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WEB LINKS

A good source of information on the EU's international economic and financial activities is the Europa website (managed by the European institutions), https://europa.eu, where the main agencies and institutions post policy statements, documents, and other materials that are in the public domain. On monetary policy, see the website of the ECB, http://www.ecb.int/. The major economic and financial newspapers have websites that offer a wide range of useful materials, for example http://www.ft.com/ (Financial Times) and http://www.economist.com/ (The Economist). On the financial crisis a useful resource is the blog by Professor Nouriel Roubini: https://www.roubinimonitor.com.

The Challenge of the Environment, Energy, and Climate Change

John Vogler

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Summary

The European Union (EU) has played a prominent role in the global politics of the environment. This chapter examines how EU external environmental policy was established on the basis of internal policies. Despite problems of coordination and coherence under shared competence, the EU has been able to exercise leadership in global environmental governance and most significantly in the development of the climate change regime. Because the latter concentrates on reducing greenhouse gas (GHG) emissions, the EU has faced the challenge of aligning its energy and climate policies, and internal and external action has been closely interrelated, raising questions of climate and energy security. The second part of the chapter traces the way in which the Union has tried to lead the negotiation of an international climate regime up until the 2015 Paris conference and considers the ways in which the different energy interests of the member states have been accommodated in order to sustain European credibility. Finally, there is an analysis of the problems encountered by the Union as a climate negotiator.

Introduction

Environmental policy in general, and climate change policy in particular, represent key areas of EU involvement in the processes of global governance. A theme running through this chapter is that in this area there is a very close relationship between the internal and external policies of the Union. The acquisition of internal competences led to very extensive Community (now Union) participation in a wide range of international environmental cooperation, from the regulation of international trade in hazardous waste to the Kyoto Protocol. As will be demonstrated in the discussion of the links between external climate and internal energy policy, international requirements have also driven domestic policy formulation within the EU. Since the 1980s, sustainable development has provided the *leitmotif* of global environmental politics, For the EU this highlights problems of 'coherence' between its environmental, trade, and development policies, which can limit their effectiveness and legitimacy. It also links to two of the key themes of this volume: the functioning of international relations within the EU and the links between the EU and broader processes of international relational relations.

Despite this, and some of the limitations of coordination and competence that will be examined in this chapter, the EU has made strong claims to international leader, ship. This has been of some significance for the Union's emergent international identity. Whatever the failings of the Common Foreign and Security Policy (CFSP), climate leadership did provide an arena in which success might be claimed and in which the EU could be regarded as constituting a 'power' (thus providing evidence for the third of the key themes in this volume), orchestrating regime construction, mediating between the developed and developing worlds, and taking on the US government over climate and other issues.

with diverse 'energy mixes' and dependence upon external suppliers. Thus climate major dillerences between countries at different levels of economic development mate and energy policy impinged upon some core member state interests revealing climate change regime required that such an internal basis be established, but cli-(Adelle, Pallemaerts, and Chiavari 2009). Leadership in the developing international tered into the climate negotiations of the 1990s without a credible foundation to fulfilling EU obligations under the Kyoto Protocol and to maintaining the credibilform of the ways in which Europe generated and used energy became essential both emissions from power stations during the 1970s and 1980s, but now wholesale reenergy and environmental policy in the campaign to combat 'acid rain' deposited by burning of fossil fuels. There had already been some limited connection between in the late 1980s, has required that the Union take action to limit emissions from the change policy is illustrative of another of the themes of this volume, highlighting the However, the Union had not developed an effective common energy policy and enity of the Union's position in the search for a new post-2020 climate agreement Engagement with the international regime for climate change, from its inception

internal politics of the EU as an international system in its own right, as the Commission, member states, and latterly the European Parliament struggled to reconcile their differing energy requirements in a way that would fulfil the Union's international obligations and ambitions.

once energy and environmental policy had become entangled in the politics of once energy and environmental policy had become entangled in the politics of once energy and change it was also clear that there were significant contradictions and complementarities between conceptions of energy and climate security. Energy policy ended to be framed in terms of security of supply, with many external policy implications of a largely orthodox kind. On the other hand, climate security involved a pather different perspective in which environmental changes potentially threatened the longer-term interests of the Union. Examining the various ways in which policies conflict or provide much sought after 'synergies' is a useful approach to examining the climate—energy connection. It also provides an important example of attempts to achieve sustainability through EU policy coherence, both internal and external.

After its successes in ratifying the Kyoto Protocol and initiating, in 2005, the world's

After its successes in taking the troucou and initiating, in 2005, the world's first international emissions trading scheme (the EU's Emissions Trading System or ETS), the Union found it much more difficult to take the lead in attempts to develop a new comprehensive climate regime. The Copenhagen climate conference of 2009 was seen as a major reverse but the EU was able to lead the negotiation of the 2011 purban Platform that provided a basis for the 2015 Paris Agreement. These events prompt an analysis, in the final section of this chapter, of the factors that determine the success or failure of the EU in climate diplomacy. Some of these relate to coordination and competence problems peculiar to the EU as a negotiator, but probably more significant are changes in the structure of the international system and the complex policy interactions that lie behind the attempt to build a new 'Energy Union'.

Environmental policy

The environment received not a mention in the Treaty of Rome. The Treaty's focus was upon economic regeneration and expansion and, as the 1955 Messina Declaration had noted, 'Putting more abundant energy at a cheaper price at the disposal of the European economies constitutes a fundamental element of economic progress'. The full consequences of success in this enterprise could not have been grasped by the authors of the Treaty of Rome. Nonetheless, activists in the Commission were able to provide creative interpretations of some of its articles such as to allow the early development of environmental policy. The first piece of environmental legislation is traceable to a 1959 directive on radiological protection under the European Momic Energy Community (Euratom) Treaty, to be followed by a range of measures that used the harmonization of standards within the Common Market to insert environmental rules. The types of issue covered were vehicle emissions and packaging Mandards, which if not regulated by the Community, could result in distortions to the

free flow of goods and services within the market. This 'niche' approach was necessitated by the weak legal and institutional position of environmental policy. Action on energy had some treaty basis in the European Coal and Steel Community and Euratom, but key issues of energy mix, supply, and taxation remain within the competence of member state governments (Article 176(a), Treaty on the Functioning of the EU, TFEU). In so far as the Union has been able to develop energy policies it has been through the utilization of single market, competition, and other Community Union competences including those that were to develop for the environment.

environment' is one of the objectives of the Union, which shall also 'contribute to the sustainable development of the earth' (Article 3, (3,5)). Act (SEA) of 1986 and is now incorporated in the Treaty of Lisbon (Articles 191 and protection of wildlife and habitats—to the extent that upwards of 80 per cent of pheric and water quality, the disposal of hazardous waste, noise abatement, and the now Union competences (where the right to make policy passes from the member one of the most substantial areas of European law. European Community (EC) and excess of 250 specific acts. By the 1990s action on the environment had resulted in programmes under which a mass of protective legislation was to be generated—in an environmental action programme was announced, the first of successive Denmark, the Netherlands, and Germany (Andersen and Liesserink 1997). In 1977 publicized accidents and environmental disasters alongside an increasing recognia concern to protect the environment (McCormick 2001, 47). A number of well issued a formal declaration that henceforth economic growth would be tempered by year the Paris summit of the original six members and Britain, Denmark, and Ireland ence on the Human Environment) in Stockholm in June 1972. In October of that its first landmark conference on the human environment (United Nations 192, TFEU). A 'high level of protection and improvement of the quality of the directives. Environmental policy achieved treaty recognition in the Single European member state domestic environmental legislation is initiated by EU environmenta states to the Union) were acquired in a range of significant areas, including atmosthe environment—a process that was generally promoted by green leader states tion of the scale of transboundary pollution encouraged European action to protect An upsurge of green political consciousness within the USA and many other ad.

In fact, for most issues involving environmental policy, competences are shared between the Union and the member states (Article 4(e), TFEU). The proportions of competence vary by issue. For example, in relation to trade in hazardous waste there is a very high degree of Union competence, while for climate change there are important areas of exclusive member state competence. For EU environmental policy under Article 191, the normal legislative procedures apply, which means the application of qualified majority voting (QMV) in the Council and co-decision with the Parliament. Questions of shared competence and internal legislative procedures have significant implications for the role and effectiveness of the EU in international environmental politics, to which we shall now turn.

