CHAPTER 13

INSTITUTIONAL PRESSURES AND ORGANIZATIONAL CHARACTERISTICS: IMPLICATIONS FOR ENVIRONMENTAL STRATEGY

MAGALI A. DELMAS
AND MICHAEL W. TOFFEL

Why do some firms adopt environmental management strategies that go beyond regulatory compliance while others do not? A broad literature has emerged over the past decades demonstrating that firms' environmental strategies and practices are influenced by external stakeholders and institutional pressures, including from regulators and competitors (Aragón-Correa 1998; Christmann 2000; Dean & Brown 1995; Delmas 2003; Hart 1995; Nehrt 1996; Nehrt 1998; Russo & Fouts 1997; Sharma & Vredenburg 1998) and non-governmental organizations (NGOs) (Lawrence & Morell 1995).

Such findings are consistent with institutional sociology, which emphasizes the importance of regulatory, normative, and cognitive factors in shaping firms' decisions to adopt specific organizational practices, above and beyond their technical efficiency (DiMaggio & Powell 1983; Lounsbury, Fairclough, & Lee [Chapter 12] this volume). Several authors have built on institutional theory to explain firms' environmental strategies. Jennings & Zandbergen (1995) argue that because coercive forces

1 The authors gratefully acknowledge the excellent research assistance provided by Jenna Bernhardson, and financial support from the Division of Research and Faculty Development at the Harvard Business School.
—primarily in the form of regulations and regulatory enforcement—have been the main impetus of environmental management practices, firms within each industry have implemented similar practices. Delmas (2002) proposed an institutional perspective to analyze the factors that led companies in Europe and in the United States to adopt the ISO 14001 Environmental Management System (EMS) international standard. She described how the regulatory, normative, and cognitive aspects of the institutional environment within a specific country affect the costs and potential benefits of ISO 14001 adoption, and how this would lead to different adoption rates across countries. Other researchers have explored how companies operating in different organizational fields are subject to different institutional pressures.

However, the institutional perspective does not address a fundamental issue of business strategy: why do organizations subject to the same institutional pressures pursue different strategies? In other words, how might institutional forces lead to heterogeneity, rather than homogeneity, within an industry? Hoffman (2001) argues that while organizations do not simply react to the pressures dictated by the organizational field, they also do not act completely autonomously without the influence of external bounds. Institutional and organizational dynamics are tightly linked.

Other research has analyzed how organizational characteristics affect firms' adoption of "beyond compliance" strategies. These studies have examined the influence of organizational context and design (Ramus & Steger 2000; Sharma 2000; Sharma, Pablo, & Vredenburg 1999) and organizational learning (Marcus and Nichols 1999). Others have focused on individuals and managers, examining the role of leadership values (Egri and

---

**FIGURE 13.1** Institutional pressures, organizational characteristics, and environmental strategies
Herman 2000), and managerial attitudes (Cordano & Frieze 2000; Sharma 2000; Sharma et al. 1999).

While each study has provided a piece of the puzzle, there is still a lack of understanding of the conditions under which institutional pressures and organizational characteristics explain the adoption of beyond compliance strategies (see Figure 13.1). In this chapter, we first describe the empirical research that examines how pressures from constituents of firms' institutional environments affect their adoption of environmental strategies (relationship #1 in Figure 13.1). We then review the research that examines the moderating role of organizational characteristics on this relationship (relationship #2 in Figure 13.1). Finally, we offer some directions for future research.

**Environmental Strategies**

Firms can adopt various types of voluntary environmental strategies that seek to reduce the environmental impacts of operations beyond regulatory requirements. For example, firms can implement EMS elements by creating an environmental policy, developing a formal training program, or instigating routine environmental auditing (Delmas 2000). In addition, management can choose to have the comprehensiveness of their EMS validated by a third party by seeking certification to the ISO 14001 Environmental Management System Standard (Toffel 2000). Management can also convey the importance of environmental management by including it as a criterion in employee performance evaluations (Nelson 2002).

