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**Citation:** Chung, D. & Kaynak, E. (2026). Fueling market growth through collective political action: Shaping favorable public policy in regulated markets. *Journal of Management Inquiry*, 35(2), pp. 134-152. doi: 10.1177/10564926251314754

This is the accepted version of the paper.

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**Link to published version:** <https://doi.org/10.1177/10564926251314754>

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# Journal of Management Inquiry

## Fueling market growth through collective political action: Shaping favorable public policy in regulated markets

Journal:	<i>Journal of Management Inquiry</i>
Manuscript ID	JMI-24-0114-EMP.R1
Manuscript Type:	Empirical Research
Keyword:	Business & Government, Institutional Entrepreneurship, Business & Society, Qualitative Research
Abstract:	Although prior research has suggested that collective actors such as industry or trade associations play an important role in advocating for their members, few studies have examined how they facilitate new market formation and growth in regulated fields. Our study shows how collective actors may be instrumental in carving out specific, favorable policies from initially vague legislation, and that they do so by creating a univocal political messaging strategy to achieve support from regulators and legislators. Our empirical context is the biodiesel market in the United States, which depended on continuing federal obligated consumption mandates to survive. Our findings contribute to the literatures on collective political action and new market emergence by delineating the political influence process through which collective actors shape the trajectory of nascent markets.

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3 Research on new market formation has documented how favorable public policies can  
4 encourage firms to participate in new industries (Georgallis et al., 2019; Russo, 2001).  
5  
6 Critical to this process is the role of collective actors, such as trade associations, in framing  
7 the market opportunities created by policy changes for potential entrants (Hiatt & Carlos,  
8 2019; Sine et al., 2005). However, few studies have looked at how collective actors directly  
9 support the emergence and growth of new markets through their political influence activities.  
10  
11 This lacuna exists in part because most empirical research on political action in markets  
12 examines firm-level tactics and focuses on mature firms which are more likely to be  
13 politically active (e.g., Hillman & Hitt, 1999; Hillman et al., 2004; Walker & Rea, 2014). A  
14 few recent studies that examine nascent markets show how firm political action is aimed at  
15 mitigating unfavorable regulation for contested product categories such as e-cigarettes (Hsu  
16 & Grodal, 2021), genetically modified organisms (Hiatt & Park, 2013), or dietary  
17 supplements (Ozcan & Gurses, 2018). Yet how new markets emerge and grow through the  
18 political activism of collective actors, like trade associations, remains underexplored.

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21 Our study addresses this opportunity to build greater understanding of new market  
22 formation processes by showing how collective actors can shape public policy in regulated  
23 industries over time to support market emergence and growth. Prior research has documented  
24 that collective actors, such as environmental movements, can pave the way for new product  
25 markets to emerge by shaping cultural norms, cognitive frames, and regulatory structures  
26 (Sine & Lee, 2009). Yet the process through which collective actors engage with and  
27 influence lawmakers and regulators over time to build and sustain political support for new  
28 markets has not been fully addressed (Pierson, 1993). We present an inductive, longitudinal,  
29 study of the biodiesel market in the United States. We construct this case study through  
30 interviews, observations, and archival data collected for the years 1992-2012. Our findings  
31 demonstrate how the national trade association for biodiesel not only facilitated the formation  
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3 and growth of the market through its political influence activities directed at legislators,  
4 regulators, and potential consumers, but also how the trade association mobilized and  
5 consolidated diverse producer groups to establish biodiesel as a fuel product with a single,  
6 coherent identity in the market, which was critical for sustaining continued policy support  
7 over time.  
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15 This study contributes to both the collective political action and new market  
16 emergence literatures by theorizing the role of collective actors in supporting new market  
17 formation and growth processes in relation to public policy. Our analysis shows that first,  
18 collective actors play a critical role in lobbying for specific favorable legislation where initial  
19 public policy is vague or not actionable. This finding extends existing accounts that overlook  
20 the potential need for political action, and the formation of collective actors themselves, well  
21 before entrepreneurial firms populate a new market. Second, we show how collective  
22 political actors mobilize multiple constituencies to facilitate market formation, for example,  
23 by ensuring a reliable supply and demand for the new product or service. Third, we show  
24 how collective actors' efforts to prevent fragmentation among diverse producers is important  
25 for achieving univocal political messaging, which is crucial for sustaining policy support in  
26 regulated industries. Prior studies highlight how markets vary in the extent to which firms act  
27 collectively in seeking legitimacy from important audiences (Gao & McDonald, 2022; Hiatt  
28 & Park, 2022). We contribute to a growing understanding of the importance of shared  
29 identity in new product markets and extend theory beyond the existing focus on consumers as  
30 the key audience (Lee et al., 2017).  
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## 52 **New Market Emergence in Response to Public Policy**