The international dimension

As with other areas, such as transport, it was evident that the implications of the ECs decisions could not easily be contained within the boundaries of the Common Market Member states, of course, already had a range of existing international committents and treaty obligations. Whereas in the case of trade it had been clear from the outset that authority to negotiate on behalf of all members had to be transferred to the Commission, this was hardly the case elsewhere. Indeed, the very idea of handing over rights to conduct external policy was strongly contested by some member state governments. It was only following a significant legal judgment of the European Court of Justice (ECJ) (European Road Transport Agreement (ERTA), ECJ Case 1970, 31 March 1971, see Box 12.1) that the 'parallel' relationship between internal and external EC policy was finally established. The precise terms and circumstances are given in Box 12.1 and are significant because the ERTA judgment provided the basis upon which the Commission was able to assert its right to represent the EC externally where internal environmental policy competence had been achieved.

senatives of the Commission and of the member state 'president in office' sit behind uvely, is spent by the Commission and national officials in coordination meetings that in representing the Union, depending upon their competences, and this has some asingle EU nameplate and share representational duties.2 climate and other negotiations there is now a pragmatic compromise whereby repreand the right to represent the EU in climate and other environmental negotiations. In lorce of the Lisbon Treaty reopened debates about the extent of Union competence shall see, the EU was able to make credible claims to leadership in environmental diand capable only of moving at the speed of the slowest member state. However, as we ing number of member states, it might have been expected that the EU would be an the international meeting. Much time, which arguably might be used more producstates such that there is usually an internal EU negotiation being conducted within more, there is a need to attain agreement during a negotiation among the member imes irritated and bewildered outsiders who have to interact with the EU Further-10 be signatories to international undertakings, known as 'mixed agreements'. In nethe Union) alongside member states in international negotiations. Both were allowed plomacy, although its internal arrangements can still cause difficulty. The entry into ineffective environmental negotiator, hamstrung by its own internal deliberations (Afionis 2011, 346). With a rotating Presidency, shared competences, and an increasminor Council Working Groups sur place sometimes described as the 'EU bunker' gotations it is possible for either the Commission or the Presidency to take the lead The judgment provided the basis for participation of the Community (and now

Even if the EU was able to organize itself for the conduct of environmental diplomacy, there remained the question of external recognition. The Community and now the Union enjoy international legal personality, that is to say they have the formal right to incur international obligations in the same way as the member states. However, although the Commission may assert the Union's right to

BOX 12.1

ERTA: from internal to external competence

drivers were not handled differently on either side of the Community's boundaries continent and inverse. Standards were maintained and that such issues as rest periods for ensuring that common standards were maintained and that Such issues as rest periods for ensuring that common standards were maintained and that Such issues as rest periods for ensuring that common standards were maintained and that Such issues as rest periods for ensuring that common standards were maintained and that Such issues as rest periods for ensuring that common standards were maintained and that such issues as rest periods for ensuring that common standards were maintained and that such issues as rest periods for ensuring that common standards were maintained and that such issues as rest periods for ensuring that common standards were maintained and that such issues as rest periods for ensuring that common standards were maintained and that such issues as rest periods for ensuring that common standards were maintained and that such issues as rest periods for ensuring that common standards were maintained and that common standards were maintained and that common standards were ensured to be such as the such a ing the European commender states and non-members alike, there was a clear logic to continent and involved member states and non-members alike, there was a clear logic to would involve the European Community). Because road transport operated right across the European ing the European Community. the Treaty or normal transport of rules (Article 71, Treaty establish would involve the setting up of a common framework of rules (Article 71, Treaty establish would involve the setting up of a common framework of rules (Article 71, Treaty establish). The case at 1850 was that a common transport policy should be developed and that this the Treaty of Rome that a common framework of rules (Article 71. Trans. The case at issue covered relatively mundane road transport issues. It was the intention of

development by the Community (ECJ case 22/70, 31 March 1971). ternal competence and which served as the basis for much subsequent external policy known as the ERTA case, that were to define the relationship between internal and ex Council's decision on the negotiations to be annulled. Thus began the legal proceedings sensible arrangement by taking legal action against the Council at the ECJ, calling for the in line with the new Community regulation. The Commission reacted to this apparently May 1970 to concert their national approaches to the negotiations and ensure they were had begun in 1967 and, aware of this, the member states agreed in a Council meeting of tially similar to those covered in the ERTA. New negotiations to revise and ratify the latter 543/69). The matters covered, involving driver standards and rest periods, were essen islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislation relating to road transport (Regulation islated on the harmonization of social legislated on the harmonization of social leg transport policy, envisaged in the Treaty of Rome, when at the end of the decade it leg states, we may be community took the first steps towards the common enter into force. Meanwhile the Community took the first steps towards the common enter into force. In Illustrations were obtained during the 1960s for the agreement to states, but insufficient ratifications were obtained during the 1960s for the agreement to states, but insufficient ratifications were obtained during the 1960s for the agreement to state. in international road transport (ERTA). Among the signatories were five of the six EC signature of a European agreement concerning the work of crews and vehicles engaged In 1962 the attempt to provide a set of Europe-wide regulations commenced with the

between internal and external policy, and that competence for one implies the other, has ures may not be separated from that of external relations'. This doctrine of 'parallelism' those rules or alter their scope' (ibid., 17). Thus 'the system of internal Community measindividually or even collectively, to undertake obligations with third countries which affect common rules in whatever form, the member states 'no longer have the right, acting been of critical importance in the development of EU external relations. Treaty and from means adopted' (ECJ 22/70, 16). Once the Community has laid down express conferment by the Treaty but may equally flow from other provisions of the ments with third countries cannot be assumed in the absence of an express provision in Commission. It found that the authority to negotiate externally 'arises not only from an the Treaty' (ECJ 22/70). On the issue of principle, the Court disagreed and sided with the Treaty did not so provide in the area of transport and that 'authority to enter into agreerights to continue to negotiate the ERTA on an intergovernmental basis because the The argument of the Council was that the member states were quite within their

outsiders and the Union is recognized as a full member of relatively few internaparticipate in international organizations, this has not always been accepted by tional organizations

culture Organization but not the United Nations Environment Programme (UNEP) These include the World Trade Organization (WTO) and the UN Food and Agri-

> of the violationmental politics has been the struggle for recognition lemational indement allowed environmentally mindral v of the UN General Assembly. Thus an important part of the history of the EU in in-

bul, more persuasively, a budgetary contribution. by followed by the Barcelona Convention of 1976 for the protection of the Mediterpullily and Convention for the protection of the Rhine against chemical pollution, to 1975 Bonn Convention for the protection of 1976 for the against chemical pollution, to the Environment DG was set up only in 1981) to assert the external competence of the Competer to the the member states. This first occurred a competence of the Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedicated Environment and Consumer Protection Service in DG III—a dedica be pure to the table not only its policy competences The ERTA judgment allowed environmentally minded Commission officials (in the ERTA judgment allowed Protection Service in DC 111

states (Van de Graaf 2013). able Energy Agency, was created with the EU as a full member alongside the member the only other formal attempt at global energy governance, the International Renewanalysis in which the EU participates, but not as a full member. Much later, in 2009, result of the oil crisis the International Energy Agency (IEA) was formed to agree on the stockpiling of reserves. It has subsequently provided a forum for research and tions were rarely subject to international cooperation, rather to the dictates of an often erratic market sometimes subject to political manipulation. In 1974 as a direct member state parties, but not to vote in addition to them. By contrast, energy quesparticipant and signatory according to its competences and to cast the votes of all the pollutants, climate, etc. contain an REIO clause. This allows the Union to be a full global environmental conventions on biodiversity, desertification, persistent organic states. The Union remains the only extant example of an REIO but most recent since served to allow the participation of the Community alongside the member Economic Integration Organization (REIO) was agreed for the EC, which has ever tance (COMECON) would achieve similar recognition, a special status of Regional when they spoke. Now, in the hope that the Council for Mutual Economic Assising eye contact with Commission officials at UN meetings and leaving the room and its allies had refused to recognize the Community, a practice that involved avoid and for the implementation of any agreement arrived at. Previously the Soviet Union of East-West relations, so it had competence for questions of atmospheric pollution Cooperation during the 1970s. Just as the EC had competence for the trade aspects sinki process that had helped to stimulate the development of European Political themselves, in part, a consequence of the changes in East-West politics and the Helunder the auspices of the United Nations Economic Commission for Europe were negotiations for a convention on Long-Range Transboundary Air Pollution (LRIAP) by word attempts to deal with transboundary air pollution and acid rain. The By the end of the decade the Community was engaged on a broader scale with

^{vention}, to combat depletion of the stratospheric ozone layer, was negotiated. The environmental policy. From 1985 to 1987 the Montreal Protocol to the Vienna Conunder the SEA of 1986, which also introduced QMV in the Council. These events nly competence was definitively established through the treaty amendments agreed coincided with a series of significant external opportunities for the development of Internal environmental legislation gathered pace during the 1980s, and Commu-

Community was heavily involved, although not always productively, because its position was too often dominated by the interests of European chemical industries that wished to continue production of ozone-depleting chemicals (chlorofluorocathous, CFCs). US negotiators complained that constitutional wrangling within the European delegation hampered the conduct of negotiations (Benedick 1991). Nonetheless, agreement was achieved on what has become probably the most successful and effective international environmental regime. This was also the last occasion, until the Obama presidency in 2009–16, that the USA, as opposed to Europe, could lay claim to global environmental leadership.