Companies can also seek to improve relations with regulators and signal a proactive environmental stance by participating in government or industry sponsored voluntary programs (Delmas & Terlaak 2002; Delmas & Montes-Sancho 2011; Short & Toffel 2010; Toffel & Short forthcoming). Indeed, the US Environmental Protection Agency (EPA), some industry associations, and several NGOs have created voluntary standards to provide incentives for firms to go beyond minimal regulatory requirements. For example, the US EPA has developed several voluntary agreements between governmental agencies and firms to encourage technological innovation and pollution reduction by providing relief from particular procedural requirements (Delmas & Terlaak 2001). Industry programs include Responsible Care and Sustainable Slopes (King & Lenox 2000; Rivera & de Leon 2003), and NGO programs include The Natural Step and the Global Reporting Initiative Guidelines (Bradbury & Clair 1999; Hedberg von Malmborg 2003).

Companies can also work directly with customers and suppliers to improve their environmental performance. Furthermore, they may engage in "systematic communication, consultation and collaboration with their key stakeholders... (and) host stakeholder forums and establish permanent stakeholder advisory panels at either the corporate level, the plant level, or to address a specific issue" (Nelson 2002: 18).
INSTITUTIONAL PRESSURES: INFLUENCE ON ENVIRONMENTAL STRATEGIES

The new institutional perspective suggests that firms obtain legitimacy by conforming to the dominant practices within their institutional field (DiMaggio & Powell 1983; Scott 1992). An organizational field includes "those organizations that...constitute a recognized area of institutional life: key suppliers, resource and product consumers, regulatory agencies, and other organizations that produce similar services or products" (DiMaggio & Powell 1983: 148).

Several scholars have argued that examining only institutional forces is not sufficient to explain divergent organizational change (D’Aunno, Succi, & Alexander 2000; Kraatz & Zajac 1996). Kraatz & Zajac (1996) investigated the effect of both the institutional and technical or market environment on organizational change and found pressures from the technical environment to be an important driver of organizational change. D’Aunno, Succi, & Alexander (2000: 700–1) argue that "both institutional and market forces are likely to affect divergent change to varying degrees in different organizational fields and, probably, in different historical periods. Moreover, institutional and market forces may interact in important ways to affect organizational change, and future research should aim to specify their roles more precisely." This speaks to the need to define precisely the external forces that pressure firms to engage in organizational change.

In this chapter, instead of characterizing market forces as being in opposition to institutional forces, we consider that institutional forces can bound and define rational argument and approaches (Fligstein 1990). With this approach, we differentiate two main sets of agents within the organizational field: market and non-market constituents (Baron 1995) and argue that both may impose institutional pressure. In doing so, we build on Hoffman’s (2001) insight that buyers and other market actors are constituents within an organizational field.

Firms engage with market constituents (e.g., customers, suppliers, competitors, shareholders) via economic transactions, whereas non-market constituents (e.g., regulators, environmental organizations) are interested in social, political, and legal issues (Baron 1995; Baron 2000). Non-market and market constituents frame environmental management issues differently (Hoffman & Ventresca 1999). For example, market constituents tend to view environmental issues primarily within the rubric of business performance, focusing on their cost and efficiency implications. On the other hand, non-market constituents such as regulators and activist groups typically view environmental issues as negative externalities and often operate via the legal system and the mass media (e.g., as a court of public opinion).

In this section, we review the empirical evidence that various institutional actors have influenced organizations’ environmental practices, focusing on politicians, regulators, local communities, customers, competitors, and shareholders (owners).
Pressures from non-market constituents

Political and regulatory pressures

Government is perhaps the most obvious institutional constituent that influences firms' adoption of environmental practices. Legislation authorizes government agencies to promulgate and enforce regulations, a form of coercive power. Whereas political pressure refers to the level of political support for broader or more stringent laws and regulations, regulatory pressure represents the extent to which regulators threaten to or actually impede a company's operations based on their environmental performance (Delmas & Toffel 2004).

Many researchers have focused on the influence of enforced legislation and regulations on firms' environmental practices (Carraro, Katsoulacos, & Xepapadeas 1996; Delmas & Montes-Sancho 2010; Delmas 2002; Majumdar & Marcus 2001; Rugman & Verbeke 1998). One study found government regulations to be the most frequently cited source of pressure in the adoption of environmental management practices (Henriques & Sadowsky 1996a).