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55 Government interventions create unique inflection points for new markets to emerge, as  
56 "government policy on matters ranging from the very broad—like energy—to the very  
57 particular—like safe wood for garden mulch—can influence not only the prospects but also  
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3 the very shape of firms and industries" (Spillman, 2018, p. 261). Government policies can  
4 influence the size and structure of markets, for example, by establishing barriers to entry,  
5  
6 determining levels of taxation, or offering subsidies or government contracts to serve national  
7  
8 priorities (Keim & Baysinger, 1988; Schuler et al., 2002). Policies that offer government  
9  
10 financial support for strategically important industries encourage new firm foundings or new  
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12 firm entry through mechanisms such as feed-in tariffs or tax credits, as in the case of the  
13  
14 European photovoltaic sector (Georgallis et al., 2019). Similarly, policies that deregulate  
15  
16 existing industries can spur entrepreneurs to enter the market, as in the case of satellite radio  
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18 firms that competed with incumbent telecommunications firms (Navis & Glynn, 2010).  
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24 Public policies can also set the terms of exchange between incumbent firms and new  
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26 suppliers, by mandating that incumbents purchase a particular service or product, and thus  
27  
28 guaranteeing a market for new entrants (Russo, 2001; Sine et al., 2005). In some markets,  
29  
30 these obligated consumers are organized political actors with vested interests – for example,  
31  
32 utility firms that would not buy electricity from independent power producers until the  
33  
34 government forced them to do so (Russo, 2001). Without the government mandate regulating  
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36 this exchange relationship, it is unlikely that the market for independent power would have  
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38 been established.  
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42 While some studies have thus looked at how public policies can help new markets  
43  
44 emerge, others have examined how laws and regulations shape the growth trajectory of  
45  
46 nascent markets. In the case of e-cigarettes for example, the growth of the market in the U.S.  
47  
48 was significantly affected by how the FDA decided to regulate e-cigarettes. Although e-  
49  
50 cigarettes were initially marketed as a healthier alternative to conventional cigarettes, their  
51  
52 association with conventional cigarettes eventually led regulators to categorize e-cigarettes as  
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54 tobacco products, which invited greater scrutiny not just from the government, but also from  
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56 lawmakers – though this did not necessarily halt sales growth (Hsu & Grodal, 2021).  
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3 Similarly, Ozcan and Gurses (2018) show how the growth of the food supplement market  
4 was influenced by its regulatory categorization by the government. Originally categorized  
5 and regulated as ‘foods’, when supplements faced potential recategorization as ‘drugs’,  
6 therefore requiring FDA approval, supplement manufacturers engaged in grassroots lobbying  
7 to build support for a new regulatory category – the ‘food supplement’ – that would invite  
8 less scrutiny than the drug category. Producers were able to mobilize their consumer base to  
9 speak on behalf of the industry and influence regulators, ultimately protecting their market  
10 from unfavorable regulatory recategorization (Ozcan & Gurses, 2018). While these studies  
11 illustrate how political action is an important factor in market growth, in both cases,  
12 collective action was aimed at mitigating unfavorable regulation, not proactively creating  
13 favorable legislation for a new product market.  
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28 A few recent studies have examined how new industries can attain policy support. In  
29 their study of the emergence of the European solar photovoltaic industry, Georgallis et al.  
30 (2019) find that a primary determinant of policy support for a new product market is the  
31 perceived coherence of the category in the eyes of policymakers. They found that if the  
32 market was perceived as coherent (i.e., if there were few firms coming from industries with  
33 contradictory identities such as fossil fuels), the new market was more likely to receive policy  
34 support from the government. Policy support may also be contingent on how policymakers  
35 perceive public opinion about a nascent industry. In their longitudinal study of the growth  
36 and decline of the biogas market in Germany, Markard et al. (2016) show how a loss of  
37 legitimacy in the eyes of the public eventually led to loss of policy support from the  
38 government, which led to the decline of the biogas market. Governments may also select  
39 certain growth industries for political support to increase national output, and proactively  
40 seek out collaboration with industry associations to support producers, as the case of the  
41 Korean cotton industry in the mid-twentieth century illustrates (Park, 2009).  
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3 In sum, research has long shown the importance of favorable public policy for new  
4 markets, and several recent studies have examined various antecedents of policy support for  
5 new industries. However, how collective political actors in new product markets can lobby  
6 for policy support to facilitate market emergence has not been examined in-depth. While the  
7 literature on corporate political activity has documented an array of firm-level tactics that  
8 organizations use to manage their political environment (e.g., Hillman et al., 2004; Lord,  
9 2000; Lenway et al., 2022), the focus of this research has been mature firms and industries,  
10 which are more likely to be politically active. Participants in new markets are generally  
11 assumed to lack the resources and political capabilities to engage in substantive political  
12 action, and hence have not been a focus of corporate political action (CPA) research (Aldrich  
13 & Fiol, 1994; Georgallis et al., 2019). In the following section, we discuss studies that offer  
14 important insights for understanding how markets can form and grow through collective  
15 political action in response to policy opportunities.

