Cambridge University Press 978-1-108-49001-6 — Durable by Design? Andrew J. Jordan , Brendan Moore Index More Information

# Index

Actors capacities of 12, 23, 49, 181, 188, 206, 214, 218, 220. 240 identities of 12, 188, 206, 214, 220, 240 preferences of 12, 22-3, 32, 49, 52, 181, 188, 206-7, 213-15, 218, 220, 240, 242 Adaptation (to climate change) policy 27 Agriculture policy 10, 31 of the EU 34, 86, 108, 110, 123 Air pollution (local) 176, 179-80, 238 Alliance of Energy Intensive Industries 92, 142, 150, 202, 215 Automatic 47-8 policy changes 47-8, 52, 233 policy devices 47-8, 52 see also, manual Auto-Oil Programme 100, 162-3, 166 Aviation 71, 85, 90, 190 and the EU Emissions Trading System 71, 90, 97, 104 Backloading 149-53, 193, 204, 226 see also emissions trading Biodiesel 81, 189 Bioethanol 81, 189 Biofuel 24, 30, 50, 67, 69-70 as a 'dirty fuel' 202 as a policy panacea 115, 189, 202 backlash against 117 definition of 80 Directive on (2003) 80, 83-7, 106, 112, 131, 189, 199ff, 201-2, 208, 217, 221-2, 224 emergence of EU policies on 83 EU production trends 84-5, 115, 119, 125, 189 feedstocks 84, 117 global production trends 82, 84-5, 115, 125, 189 opposition to 115-17 policies on 82, 86 supply chains 118, 126, 191, 202, 237

sustainability criteria for 107, 112, 115-16, 119, 121-4, 129 types of 81 see also, biodiesel see also, bioethanol see also, biofuel types see also, Indirect Land Use Change (ILUC) Biofuel types 81-2 first generation 81, 107, 115, 118-19, 123-9, 132, 190, 200, 206, 221, 224 second generation 82, 107, 113, 115, 119, 121, 123-5, 129, 132, 190, 201, 221, 224 third generation 82, 107, 115, 119, 121, 124-5, 129, 190, 201, 221, 224 see also biodiesel see also bioethanol Brazil 83-6, 119, 217 Canada 5, 71 Car emissions 97, 158, 168-9, 171, 175-6, 179-80, 183 in the EU 97, 158, 238 Recommendation on (1999) 102, 163, 166, 182 Regulation on (2009) 103, 158-9, 172-3, 176-7, 182, 196, 204, 225 Regulation on (2014) 103, 178, 181-2, 225 Regulation on (2019) 104, 182-3, 208, 225 voluntary agreement on (1999) 101-3, 158, 163, 182, 195, 204, 225 see also, air pollution (local) Car industry 59, 64, 99-100, 106, 160, 162, 179-80 Car production 99-100 trends in the EU 99-100 Carbon lock-in 10 Central and Eastern European Member States 70, 72-3, 96, 146-7, 149, 155, 157, 178, 203, 227 China 227 Climate change xi, xiii, 3, 5-7 defining characteristics of 58

Climate change policy xii, 4, 6–10, 12, 16, 19, 23, 26–7 main instruments of in the EU 62, 64, 78

Cambridge University Press 978-1-108-49001-6 — Durable by Design? Andrew J. Jordan , Brendan Moore Index More Information