Sustainable development

significant idea for the EU and for the wider discussion of the linkages between eco all of which were scheduled to be signed at the 'Earth Summit', to be held in Rio in to the negotiation of global conventions on climate, biodiversity, and descriftcation, progress without a political and financial accommodation between the desire of the ent and changing interpretations, but its political essence is that there can be $_{10}$ nomic activity, development, and environmental degradation. There are many differ concept of sustainable development. Sustainable development has become a very port (World Commission on Environment and Development 1987) popularized the (UNCED). In 1987, in preparation for this landmark meeting, the Brundtland Re-The late 1980s was a period of intense international environmental activity leading environmental protection is evident from the European Council's own definition: extent to which sustainability can go beyond more conventional and limited ideas of the concept as one of its primary objectives, to be 'mainstreamed' in its policies. The the south for development and poverty reduction. Since Rio the Union has embraced north to avoid ecological degradation and collapse and the urgent demands of 1992, formally the United Nations Conference on Environment and Development

It is about safeguarding the Earth's capacity to support life in all its diversity and is based on the principles of democracy, gender equality, solidarity, the rule of law and respect for fundamental rights, including freedom and equal opportunities for all. It aims at the continuous improvement of the quality of life and well-being on Earth for present and future generations. To that end it promotes a dynamic economy with full employment and a high level of education, health protection, social and territorial cohesion and environmental protection in a peaceful and secure world.

(European Council 2006a)

One need not go quite this far to recognize that once environmental policy was reframed in terms of sustainability, the common commercial, agricultural, and fisheries policies of the Union and its extensive development activities could hardly be excluded. They often provided a source of embarrassment because of the ecological and developmental consequences of the Common Agricultural Policy (CAP) and the

which fisheries policy, for example, not only served to deplete European fish spocks, but did actual damage to sustainable livelihoods elsewhere. A major challenge remains in attempting to integrate external environmental policy with fisheries, trade, development, and transport policy in pursuit of the commitments to sustainability contained in the Treaty on European Union and expressed in the revisions to the Community Treaty from 1987 onwards. The problem is often described in terms of policy 'coherence', both horizontal (between the different activities of the lipion) and vertical (between the priorities of the member states and the Union). The Common Fisheries Policy (CFP) is now undergoing a process of transformation to a regime for the sustenance rather than exploitation of fish stocks. Trade policy has only been marginally affected by environmental concerns for WTO and bilateral negotiations continue to be dominated by a set of zero-sum commercial assumptions. While it is easy to be cynical about these matters, it remains the case that the EU is almost alone among WTO members in taking issues such as animal welfare, trade impact assessments, and eco-labelling seriously.

result the following footnote was added to Agenda 21: $^{\mathrm{lo}\,\mathrm{Improve}}$ this situation, sometimes in the teeth of member state opposition. As a or volting rights. Great effort was extended by the Commission in advance of UNCED was only admitted by the General Assembly in 1973 as an observer without speaking satus at the UN. The latter remained an organization of sovereign states and the EC competence, but the Commission was burdened with the problem of its lack of sill has currency. It was clear that much of its content was covered by Community follow-up' conference diplomacy. At Rio, much effort was devoted to drafting conference, and the EU has continued to be a leading player in subsequent UN sgnificant impact' on climate and energy coherence (Adelle, Pallemaerts, and example, been pressure for border tax adjustments to shield industries subject to the which we shall discuss, overlaps significantly with these other areas. There has, for Agmha 21, a massive compendium of good sustainable development practice, which Chavari 2009, 50). Sustainable development was the keynote theme of the 1992 Rio development, although it is difficult to judge their success and there has been 'no dsewhere to encourage 'horizontal' policy coherence in the pursuit of sustainable higher energy costs imposed by the EU's internal ETS from external competition. directions. Coherence between the Union's approaches towards energy and climate, where trade, development, and environment frequently appear to pull in opposing Substantial efforts were made in the Cardiff process (launched in 1998) and There is, here, a key sustainability issue in the 'coherence' of the Union's policies

When the term Governments is used, it will be deemed to include the European Economic Community acting within its areas of competence.

In contrast to practices established by the Conventions including those signed in Rio, where the Union has the status of an REIO, the UN General Assembly, and its conferences and commissions continue to deny full representation to the Union alongside the member states (Vogler and Stephan 2007).

EU landarship

paring the 1990s the EU was extensively involved in international environment, diplomacy, despite the negatiating difficulties typically encountered where competence is shared between the Commission of the member states and agreenests intered indeed, the European Commission has been a leading player in the Ead Convention on hazardous waste, the Rotterdam Convention on hazardous chemists and positions in international trade, the Stockholm Convention on persistent to game pollutants, and the Continuity is found in persistent ally modified organisms and biosafety the growth of internal policy has been participant in over 50 international example eachip ide and the Community is now an active participant in over 50 international environmental conventions (see Box 12.2).

environments.

He Union has consistently aspired to leadership in global environmental givensing to the Union has consistently aspired to leadership involve, and connection involves and connectional stephan 2007, Wurzel and Connective 2010, Leadership involves the conceptualized in terms of both and anomative components and methectual (Skodvin and Andrean three categories, power-based, directional, and intellectual (Skodvin and Andrean 2006), Power-based or structural leadership involves the use of both incentives and

BOX 12.2

Some major international environmental agreements to which the Union is a party

Barrollian Consention for the Protection of the Mediterranean 1976.

TAP CONVENIUM 1979 BIND IMPROVISE

Convention on the Conservation of Antaretic Marins Living Resources 1980

United Nations Convention on the Lew of the Sea 1982

Vienna Currentiun on the Protection of the Stratospheric Ozone Layer 1985 and Mantreat Protocol 1997

Convention for the Prevention of Marine Pollution from Land-Based Sources and Pars Protocol 1996 Basis Franciscus for the Control of the Therebounders Marine Parks

Basia Convention on the Control of the Transboundary Movement of Hazardous Wasias and their Disposal 1989

United Hations Framework Convention on Climate Change (UNFCCC) 1992 and Kygle

United Nations Convention on Desartitioation 1992

United Nations Convention on Biological Diversity 1992; Cartagena Protocol on Biosalety 2000 and Nagoya Protocol on Auceas and Benefit Sharing 2011

Retterten Convention on Prior Informed Consent Procedure for Hezerdous Chemides and Pestindes 1998

Alifhus Convention on Access to Environmental Information 1998

Stackhalm Convention on Pereistent Organio Pollutants 2001

Minimate Convention on Mercury 2013

positions. Traditionally the EES has been able to provide incentines because of the positiopises and other funding that it can employ, and there are somercous examples of EEA funded environmental initiatives, back by the EES to the somercous examples that the the EEA fundered and modeliaeral. As the same time, one of the major contributions made by the EES to the some discination, and the same time of the time some provides and contributed to accept and implement its unique to discinate provides, therefore, conditional leaders are supported to accept and implementation effect and creditable perfect to method include the way in which to done by determine the way that published the EES and determine the way that published the time that until include the independent acceptance of the public and 'politics' ideas such as the precautionary and 'politics and internal policies, was a key component of the Union's approach to the climate charge convention.

the leadership that the EU has been able to provide has occurred within a specific political context. The ending of the Cold War and the upsurge of global environmental concern in the late 1980s provided a political space within which the EU could begin to assert its leadership based upon its internal policy achievements. However, there is also little doubt that the international prominence of EU environmental policy was in many ways the reciprocal of US abdication. It should always be remembered that the USA virtually invented modern environmental policy and was up until the late 1980s a clear leader. There is probably no other area that can rival that of the late 1980s a clear leader. There is probably no other area that can rival that of change in terms of the profile attained by the EU at the expense of the USA (vogler and Bretherton 2006).

