

## Index

Note: Page references in *italics* refer to Figures; those in **bold** refer to Tables.

- agricultural products, link with oil prices 150–3
- Ahmadinejad, Mahmoud 5
- Algeria 43
- alkylate gasoline 138–9, *139*
- alkylation 53
- Angola 43
- Arabian Light crude as benchmark 30–1, *31*, 34, 35, 40
- Asia-Pacific, per capita oil demand *49*
- automotive fuels, taxation effect *61*
  
- backwardation 117, 128
- benchmarking 105–6
- BFO (Brent, Forties, Oseberg), 21 day benchmark 126–7
- bio-fuels 156
- Bonny Light 105–6
- BP 40
- BP-Amoco-Arco 44
- BP-Chevron 89
- Brent 15 day contract 94–9, 117
  - mechanism 95–6
  - price risk 98
- Brent 15 day market, problems of 123–30
- Brent 21 day market 126
- Brent Blend 40, 89
- Brent Dated 101, 102
  - 1970–2010 2
  - assessment 128–30
  - as benchmark 105–6
  - market 98
- Brent IPE 102
  
- Brent Oil
  - correlation index between international crudes and 106 **106**
  - discovery 89
  - features 89
  - Forward and Futures, paper market 116
  - Futures contract 40
  - inter-monthly volatility 27–8, 27
  - as international benchmark 37–40, 101
  - market 11–17, 89–103
    - creation and intention of 15–16
    - price collapse (1986–88) 8
    - IPE 100–2
  - versus NYMEX 14–15, *15*, **16**
  - product prices
    - 2004 143, *143*, 144, *145*
    - 2010 143, *144*, 144–6, *145*
  - production 89
    - 1976 32
  - sale and purchase contract 90–4
  - squeeze 123–5, 126
  - value, as reference for crude oil price 10–13
- Bush, George 50
  
- Carson, Rachel 45
- Caspian Sea area, problems in 70
- Chavez, Hugo 5
- Chernobyl accident 9, 43, 45, 46
- Chevron 40
- Chevron-Texaco 44
- China 48
- classical industrial model 81–2, 82

- classical model of demand/supply 73, 76, 76  
vicious circle in 78, 78  
classical model of international oil market  
73–80  
Clinton, Bill, administration 50  
component prices, impact of 53–5  
contango 117, 128  
Crack Spread 148  
cracking 52–3  
crude oil  
destination of 71  
heavy, refining cycle 84, 84  
marginal barrel, cost of 18–19  
market 5  
link to physical market 17–18  
monopoly and 1970s crises 30–3  
prices 1970–2011 30  
production  
2008 7  
2008–10 14  
war 1970–2011 30  
world demand 47
- DDT 45  
demand/supply of gasoline and gasoil 21–8  
diesel fuel, tax burden 61  
distressed cargoes 99  
driving season 83
- Earth Day 45  
economic model 2, 3  
Ekofisk 127  
electricity production 155  
Emirates 42  
energy diversification 66  
environmental demand, evolution of 45–50  
equity quota 72  
Europe  
automobile taxation 62  
construction of refineries 65  
gasoline prices 60  
per capita oil demand 49  
public transport 62  
refineries number versus distillation and  
conversion refining capacity 132, 133  
refinery crisis 131–54  
surplus/deficit in capacity, refining margins  
and demand 135–6, 135, 136, 137  
taxation  
on diesel fuel 59  
on gasoline 57–9, 58, 59, 61
- Exxon 30, 40, 89  
Exxon-Mobil 44
- financial crisis and oil market 2008 10–17  
financial market for crude and finished  
products 5  
financial refinery versus real refinery 148, 148  
finished products market 5  
fiscal policies 55–62  
floating storages 117–19  
flows  
dependent on price 70, 71  
guaranteed 70, 71  
Forties pipeline system 126, 127  
free market, start of 41–4  
Fukushima nuclear accident 9, 10, 28, 161
- gasoil 61  
demand/supply 21–8  
Europe and USA 21–3, 22  
in Europe 9  
specification, evolution of 47, 47  
US consumption 61–2  
gasoil/Brent prices ratio 146, 147  
gasoline  
and components 50–3, 51  
composition 23  
consumption, US 61–2  
demand/supply 21–8  
Europe and USA 21–3, 22  
price  
US 61  
world 60  
shortfall in USA 9  
specifications, evolution of 46  
gasoline/Brent prices ratio 146, 146  
Gore, Al 50  
GTL (gas to liquid) technology 157  
guaranteed flows 70, 71  
Gulf War 9, 43
- hedging the price risks 106–14  
examples 107–10, 110–13  
Hussein, Saddam 32  
hydrocarbons, molecular composition  
49  
hydroskimming 82, 83
- India 48  
Intercontinental Exchange (ICE) platform,  
creation 103

