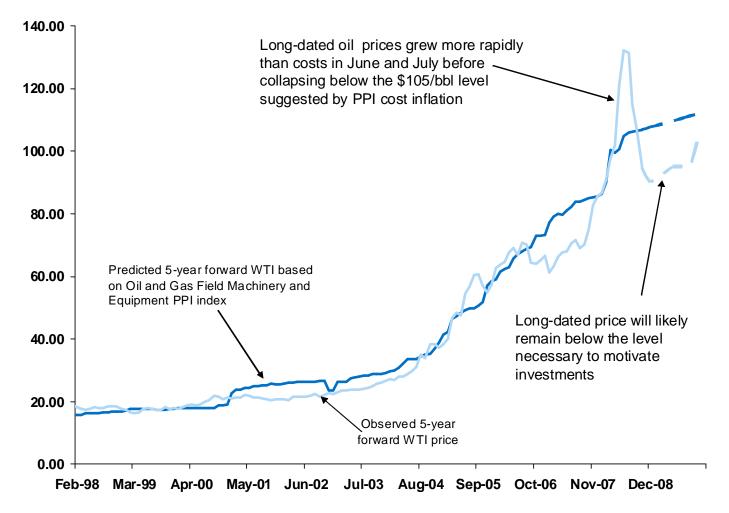
Thousand b/d, left axis; 4/bbl, right axis



Source: IEA and EIA.

Given the current credit-constrained environment and its negative implications on producer's ability to invest in future supply, we expect long-dated oil prices to remain below marginal cost of production levels

\$/bbl



Source: Goldman Sachs Commodities Research.



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November 11, 2008

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