The climate and energy problem

The issue of climate change emerged on to the international agenda at the end of the 1980s. For the EU it represented both a profound challenge and an opportunity. The problems associated with the enhanced greenhouse effect were very different from those that could be more narrowly classified under the heading of environmental old Ministers were to take the lead. Mitigating emissions of GHGs and adapting to and varied challenges to policy and, unlike other environmental problems, such as stialospheric ozone depletion, potentially touch almost every aspect of the economy died challenges to policy and, unlike other environmental problems, such as stialospheric ozone depletion, potentially touch almost every aspect of the economy died in Climate crises and associated climatic impacts. The Intergovernmental Panel on Climate Change (IPCC) was created in 1988 to provide authoritative reways of the evidence, Over the period of the EU's involvement in climate politics, the probability of substantial rises in mean temperatures consequent on human the probability of substantial rises in mean temperatures consequent on human

cized as vague and inadequate (Victor and Fennel 2014). stressed that, it contains the stressed that the below the dangerous and amy other governments, its policy is based upon the stressed that, in contrast to many other governments, its policy is based upon the 1996 to holding the three 1996 to holding the 1996 to holding the three 1996 to holding the 1996 to holdin activities are consciously activities. activities are concerned. Taking this into account, the EU has been committed since activities are concerned increase in global temperature (since pre-industrial

to abide by the agreements that it has signed but more than that, to establish credibil ment, climate policy has been related to energy policy and the EU has sought not only politico-military dangers will, we can assume, be the ultimate end of Union policy fined as the avoidance of a range of physical threats, economic scarcities, and related ering the various concepts of security that underpin the EU's approach. Security, de one another, there are also contradictions. These can be usefully explored by considties because although climate and energy policy may be seen as complementary to ity through leadership by example. This effort has been beset by a number of difficul energy-related carbon dioxide emissions. Thus from the beginning of EU involve cluded from the current UNFCCC regime, this places a heavy emphasis on reducing reductions in carbon dioxide (Vogler 2016, 13-34). With shipping and aviation exterritorial approach to the changing climate, recognizing six GHGs but prioritizing Change of 1992 attempts to cope with these problems. It has a somewhat narrow sions. The UN climate regime that has developed from the Convention on Climate here for any restrictions on their growth that may be required to restrain GHG emis sions and to adapt to climate change. There is also a key element of compensation funds and technology to allow developing nations to participate in mitigating emisas well—the funding of scientific investigation and, most important, the transfer of the costs involved. There are other requirements for cooperative international action countries might benefit from pollution controls adopted by others without beating tional action is necessary if only to prevent 'freeriding', a situation where some regarded as a Shown comment of a public good. Accordingly, concerted interna-ble climate has the characteristic of a public good. Accordingly, concerted internaregarded as a global common and the preservation of atmospheric quality and a sta-Zed as vague and the international issue because the atmosphere may be Climate change has been an international issue because the atmosphere may be

Climate and energy security

of climate change has now become part of the approach adopted in the European ol, or the ability to resist, a threat of armed attack across borders. In the search for agenda by the UK in 2007 and again by Germany in 2011. It was also conceptualized Security and Defence Policy. Climate change was placed on the UN Security Council neti 2001). Such an awareness of what we may call the orthodox security implications was the way in which a changing climate could not only stimulate conflict over disecurity the struggle for scarce energy resources characterized a large number of In classical accounts of international relations, security typically implies the absence minishing resources but also lead to various other forms of instability and war (Bar 20th century conflicts. Less well understood in the academic and policy literature

> ncultural land, have direct security implications for Europe, description of Arctic ice. Over the longer term, the predictions of the effects of global melting of Arctic ice. Over the longer term, the predictions of the effects of global ing clinima. Africa, or even to create new ones such as those presaged by the description in Africa, Over the longer term, the predictions of the longer term, the predictions of the longer term. in Cross could serve to exacerbate existing conflicts with, for example, increasing ling climate could serve to exacerbate existing conflicts with, for example, increasing ing climate could serve to exacerbate new ones such as those lines are those lines in CFSP documents as a 'threat multiplier' (European Council 2008a). Thus a changin CFSP documents as a 'threat multiplier' (European Council 2008a). Thus a changing conflicts with for accounts as a change melius of global mean temperature increases including sea-level rise, forest die-back, and loss of agmean temperature direct security implications for Fireman

EUs energy requirements and ongoing conflicts within the EU's 'neighbourhood' highlight the way in which there is a volatile and difficult interaction between the Table 12.1). Just a mention of many of the countries listed in Table 12.1 serves to the Organization of the Petroleum Exporting Countries states in the Middle East (see member countries share an acute dependence on imported oil mainly sourced from ports of hydrocarbons. With the decline of the UK's North Sea oil reserves, all lem because it is heavily dependent upon Russia, Norway, and Algeria for vital iminsecurity is to diversify sources of supply. For the EU this has proved to be a probcould rise dramatically over the next 20–30 years. A standard response to energy canon imports to meet approximately 50 per cent of its needs, a proportion that Russia in the winters of 2006 and 2009. The Union currently depends upon hydroshocks of the 1970s and was re-emphasized by the interruption of gas supplies from ported energy has been recognized as a source of EU vulnerability since the oil-price ben faced with a security-of-supply problem over many years. Dependence on im-Russian case 'the reassertion of state control over "strategic resources" 'The EU has arguer and the availability of sufficient supplies at affordable prices' but oped world as 'simply the availability of sufficient supplies at affordable prices' but ngly—ingly—ingly the availability of sufficient curve in the develingly—although obviously related to the other notions of security—it tends to have culture:

Energy security is a treaty objective of the Union (Article 194(1), TFEU). Confus-

and transmission networks and their efficient interconnection. Steps towards this malong struggle with the member states over the 'unbundling' of energy production (European Commission 2009b). From the 1990s the Commission has been involved the kind of energy security challenges encountered in the Russian relationship energy market, both of which would be required to ensure an effective response to the member states over energy issues and the lack of a properly functioning internal that it highlights the continuing absence of coordination and transparency between relations with the Russian Federation. The Commission's response is revealing in and interdependence in the supply of gas was a continuing element in deteriorating The knock-on effect was that EU members reliant on the same pipelines also suffered Ukraine over the pricing of natural gas, which led the former to shut off supplies. 2014 this vulnerability was starkly underlined by disputes between Russia and the Ukraine that dates from the era of the Cold War. In 2006 and then again in 2009 and pendent upon a single Russian supplier as a consequence of infrastructure transiting power generation sectors, while still others such as Romania and Bulgaria are demost self-sufficient in gas and coal, others such as France have extensive nuclear Also, the levels of vulnerability of the member states differ sharply. Some are al-

Source: Eurostat 2015, Main origins of primary energy imports, EU 28, 2003–2013, EU 28, 2003–2013 and 15,PNG ec europa eu/Eurostat/statistics explained/index.php/File:Main_origins of primary energy imports_EU_28, 2003-13. Algeria Figures are percentages of total EU energy imports. Others Iraq Nigeria Libya Norway Russia TABLE 12.1 Sources of EU energy imports 2013 Saudi Arabia Azerbaijan Kazakhstan Crude oil 33.5 11.7 2.9 3.6 4.8 5.8 8.1 8.6 5,6 Peru Others Turkey Nigeria Libya Qatar Algeria Russia Norway Trinidad Natural gas 39.0 29.5 0.5 8.0 6.7 12.8 0.2 1.8 1.8

help to lessen energy dependence alongside the Union's policies on renewable reof new nuclear plant and the controversial adoption of 'fracking' technology could internal energy market' (Schubert, Pollak and Kreutler 2016, 166). The developmen the fully integrated electricity and gas markets that it deems vital to a functioning have been achieved in the 'third energy package' but in 2014 the EU 'still lacked

climate change. The EU must therefore develop effective energy relations with all its [E]nergy must become a central part of all external EU relations: it is crucial to geopolitic international partners. cal security, economic stability, social development and international efforts to combat

sources and energy saving, but a resort to external policy is still unavoidable:

(European Commission 2006a, 17)

loosely as a synonym for international politics, but in this case it is appropriate because energy supply has a more 'geopolitical' intent. The word is often employed rather liberalization of its own energy industry. The other European strategy for security of sions within the EU and to resist Brussels's calls, in the Energy Charter Treaty, for ply deals with the Russian government, which in its turn was happy to profit from divi Unfortunately, individual member states continued to negotiate their own energy supellectively extending its own market rules into a 'pan-European energy community The first involved an attempt to create a common regulatory space around the EU Within this remit there have essentially been two policy approaches to energy security

> that highlighted regions and empires' (Youngs 2009, 6). nentator, there is here a debate between two 'storylines', one stressing 'markets and consoluring to circumvent their rivals' supply networks. In the view of one comand compositions and Middle Eastern, Caspian, and Russian consortia of member states and corporations and Middle Eastern, Caspian, and Russian consortia to circumvent their rivals' supply networks 12.11. port for the port seck security this has spawned a number of complex port for the building of new pipelines. In reality this has spawned a number of complex port for the building of new pipelines. In reality this has spawned a number of complex port for the building of new pipelines. In reality this has spawned a number of complex port for the building of new pipelines. In reality this has spawned a number of complex port for the building of new pipelines. In reality this has spawned a number of complex port for the building of new pipelines. In reality this has spawned a number of complex port for the building of new pipelines. Irelets to through avoiding dependence on a single supplier or route through supthe critical geographical location of oil and gas pipelines. The objective is to it refers to through avoiding dependence on a single sunnline and the objective is to mentauv,—the Commission's preferred approach—and the geopolitical alternative institutions—the Commission's preferred approach—and the geopolitical alternative

the supply dependencies outlined in this chapter. Another example is provided by the energy security through access to Arctic hydrocarbon resources (European Commission hels. This does not appear to have prevented serious consideration of improving EL ix melt, and a diminished albedo effect, which in turn allows further extraction of fossi positive-feedback loop the burning of these fossil fuels contributes to further warming exploitation of Arctic resources, made accessible by the melting of the ice. In a malign end generation, for example, yields a reduction in GHG emissions, but runs up against contradictions between EU energy and climate policies. Substituting gas for coal-powthus adding to the greenhouse effect, are in the long run self-defeating and there remain security that merely ensure that large quantities of hydrocarbons continue to be burned ths of aligning energy, climate, and security policies (Vogler 2013). Strategies for energy dence that, in the Commission at least, there is a willingness to think through the benfor a new global industrial revolution' (European Commission 2007a, 20). There is evi contribute to achieving the economic objectives of the Lisbon Agenda—setting the pace both problems' (Piebalgs 2009). The pursuit of renewable energy sources and demand obligations, became a key driver of the EU's attempts at internal energy policy. 2012b). At the same time, climate policy, in response to international ambitions and reduction can serve not only to achieve energy and climate security objectives, but also growth are two sides of the same coin. The same remedies must be applied to development of renewable energy sources that do not emit GHGs: climate change and there are clear synergies and sought-after win-win solutions' potentially available in the development of stringent climate policies' (Oberthur and Pallemaerts 2010b, 15). Also, Juw, are sourity of future energy supplies to Europe have lent strong support to the 2000, appear to have begun to understand the interconnections: 'intensifying discus-BILLEY and climate security can complement each other. EU policymakers, since