### 33 **Collective Political Action for Market Emergence and Growth**

34 Decades of research show that interacting with policymakers is a routine part of business  
35 (Clawson & Neustadtl, 1989; Doborantu et al., 2017; Hillman et al., 2004), with the level of  
36 industry regulation being a primary determinant of political activity by firms (Hillman & Hitt,  
37 1999; Keim & Baysinger, 1988). As Fligstein (2018, p. 73) notes, “involving the state in  
38 regulation or protective legislation that increases the odds of survival is a normal strategy for  
39 dominant firms.” While resource-rich firms often pursue political action independently, firms  
40 also engage in collective political action when their policy interests are aligned with other  
41 actors in the market. For instance, firms may need to agree on a common technical standard  
42 or achieve formal certifications, motivating them to undertake collective action (Garud et al.,  
43 2002; Sine et al., 2007).

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3 In many countries, firms often engage in membership-based collective political action  
4 through industry or trade associations, or through peak organizations such as the Chamber of  
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6 Commerce in the United States (Barley, 2010; Barnett, 2012; Walker & Rea, 2014).  
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10 Collective actors such as trade associations advocate for members' interests through a wide  
11  
12 array of influence strategies. The literature highlights how trade associations play a dual role:  
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14 they shape firms' access to policy information and also direct the flow of industry-relevant  
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16 information to stakeholders, such as a regulators and legislators, through lobbying and  
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18 agenda-setting activities (Getz, 1997; Hillman & Hitt, 1999; Jones & Baumgartner, 2005).  
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21 Although it is important to note that the majority of trade associations in the United States are  
22  
23 not politically active (Spillman, 2018), the minority of politically engaged associations report  
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25 that they "mobilize organizational, informational, and network resources to set policy  
26  
27 agendas according to members' interests, participate in the formulation of policy alternatives,  
28  
29 and influence policy decisions" (Spillman, 2012, p. 268). For instance, trade associations may  
30  
31 attempt to convince policymakers that an industry should be able to self-govern (Bernstein  
32  
33 1955; Carpenter & Moss 2013). Trade associations also engage in political communication  
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35 campaigns to defend the public image of an industry in times of crisis (Elsbach, 1994). In  
36  
37 general, they play an important role in shaping the policy environment and managing the  
38  
39 reputation of industry members (Lawton et al., 2018). Yet how collective actors like trade  
40  
41 associations might engage in political action in the market emergence stage is overshadowed  
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43 by research that focuses on firm-level corporate political activities, with the consequence that  
44  
45 the role of other types of political actors is understudied (Lawton et al., 2013). Moreover,  
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47 there is a dearth of process-level studies showing how such political action is carried out  
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49 either by individual firms or collective actors working on their behalf (Kaynak & Barley,  
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51 2019; Lux et al., 2011).  
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3 The few studies that examine the role of trade associations in the emergence and  
4 growth of markets show how these collective actors can frame opportunities for prospective  
5 entrepreneurs, influencing their initial entry and investment decisions. Studies show, for  
6 example, how the existence of a trade association is correlated with subsequent firm  
7 foundings in the nascent market because the trade associations help to mitigate the liability of  
8 newness (Russo, 2001; Sine et al., 2005). Hiatt and Carlos (2019) show how agricultural  
9 trade associations in the biodiesel market shared technical expertise and demonstrated the  
10 viability of new production technologies to prospective entrants. Yet because they focus on  
11 entrepreneurial entry, these studies do not elaborate on the political influence activities of the  
12 trade associations in question.