Several studies have compared institutional environments across different countries, many of which demonstrated that more stringent regulatory environments were associated with higher levels of adoption of beyond-compliance environmental practices. Christmann (2004) found that a positive relationship between managers' perception of the stringency of governmental environmental regulation in the country in which they operated and the stringency of their company's internal environmental policy. Governments have also played an important role in firms' decision to adopt ISO 14001 (Delmas & Montes-Sancho 2011; Delmas 2002). Governments can signal their endorsement of ISO 14001 by, for example, enhancing the reputation of adopters. Governments can also facilitate adoption by reducing information and search costs by providing technical assistance to potential adopters. Regulatory pressure was also found to be an important driver of firms' participation in government-led voluntary programs (Delmas & Terlaak 2002). Delmas & Terlaak (2002) argued that institutional environments that strengthen the regulator's ability to credibly commit to the objectives of governmental programs were key to the implementation of the voluntary programs.

Within individual countries, research has shown that government pressure, measured by environmental inspections or the threat of legal liabilities, has increased the adoption of voluntary environmental practices. For example, one study showed that companies facing a greater threat of legal liability adopted more environmental management practices (Khanna & Anton 2002a). Furthermore, the threat of liabilities in a firm's industry, as well as regulations aimed at other industries, was shown to increase the likelihood a firm will publicly disclose environmental practices and strategies (Reid & Toffel 2009). Firms were more likely to self-disclose environmental regulatory compliance violations if they recently experienced an enforcement measure (like an inspection or being issued a violation) and if they received immunity from
prosecution for self-disclosed violations (Laplante & Rilstone 1996; Short & Toffel 2008). There is also fairly consistent evidence across many national government voluntary programs that regulatory pressures were important in motivating participation (Delmas & Montes-Sancho 2010; Delmas & Terlaak 2001; Maxwell, Lyon, & Hackett 2000; Rivera & de Leon 2004; Segerson & Miceli 1998). In at least one instance, this relationship changed over time, as Delmas & Montes-Sancho (2010) found that regulatory pressure significantly influenced the participation of early adopters of the US Climate Challenge voluntary program but found no evidence that it influenced late adopters.

Community and environmental interest group pressures

Local communities can also impose coercive pressure on companies through their vote in local and national elections, via environmental activism within environmental NGOs, and by filing citizen lawsuits. Several studies have found that company decisions to adopt environmental management practices have been influenced by the desire to improve or maintain relations with their communities (Florida & Davison 2001). Studies have found that pressure from community groups have influenced firms to adopt environmental plans (Henriques & Sadorsky 1996a) and government-sponsored voluntary environmental programs (Darnall, Potoski, & Prakash 2010). Another study based on a survey of ISO 14001 certified companies across fifteen countries found that one of the strongest motivating factors to pursue certification was the desire to be a good neighbor (Raines 2002).

Some communities may be better able than others to encourage plants to adopt environmental practices. Communities with larger minority populations, lower incomes and less education had greater exposure to toxic emissions (Arora & Asundi 1999; Brooks & Sethi 1997; Khanna & Vidovic 2001). Communities with higher incomes, higher population density, and greater participation in environmental and conservation organizations had less exposure to toxic emissions (Kassinis & Vafeas 2006). One study found that adoption of a US EPA voluntary program was more likely in communities with higher median household income, suggesting that socioeconomic community characteristics could affect plants' decisions to adopt environmental management practices (Khanna & Vidovic 2001). Greater declines in toxic emissions have been observed among plants located in communities with higher voting rates (Hamilton 1999), and in states with higher membership in environmental interest groups (Maxwell et al. 2000), both proxies for a community's propensity for collective action.

There are many examples where companies have amended their environmental practices in response to environmental group pressures (Baron 2003; Lawrence and Morell 1995; Sharma & Henriques 2005). For instance, after Mitsubishi Corporation was subject to a protracted consumer boycott led by the Rainforest Action Network (RAN), Mitsubishi announced it would no longer use old-growth forest products (World Rainforest Movement 1998).
Pressures from Market Constituents

In addition to the non-market pressures described above, market pressures can also lead firms to adopt environmental management practices. Below, we review the literature that explores the influences of customers, industries, and shareholders.