# Index

origins in the EU 64 see also, adaptation policy see also, deep decarbonisation see also, net zero greenhouse gas emissions Comitology 61, 94 and EU climate policy 94, 132, 138, 147, 151, 175, 233 Conference of the Parties to the UNFCCC 67 Berlin (1995) 67, 162, 237 Copenhagen (2009) 70-3, 120, 144, 147-8, 227, 243 Katowice (2018) 75 Paris (2015) 73-4, 129, 154, 179, 243 see also, United Nations Framework Convention on Climate Change Council of Ministers 61, 63 Counterfactual analysis 52, 216-17 method of 52-3 as a means to understand climate policy durability 52-3, 216-17 Court of Justice of the EU 153 Deep decarbonisation xi-xii, 3-5, 8, 10, 12, 21, 23, 74 policy of the EU 71-3, 230-1, 233, 237-8, 241 see also, net zero greenhouse gas emissions Delbeke, Jos 135, 151, 233 Depoliticisation 14, 48 DG Climate Action 71, 126, 148 DG Energy 110, 126, 132 DG Environment 63, 65, 76, 133, 135-8, 145, 148, 160, 163-5, 170-1, 175, 192-4, 197, 203, 206, 214 DG Industry 160, 163-5 Dieselgate 103, 180, 196, 205, 219, 238, 241, 243 see also, car emissions 'Dirty' biofuels 107, 119, 202, 215, 219, 243 see also, biofuel Drop-in technologies 106 and biofuel 110-11, 190, 199, 201 and car emissions 165, 168, 195 in the car sector 106, 110 Durable politics 35 see also, policy durability see also, durability see also, flexibility see also, policy flexibility Durability (of policy) xii, 4, 32 characteristics of 32 definitions of xii, 4 main dimensions of 7-8, 235 see also, flexibility Electricity generation industry 90-1, 97

see also, Eurelectric Emissions trading 92–3 adoption by the EU 92–3 and EU allowance prices 140, 142, 144–5, 148–51, 157, 195, 202–3, 226, 237 Decision on the Market Stability Reserve (2015), 153

# 273

Directive on (2003) 92, 96-7, 133-4, 138-9, 145, 156, 191, 202, 208, 217, 223, 233 Directive on (2009) 95-6, 143, 145-7, 156, 191, 223 Directive on (2018) 95-6, 153, 155-6, 210, 223, 226 - 7emergence of in the US 134 Endogenous (policy) change 52 see also, exogenous factors Energy efficiency 64, 69-70, 73, 75, 142, 149 of cars 160-1, 167-8, 179 policies of the EU 64 Energy-intensive industries 91-2 see also, Alliance of Energy Intensive Industries Energy security 83, 108, 110, 114, 126 Eurelectric 91, 136, 145, 150, 152, 181 European Automobile Manufacturers' Association (ACEA) 64, 99-102, 158, 160, 164-72, 174, 176-7, 183 see also, car industry European Biodiesel Board (EBB) 85, 112, 119, 125, 128, 190 European Bioethanol Fuel Association (eBIO) 85, 119, 190 European Biofuels Technology Platform (EBTP) 85, 190 European Climate Change Programme (ECCP) 68-9, 171 ECCP1 69, 77, 137, 140, 143 ECCP2 69, 77, 141, 143-4 European Commission 25, 50, 61, 63 see also, DG Climate Action see also, DG Energy see also, DG Environment see also, DG Industry European Council 61 European Environment Agency (EEA) 61, 66, 75, 77 and biofuels 84, 200, 202 European Environmental Bureau (EEB) 86, 111, 116, 118, 129, 167, 199-200 European Parliament 61, 63-4, 70, 224, 226, 228 Committee on the Environment, Public Health and Food Safety 173 Committee on Industry, Research and Energy 173 European Petroleum Industry Association (EUROPIA) 86, 112 European Union xii, 9, 18, 24 climate policy (development of) 9, 27, 37, 76 hyperconsensual nature of 61, 76, 234 policy design spaces in 61 policy dismantling in 61 policy instrument preferences of 27, 60, 62, 231 European Union Emissions Trading System (EU ETS). See, emissions trading European Vegetable Oil and Proteinmeal Industry (FEDIOL) 85 Exogenous factors 42-3, 219, 221, 226-7, 231, 241 interaction with endogenous factors 134, 216-17,

228, 239, 241

Cambridge University Press 978-1-108-49001-6 — Durable by Design? Andrew J. Jordan , Brendan Moore Index More Information