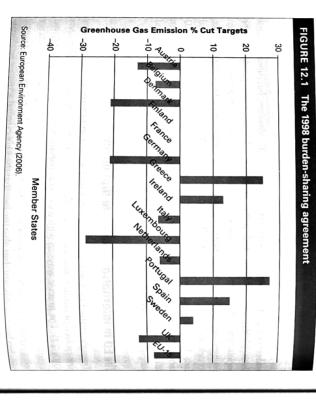
The EU in international climate diplomacy

^{cruss} has been significant, but also the fact that the EU's external activities on climate milatives have varied but at least until 2008 climate leadership framed EU energy Maye evolved in tandem and have fed back on each other' (Oberthur and Pallemaerts Throughout their two decades of history, international and European climate policy Policy. There were several reasons for this. Awareness of the gravity of the climate 2010a, 27). The precise ways in which external requirements have related to internal

adoption of the Treaty of Lisbon in late 2009. houit period of 2005, through its rejection in the referendums of 2005, until the final stitution in 2003, through its rejection in late 2009. change retain a consistency policy successfully 'piggybacked' on the more popular rometer 2009) and energy policy successfully 'piggybacked' on the more popular rometer 2009, 58). Climate leaders, and Chiavari 2009, 58). also provided with the constitutional change—from the convention that drew up the ficult period of constitutional change—from the referendums of 2005 climate pour y comments and indeed a palpable success for the Union during a difrometer 2009, and pallemaerts, and Chiavari 2009, 58). Climate leadership has climate policy (Adelle, Pallemaerts, and a palpable success for the Union during has change retain a consistently high level of popular support across the Union (Euroba

reports. The first conference of the UNFCCC Parties (Conference of the Parties, COp) target for developed world emissions reductions (to reduce emissions to 1990 levels by over the critical question of whether the new agreement should contain a binding approach has been to call for ambitious emissions reduction 'targets and timetables' bind Annex I (developed) countries to make real cuts in their emissions. (COP 1) in Berlin gave itself a mandate to negotiate, by 1997, a protocol that would imposed no obligations on its parties other than to provide national inventories and 2000). US rejection led to a watered-down aspiration (Article 4.2) in a convention that prior to the signature of the UNFCCC, it clashed with the first Bush Administration In the Union has played a central role in the development of the UNFCCC. Its long-term

external targets. In the event this was done with relative ease upon an interna 'burden-sharing agreement', popularly known as the EU 'bubble' (see Figure 12.1) (Skjaerseth 1994), it now had to consider internal policies to support ambitious While the EU had already failed to back up its proposed targets with a carbon tay



is transition from coal-based power generation to gas (Ringius 1999). increases in their permitted emissions while at the same time delivering an overall increases in their permitted emissions while at the same time delivering an overall increase in their permitted emissions while at the same time delivering an overall increase. able between allowing painless but large reductions by Germany through the closure of line, allowing painless in the old German Democratic Remidles. Ell reuse of the highly fortuitous circumstances attending the use of a 1990 baseincrease.

FU reduction (first of 10 per cent and subsequently 8 per cent). It was only achieved fithe highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the highly fortuitous circumstances around in a chieve of the chieve of the highly fortuitous circumstances around in a chieve of the chieve This arrangement allowed some less developed member states to enjoy very large

vionmental targets were set for member states and they were required to comply. rgulatory tradition—usually described as one of command and control where en-Kyoto such mechanisms were opposed by the EU as being antithetical to its own using market forces to bring about the desired cuts in carbon emissions. Prior to numental policy and had been much discussed as an economically efficient way of and the Clean Development Mechanism (CDM). This was already part of US enviemissions through carbon trading and international offsets—joint implementation upon flexibility mechanisms. These sought to provide a less painful way of reducing commitments which aggregated to a 5.2 per cent reduction and the USA insisted In the Kyoto Protocol negotiations, other developed countries agreed a range of

then proceeded to pursue a campaign of outright opposition to the Protocol greement between the EU and the USA (Grubb and Yamin 2001). In March 2001 the cus in their own emissions. The 2000 COP at the Hague revealed the depths of disaallowed the developing-world economic competitors of the USA to avoid making clear in its 1997 Byrd-Hagel Resolution that it would not ratify an agreement that it was clear that there would be a problem with US ratification. Not only was the incoming Administration of George W. Bush formally denounced US signature and arget of 7 per cent difficult and costly to achieve, but the senate had already made it dimate regime was to survive. Even before the ink was dry on the Kyoto signatures was in these years that the EU was called upon to display leadership if the nascent The ratification process for the 1997 Kyoto Protocol was to extend until 2005. It

EU support for Russian entry into the WTO (Bretherton and Vogler 2006, 109) ler US opposition and to gather sufficient ratifications. This required a concerted penefits. Russian ratification was achieved in 2004, in part on the basis of promising the validity of climate science, and a warming climate might be regarded as bringing and compliance with the rules of the CDM. Furthermore, there was the need to councomplexity and novelty of some of its provisions relating to, for example, monitoring callon and implementation. This was no mean achievement because of the sheer Berlin and Marrakesh, to turn the Kyoto Protocol into an agreement capable of ratifinule applied to ratification? In the event the Union was able, in successive COPs, in what was then the world's largest emitter of carbon dioxide and when the 55 per cent gime, much of which only existed in draft form, work without the participation of cision to proceed without the USA. The challenge was very substantial. Could a re-Russian government; some Russian ministers had expressed open scepticism about ^{diplomatic} effort by the Union to ensure that Japan ratified but also to persuade the At the June 2001 Gothenburg European Council, the EU took the momentous de-

The year 2005 was an important one for the Union, marking both the ratification of the Protocol and the initiation of the Union's key mechanism for achieving around half of its 8 per cent reduction target—the ETS. During the Kyoto ratification process the previous discontinuity between internal energy policy and climate leadership began to erode, with the realization that strong internal measures would be required if the Union was to remain a credible leader (Oberthur and Pallemaerts 2010a). ETS represented a major reversal in the EU's approach, from opponent to principal advocate of an international market-based approach to emissions reduction and one driven by external commitments (Cass 2005; Wettestad 2005). That ETS should be seen to function became essential to the EU's exemplary strategy and, in the absence of a new climate agreement, there were even hopes that a substitute could be found by extending the ETS market to individual US states and elsewhere. Unfortunately it continued to be beset by problems reflected in the collapse of the carbon price and underwent successive attempts at reform.

By 2005 it was clear that, even if the Kyoto targets were to be achieved, which was By 2005 it was clear that, even if the Kyoto targets were to be achieved, which was far from certain, they fell far short of what would be required to give a reasonable chance of climate stability. Above all, the large developing countries would have to participate in restricting their projected emissions. The differences in relation to energy use and levels of development within the EU are mirrored to a much greater extent across the rest of the world economy (see Table 12.2). Developing countries can claim that their per capita GHG emissions are a fraction of those existing among

TABLE 12.2 Comparative carbon dioxide emissions 2014

Car	Calbon dioxido	•	midne or prince
China	10.5	29.5	07.6
USA	05.3	14.9	16.5
EU	03,4	09.6	06.7
India	02.3	06.5	01.8
Russia	01.7	04.8	12.4
Japan	01.3	03.6	10.1
Brazil	05.0	01.4	02.5
Australia	04.1	01.1	17.3
South Africa	04.0	01.1	02.5

m.t. = metric ton

Source: European Commission Joint Research Centre (2016) EDGAR Emissions Database for Global Atmospheric Research, "CO2 Time Series 1990-2014 per region/country" and "per capita for world countries" http://edgar.jrc.ec.europa.eu/overview.php?v=CO2ts1990-2014.

the gap had widened (see Table 12.2). surpassed by China in terms of current (but not cumulative) emissions, and by 2014 EU had been second only to the USA in its carbon emissions, by 2007 both had been contributions from the fast-developing economies of the south. Whereas in 1992 the ended, would require not only more cuts in developed-country emissions but major were me increase. Effective action after 2012, when the first commitment period of Kyoto were weefully inadequate when seen against the requirement to avoid a 2°C temperagnows. The strength of the str that were reflected in the terms of the Kyoto Protocol. However, it rapidly became apthat developing countries as well as the EU take the lead in making emissions cuts ment or would not have been negotiable without agreement on the principle of convention would not have been negotiable without agreement on the principle of question the advanced economies. Under these circumstances the UN framework more, of the historical burden imposed upon the earth by the industrial developthe Organic Countries. Furthermore, GHGs have an atmospheric lifetime of up to 100 years, so there is also the the Organisation for Economic Co-operation and Development countries. Further-the Crifes have an atmospheric lifetime of up to 100 years. common but differentiated responsibilities and respective capabilities. This required

In 2007 the European Council committed to a 20 per cent emissions reduction by p202 and a 30 per cent reduction if other developed-country parties were prepared to match them, plus an internal target of a 20 per cent share for renewables. At the end of the year the Union was prominent in the negotiation of the Bali Plan of Action envisaging broad-ranging discussions to produce a new climate agreement on mitigation, adaptation, finance, and technology by COP 15, scheduled to be held in Copenhagen at the end of 2009. Most significantly, by splitting negotiations into two macks, one on the future of Kyoto and the other on the Convention itself, US participation was ensured.

