

Index

- Africa 4, 49, 160–61, 163, 179, 189, 199, 233
- Alekperov, Vagit 188, 194
- Alfa Group 24, 59
- Algeria 193, 198–9
- Americas 4, 18
- Angarsk 166, 197
- Angola 186, 203
- Arctic 110, 167, 203, 210, 213, 218, 227, 233
- Asia 3–5, 9, 18, 28, 59–60, 119, 232
- Central Asia 3, 12, 22, 129, 145, 148
- East Asia 9, 156, 160, 166, 169, 171, 173, 175, 178
- Northeast Asia 4, 9, 74, 80–83, 85, 212, 232, 236
- Asia Pacific region 110, 160, 163, 201
- Australia 171, 208
- Azerbaijan 188, 190, 193
- Baev, Pavel 208–9
- Baltic Sea 9, 120, 123, 166, 232
- Baltic Sea States 125–6, 128
- Baltic States 124, 131, 133, 142, 166
- Barents Sea 7–9, 17, 27, 102, 120, 195, 210, 212–13
- BASF 123, 133
- Belarus 4, 9, 17, 124, 128–9, 136–8, 142–3, 147, 150–53, 232, 235
- Belgium 121, 123
- Black Sea 9, 101, 102, 166, 189
- Biomass 10, 99, 101, 105
- BP 24, 56, 133, 190, 193, 197–9, 203–4, 214, 218–19
- Brazil 3, 100, 192
- BRIC 3, 4
- business studies 10, 31
- Canada 56, 100, 208, 224–5, 227
- Caspian region 8, 18, 132, 187–8
- Caspian Sea 102, 167, 189, 199
- Caucasus 3, 18, 100–102, 159
- Chaiadinskoe 16, 63, 80, 83
- Chaianda 79, 83–5, 88–9, 178
- Chavez, Hugo 195, 198, 200
- Chevron 190, 203
- China 3–4, 17, 22, 59–60, 62, 80, 88, 159–61, 163, 165–6, 170–71, 173, 176–8, 189, 192, 196, 201–2, 211, 214, 216, 219, 223–4, 235–6
- China Development Bank 166, 201
- climate change 4, 6, 16, 18, 27, 39, 41, 64, 92–3, 111, 113, 206, 209, 214–17, 223, 226–8, 234
- see also* greenhouse gas; Kyoto protocol (treaty)
- CNPC 84, 190, 196–7, 201–202
- Commonwealth of Independent States (CIS) 5, 8, 22–4, 27, 59, 118–19, 142, 145, 159, 195, 199, 203, 233
- Conoco-Phillips 24, 195
- corruption 13, 55, 58, 140, 145, 148–9, 207, 223
- Cuba 186, 203–4
- Daqing 165–6, 197
- Denmark 120–26, 130, 135
- Dixon, Sarah 55, 57
- Dutch disease 3, 10–11, 146, 208
- see also* resource curse
- Dynkin, A. 58–9
- East Siberian Pacific Ocean (ESPO) pipeline 9, 77, 164–6, 175–6, 179, 201–2, 219, 235–6
- Eastern gas programme 9, 163, 178
- economics 6, 10, 14, 31, 33, 60, 127, 132
- E.On Ruhrgas 123, 133
- Egypt 189, 193, 199
- electricity 6, 24, 26–7, 48, 52, 67, 71, 94, 96, 100, 102, 104–5, 107–8, 141, 213–14, 234

- Elf 189, 191
 energy diplomacy 11–13, 22, 61, 232, 237
 energy efficiency 4, 6, 16, 18, 64, 70, 92–4, 96–8, 104–7, 109–13, 211, 213–14, 217, 223–6, 228, 234
 energy imperialism 3, 12–13, 21, 137, 140
 see also frame: energy superpowerframe
 energy intensity 50, 94, 97, 106, 214, 217, 224–6
 energy savings 4, 92, 104, 109, 225, 227
 energy security 11, 13, 17–18, 28, 37, 41, 96, 119–20, 124, 134, 160, 179, 189, 204, 206, 209, 213–17, 228, 232