Customer pressures

Pressure from buyers is perhaps the primary mechanism through which quality management standards have diffused (Anderson, Daly, & Johnson 1999), and it has also played a significant role in motivating firms to adopt environmental practices (Delmas & Montiel 2008). Several studies have found evidence that customer pressure has motivated firms to adopt environmental management practices, with one study noting customers' influence was second only to that of government pressure (Henriques & Sadorsky 1996b). A recent empirical analysis found customer pressure to be an important determinant of the likelihood of adopting the ISO 14001 standard (Delmas & Toffel 2008). Others have found that companies customize their response to customer demands depending on the types of information being requested. For example, firms facing customer demand for information on the sustainability of products improved input processes, whereas firms that faced customer demand for product certification embarked on more fundamental changes to their operations including improving environmental efficiency in product design and packaging (Sharma & Henriques 2005). In addition, companies adopted more comprehensive environmental practices if they sold goods and services directly to consumers (Anton, Deltas, & Khanna 2004; Khanna & Anton 2002b). This suggests that managers perceive retail consumers (as opposed to commercial and industrial customers) as exerting more pressure on companies to adopt environmental management practices.

Industry pressure

Industry pressure is another important market pressure. For example, multinationals are widely recognized as key agents in the diffusion of practices across national borders by transmitting organizational techniques to subsidiaries and other organizations in the host country (Arias & Guillen 1998). Firms may also mimic practices that successful leading firms have adopted. In addition, firms respond to customer requirements. Industry trade associations are also a strong driver of firm environmental behavior (Christmann 2004; Delmas & Montes-Sancho 2010; King & Lenox 2000; Lenox & Nash 2003).

Competitor pressure can also encourage the adoption of EMS (Bremmers et al. 2007). In the US hazardous waste management industry, local competition increased compliance with environmental regulation, though the effect diminished in larger markets (Stafford 2007). One study found that firms facing little competition were less likely than firms in more competitive markets to decrease their environmental impact (Darnall 2009).
Several studies have found that industry associations have motivated firms to adopt environmental management practices or participate in voluntary programs (Christmann 2004; Delmas & Montes-Sancho 2010; Delmas & Terlaak 2002; Gunningham 1995; Lenox & Nash 2003; Rivera & de Leon 2004). The decisions of whether to pursue certification and which EMS standard to pursue (ISO 14001 or the European Union's Eco-Audit and Management Scheme) were found to be strongly influenced by pressure from industry associations as well as from regional chambers of commerce, suppliers, and regulators (Kollman & Prakash 2002). Trade conferences and seminars, representing industry pressure, can also influence environmental aspects of procurement decisions (Sharma & Henriques 2005). Industry concentration may also affect environmental management practices: firms with fewer competitors were found to be less likely to reduce their environmental impacts (Darnall 2009). Trade associations also employ a variety of informal mechanisms to encourage compliance with their own program requirements (Lenox & Nash 2003). Lenox & Nash (2003) describe how a number of trade associations convene meetings to share implementation experiences among members, and how such meetings impose pressure on managers of firms that are falling behind.

The creation of industry self-regulatory institutions often occurs as a result of an accident or controversy, as a way to proactively manage more stringent regulation that would be imposed as a result of the event. The Three Mile Island incident prompted industry executives to create the Institute of Nuclear Power Operation (Rees 1994). The chemical industry's Responsible Care program was borne out of a deadly accident in Bhopal, India (Gunningham 1995). As a caveat, some industry-created self-regulatory programs attracted more heavily polluting firms, which can be viewed as a form of adverse selection (Lenox & Nash 2003).

Industry groups have created other institutions such as the Global Climate Coalition in response to threats of environmental regulations. This group was financed by firms and trade groups in the oil, coal, and auto industries, among others, and campaigned against the idea that the release of greenhouse gases led to global climate change. Its public relations campaigns were sufficiently effective to stir public debate and likely delayed government action (Revklin 2009).

Firm characteristics vis-a-vis adoption of industry standards have also been investigated. Previous adoption of voluntary environmental standards, such as Responsible Care and ISO 9000, spur diffusion of subsequent standards, like ISO 14001 (Delmas & Montiel 2008). Larger companies and those with better-known brands and corporate names, more intensive polluters, and companies in sectors with higher emissions were more likely to participate in the Chemical Manufacturers Association's Responsible Care Program (King & Lenox 2000).