- International Energy Agency (IEA) 32, 33, 73  
variation in estimated stocks 79
- International Petroleum Exchange (IPE) 40  
Brent market 100–2
- Iran 48  
revolution in 32–3
- Iran-Iraq war 32, 33, 42
- Iraq 48  
invasion of Kuwait 42  
as swing producer 43  
US embargo on 43
- isomerization 53
- Italy  
automotive fuel taxation 62  
gasoline prices 60  
refineries 69, **67**  
taxation on gasoline 59
- Japan 48  
jet fuel market 24–5
- Kazakhstan 43
- kerosene 24
- Kuwait 42  
invasion by Iraq 42  
as swing producers 42–3
- laws, fuel 156  
US Clean Air Act (1999) 44, 48–50
- lead, banning of 49
- leaded gasolines, banning of 48
- Libya 48, 161  
crisis 9  
sweet light crude production 10
- lifting procedures 130
- loading terminals procedures 119–21
- market structure 117–19
- Marx, Karl 161
- Mattei, Enrico 63
- mechanistic method 120
- modern oil industrial cycle 85, 85
- modern supply/demand model 77–8,  
77
- MTBE (methyl tert-butyl ether) 54
- naphtha, light virgin 53
- natural gas 157
- netback value system 36
- Nigeria 43  
religious conflicts in 158
- crudes, competition with Brent oil  
38
- crisis in 39
- Ninian 89
- nominal cargo size 120
- nomination method 120
- North Africa crisis 8–9, 28
- North Sea 43
- nuclear power 34, 156
- NYMEX 14, 101  
versus Brent 14–15, 15, **16**
- Obama, Barack 161
- off-take agreements 130
- oil crisis 2008 7–8
- oil for food programme 43
- oil futures market 13  
NYMEX 14  
NYMEX versus Brent 14–15, 15, **16**  
daily trades (2008–10) 18
- oil market, correlation and dynamics in 4
- oil price, divorce between oil and 102–3
- oil shocks 132
- oligopoly model 37
- OPEC 162  
formation of 31  
influence on dynamics of crude prices 17  
in 1980s 33–5  
production v. Brent 3, 4,  
suicide of 40–1
- operational flexibilities, hedging and 114–16
- Oseberg 126
- OSP 40, 41
- petroleum peasants 157
- Platts 125–6, 127, 128–30
- pooling of rights 121
- price crash 1986 40
- price war 35–7
- Reagan, Ronald 35  
administration 66
- refineries  
in Europe 65  
in producing countries 66  
*see also under names*
- refinery margins versus crack spread 148,  
149
- refinery scheme, simplified 55, 56
- reformed gasoline 52
- reforming 51–2

- reformulated types 48–9  
reserves, size and duration 156–7  
rogue traders 110  
Rotterdam refining market 139–40
- Saudi Arabia 39–40, 42  
  price war 35–6  
  production 10, 33  
  quota, 1985 35  
  renunciation of official price system (OSP)  
    36
- Seven Sisters 63  
Shell 30, 40  
Shell UK 89, 90, 94  
  ‘15 day Brent contract’ 37  
Shell UK-Exxon 89  
short-term model of international oil market  
  81–8  
*Silent Spring* (book) 45  
Société Générale 159  
Spar terminal 89  
Statoil 126  
stocks, fluctuations in, versus Brent price 75,  
  75  
strippers 39  
Suez Canal, closure of 65  
Sullum Voe terminal 89, 120  
sulphur reduction 49  
supertankers 66
- tax spinning 105  
taxation  
  on gasoline 57  
  legislation 159  
  on petroleum products 56, 57  
  UK 105  
  US  
    on fuels 62  
    on gasoline 57, **58**
- Thatcher, Margaret 35, 41  
thermo-electric power stations 34  
Total-Fina-Elf 44  
transport costs 66
- UK taxation 105  
United Nations, Security Council 43  
USA  
  Clean Air Act (1999) 44, 48–50
- continual fall in crude domestic production  
  48  
crude demand by sector 46  
evolution of oil demand 49  
gasoil consumption 61–2  
gasoline consumption 61–2  
gasoline price 61  
imports: gasoline and blending components  
  54, 138, 138  
per capita oil demand 49  
petroleum consumption 63  
petroleum production 63  
refineries and average refining capacity  
  66–7, 68  
refineries number versus average refining  
  capacity 132, 133  
refining capacity versus rate of utilization  
  67, 68  
strippers 39  
surplus/deficit in capacity, refining margins  
  and demand 136, **137**, 137  
taxation  
  on fuels 62  
  on gasoline 57, **58**  
transport cost reduction 63
- variable discount 41  
Venezuela 42, 43
- world energy policy 8–10  
world gasoline prices 60  
world oil  
  demand 73–5, **74**  
    2008 7  
    2005–10 6  
  versus supply 7, 8  
  supply 73–5, **74**
- world oil flow 63–72, 64  
  downstream transformations 66–70  
  world supply structure 70–2  
world refining system 82–3  
WTI (West Texas Intermediate) 101  
WTI—Brent differential 24–8, 26
- Yamani, Sheikh 35–6, 37, 38, 101  
Yom Kippur war 31
- Index compiled by Annette Musker*