 security of supplies 11, 28, 37, 63, 117, 209, 217, 234
 security of transit 17, 117, 217
 see also frame: energy security frame
 energy superpower 3, 16, 21, 34, 36, 96, 98, 106, 108, 113, 120, 146, 149, 153, 207
 see also frame: energy superpower frame
 energy transit 3–4, 9–11, 17, 20–21, 33, 36–7, 39, 64, 74–7, 80, 104, 117–20, 122–3, 126, 128–30, 134–42, 144–53
 engineering 6, 25, 30, 73, 84–5, 122, 187
 Eni 133, 190, 203
 ERG 105, 195
 Estonia 125–6
 Europe 4–5, 8–9, 18, 24, 28, 36, 49, 55, 59, 60, 64, 93, 104, 109, 118–20, 122, 126, 129, 136, 142, 148, 150, 152, 159, 178, 189, 195, 198, 200, 202, 204, 211–12, 216, 232
 Central Europe 9, 12, 22, 64, 136
 Eastern Europe 3, 4, 9, 12, 22, 64, 105, 117, 119, 130, 132, 136, 166, 196
 North Europe 9, 123
 Western Europe 100, 118–9, 124, 130, 138, 143, 148
 European Bank for Reconstruction and Development (EBRD) 82, 84, 105
 European Commission 120, 123–4, 132, 213
 European Council 123–4
 European Parliament 123–4
 European Union (EU) 11–12, 14, 23, 36, 40, 54, 59–61, 104, 117, 124–5, 131–4, 203, 211–14, 216–18, 224, 226, 232, 234
 events 6, 13, 15, 20, 28, 35–41, 113, 127–8, 132–3, 147, 212, 227, 229–31, 234–5, 238
 Exxon 164, 190, 199, 202
 Far East 16–18, 24, 65, 71–4, 82, 85, 88, 100, 102, 110, 156–60, 163–4, 169, 173–4, 177–8, 218–219, 233
 see also Asia
 Finland 55, 120–22, 124–6, 130, 133
 Former Soviet Union (FSU) 138, 146
 former Soviet republics 126, 142
 see also Soviet Union
 Fortum 118, 122–3
 frame 26–8, 35, 37, 40, 45, 47, 54, 125, 191, 195, 238
 business frame 15, 17–18, 26–8, 31–2, 37, 46–7, 59, 61, 120, 129, 134, 137, 140, 148–50, 179, 232
 energy security frame 28, 120, 232
 energy superpower frame 15–16, 27–8, 37, 46–8, 61, 108, 113, 134, 136–7, 139, 146, 207, 232
 political frame 147, 151–2
 Soviet interdependence frame 15, 46, 62, 232
 sustainability frame 27–8, 35, 37, 92–3, 97–8, 103, 108, 110–12, 232
 see also energy superpower; policy environment
 Fridman, M. 24, 197
 Gaddy, Clifford 10–11, 207–8
 Gazprom 9, 17, 22–4, 32, 36, 46, 48–56, 62, 80–85, 87–90, 118–19, 121–4, 126, 128, 133, 135, 137–8, 140–46, 148–53, 163, 165, 177–9, 191–2, 194, 196–8, 200, 203–4, 213, 218–19, 235–6
 Gazpromneft 24, 48, 203
 GDF SUEZ 133, 190
 geography 6, 30–31, 185–6, 199, 211, 216, 224

- geology 6, 30
geopolitics 11–13, 127, 209, 237
geothermal power 10, 100
Germany 9, 37, 118–24, 126, 128, 133, 134, 160, 187, 189, 196, 200, 211
Government of Russia 16, 23, 25, 31–2, 39, 48, 50, 52, 54, 56, 59, 62, 84, 94, 99, 104, 126, 128, 131, 137, 141, 144, 156, 163–4, 166, 179, 189, 196, 200, 201, 204, 214, 221