**Shareholder pressures**

Several studies have examined efforts of shareholders to influence the environmental management practices of firms. Institutional investor ownership, measured through public pension-fund ownership, was found to positively affect corporate social
performance (Chatterji & Listokin 2009). While shareholder resolutions on environmental topics seldom attract enough votes to pass, Reid & Toffel (2009) found that the very presence of an environmental shareholder resolution (many of which called for greater transparency) being targeted at a firm subsequently led its management to become more transparent by publicly reporting its climate change strategy and greenhouse gas emissions. Such shareholder proposals not only had a direct effect on the targeted company, but also a spillover effect on firms in the same industry as a targeted firm, who also became more transparent (Reid & Toffel 2009).

Many scholars have observed that shareholder resolutions prompt companies to change their environmental practices through private meetings between management and activists during which the companies agree to adopt some of the proposals’ specifications in exchange for the activists withdrawing their proposals (O’Rourke 2003; Proffitt & Spicer 2006; Rehbein, Waddock, & Graves 2004). For example, Amoco resisted calls by nine religious groups that proposed a shareholder resolution that called for the company to adopt the Valdez Principles, but reached a negotiated settlement. In exchange for the withdrawal of the proposal, the company agreed to abide by one of the principles and to publish an environmental progress report (Hoffman 1996). The company subsequently enacted several other management practices aligned with the Valdez Principles. One study found that this compromise between activists and management was strongly related to more robust (or thorough) disclosure of environmental practices (Marshall, Brown, & Plumlee 2007).

Examining how companies respond to environmental ratings is another approach to discern the influence of investors on managerial behavior. Chatterji & Toffel (2010) analyzed how firms responded to KLD’s corporate environmental ratings and found that firms that initially received poor ratings subsequently improved their environmental performance more than firms that had more positive initial ratings and more than firms that were never rated. Such improvements were most substantial among poorly rated firms that were able to make low-cost environmental improvements and that were in highly regulated industries (Chatterji & Toffel 2010).

**Combined pressures**

It is important to note that while we have been referring to the institutional pressures individually, several studies examine a combination of institutional pressures and compare the differential effects of these pressures or combine them through factor analyses (Delmas 2001; Delmas & Toffel 2008). Furthermore the interaction between these institutional pressures is likely to moderate their individual influence on company practices (Bansal & Clelland 2004). For example, Bansal & Clelland (2004) provided insights about how competitors, regulators, and customers can influence investors’ assessments of firms’ environmental legitimacy. As another example, the pressure from environmental groups may encourage the formulation of more stringent regulations. This, in turn, can induce industry leaders to encourage laggard firms to adopt environmental practices. Similarly, following its chemical disaster in Bhopal in 1984, Union Carbide along with other large chemical companies faced mounting public pressure for
more stringent safety and environmental regulations. In response, the chemical industry developed and promoted a set of environment, health and safety (EHS) management practices—the Responsible Care program—to chemical industry associations in Canada and the United States (King & Lenox 2000; Prakash 2000).

**Organizational characteristics**

**Moderating the impact of institutional pressures on environmental strategies**

Institutional theory has traditionally described how isomorphic institutional pressures lead to common organizational practices. In the traditions of this framework, persistent heterogeneity among various firms within the same industry might be attributed to differences in the composition of their organizational fields. For example, firms located in different states would face different institutional pressures, which could result in dissimilar organizational practices. Differing levels of institutional pressure could also lead to heterogeneous activities during any specific period, but ultimately these are purported to result in common organizational structures and practices to ensure legitimacy. As a consequence, few have employed institutional theory to understand questions of strategy which focus on persistent differences among organizations that share common organizational fields. We therefore need more informed theories about how and why organizations respond differently to institutional pressures. While scholars have made significant advances in analyzing how institutional pressures affect firms' decisions to pursue 'beyond compliance' strategies, there remains very limited research about how organizational factors moderate these relationships. Levy & Rothenberg (2002) describe several mechanisms by which institutionalism can encourage heterogeneity. First, they argue that institutional forces are transformed as they permeate an organization's boundaries because they are filtered and interpreted by managers according to the firm's unique history and culture. Second, they describe how an institutional field may contain conflicting institutional pressures that require prioritization by managers. Third, they describe how multinational and diversified organizations operate within several institutional fields—both at the societal and organizational levels—which expose them to different sets of institutionalized practices and norms. In this section, we review the empirical research on the interaction between institutional pressures and organizational characteristics.