French Presidency (see Box 12.3).6 mains to achieve the targets set in March 2007. The 'climate and energy package' egy prices and by member states aggrieved at their treatment under the new arindustrial interests, who saw their competitiveness eroded by potential rises in en-(Box 12.3) wound its way through co-decision prolonged by extensive lobbying by more pressing. This began to be reflected in the legislative process to agree the interdramatically... concerns of energy security and competitiveness have become much EA (2014, 3) commented that 'in 2008 sustainability—notably mitigating climate nied by worries about energy security highlighted by the gas crises in the east. The the one hand the economic slowdown meant that emissions targets were easier to Ploted, with some difficulty, through the December 2008 European Council by the langements to reform the next phase of the ETS. The final amended package was change—was the key driver for EU energy policies' but 'the context of policy changed achieve, on the other it raised acute issues of competitiveness which were accompacosts (Vogler 2009). It also coincided with the global economic crisis of 2007–8. On Kyoto, it involved the development of new common energy policies with potential was regarded as critical to its continued climate leadership. Unlike the approach to Providing the internal means to implement the EU's stated targets and timetables

The EU climate and energy package

2009. The key elements were as follows: provides the fine in the final provides the final p Provides the means to achieve the EU's 20-20-20 climate and energy targets and was

- A revised ETS to commence from 2013. National allocation plans will be replaced 2009/29/EC amending Directive 2003/87/EC). of joint implementation and CDM credits will continue to be allowed (Directive might otherwise take advantage of relatively high EU energy prices. A limited use generators and to counter the risks of 'carbon leakage' where foreign competitors derogations from this rule were negotiated to assist some coal-dependent power of allowances will be introduced to replace the system of free allocation, although by a single EU-wide emissions cap. This will be progressively reduced in order to yield a 21 per cent reduction in emissions by 2020 relative to 2005. The auctioning
- An 'effort-sharing' decision to cover emissions from transport, agriculture, housper cent, while Bulgaria is allowed a 20 per cent increase (Decision 406/2009/EC) Denmark is committed, for example, to a 20 per cent reduction and the UK to 16 tion from 2005 levels but within this new EU 'bubble' there are wide variations, ous burden-sharing agreement. The overall 2020 target is for a 10 per cent reducvary according to their level of development in much the same way as the previfrom 2012, aviation). Member states have agreed to binding national targets that ing, and waste not controlled under the ETS (which covers power generation and
- while that for Malta is only 10 per cent (Directive 2009/28/EC) tial differences reflecting national circumstances: the Finnish target is 38 per cent sources to achieve an EU average of 20 per cent by 2020. Again there are substan-There are similar binding national targets for the introduction of renewable energy
- the subject of EU collaboration with China (Directive 2009/31/EC). storage underground. This technology is as yet unproven on a large scale and is can be prevented from adding to the greenhouse effect through capture and ther package—whereby it is hoped that the carbon dioxide released by burning coal The promotion of carbon capture and storage technology is the final part of the

EU's previous commitment to the continuation of the Kyoto Protocol. The objective provided to least developed countries before 2013. with its 20-20-20 target, plus a substantial €7.2 billion 'start-up funding' package to be (European Commission 2009a). The EU set out to reassert its exemplary leadership was a comprehensive, ambitious, fair, science-based and legally binding global treaty President Obama enabled a convergence of positions with the USA at the expense of the There were high expectations for the 2009 COP at Copenhagen. The election of

awaited Copenhagen meeting was a disappointment. Without a final agreed text atter 2 years of preparatory negotiation the USA and the newly formed BASIC It would be an understatement to say that for the EU the outcome of the long

> press commentary. put incompanie architecture' (Egenhofer and Georgiev 2009, 1). That the EU was 'the biggest put the best gloss on proceedings—'a step, albeit a small one, towards a global climate archive of the Copenhagen failure' (Laidi 2010) was an opinion widely shared in providency characterized the conference as 'a disaster' while Chancellor Merkel degree user rarties, the Accord provided some foundations for the 2015 Paris Agreement. But at the time the Swed-EU-live threshold and inviting voluntary emissions pledges from Parties, the Accord degree threshold and inviting voluntary emissions pledges from Parties, the Accord (Brazil, John Dinding Copenhagen Accord. In retrospect by acknowledging the EU—the non-binding Copenhagen Accord. In retrospect by acknowledging the 2 (Brazil, South Africa, India, and China) group cut a last minute deal without the

ween different targets and policy measures energy policy decisions, which could not address the interplay and trade-offs bemegration of climate and energy policies at EU level and between EU and national gs prices and relatively cheap supplies of coal on world markets had the counterproto opposition by Germany, France, and the UK, the European Parliament was perlonger term objectives. As the IEA (2014, 5) commented '...there has been a lack of second Kyoto commitment period but there were doubts about the achievement of progress had been made towards the 2020 targets to allow the EU to enter into a ductive effect of putting old coal-burning power stations back on stream. Sufficient arrangements for taxing aviation emissions (Keating 2014). In the same period, high sion of the International Civil Aviation Organization to institute alternative suaded to postpone the external operation of the scheme until 2017, pending a deci-However, under strong international pressure and threats of trade sanctions leading airspace were to have been required to buy ETS credits to cover their emissions. national aviation emissions within the ETS also stalled. From 2012 airlines using EU the introduction of renewables and energy saving. An attempt to incorporate international subsidies, rather than the stimulus of a high carbon price, that supported attempts at reform through the 'backloading' of allowances. This meant that it was of just 6 euro per tonne, and there were continuing internal political difficulties with by 19.2 per cent and the share of renewables in final energy consumption had inances and low fuel prices, had failed to perform as intended with a 2014 carbon price grased to 14.1 per cent (ibid.). On the other hand the ETS, beset by surplus allowing to the IEA there has already been 'strong progress' in this direction (IEA 2014, 4). emization through developing cost efficient pathways in key economic sectors. The Parlly as a result of the economic downturn, GHG emissions had by 2012 decreased 2040, and no less than 80 per cent by 2050 (European Commission 2011a). Accordlarget was for an overall emissions reduction of 40 per cent by 2030, 60 per cent by that made the case for the economic and energy security benefits of ecological mod-The Commission developed a 'road map' to a competitive, low carbon economy

involved both the USA, BASICs, and other developing countries. It essentially the 'Durban Platform'. This set of guidelines for a new comprehensive agreement 2011 Durban COP where the Union could take credit for brokering agreement on cided with a highly significant reassertion of EU leadership demonstrated at the The uncertain development of the EU's long-term de-carbonization strategy coin-

agreement for 2020 and agreement for a pre-imposed global plan. In formulating this and would not operate according to a pre-imposed global plan. In formulating this removed the incremental the meaning of common but different the continuing relevance of the Annexes and the meaning of common but different the continuing relevance the capabilities' remained. On the other hand of the climate and energy package, where the headline goal of a 20 per cent reduction tocol was formalized in the Doha Amendment of 2012 and its quantified emissions participation. (Unlike some other participants in the first commitment period the alone in supporting it in 2011, as Canada, Japan, and Russia refused to renew their enly appeared to drop its support for Kyoto mark II prior to Copenhagen, was almost to accept participation in a comprehensive agreement. The EU, which had mislak to accept participation in a comprehensive agreement. which manuaco companies are requirement of the G77 countries if they were transfers under the CDM, was a key requirement of the G77 countries if they were which mandates GHG reductions by developed countries and allows beneficial North-south agreement with Morth-south agreement of the Kyoto Protocol appears to have been crucial. Renewing Kyoto mitment period of the Kyoto Protocol appears to have been crucial. Renewing Kyoto mitment period of the Kyoto Protocol appears to have been crucial. Renewing Kyoto mitment period of the Kyoto Protocol appears to have been crucial. Renewing Kyoto and wound not returned agreement the willingness of the Union to participate in a second conresponsibilities are according to a pre-imposed global plan. In formal agreement for 2020–30 would comprise contributions' rather than commitments' agreement for 2020–30 would comprise contributions' rather than formal are according to a pre-imposed global plan. In formal removed the 'firewall' between Annex I and the rest, although arguments about the had already almost been achieved. The EU commitment was important because reduction commitments for the EU, over the period 2013–20 were met by the targets EU had also achieved its 8 per cent reduction target.) The renewal of the Kyoto Ptoresponsibilities and respective capabilities' remained. On the other hand a new force of a new climate agreement in 2020.7 there was a need to continue to reduce emissions in the period prior to the entry into