Greenhouse gas (GHG) 4, 93, 97, 234
Gulf of Mexico 214, 218
- Hanson, P. 220–21
Hungary 12, 187
hydro(power) 10, 47, 75, 77, 79, 93–4, 97–100, 102, 107, 111
- Ickes, Barry 10–11, 207–8
Independent Institute of Social Politics 71, 74
India 159, 164, 204, 211
Indonesia 100, 171, 193
Interdisciplinarity 20–21
see also multidisciplinary
interest 17, 26–8, 34–5, 37, 47, 49–51, 56, 58, 61–2, 66, 69, 80, 96, 98, 103, 121, 123, 139–40, 151, 153, 188, 192, 195–6, 199, 219
International Energy Agency (IEA) 6, 7, 103, 108, 159, 213, 215, 217, 229
International Monetary Fund (IMF) 151, 207
International Oil Companies (IOCs) 81–2, 84–5, 193, 199–200, 211, 217–19
International Panel on Climate Change (IPCC) 29, 215
international political economy (IPE) 32–3, 233
see also economics
international relations (IR) 11–13, 30, 32–3, 127
Iran 22, 186, 203
Iraq 186, 189, 193–4, 197, 199, 203
Irkutsk (Irkutskaiia) oblast 9, 16–17, 71–5, 78–9, 80–81, 83, 85, 88–9, 157–8, 165–7, 169, 201–2
Itera 145, 149
- Japan 4, 17, 59, 88, 100, 160, 162, 164–6, 169–72, 177–8, 224, 227, 236
- Kamchatka 100, 113
Kara Sea 7–8, 210, 212, 218, 228
Karachaganak 189–90
Karelian Republic 105, 113
Kazakhstan 22, 188–9, 193, 199, 204
KazMunaiGaz 190, 199
Khodorkovsky, M. 24, 55–6
Kjærnet, H. 96, 105
Kovytko 16, 56, 60, 63, 79–81, 83–5, 89, 219, 236
Kozmino (Bay) 9, 165–6, 170, 176, 202
Krasnoïarsk krai 157–8, 167–9
Kumkol 188, 190
Kurdistan 197–8
Kyoto protocol (treaty) 4, 24, 108, 112, 215, 226
- Ledeneva, A. 57–8
Leuna-2000 189, 191
law 14, 33, 98, 105–7, 125, 143, 164–5, 167–8, 213, 217
Libya 186, 197, 203
liquefied natural gas (LNG) 9–10, 76–7, 81–2, 88, 159, 165, 169, 171–3, 177, 212, 219
Lithuania 125, 131, 138, 194, 196
Liuhto, K. 49, 129
Lukarco 189, 190, 193
Lukoil 18, 24, 48, 53, 59, 105, 187–91, 193–8, 200, 236
- Malaysia 171, 193
Mashinoimport 186, 190
Mazeikiu Nafta 194, 196–7
Mediterranean Sea 167, 196
Medvedev, D. 24, 32, 48, 51, 64, 94, 109, 119, 130–31, 195, 199, 207, 222, 226–7, 234
Meleya 189–90
Middle East 9, 28, 160–63, 170, 179, 189, 233
Miller, Aleksei 123, 144
Mitsubishi 82, 84, 164
Mitsui 82, 84, 164
modernization 18, 49, 59, 79, 83, 112–13, 207–8, 217, 219, 222, 226, 228, 236

- MOL 196, 198, 201
 multidisciplinary 14–15, 35
see also interdisciplinarity
- NAK Naftohaz 149, 150
 national oil companies (NOCs) 84, 86,
 192–3, 200, 203, 211, 219
 Nenets AO (Oil Company) 165, 167
 Neste 122, 126
 Netherlands 121, 123, 195
 Nord Stream gas pipeline (NSGP) 9, 17,
 28, 62, 117–20, 122–6, 129–35,
 232, 234
 North Russia 99, 101, 110, 192
 North West Russia 99, 105, 233