**Organizational functions**

One line of research examines how differences in organizational functions moderate how institutional pressures affect firms' responses. Hoffman (2001) theorized that organizations channel institutional pressures to different subunits, which frame these
pressures according to their typical functional routines. For example, legal departments interpret pressures in terms of risk and liability, public affairs does so in terms of company reputation, environmental affairs in terms of ecosystem damage and regulatory compliance, and sales departments in terms of potential lost revenues. Consequently, the pressure is managed according to the cultural frame of the unit that receives it: either as an issue of regulatory compliance, human resource management, operational efficiency, risk management, market demand, or social responsibility (Hoffman 2001). Delmas & Toffel (2008) extend this to hypothesize and demonstrate that corporate assignments of responsibilities to specific departments lead firms to differ in their receptivity to pressures from various stakeholders. In their framework, pressures from external stakeholders are channeled to different organizational functions, which influence how they are received by facility managers. These differences in receptivity are critical because they, in turn, influence organizations' responses in terms of adopting management practices. In other words, some organizations will allow pressures from stakeholders to permeate the organization. For example, firms with powerful legal departments will be more responsive to pressures from regulators, while firms with powerful marketing departments will be more responsive to pressures from customers. These functional departments influence managers' sensitivity and responses to institutional pressures in the form of adopting different environmental management practices. Analyzing survey and archival data, Delmas & Toffel (2008) find that organizations that were more receptive to institutional pressure from market constituents (controlling for the amount of pressure exerted) were more likely to adopt the ISO 14001 Environmental Management System Standard, and that organizations that were more receptive to institutional pressure from non-market constituents (controlling for the amount of pressure exerted) were more likely to adopt government-initiated voluntary programs and less likely to adopt ISO 14001.

Environmental Management Efficiency

Chatterji & Toffel (2010) argue that firms facing lower-cost opportunities to improve their environmental performance are more likely to respond to stakeholder pressures that besmirch their reputation. They find that less eco-efficient firms (those with above-average pollution levels given their size and industry) were particularly likely to respond to poor environmental ratings from KLD, a major socially responsible investment rating agency, by improving their environmental performance.

Buyer–Supplier Relations

The relationship between firms and their customers also affects firms' responses to customer pressure. Delmas & Montiel (2009) revealed the importance of buyer–supplier relationships to moderate firms' responses to customer pressures to adopt ISO 14001.
Examining ISO 14001 adoption by automotive suppliers, Delmas & Montiel (2009) found that adoption was more likely among suppliers that were younger, which used ISO 14001 certification to gain legitimacy and signal their environmental practices; suppliers that had highly specialized assets and were thus more dependent on their current customers; suppliers that were headquartered in Japan and thus had a greater need to reduce the information asymmetries arising from the physical and cultural distance to the US; suppliers that reported to the US EPA's Toxic Release Inventory and therefore received higher levels of public scrutiny of their environmental management practices (Delmas & Montiel 2009). Firms were more likely to adopt ISO 14001 if they were located far from their potential buyers (King, Lenox, & Terlaak 2005) and adopted more comprehensive environmental practices if they sold goods and services directly to consumers (Christmann & Taylor 2001).

Industry characteristics

Others have focused on industry characteristics as moderators of institutional pressures on firm behavior. Lyon & Maxwell (2011) predict greater transparency among firms in industries that have socially or environmentally damaging impacts. Cho & Patten (2007) found that firms in environmentally sensitive industries were especially likely to respond to pressures for transparency by disclosing some forms of environmental information (e.g., expenditures on pollution control and abatement) in their annual reports (10-Ks) because such firms "face greater exposure to the public policy process than companies from non-environmentally sensitive industries." In their analysis of corporate disclosure of climate change strategy and greenhouse gas emissions, Reid & Toffel (2009) found that firms targeted by environmental shareholder resolutions were more likely to disclose this information, and that this relationship was especially pronounced for firms in environmentally sensitive industries. They also found that firms in industries with more environmental shareholder resolutions (i.e., targeting their competitors) were also more likely to disclose this information, even when the focal firm had not itself been targeted. Similarly, Chatterji & Toffel (2010) find that firms in more intensively regulated industries are particularly likely to respond to poor environmental ratings by improving their environmental performance.