### 274

#### Index

Feedback loops 42, 188, 206, 213, 219, 228 negative 36, 198-206ff positive 30, 188-98ff see also, policy feedback Feed-in tariffs 34, 45, 48, 198 Financial crisis 71, 90, 96, 124, 146, 148, 157, 176, 179.227 Flexibility 7, 10, 21-2, 29, 230, 232, 234-6, 238, 241 clauses 22, 42, 46-7, 219-20, 228 devices 11, 22-3, 27, 29-30, 42, 45-7, 51-4, 220, 228 in policy design 44, 46, 50-1, 57, 60-2, 64 Focusing events 13, 38, 41, 69, 118, 142, 193, 199, 202, 219, 228, 243 see also, political agendas France 60, 73, 75, 85, 108, 123, 126, 151–2, 155, 160, 164, 172, 180-1 Friends of the Earth 132 Gazprom 69 Germany 5, 48, 63, 65, 67, 73, 79, 85, 108, 115, 139-40, 145-6, 151-2, 160, 162-5, 169, 171-2, 178, 203-4 Green Growth Group 72, 154 Greenpeace 178 Heatwaves xi High Ambition Coalition 74 High Level Group of the European Commission 143, 171 on Automotive Regulatory Systems (CARS 21) 171 on Competitiveness, Energy and Environment 143, 202, 204 Historical institutionalism 19, 32, 59, 188, 197 Indirect land use change (ILUC) 84, 89, 118 Directive on (2015) 89, 107-8, 118, 128-31, 191, 201-2, 208, 210, 221-2 EU policy on 118, 121, 123-8, 201-2 science of 84, 108 Intentional policy design xii, 8-10, 14, 16, 20, 24-5, 27, 29, 42-3, 53, 60, 188, 229-30, 233 see also, policy design Interest groups 5, 12-13, 16-18, 22, 26, 38, 40-1, 58-60, 80, 84, 90, 99-100, 152, 160, 188, 190, 193, 195-6, 199, 206-7, 212, 214-16, 221, 231 Intergovernmental Panel on Climate Change (IPCC) 3-4, 64, 67 International Emissions Trading Association (IETA) 134, 193, 203 Interpretive feedback mechanisms 13, 14-15, 18, 26, 29, 38, 41-2, 66, 104, 144, 187ff, 193, 199, 201-3, 205-7, 215-17, 219, 224, 232 see also, policy feedback mechanisms see also, resource/incentive feedback mechanisms

Kyoto Protocol 67-72, 74, 93, 236 and car emissions from the EU 165, 171 and the EU Emissions Trading System 93, 133-6, 138-9, 141-2, 144 Manual 47-8, 52, 61, 96, 138, 233 policy changes 47, 52 policy change devices 47, 52 see also automatic Market-based instruments 24, 63 definition of 50 in the EU 63 main types of 9, 23-4, 27, 48-52, 63, 78, 195, 207-8 Market Stability Reserve (MSR) 134, 149, 151-3, 156, 204, 208, 226, 233 see also, emissions trading Merkel, Angela 172, 178 Monitoring 22, 42, 45-7, 62, 66, 68, 77, 87, 94, 194, 196, 220, 236 clauses 45, 232 in the EU Emissions Trading System 215 of biofuel production 150 of car emissions 168-9 Motor Vehicle Emissions Group (MVEG) 160-1 National Allocation Plan (NAP) 94-5, 138, 145, 192, 203 see also, emissions trading Negative feedback 36, 198-206ff in policy 14, 19, 21, 26, 36 in politics 36 see also, positive feedback Negative learning 13, 38, 194, 197, 205, 215 see also, policy learning Negative policy feedback 8, 14, 19, 36-7, 198-206ff, 217-18, 220, 243 characteristics of 36-9 definition of 19, 37 explanations of 36-9, 229 see also, positive policy feedback Netherlands 63, 65, 73, 75, 79, 119, 127, 132, 135, 149, 155, 159-60, 164 Net zero greenhouse gas emissions xi, 3, 8, 74-5, 237-8, 243 see also, deep decarbonisation Obama, Barack 71, 75 Organisation for Economic Co-operation and Development (OECD) 50, 81-2, 117, 202 Oxfam 86, 117