 Norway 9, 52–3, 193
 Novatek 23, 195, 219
 nuclear energy 10, 97
- OECD 103, 108, 211, 214, 216–17
 Okhotsk Sea 102, 210
 OMV 198, 201
 Organization of Petroleum Exporting
 Countries (OPEC) 7, 60, 210, 211
 Øverland, I. 96, 105
- Pacific 65, 166, 202, 235
 Pakistan 198–9
 PDVSA 195, 200
 peat 9, 99, 102, 111
 PetroChina 201–2
 Petronas 193, 203
 PetroVietnam 186, 198, 204
 Poland 17, 124, 128, 133, 152, 187, 194
 policy environment 15, 19–20, 26, 29,
 35–7, 39, 40, 48, 65, 69–72, 74, 83,
 85, 88–90, 92, 94, 98, 104, 106,
 108, 111–12, 145, 185, 189, 228,
 230, 232–3, 237–8
 resource geographic dimension 15–6,
 18, 30–31, 34, 38–9, 66, 72,
 75–7, 92, 98, 103, 111, 113,
 147, 156, 169, 185–6, 192, 204,
 206, 209–10, 218, 228, 230–31,
 233
 financial dimension 15–6, 18, 30–34,
 39, 55, 64, 72, 75–7, 92, 104–6,
 111, 113, 127, 147, 156, 169,
 177, 185–9, 191–2, 196, 198,
 202–6, 212, 228, 230–31, 233
 institutional dimension 15–8, 30,
 32–4, 39, 48, 55, 64, 66, 69, 72,
 75–7, 92, 106, 108, 111, 113,
 117, 127, 144, 147, 160, 167,
 175, 185–6, 188–9, 194, 196,
 198–9, 202–4, 206, 228,
 230–31, 233, 237
 ecological dimension 15–6, 30, 34–5,
 38–9, 64, 72–3, 75–7, 92,
 111–13, 166, 206, 214, 228,
 230–31, 234
 political science 11, 33
 Prigorodnoe 82, 169, 171
 privatization 47–8, 52, 57, 64, 143, 191,
 220
 production-sharing agreement (PSA) 23,
 81–2, 84, 164–5, 189, 203
 Putin, V. 25, 32, 48, 64, 128, 131–2, 134,
 166, 194–5, 198, 200–202, 204,
 207, 218, 227
- Qatar 171, 193
- RAO UES 27, 48, 104, 191
 rationality 26, 32, 139, 142
 renewable energy 4, 5, 6, 10–11, 16, 21,
 92–9, 101–9, 111–13, 209–10
 rent 16, 23, 32, 36, 63–6, 68, 71–7, 80,
 83–90, 140, 144–6, 149, 151,
 206–8
 resource curse 3, 103, 146, 207–8
see also Dutch disease
 resentment 17, 117, 127–9, 131, 134–5,
 232
 Roshydromet 227, 228,
 Rosneft 18, 23–4, 48, 50–52, 55, 60, 81,
 84, 133, 144, 164, 166, 168, 175,
 179, 189, 191–3, 196–203, 218–19,
 236
 RosUkrEnergO 149–50
 Rotterdam 167, 194
 Royal Dutch Shell 56, 82, 164
 RusHydro 100–101
 Rusia Petroleum 56, 80–81, 84, 219
- Sakha 70–71, 74, 77–9, 83, 85, 88–9,
 169
 Sakha Republic 16, 72, 74, 78, 80,
 157–8, 167–8, 175, 178

- Sakhalin (Sakhalinskaia) 9, 12, 18, 23, 49, 56, 60, 63, 71–2, 74, 76, 78–9, 80–2, 84–5, 88–9, 100, 157–8, 163–5, 169–74, 177–8, 217–18, 233
- Saudi Arabia 7, 193
- Scandinavia 208, 225
- schemata 26–31, 35–40, 140
see also frame
- Sea of Azov 101, 167
- Sea of Okhotsk 74, 99
- Sechin, I. 24, 51–2, 199–202
- Serbia 203–4
- Shell 81–2, 84, 123, 218–19
- Shtokman 9, 17, 27, 120–21, 195, 213, 219
- Siberia 65, 71, 85, 100, 206, 218–19