Conclusion and future research

This chapter reviews the literature that describes how stakeholders including politicians, regulators, local communities, customers, competitors, and shareholders impose institutional pressures on firms and how these pressures influence firms to adopt beyond-compliance environmental strategies (see Kassinis [Chapter 5] this volume for a complementary approach to stakeholder perspectives). In addition, this chapter reviews
research that reveals how organizational factors moderate how managers perceive and act upon these pressures. These moderating factors, which can magnify or diminish the influence of institutional pressures, include organizational structure and functions, environmental management efficiency, buyer–supplier relations, and industry characteristics. This novel research stream contributes to institutional theory by exploring how institutional pressures interact with organizational characteristics in influencing managerial decisions in general, and environmental strategies in particular.

... We also believe that this novel approach can reveal conditions under which firms are more likely to resist institutional pressure. Most prior studies predict and show positive relationships between institutional pressures and the adoption of environmental strategies. In most cases, more pressure is associated with the adoption of more environmental management practices. However, incorporating moderating effects of firm characteristics in the model can yield substantial insights such as inverted relationships. For example, Delmas & Toffel (2008) found that, controlling for the level of regulatory pressure, ISO 14001 was less likely to be adopted by organizations that had strong legal departments. This approach allows researchers to identify factors that enable firms to resist institutional pressures. Likewise, Delmas & Montiel (2009) analyzed the motivations for automotive suppliers to resist the mandate of the Big Three US automotive manufacturers to adopt ISO 14001 by 2003. They found that suppliers resisting adoption by the deadline tended to be older, smaller, and to produce less specialized products. In addition, many resistant firms were less visible to regulators and environmental NGOs because they were not required to report their emissions to the US EPA Toxic Release Inventory (TRI).

In seeking to understand the factors that contribute to corporate environmental strategy, further studies have highlighted the importance of additional organizational characteristics, including firms’ capabilities, resources, and ownership structure (Darnall & Edwards 2006; Sharma 2000; Sharma & Vredenburg 1998), board size (Kassinis & Vafeas 2002), corporate identity and managerial discretion (Sharma 2000), the characteristics of individual managers (Bansal & Roth 2000; Cordano & Frieze 2000), and corporate culture (Howard-Grenville & Bertels [Chapter 11] this volume). Future research could investigate how characteristics moderate how firms perceive and respond to institutional pressures. For example, future work might examine the extent to which managers’ personal characteristics and professional experiences influence their perception of particular institutional pressures. It seems feasible that a facility manager’s nationality could imbue similar cultural-based sensitivities to those we ascribed to the influence of the headquarters country. In addition, corporate marketing and legal affairs department managers’ prior experience with stakeholders (e.g., when these managers were employed at other firms) could influence their current sensitivity to institutional pressures. A richer understanding of such personal attributes would provide an important supplement to the organizational characteristics identified in this chapter.

Further promising areas of research stem from considering the dynamics of the interactions between institutional pressures and organizational characteristics. Just as Delmas & Montes-Sancho (2010, 2011) found that institutional pressures exerted a more
powerful influence on firms when particular environmental management practices were just emerging, future research could explore whether, how, and why the moderating role of organization characteristics change over time. An example of such a study might examine the factors that lead organizations' perceptions of institutional pressures to change over time, such as accumulating positive experiences engaging with particular stakeholders or the shock of being targeted by regulators, community protests, or activist campaigns.

Exploring how organizational factors moderate firms' responsiveness to institutional pressures represents an important opportunity to develop institutional theory while enhancing its ability to foster a better understanding of why companies pursue different environmental strategies and environmental management practices.

