Energy in the Pulp and Paper Industry





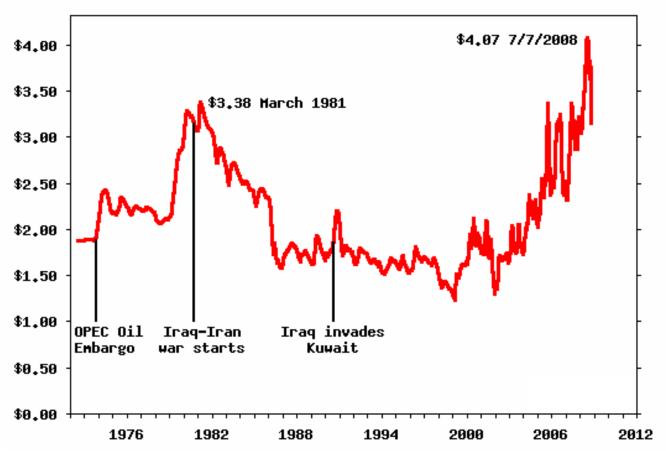


How about Jimmy Carter's shale oil project?

Exxon pulled out on 2 May 1982

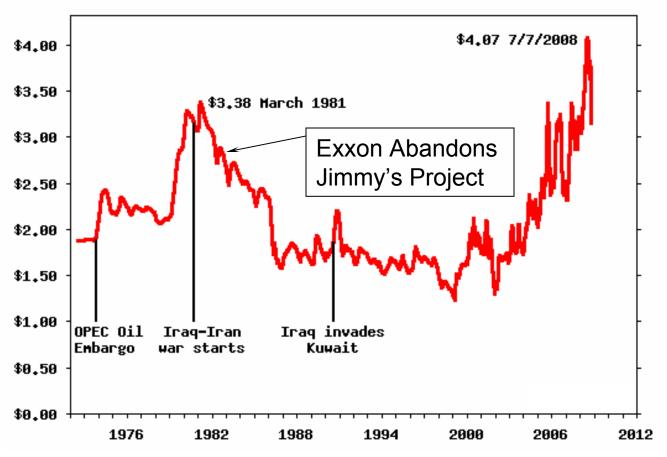






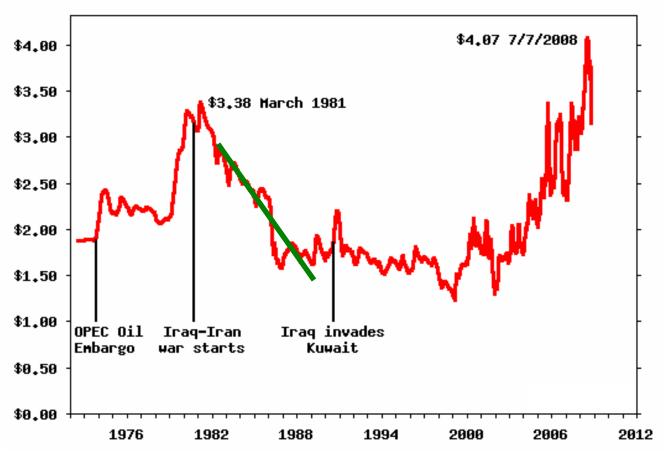
TALO ANALYTIC





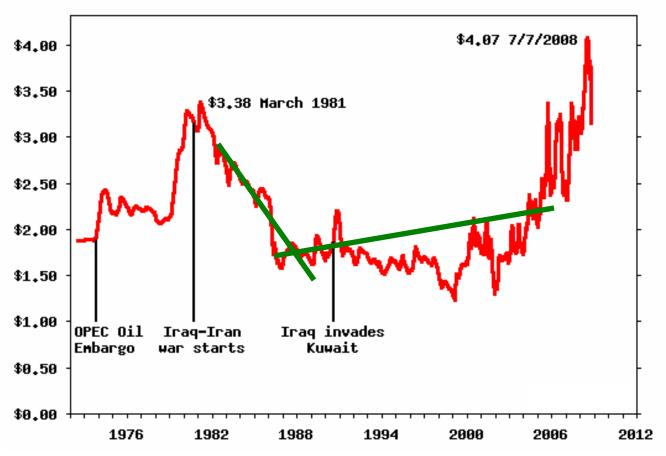






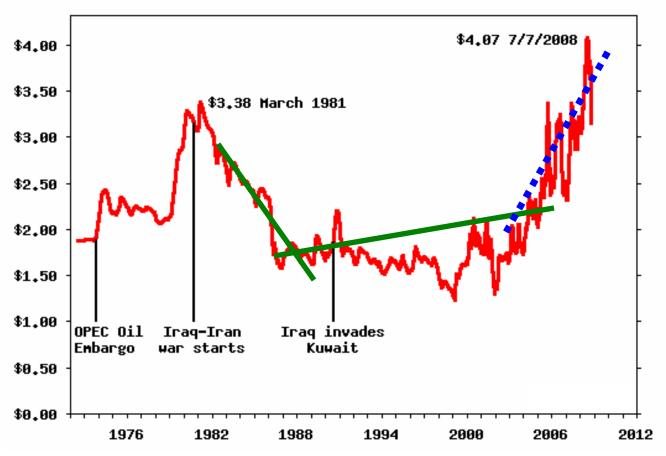
















It always comes down to return on investment.

Boone Pickens is the only one that is talking about national security.





In fact, until Katrina, OPEC had the discipline to keep oil prices low enough to create complacency.





1973: 55 mph speed limit (1973 –
1995) Touted as reducing
consumption by 2.2%;
independent studies said
reduction was less than ½ of 1%





1973: Even/Odd days of filling one's auto.

Year 'round daylight savings time.





1973: Push for solar, wind, drilling at home, coal, nuclear





Sound familiar?





1979: Wear a sweater, lower the thermostat, shale oil will save us!





The US response to old energy crises:

1942 - 1945: National Speed limit set at 35 MPH; Rationing cards for fuel and tires.





The US response to old energy crises:

The Crisis that never happened:

The 1930's would have perhaps produced the first crisis had it not been for the Great Depression.





The current crisis is being solved by:

Recession in some economies

Depression in others.





Energy crises have historically, and the current one is no exception, brought out parties with all sorts of agendas.





There are five *political* matters you need to watch:

- I. Adjectives
- II. Science
- III. Personal motivations (narcissism, avarice, fear)
- IV. Follow the money
- V. Wrong motivations





I. When we say "fuel" or "energy" we assume the following adjectives are in play:

- 1. Clean
- Environmentally friendly (whatever this means)
- 3. Safe (whatever this means)
- 4. Cheap
- 5. Portable
- 6. Here





We also want no changes

Quickest way to the solve the "energy crisis"...