The EU position in advance of the Paris COP, where an agreement for 2020 was 0 be concluded, stressed the need for a new Protocol under the Convention, which was 'ambitious, legally binding, multilateral, rules-based with global participation and informed by science' (European Union 2013). Of all the major Parties, the EIJ was most insistent on establishing timely and verifiable national emissions pledges sufficient to provide certainty and mutual confidence in the achievement of an ambitious agreement. After the usual internal negotiations and concessions to national energy interests, the October 2014 European Council was able to announce its Conclusions on a 2030 Climate and Energy Policy Framework (European Council 2014; Keating 2014). Included was a binding 2030 overall target of a 40 per cent reduction in GHG emissions, against a 1990 baseline, as the Union's 'intended contribution'. Less impressive were 'non-binding' targets of 27 per cent increases in energy efficiency and the share of renewables over the same period. This was a Union-wide target, member states refused to surrender control over their national energy mix.

The 2015 Paris COP 21 did not repeat the mistakes of Copenhagen, indeed the outcome was rather more successful than many had anticipated. A notable achievement was text that included reference to the aspiration to constrain global mean temperature increase to 1.5°C, something long demanded by small island developing states. The agreement also included a new 'transparency' framework for the review of nationally determined contributions by all parties alongside some subtle variations in what was expected of developed as opposed to less developed countries. 2023 was agreed as the date for the first of regular five yearly 'global stocktakes' on the adequacy of national efforts. This constituted a vital part of what was ⁴

procedurally, rather than substantively, binding agreement where the Secretariat had indicated that the 'nationally determined contributions' announced by the parties would result in a 2.7°C mean temperature increase.

The EU as climate negotiator

coming EU Climate Commissioner for Climate Action, Connie Hedegaard remarked: strain on the Union's coordinating capabilities. As the Danish chair of the COP and inappear remarkable, but the Copenhagen conference appears to have placed too much ion of the terms of the Kyoto Protocol, and make a credible claim to climate leadership stances the previous ability of the EU to function as an entity, to supervise the negotia-President in Office Reinfeldt, and the UK, French, and German leaders. In these circumwith the EU it presented itself in the form of Commission President Barroso, Swedish ion and they pursued their own lines of negotiation. When President Obama conferred appearance of heads of government Brown, Merkel, and Sarkozy tended to divert attenmanifold difficulties faced by the Union.8 The Presidency was held by Sweden, but the the EU's operating procedures. The 2009 Copenhagen COP provides evidence of the process through an informal deal. Ministers and heads of government can interfere with problematic if there are unresolved issues and attempts are made to short circuit the UN oussanding issues arising from an agreed text. High-level involvement can become tial level but end with a high-level segment in which final political deals are done over mate Conferences of the Parties involve long and complex negotiating sessions at offiappear cumbersome and there has sometimes been a lack of agility and flexibility. Clican take up excessive amounts of time, and irritate interlocutors of the EU. The EU can with other external policy areas, coordination within the negotiation is required that on issues on which they have specialized, and the working practice of the Council has ben to involve Presidencies over an 18-month cycle (Oberthur and Roche 2008). As Egenhofer 2005). In order to cope, particular member states have been allowed to lead nuity across a complex range of issues in successive negotiation rounds (van Schaik and Commission and 27 member states. There have been real problems in ensuring contisentation falls to the rotating Presidency. The EU will negotiate 'at 28' involving the shared competence, which involves taxation and energy policy, leadership and represented to the properties of the proper In some ways the EU's leadership in the climate regime was surprising. In this area of

There are very important lessons from Copenhagen. In the last hours, China, India, Russia, Japan each spoke with one voice, while Europe spoke with many different voices ... A lot of Europeans in the room is not a problem, but there is only an advantage if we [all] sing from [the] same hymn sheet. We need to think about this and reflect on this very seriously, or we will lose our leadership role in the world.

hillips 2010

Difficulties of internal coordination were far from being the only reason for the EUs disappointing performance in Copenhagen. Much more significant than any organizational or tactical shortcomings were profound changes in the structure of

the international system that had begun to work themselves out in the political dynamics of the climate change regime. The EU's initial rise to prominence in global environmental politics depended to a great degree on the favourable international conditions that flowed from the ending of the Cold War. EU leadership was sustained by the willingness of the countries of Eastern Europe to associate themselves with its policies and by the special position that it held as the largest donor of development aid (when both EU and national programmes are counted) with a set of long-standing relationships with the African, Caribbean, and Pacific Group of States (ACP) countries. Furthermore, its role in climate politics was firmly anchored to its position in the international economic structure—the Union being second only to the USA in the league of carbon emitters. The abdication of the USA from its previous role of environmental leadership left the field open for the EU to assert itself and to emphasize its identity as climate leader. As we have seen, this opportunity was seized in the EU's successful campaign to turn the Kyoto Protocol into a functioning international regime.

ated as a bloc (and the EU often attempted to mediate between them and the Annex more, although the G77 and China as non-Annex I countries had previously negoti abandoned the 'firewall' between Annex I developed countries and the rest. Further any future climate arrangements would require a comprehensive agreement that under the Obama Administration. The logic of the situation appeared to suggest that never accept it. The other critical development was the re-engagement of the USA cussions this was no longer a tenable assumption and the USA would, in any case, to make any emissions reductions under the Kyoto Protocol. In the post-2012 disthe 'common but differentiated responsibilities' formula, which did not require them both China and India had been relatively quiescent in climate politics, protected by emissions, China having overtaken both Europe and the USA. Up until this point politics even an enlarged EU found itself in third place in terms of current carbon was no longer evident, reflected in the emergence of the G20. In terms of climate WTO the kind of duopoly that had previously existed between the USA and the EU China, to which South Africa should also probably be added (see Chapter 17). At the sociated with the rise of the so-called BRIC countries, Brazil, Russia, India, and underlying international structure was shifting. In general terms this has been as nomic powers of the south. tries, likely to be the first victims of climate change, and fast-developing new eco I countries), there was now a clearer distinction between the least developed coun However, even at the point of Kyoto ratification it was becoming evident that the

After Copenhagen came a revival of EU climate diplomacy, centred upon the Cartagena Dialogue (van Schaik 2012) which brought together 'progressive' Parties from all the main negotiating groups and provided the basis for the 2011 Durban Platform. This agreement, brokered with some skill by EU delegates, provided the framework within which the 2015 Paris Agreement was formulated. Commentators have detected that the EU's role was increasingly that of a mediator (Bāckstrand and Elgström 2013). Sensitivity towards the development needs of the South and a

willingness to build bridges between them and the harder-line developed countries of the 'Umbrella Group' had long been part of the EU's negotiating repertoire. In the context of a new agreement this was not only significant on account of the need to negotiate with the BASIC countries but also because of an awareness that the impacts of climate change in a vulnerable South required that adaptation be treated as pacts of an awareness that the impacts of climate change in a vulnerable South required that adaptation be treated as senously as mitigation.

The French government made a major diplomatic effort to ensure that Paris would The French government made a major diplomatic effort to ensure that Paris would succeed where Copenhagen had failed and for its part the EU began the conference by announcing a joint strategy with the 79 ACP countries. EU representatives were soon involved with a 'coalition of high ambition' including the USA and which successfully promoted the inclusion of reference to the 1.5'C target. Paris represented a major departure from the EU's previous commitment to Kyoto-like targets and time-lables and its 'nationally determined contributions' probably represent the only feasible way of constructing a truly comprehensive agreement. Whether it represents sulfile more than a symbolic success will depend upon the procedures for the encouragement of greater efforts towards de-carbonization and adaptation in which the EU's influence will still be of critical importance.

Conclusion

Environment and climate change have been areas in which the Union has managed to carve out for itself a position of international leadership. The foundation of this achievement was the development of the EU's internal environmental acquis, which allowed the attainment of external competences. Over the years the Union has been more successful than might have been predicted in the light of the problems of coordination, competence, and coherence that continue to afflict its external activities even after the entry into force of the Lisbon Treaty.