REFERENCES


CONTENTS

List of Figures ix
List of Tables x
List of Abbreviations xi
List of Contributors xiii

PART I: INTRODUCTION

1. Retrospective, Perspective, and Prospective: Introduction to The Oxford Handbook on Business and the Natural Environment 3
   ANDREW J. HOFFMAN AND PRATIMA BANSAL

PART II: BUSINESS STRATEGY

2. Competitive Strategy and the Environment: A Field of Inquiry Emerges 29
   MICHAEL V. RUSSO AND AMY MINTO

3. International Business and the Environment 50
   PETRA CHRISTMANN AND GLEN TAYLOR

4. Environmental Entrepreneurship 70
   MICHAEL LENOX AND JEFFREY G. YORK

5. The Value of Managing Stakeholders 83
   GEORGE KASSINIS

PART III: POLICY AND NON-MARKET STRATEGIES

6. Industry Self-Regulation and Environmental Protection 103
   ANDREW KING, ANDREA M. PRADO, AND JORGE RIVERA

7. Environmental Governance 122
   DAVID P. BARON AND THOMAS P. LYON
8. Business and Environmental Law
   Cary Coglianese and Ryan Anderson

PART IV: ORGANIZATIONAL BEHAVIOR AND THEORY

9. Cognitive Barriers to Environmental Action: Problems and Solutions
   Lisa L. Shu and Max H. Bazerman

10. Intergenerational Beneficence and the Success of Environmental Sustainability Initiatives in Organizational Contexts
    Leigh Plunkett Tost and Kimberly A. Wade-Benzoni

11. Organizational Culture and Environmental Action
    Jennifer Howard-Grenville and Stephanie Bertels

12. Institutional Approaches to Organizations and the Natural Environment
    Michael Lounsbury, Samantha Fairclough, and Min-Dong Paul Lee

13. Institutional Pressures and Organizational Characteristics: Implications for Environmental Strategy
    Magali A. Delmas and Michael W. Toffel

    Klaus Weber and Sara B. Soderstrom

PART V: OPERATIONS AND TECHNOLOGY

15. Greener Supply Chain Management
    Robert D. Klassen and Stephan Vachon

16. Closed-Loop Supply Chains

17. Industrial Ecology: Business Management in a Material World
    Reid Lifset and Frank Boons

    Nigel P. Melville
PART VI: MARKETING

19. From Green Marketing to Marketing for Environmental Sustainability
   Debra L. Scammon and Jenny Mish
   347

20. Why not Choose Green? Consumer Decision Making for Environmentally Friendly Products
   Andrew D. Gershoff and Julie R. Irwin
   366

21. Using Market Segmentation Approaches to Understand the Green Consumer
   Timothy M. Devinney
   384

PART VII: ACCOUNTING AND FINANCE

22. Sustainability and Social Responsibility Reporting and the Emergence of the External Social Audits: The Struggle for Accountability?
   Rob Gray and Irene M. Herremans
   405

23. Environmental Management, Measurement, and Accounting: Information for Decision and Control?
   Nola Buhr and Rob Gray
   425

   Charles H. Cho, Dennis M. Patten, and Robin W. Roberts
   444

25. Values-Driven and Profit-Seeking Dimensions of Environmentally Responsible Investing
   Rob Bauer and Jeroen Derwall
   462

   Jean-Louis Bertrand and Bernard Sinclair-Desgagné
   482

27. Corporate Decision-Making, Net Present Value, and the Environment
   Bryan R. Routledge
   502
### PART VIII: EMERGENT AND ASSOCIATED PERSPECTIVES

28. The Relevance of the Natural Environment for Corporate Social Responsibility Research  
   **Krista Bondy and Dirk Matten**  
   519

   **James E. Post**  
   537

30. The New Corporate Environmentalism and the Symbolic Management of Organizational Culture  
   **Linda C. Forbes and John M. Jermier**  
   556

31. Critical Perspectives on Business and the Natural Environment  
   **Subhabrata Bobby Banerjee**  
   572

32. Approaching Business and the Environment with Complexity Theory  
   **David L. Levy and Benyamin B. Lichtenstein**  
   591

### PART IX: FUTURE PERSPECTIVES

33. Beyond the Brave New World: Business for Sustainability  
   **John R. Ehrenfeld**  
   611

34. Looking Back, Thinking Forward: Distinguishing Between Weak and Strong Sustainability  
   **Nigel Roome**  
   620

35. Enterprise Sustainability 2.0: Aesthetics of Sustainability  
   **Paul Shrivastava**  
   630

36. Tomorrow’s C-Suite Agenda  
   **John Elkington and Charmian Love**  
   639

37. The Third-Generation Corporation  
   **Stuart L. Hart**  
   647

38. Capitalism Critique: Systemic Limits on Business Harmony with Nature  
   **Thomas N. Gladwin**  
   657

*Index*  
675