Eliminate office buildings and attendance at sporting events.





II. Science—watch for alchemy!

- 1. Conservation of energy
- 2. Mass balance
- 3. Thermal/Corrosion Dichotomy





Particularly confusing to this old farm boy is VPP (Value Prior to Pulping)

I have been around a lot of pulp mills and have never noticed anything lying around that we are not using already.





III. Personal motivations (narcissism, avarice, fear)

- 1. Shocking, shocking, but there are those that envision statues erected in their honor for solving the "energy crisis"!
- 2. Pay me lots of money and I will solve the problem trust me!
- 3. There are also those that never want to answer the question (solve the problem) because then they will have to find something else to do.





IV. Follow the money...

- 1. Developers that want fees but no risks.
- 2. Developers that want equity but put up nothing.
- 3. Outsized fees --\$100 million raised, 3% "development fee" upfront. \$3 million is real money!
- 4. Question to ask any developer/promoter/bloviator: "How have you earned your income over the last twenty years and (a) can you prove you have taken risks & (b) can you prove you have made significant returns for your employers and/or investors?"





IV. Follow the money...

5. Subsidies and government funding are suspect:

Items developed without subsidies:

light bulb, motion pictures, phonograph, distribution systems for electricity....

Items subsidized forever:

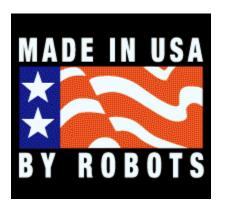
agriculture, railroads, automobiles (highways)....





V. Wrong motivations...

- 1. Saving old assets
- 2. Saving jobs







In reality, when prices abate, we go back to doing whatever it was we were doing before.

With some incremental improvements.





It looks like 2009 will be a year of retreat.





This Presentation is available in the White Paper Library on Nip Impressions® and PaperMoney®

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under the title

"Energy in the Pulp and Paper Industry"