Paris Agreement xi, 73–5, 129, 155, 227

Path dependence 16, 25, 28, 30–2, 52–3, 230, 242 *see also*, policy lock-ins

see also, positive policy feedback

Pensions policy 6, 22, 28

in the US 14, 16, 33, 37, 58

Poland 70, 72–3, 75, 126–7, 140, 149–53, 155, 178, 203

Cambridge University Press 978-1-108-49001-6 — Durable by Design? Andrew J. Jordan , Brendan Moore Index More Information

> Policy 20 definition of 20 different sub-levels of 20, 23 Policy adoption 4, 8, 16 Policy alarms 240 Policy change xii, 36 broader theories of 241 Policy design xii, 8, 27, 43-4, 241 challenges of 4, 16 game of 76 intentionality of 8, 14-15, 43, 230 intentions 43 meanings of 44, 230 processes of 48, 232 scope of 26 space 24, 27, 233 stringency 26 Policy dismantling 5, 14, 21, 32, 40, 54, 61, 230 Policy drift xiii, 7, 10, 14, 20, 22, 28, 47, 52, 61, 235, 238, 241, 244 Policy durability 5, 210, 212, 234-6, 238 active forms of 239 and flexibility 10-11, 235-6, 238, 241 definition of 4, 6, 213, 238 devices 11, 22, 45, 47, 51, 77, 232, 241 dimensions of 7, 10 see also, automatic see also, manual see also, policy flexibility Policy entrepreneurs 16, 41-3, 58, 65, 136, 221, 227-8 Policy evaluation 11, 181, 202 Policy feedback xii, 5, 211, 213, 219, 228, 240 definition of 5, 11-12, 17, 213 directions of 11-12 effects 11-12, 17, 27, 188, 213, 219 existing literature on 5-6, 214 first-order effects 17, 27 loops 17, 32, 188, 206, 213, 219, 228 mechanisms of 11, 13 sequences 27, 220 syncretic approach to 41 Policy feedback mechanisms 11, 13 see also, interpretive feedback mechanisms see also, resource/incentive feedback mechanisms Policy flexibility 7, 46, 234 definition of 22 devices 22, 46-7, 51, 77, 220, 232 see also, automatic see also, manual see also, policy durability Policy formulation xii, 16, 38–9, 42, 87, 91, 94, 114, 122, 125, 135, 137, 140, 197, 199–200, 219, 234 Policy fragility 187, 213, 226 Policy innovation 72, 78, 92, 101 Policy instruments xii, 7, 9, 17, 23, 44 definition of 49 main sub-types of 9, 19, 23-4, 27, 49