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15 A recent study of industry associations in the nascent small drone market shows that,  
16 faced with restrictions from city and county governments trying to regulate drone usage,  
17 industry associations successfully lobbied state governments to remove restrictive regulations  
18 on their growth (Yue & Wang, 2023). Once again, however, this study focuses on political  
19 activism directed at mitigating unfavorable regulations rather than on political action aimed at  
20 shaping supportive policy. More research is needed to understand how new markets can form  
21 and grow through political action undertaken by trade associations and other collective  
22 political actors, both in the United States and globally. Business historians who document the  
23 role of trade associations in particular countries and time periods show how the resources and  
24 strategies these entities have deployed to serve their members' interests shift with both  
25 market and political forces. For example, in the United Kingdom, the trade association  
26 representing the aluminium industry gained influence as the power of major producers was  
27 challenged by globalization and the disaggregation of the industry into non-vertically  
28 integrated firms, such that the trade association represented a far greater number of firms  
29 compared to the era of its founding and played a more important role in advocating for the

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3 interests of the industry in a global market where government policy was important for  
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5 ensuring competitiveness (Perchard et al., 2024).  
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8 Lee et al. (2017, p. 449) note that “most extant research on market intermediaries has  
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10 been conducted in the context of established markets, so our understanding of their role in  
11  
12 facilitating market category emergence and growth is limited.” We also lack adequate insight  
13  
14 into how trade associations form in the first place. The predominant focus on mature  
15  
16 industries means that although the importance of trade associations, as one type of market  
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18 intermediary for structuring markets, is widely acknowledged (Aldrich, 2018; Spillman,  
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20 2012), we lack accounts of how market intermediaries themselves form in response to public  
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22 policy, corral producers around evolving market opportunities, and support the growth of a  
23  
24 market through sustained political influence activities. Our study of the biodiesel industry in  
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26 the United States is intended to address this gap in the literature.  
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## 30 **Data and Methods**

### 31 **Research Approach and Case Selection**

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33 We adopted a qualitative case study as our methodological approach to uncover the process  
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35 through which a new product market formed and grew over time through political action  
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37 (Eisenhardt, 1989; Yin, 2009). Our case selection reflected a strategic approach to choosing  
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39 a research context in which political action would be salient. Exploratory interviews  
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41 confirmed that the biodiesel market in the United States had been shaped by concerted  
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43 political action by collective actors throughout its evolution. The context also fit with our  
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45 interest in the intersection of political action and new market emergence because, like many  
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47 renewable energy fields, biodiesel emerged in relation to existing industries with vested  
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49 interests (Russo, 2001) and this relationship was mediated by public policy.  
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56 As Mair et al. (2012, p. 821) suggest, “careful attention to the rules of the game in  
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58 markets points to the relevance of the context and processes by which they emerge.” During  
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3 the time period of our study, the “rules of the game” in energy markets evolved in tandem  
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5 with the federal government’s changing priorities related to its role in ensuring national  
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7 energy security and protecting the environment by supporting renewable domestic energy  
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9 production. To this end, energy policy in the United States targeted a multitude of  
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11 technological fields, and each of these fields evolved in tandem with specific “rules” (e.g., tax  
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13 breaks, incentives, obligated consumption mandates) that applied to both producers and  
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15 consumers.  
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19 The biodiesel field in the United States is particularly reliant on favorable rules of  
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21 exchange because of the underlying reliance on an existing distribution infrastructure. Unlike  
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23 solar panels or wind turbines, which can be installed in a relatively disaggregated manner,  
24  
25 biodiesel depends on an existing infrastructure for large-scale fuel distribution. Although an  
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27 attempt to create an independent network of biodiesel fueling stations did achieve coverage  
28  
29 of the continental United States, for biodiesel to achieve significant sales volume, it depended  
30  
31 on the existing network of petroleum diesel distributors and fueling stations. Therefore, the  
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33 role of government policy in mediating the relationship between the emergent technological  
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35 field and incumbent interests in the petroleum industry was central to the field’s prospects.  
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37 Taking these boundary conditions into account, this setting offers an opportunity to generate  
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39 insights into how new markets may emerge and grow in regulated sectors over time.  
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#### 44 **Data Sources**