 East Siberia 7, 9, 17, 23, 56, 65, 71–4, 85, 100, 110, 156–60, 163–4, 165–9, 175–8, 192, 202, 210, 213, 219, 233, 235–6
 West Siberia 7, 8, 17, 37, 64, 156, 166, 175–6, 178, 187–8, 196, 210, 218
- Sibneft 24, 59, 191, 203
- Sinopec 199, 202
- Skovorodino 17, 165–6, 171
- Slavneft 25, 48, 219
- Slovakia 12, 196, 197
- socialism 185–6
- sociology 22, 33
- Sokol 162, 170
- Sokolov, A. 58–9
- solar (power/energy) 10, 98–9, 102, 105, 107
- Sonatrach 193, 199
- South Korea 4, 17, 59–60, 80, 88, 160, 163, 169, 170–73, 178
- South Stream pipeline 9, 130, 133, 203
- Soviet Union 5, 15, 45–7, 50, 54, 57, 62, 64, 82, 85, 88, 98, 100, 108, 117, 122, 128, 134, 160, 186–7, 204, 206, 213–15, 223
- Statoil 27, 190, 193, 195, 219
- Stern, J. 7, 118
- structuration 15, 20, 37–40, 45, 49, 65, 69, 72, 80, 84–5, 88, 228, 230, 235, 237–8
- Surgutneftegas 24, 48, 57, 59, 83, 175, 189, 191, 198, 200
- sustainability 16, 86, 92, 94, 96–7, 108, 112–13, 131, 216–17, 234
- sustainable development 92–5, 103, 215
see also policy environment:
 ecological dimension; frame:
 sustainability frame
- Sutela, P. 221, 223
- Sweden 120–121, 123–6, 130, 135
- Syria 186, 197, 204
- Taishet 165, 176
- Taiwan 170–71
- Talakan 168–9
- Tatneft 25, 48, 197
- Tengiz 189–90, 193
- Tianjin 201–2
- tidal power 10, 102
- Timan-Pechora 7, 8, 164
- TNK-BP 23–5, 48, 53, 55–7, 80, 84, 175, 191, 197, 200, 203, 219
- Total 27, 165, 190, 195, 219
- TPAO 190, 203
- Transneft 25, 48, 110, 166–7, 176–7, 196–7, 201–2, 219
- Transpetrol 196–7
- Turkey 230, 159
- Turkmenistan 22, 145, 149, 204
- Tyumen 156–9
- Ukraine 4, 9, 17, 28, 36, 54, 118–19, 122, 126, 128–31, 133–4, 136–8, 143, 145, 147–52, 187, 189, 197, 204, 232, 235
- UNDP Russia 210, 222, 226
- United Arab Emirates (UAE) 171, 199
- United Kingdom 121, 123
- United Nations (UN) 189, 215
- United Nations Development Programme (UNDP) 93, 95
- Urals 100, 167
- USA 4, 9, 11–12, 37, 53, 55, 60, 100, 160, 170, 177–8, 195–6, 198, 202, 212, 223–4
- Uzbekistan 22, 193
- Vankor 167, 168, 169, 202
- Venezuela 193, 194, 197–8, 200
- Verkhniaia Chona 168–9
- Vietnam 186, 198, 204
- Vladivostok 173, 177–8

- Volga-Urals 8, 210
Vostok Energy 201–2
Vyakhirev, R. 122, 144
- West Kurna-2 189–90, 193
White Sea 99, 102
wind (power/energy) 10, 98–9, 101, 103,
107
World Bank 105, 221, 225
World Trade Organization (WTO) 213,
226
WWF Russia 25, 111
- Yakutia 72, 74, 178, 192
Yakutsk 71, 88
Yamal peninsula 9, 17, 49, 120–21,
167, 212, 219, 228
Yanukovich, V. 148, 150
Yeltsin, B. 64, 207
Yukos 18, 24, 53, 55–6, 59, 131,
189, 191, 196–7, 199–201, 217,
236
- Zabaikal 163, 173
Zarubezhneft 186, 190, 204