Climate change poses a very different challenge because of the high economic stakes involved if effective action is to be taken and because of the ways in which it impacts upon the security of the Union. Most particularly it conjoins environmental and energy policy. In the initial stages of involvement in the climate regime the EU was able to claim leadership without the assistance of an internal carbon tax and to agree the Kyoto Protocol under the rather favourable circumstances of the burden-sharing agreement. Kyoto implementation and the search lor a post-2012 successor, however, required the serious development of internal energy policy in the ETS and subsequently the 2008 climate and energy package. The latter was only achieved with some difficulty and compromise because of the differing interests of member states. There are evident opportunities and contrabanterists in EU climate and energy policies and a need to fully involve the European External Action Service in their pursuit. This has received belated recognition in the adoption by the Foreign Affairs Council of a 'Climate Diplomacy Action

plan' (European Competitiveness, Sustainabilinegrate the elements of energy security, economic competitiveness, Sustainabilinegrate the elements of energy security. (European Commission 2015a).9 integrate the element discussed in this chapter within a new Energy Union ity, and climate change discussed in this chapter within a new Energy Union Plan' (European Council 2015). The wider context is provided by an attempt to plan' (European Council 2015).

second theme: that the EU has become an indispensable part of the broader protioning is aurily in all ferent ways the effects of the internal balance of th around which was a subsystem of international relations have played a key tole in condevolved as a (sub)system of a hroader stage. The development of a condevolved as a subsystem of a hroader stage. The evidence in the centres. First, it is clear that the ways in which the EU has around which this volume centres. First, it is clear that the ways in which the EU has around which this volume centres. First, it is clear that the ways in which the EU has around which this volume centres. vanced than in climate change and environmental politics more generally. least because the development of institutionalized processes in that area is less adas well as be shaped by these processes. The picture is less clear in energy, partly at cesses of regime building and negotiation in climate change and has helped to shape and energy records the EU system is penetrated by broader forces. This leads to out the ways in which the EU system is penetrated by broader forces. This leads to out the ways in which the EU system is penetrated by broader forces. This leads to out the ways in which the EU system is penetrated by broader forces. This leads to out and collections with broader processes of international relations shows and energy policymaking with broader processes of international relations shows security poils your man policy. Not only this, but the interaction of environmental and forces on EU external policy. Not only this, but the interaction of environmental and forces on EU external policy. evolved as a source on a broader stage. The development of an internal tentioning its ability to operate on a broader stage. The development of an internal tentioning its ability to operate on a broader stage. The development of an internal tentioning its ability to operate on a broader stage. European Community chapter provides strong support for the three key theme.

The evidence in this chapter provides strong support for the three key theme.

agreement in Paris in 2015. was again able to play a central role in setting the course towards a new climate mestic and international circumstances. Confounding many expectations, the Union far the EU's previous climate leadership rested upon some peculiarly favourable $d_{\boldsymbol{\theta}}$ economies deepened, the experience of Copenhagen in 2009 appeared to reveal how ments in pursuit of climate policy objectives. As the economic crisis of the European process demonstrated an ability to deploy diplomatic assets and to use trade instru no mean achievement when operating under shared competence. The ratification for turning the Kyoto Protocol into a functioning international agreement. This was of executing an exemplary strategy of 'targets and timetables' and took responsibility that compares very favourably with other areas of external action. 10 It proved capable Climate diplomacy has also clearly provided an arena in which the EU is a power

such areas as the continuation of existing environmental directives and emissions tems and real connections will persist. Here, as elsewhere, much will depend upor Britain cannot simply be 'unplugged' from European energy and environmental sys and technical resources to the Union's collective endeavour. On the other hand alongside Germany, has been a lead state bringing substantial diplomatic, scientific politics. This may become particularly evident in climate negotiations where the UK in consort with the Union independent action and the enhanced power and effectiveness that come from working trading. The UK government will have to strike a balance between the attractions of the forms of coordination that will be worked out between the Union and the UK in the weight and significance of the EU in international environmental and energy The 2016 decision of the UK electorate to leave the Union will certainly diminish

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Notes

1 This is also the case for energy policy (Article 4(i))

The arguments hinge upon the interpretation of articles in the Lisbon Treaty. Article 2 The arguments hinge upon the Union and hence the Commission the right to conduct 216(1). The where the conclusion of an agreement is parameters where the conclusion of an agreement is parameters. ing meeting (Rankin 2010). Ziotiv.

A proposed UNFP arrespond to in the Treaty. A proposed UNFP arresponding to achieve the objections of the control of tyes recommended in the first that the EU failed to state its position at the open-case and internal disagreement meant that the EU failed to state its position at the opennegotium to in the Treaty. A proposed UNEP agreement on mercury provided a test

This usually proved to be possible but in some instances the existing parties to an agreement failed to alter their rules to admit the Community as well as the member states. A good example is provided by the 1973 Convention on International Trade in Endangered Parties approved the Gaborone Amendment, which admits the Union as an REIO Species of Wild Fauna and Flora where Union competence is clear. After 40 years

4 The reference here is to the notorious 'southern agreements' of the CFP where West both continue to damage the EU's reputation. and CFP have been subject to extensive reform to render them more sustainable but ment of the sustainable development of their own coastal populations. Both the CAP African governments were persuaded to sell fishing rights to EU trawlers to the detri

5 The gases are carbon dioxide, nitrous oxide, and methane, along with three additional if it allows avoidance of actual emissions cuts Protocol. The Convention also covers reduction by 'sinks', but their inclusion is controversial industrial gases. The CFCs are also GHGs but are separately controlled under the Montreal

6 The climate and energy package was subject to co-decision procedures and the final details granted to Poland and other East European countries. were negotiated at the level of the European Council with significant concessions being

7 If all the pledges made by Parties under the Copenhagen Accord—including those of the are fulfilled and that rule changes are strictly adhered to. 8 GtCO2e (carbon dioxide equivalent). Achieving this would require that conditional pledges the required trajectory for climate safety (as calculated by UNEP 2013) by more than half, to effect by 2020 would be to reduce the 'emissions gap' between the present position and Kyoto second commitment period—are taken together and fully implemented, then the

8 The chair of the conference was the host state Denmark, which controversially floated its removed in the final hours by a coalition of countries, including an EU member state. and replaced its environment minister in the chair by its prime minister, who was himself own informal text (widely regarded as embodying the Union's real negotiating position)

9 This was also reflected in the reorganization of the Juncker Commission in 2014. In 2010 under Connie Hedegaard. In 2014 this was merged into a DG Climate Action and Energy Climate responsibility had passed from DG for Environment to a new DG for Climate Action president Maroš Sefčovič led by Commissioner Miguel Canete, itself part of an Energy Union project team under Vice

10 This was the conclusion of the European Council for Foreign Relations (2012, 122) that publishes an annual scorecard rating the success or failure of EU external action. The EU achieved a B+ for the Cancun COP in 2010 and a rare A- for the 2011 Durban COP.

1 **FURTHER READING**

lics. Falkner (2007) considers biotechnology negotiations and Hadfield (2008a) and Youngs toot and Burchill (2004), and Vogler (2005) cover the EU in international environmental poli-(2010a) along with Wurzel and Connolly (2010) are good examples. Damro (2006), Lightcollections on climate leadership are beginning to appear—Oberthur and Pallemaerts study of EU energy policy including a chapter on its external dimensions. A number of tor, while Schubert, Pollak, and Kreutler (2016) provide an up-to-date and detailed general Delreux (2011) is a book length study of the EU as an international environmental negotia-

with useful general and historical surveys. dimensions of litter investigations and Vogler (2006) consider this from an actor perspective. Voldan (2007), while Bretherton and Vogler (2006) consider this from an actor perspective. Voldan (2007), while Brethert some of the latest research on EU climate policymatic. (2007), while Bretherton and of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking along et al. (2010) brings together some of the latest research on EU climate policymaking et al. (2010) brings together some of the latest research on EU climate policymaking et al. (2010) brings together some of the latest research on EU climate policymaking et al. (2010) brings together some of the latest research on EU climate policymaking et al. (2010) brings together some of the latest research on EU climate policymaking et al. (2010) brings et (2009) the EU's difficulty with a line international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of international leadership is a key theme examined by Schreurs and Tiberghien dimensions of the school of the (2009) the EU's difficult energy relationship with Russia and other suppliers. The intensicational leadership is a key theme examined by Schreuts and The intensication.

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WEB LINKS

Energy, as well as the Council and Parliament. There are also useful web pages on specific You can navigate to the relevant parts of the Commission, DGs Environment, CLIMA and The Europa website, https://europa.eu, provides the essential point of entry from where

> www.unep.org two key international organizations, the IEA at http://www.iea.org and UNEP at http:// opment site http://www.iisd.org. For energy and environmental questions there are also Negotiations Bulletin, which can be found at the International Institute for Sustainable Developer while this and all other major environmental negotiations are reported in detail by the Earth Agency on climate change can be found at the official UNFCCC site, http://unfccc.int topics such as climate change or the marine environment. The European Environment Agency is a mine of information at http://www.eea.europa.eu. EU activities and communications are change can be found at the activities and communications.