45  
46 The first author collected qualitative data from multiple sources that captured the  
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48 history, production activities, discourses, and political activities within the biodiesel field  
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50 from 1992 to 2012. Fieldwork was conducted between 2010-2012 at trade association  
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52 conferences, biofuels conferences, and biodiesel production sites. To capture the history of  
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54 the biodiesel market’s formation, archival data were collected to capture events from 1991 to  
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56 2012. These data sources include blog and forum posts, government documents (e.g., Senate  
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3 and House bills, policy acts, regulatory guidelines) pertaining to the biodiesel field, trade  
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5 publications, communications from the biodiesel trade association to its members, and  
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7 industry reports from third parties. These data sources allowed us to reconstruct the industry  
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9 infrastructure that emerged around the biodiesel market during the period of its formation and  
10  
11 growth, capturing the role of a multitude of actors that contributed to the industry's early  
12  
13 efforts to garner legitimacy and political support (Forbes & Kirsch, 2011). By collecting both  
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15 primary and archival data, we were able to triangulate among sources and construct a  
16  
17 narrative account of the development of the biodiesel market.  
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21 Initial fieldwork consisted of interviews and observations of biodiesel producers and  
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23 distributors. During these interactions, the first author gained a broad sense of the structure of  
24  
25 the biodiesel market, and acquired contact information for additional key informants. Using  
26  
27 purposive sampling techniques (Merriam, 2009) informed by the national biodiesel trade  
28  
29 association's membership list, she conducted interviews with biodiesel producers who relied  
30  
31 on different feedstocks across the United States. These interviews pointed to the importance  
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33 of trade conferences held throughout the year, and she attended four conferences related to  
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35 biodiesel or biofuels during the data collection period. At these conferences, she met  
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37 employees of the trade association, and arranged further in-depth interviews about their  
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39 activities and role in the field.  
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45 During interviews, the first author used a semi-structured protocol designed to allow  
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47 informants to discuss their experiences and raise issues that were most salient to their  
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49 experience (Spradley, 1996). These interviews lasted between 30 and 100 minutes, and some  
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51 were conducted over the phone, while others took place at the trade association's offices and  
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53 at conference sites. In addition to recorded interviews, she engaged in informal conversations  
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55 at conferences and at field sites around events like lunches, dinners, cocktail receptions, and  
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57 while informants were working. In total, the first author conducted 48 formal interviews with  
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3 current and former industry members. Interviewees included current and former commercial  
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5 producers working at a large-scale, small-scale producers (also called B100 producers), trade  
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7 association employees, and scientists and engineers who conducted research related to  
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9 biodiesel and worked for regulatory agencies. Producers were located across the United  
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11 States, while trade association representatives were concentrated in the Midwest.  
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15 In addition, the first author collected secondary data, including materials from the  
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17 archives of the national trade association, and monthly and weekly bulletins circulated among  
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19 members. These bulletins documented, among other items, the political influence activities  
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21 undertaken by the trade association and its supporters. With the help of a professional web  
22  
23 scraper, she also collected blog and forum postings authored by B100 producers. These  
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25 archival data were used to reconstruct a narrative account of how the biodiesel market  
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27 developed. Data sources are summarized in Table 1.  
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31 *Table 1. Overview of Data Sources*  
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<b>Data Type</b>	<b>Sources</b>
<b>Semi-structured interviews</b> Formal interview n=48	B100 and commercial industry producers and distributors; representatives of biodiesel trade associations and agricultural trade associations; obligated consumers of biodiesel; biodiesel researchers; regulatory agency representatives
<b>Fieldwork</b>	Industry conferences (4); trade association event (1); production and distribution sites (4); trade association site visit (1)
<b>Secondary/archival materials</b>	Industry trade publications; press releases from biodiesel firms; archives of blogs written by biodiesel activists and industry analysts; web forums related to biodiesel; government data from LexisNexis Congressional