## Index

275

sequences 80, 104, 207-8, 210-11, 213, 219, 231 stringency of 24 toolbox of 49, 54 typology of 49, 51 Policy layering 20, 28, 241 Policy learning 13, 34, 41, 187, 194 see also, negative learning Policy lock-ins 22, 35, 60, 99, 125, 218, 220, 228, 230, 238 and policy durability 35 see also, path dependence Policy outcomes 7, 9 see also, policy drift Policy packages xii, 9, 23, 212 Policy paradigm 23, 25, 38, 42, 229, 232, 239 definition of 23, 244 of EU climate policy 23, 65, 70-1, 73-4, 239-40 Policy programme 20, 22 definition of 20 goals of 20, 22 Policy regimes 19, 28, 31-2 in climate policy 31 Policy reporting 22, 201-2 in EU policy 68, 87, 89, 94, 110, 114, 121, 129, 143, 175, 190-1, 194, 201 see also, monitoring Policy scope 26 Policy stringency 6 Political agendas 99-100, 161, 171, 180 and focusing events 38, 69, 193, 199, 202, 219, 228, 243 and windows of opportunity 123, 135, 163, 227, 237 Polity 45-8, 60-1, 66, 74, 77, 138, 228 Positive feedback 30, 188 in policy 32 in politics 31 see also, negative feedback Positive policy feedback xii, 6, 8, 14, 32, 188-98ff, 215, 217-19, 243 characteristics of xii, 43 explanations of 32-3, 229 see also, negative policy feedback Process tracing 8-9, 19, 21, 188, 207, 214, 231 and forward tracing 16, 18, 25, 188, 217-19, 231, 234-6, 238, 241 and policy feedback research 19, 21, 188, 207, 214, 231 backward tracing 12, 32 definition of 52 method of 52-4 Regulatory instruments 24, 62 definition of 62 main types of 24, 62 smarter forms of 54 Regulatory policy 6, 14, 16, 18 Relational contracts 46-7, 54 use in EU climate policy 73, 76-7, 88, 165, 174, 232

Cambridge University Press 978-1-108-49001-6 — Durable by Design? Andrew J. Jordan , Brendan Moore Index More Information

# 276

#### Index

Transitions approaches 242

Renewable energy 89 Directive on (2009) 89, 106, 109, 119-22, 131, 190, 201, 222, 233 Directive on (2018) 89, 130-1, 221-2 Directive on Indirect Land Use Change (2015) 89, 107 policy in the EU 108 Renewable Ethanol Association (ePure) 85, 128, 130, 226 Resource/incentive feedback mechanisms 13 see also, policy feedback mechanisms Revert clauses 46-7 in EU climate policy 73, 76-7, 79, 236 Russia 69, 79 Scientific complexity 58 Smart regulation 54 see also, regulatory instruments Subsidies 34, 45, 62, 83, 86, 110, 121, 126, 132, 190, 198, 211, 216, 243 Sunset clauses 46-7, 77 see also, regulatory instruments Sweden 34, 114-15 Systems analysis 30, 36, 188, 197-8 and feedback 188, 197-8 Target groups 6, 8, 10, 12, 22, 24-6, 32-4, 40-1, 43, 45, 47, 51-2, 59, 187-95, 198-204, 206, 214-15, 220, 231 see also, interest groups Technology 59, 78, 242 and policy change 242 drop-in types of 99, 106, 110-11, 165, 190, 195,

- 201 radical innovations 99–100
- Transport and Environment (T&E) 112, 169, 174-6, 178-9, 200, 227

Trump, Donald 75 Unemployment policy 6, 34 United Kingdom 60, 65, 67, 73, 79, 92-3, 95, 126, 135, 148-9, 151-2, 155, 160-1, 170, 178 United Nations Framework Convention on Climate Change (UNFCCC) 66-7, 74, 76, 80, 142, 144, 147, 161-2, 173, 175 United States 9, 14-17, 26, 33, 39, 46, 58, 67-8, 75, 103, 119, 134-5, 142, 161, 169, 171, 180, 215, 217, 236 Veto players 60-2, 76, 136 Veto points 47, 234 Voluntary agreement 29, 49, 51, 63-4 EU agreement on car emissions (1999) 101-3, 158, 163, 182, 195, 204, 225 see also car emissions Voluntary instruments 24, 63 definition of 50 Volkswagen 103, 179 and Dieselgate 103, 180, 196, 205, 219, 238, 241, 243 Welfare state 20 in the US 16, 39 policies on 5-7, 15, 19, 57-8, 62, 78,

- 206, 242 reform of 32, 230
- Wicked policy problems 3, 8, 188, 212
- World Bank 4
- World Trade Organisation (WTO) 111
- World Wildlife Fund for Nature (WWF) 86, 167