### 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 **Analytic Process**

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57 We employed two analytic approaches that reflected the different underlying logics of  
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59 the data sources. For the primary interviews and observational data, the first author adhered  
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3 to the process of building grounded theory (Strauss & Corbin, 1990) and used ATLAS.ti  
4 software to code each line of the interview transcripts and field notes. She created codes that  
5 reflected repeated instances of actions, artifacts, sentiments, and attributions of cause and  
6 effect. For example, she frequently encountered references to the importance of public policy  
7 for the industry, both in interview transcripts and observational data.  
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15 In the axial round of coding, we compared codes from the first round and clustered  
16 them according to emergent themes. For example, informants named many sources of  
17 uncertainty in the biodiesel industry, ranging from U.S. federal energy policy to the global  
18 feedstock market. We did this for as many open codes as possible, forming themes that  
19 reflected the many aspects of producing and distributing biodiesel, as well as the historical  
20 context in which this work occurred. We compared the emergent themes to the findings of  
21 prior research, and we highlighted potentially theoretically interesting and underexplored  
22 themes.  
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33 In a parallel stream of analysis, the first author organized the secondary data and  
34 analyzed these archival documents with the aim of integrating evidence into a longitudinal  
35 account of the development of the industry in relation to public policy and regulatory events.  
36 Table 2 provides an overview of policy and regulatory events. Where possible, we  
37 triangulated between multiple data sources to develop an analytic narrative that expanded on  
38 the themes gleaned from the inductive analysis of the primary data, providing specific  
39 evidence of the claims made by various informants about the interactions between the  
40 industry, regulators, legislators and other stakeholders, as well as interactions between the  
41 trade association and its current and prospective members. This analysis was organized by the  
42 logic of events in time.  
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Legislative Event	Summary
Clean Air Act Amendments of 1990	Biodiesel is the only renewable fuel that meets the standards set forth in amendments.

Energy Policy Act of 1992	Defined the list alternative fuels, which included biodiesel and biodiesel blends; required covered fleets to acquire a certain percentage of alternative fuel vehicles on an annual basis.
Energy Policy Act of 1998	Included a provision that allowed government vehicle fleets to comply with the targets specific in the EPA Act of 1992 by using biodiesel instead of investing in more fuel-efficient vehicles.
Executive Order 13134 (1999)	Called for the increased use of farm products, including agriculturally based biodiesel.
Executive Order 13149 (2000)	Called for a 20 percent cut in petroleum use by federal fleets.
Federal Energy Bill of 2002	Legislated an excise-credit for biodiesel when it was blended with petroleum diesel: an incentive for petroleum blenders to “splash blend” biodiesel with petroleum diesel in proportions ranging from two percent biodiesel (“B2”) to 20 percent biodiesel (“B20”) in order to claim the tax credit
American Jobs Creation Act of 2004 (HR 4520)	Created a \$1/gallon tax credit for biodiesel when it was blended with petroleum diesel.
Energy Policy Act of 2005	Established a renewable fuel volume mandate under the Renewable Fuel Standard (RFS1) program, which mandated 7.5 billion gallons of renewable fuel to be blended into gasoline by 2012.
Energy Independence and Security Act (2007)	Revised the RFS1 program and introduced RFS2, with the following amendments: it specifically included a consumption target of one billion gallons of biodiesel by 2012; it increased the volume of renewable fuel required to be blended into transportation fuel from 9 billion gallons in 2008 to 36 billion gallons by 2022; it established new categories of renewable fuel; and it required the EPA to apply lifecycle greenhouse gas performance threshold standards to ensure that renewable fuels emitted fewer greenhouse gases than petroleum fuel.
Unemployment Compensation Extension Act of 2010	The biodiesel tax credit was included for renewal as part of this bill introduced in the House in early December 2009. However, the final version of the bill, signed into law by President Obama in July 2010, did not include the biodiesel tax credit (Pub. L. 111-205).
Tax Relief, Unemployment Reauthorization, and Job Creation Act of 2010	Retroactively reinstated the biodiesel tax credit, allowing producers who had continued to make fuel to claim credits for the entire lapsed period in 2010, and extended the credit to December 31, 2011 (Pub. L. 111-312)
American Taxpayer Relief Act of 2012	Retroactively reinstated the tax credit for the lapsed period in 2012, and set it to expire on December 31, 2013. (Pub. L. 112-240)

*Table 2. Legislative Events Related to Biodiesel*

Comparing the emerging narrative from our data with the literatures on market emergence in regulated industries, and collective political action, we recognized an

1  
2  
3 opportunity to develop theory about the intersection of these activities in the biodiesel  
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5 context. We show that while consumers played a surprisingly small role in the market's  
6  
7 emergence and growth, the biodiesel association expended considerable time and energy to  
8  
9 lobby the government and biodiesel producers to shape the demand for and supply of  
10  
11 biodiesel. We found that the trade association's successive strategies of political action  
12  
13 marked important turning points in the formation and growth of the biodiesel market. This  
14  
15 led us to use concepts from the political action literature to organize our empirical narrative  
16  
17 and make sense of how the field's key actors coalesced around the objective of growing the  
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19 biodiesel market through a collective political action strategy.  
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## 25 Findings

### 27 **Period One (1992-1998): Market Formation on the Heels of New Policy Opportunity**

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30 Prior to the 1990s, a scattering of scientists in agricultural schools in the U.S. had conducted  
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32 research to test the viability of biodiesel in a variety of use cases, from passenger vehicles to  
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34 farming equipment, however, these efforts had been disconnected, experimental, and sporadic  
35  
36 (Pahl, 2008). It was in 1992 that the Energy Policy Act (EPAAct) for the first time listed  
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38 biodiesel among various types of alternative fuels that the Department of Energy  
39  
40 "encouraged" the nation to adopt, thus creating a potential yet vague market opportunity for  
41  
42 biodiesel.<sup>1</sup> Importantly, being categorized as an 'alternative fuel' meant that biodiesel could  
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44 potentially be used by federal and state government fleets to meet government mandates  
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52 <sup>1</sup> The Energy Policy Act of 1992 (EPAAct 1992) included the following mention of biodiesel (emphasis added):  
53 "The EPAAct of 1992 aims to reduce U.S. dependence on imported petroleum and improve air quality by  
54 addressing all aspects of energy supply and demand, including alternative fuels, renewable energy, and energy  
55 efficiency. EPAAct 1992 encourages the use of alternative fuels through both regulatory and voluntary activities  
56 and approaches the U.S. Department of Energy (DOE) carries out. It requires federal, state, and alternative fuel  
57 provider fleets to acquire alternative fuel vehicles. EPAAct 1992 also defines "alternative fuels" as: methanol,  
58 ethanol, and other alcohols; blends of 85% or more of alcohol with gasoline (E85); natural gas and liquid fuels  
59 domestically produced from natural gas; propane; hydrogen; electricity; **biodiesel (B100)**; coal-derived liquid  
60 fuels; fuels, other than alcohol, derived from biological materials; and P-Series fuels, which were added to the  
definition in 1999. (Alternative Fuels Data Center, 2013; emphasis added).

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3 concerning alternative fuel vehicles. However, there was no industry or commercial market  
4 for biodiesel at this point, and the product was not registered as a legally sellable road grade  
5 fuel in the country.  
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10 ***Seeding the nascent market.*** The potential market opportunity presented by the EPA  
11 Act of 1992 was first recognized and pursued on an industrial scale by soybean farmers, represented  
12 collectively by the American Soybean Association and its associated marketing, research, and  
13 communication arm, the United Soybean Board.<sup>2</sup> As the largest producer and exporter of  
14 soybeans in the world, American soybean producers historically had faced the problem of  
15 having greater demand for soy meal than for its byproduct, soy oil (Pahl, 2008). The EPA  
16 Act of 1992 presented them the opportunity to address this problem by promoting soy oil as a raw  
17 material, or feedstock, for biodiesel.  
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28 Due to a long history of agricultural lobbying, the American Soybean Association  
29 (ASA) had the political capabilities to undertake the task of developing and expanding a new  
30 product category in the heavily regulated market for road grade fuels. In 1992, the ASA and  
31 United Soybean Board convened the National Soydiesel Development Board, tasked with  
32 promoting a product they initially labeled “soydiesel.” In 1994, the National Soydiesel  
33 Development Board incorporated additional feedstock growers (e.g., canola farmers, rapeseed  
34 farmers) into their ranks and changed their name to the National Biodiesel Board (NBB). From  
35 1994 onwards, the NBB became the industry association that spearheaded efforts to establish  
36 biodiesel as a new fuel category in the United States.  
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48 ***Generating regulatory approval for the new market.*** All on-road fuel must pass a battery  
49 of health and emissions testing before it can legally be sold in the United States. Between 1994  
50 and 1998, the National Biodiesel Board (NBB) worked with representatives from the American  
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59 <sup>2</sup> The ASA is a trade association that has represented the interests of soy farmers in the halls of state and federal  
60 government since its founding in 1920.

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3 Society for Testing and Materials (ASTM) to develop fuel specifications for biodiesel so that  
4 the new fuel product could be registered as a road-grade fuel. The NBB coordinated emissions  
5 testing required by the Environmental Protection Agency (EPA), and carried out additional  
6 health effects testing required by the Clean Air Act amendments of 1990 (EPA, 2007).<sup>3</sup> An  
7 industry analyst at the National Renewable Energy Laboratory explained how the NBB worked  
8 with these regulatory bodies to register biodiesel as a legally saleable fuel in the United States:  
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17 There's this long, long, long list of regulatory and technical hurdles that have  
18 to be overcome in terms of registering with the EPA, and doing health effects  
19 testing for EPA, and developing ASTM standards... The NBB has really been  
20 central to the effort to make those things happen. They've coordinated it, they  
21 organized it, funded it, or gotten money from the federal government to fund  
22 it. And I think that is in many ways responsible for the growth of the industry.  
23  
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25  
26 During this period, the NBB's political influence activities were aimed at regulatory  
27 categorization—that is, establishing biodiesel as a legally saleable, regulated fuel product  
28 according to the EPA. Once this milestone had been achieved, the trade association turned its  
29 attention to the issue of on-road adoption. The NBB initially targeted two key audiences –  
30 engine manufacturers and legislators – to make the case for on-road use of biodiesel.  
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37 ***Garnering commitments from adjacent industries.*** Once the EPA emissions testing and  
38 registration was finalized, the NBB turned its attention to the issue of running biodiesel in  
39 regular diesel engines. Although biodiesel is a near-perfect substitute for petroleum diesel in  
40 most use cases, it behaves differently in extreme temperatures and can create technical  
41 problems for the engine in some climate conditions. Moreover, because biodiesel was targeted  
42 for use in heavy machinery and larger vehicles (such as municipal buses) in federal and state  
43 government fleets, the cost of potential engine problems would be high both in terms of safety  
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55 <sup>3</sup> The EPA requires producers to take the following steps before they are allowed to legally sell their fuel: (1)  
56 provide the EPA with information about the feedstocks used to produce biodiesel; (2) give a description of the  
57 manufacturing process used to produce biodiesel; (3) provide emissions and health effects testing on the  
58 manufacturer's biodiesel, or alternatively give proof of registration with the National Biodiesel Board (NBB)  
59 showing access to the Tier 1 and Tier 2 emissions and health effects testing data; and (4) produce test results  
60 from a representative sample of the manufacturer's biodiesel demonstrating compliance with the parameters  
specified in ASTM D 6751 (EPA, 2007).

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3 and in terms of disruption to business. The NBB therefore needed to obtain the support of a  
4  
5 key adjacent industry, the original equipment manufacturers, to convince them to build and test  
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7 diesel engines with biodiesel in mind. An executive at the NBB recounted the political  
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9 influence work that he and his colleagues undertook over the years to obtain buy-in from  
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11 original equipment manufacturers, and how this commitment was critical for the early growth  
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13 of the market because it enabled biodiesel to be adopted by government fleets:  
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17 We have support for biodiesel from the original equipment manufacturers. We  
18  
19 have all of the diesel engine manufacturers supporting at least 5% biodiesel in  
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21 the engines. We had a lot of the engine manufacturers saying, “Well, you know,  
22  
23 [the biodiesel] industry may not be around for long. We’re going to spend all our  
24  
25 money building and testing engines to make sure they run on biodiesel. So, it  
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27 was a lot of effort on our part to say, yes, we’re going to be around, and with all  
28  
29 these different feedstocks that we can use to make biodiesel. So, you need to  
30  
31 invest and build engines that will run on biodiesel.” And that’s something that  
32  
33 everybody...producers around the country needed, so that was something that  
34  
35 really made sense for us to pool our resources and go to the original equipment  
36  
37 manufacturers with one consistent message that: Yes, we’re going to be a real  
38  
39 contender. We want you to build engines that will burn our fuel.  
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42  
43 As this quote indicates, obtaining the support of engine manufacturers was crucial to the  
44  
45 establishment of biodiesel as a new fuel category compatible with the technical standards of  
46  
47 the industry. As the NBB proactively lobbied engine manufacturers in this way, it  
48  
49 simultaneously sought to influence legislators to shape policy mandates to define a use case for  
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51 biodiesel as an alternative fuel used in government fleets.  
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54  
55 ***Lobbying for amendments to new policy.*** While the original EPA Act of 1992 mentioned  
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57 biodiesel as a type of fuel product that could be used to meet the federal government’s  
58  
59 alternative fuel targets, it did not specify how this could be done in practice. In fact, the way  
60  
the original legislation was written, biodiesel could not directly benefit from the policy because  
the EPA Act required that federal, state, and public utility fleets purchase ‘alternative fuel  
vehicles’, not ‘alternative fuels’, to reduce their reliance on petroleum. This wording of the  
policy did not benefit biodiesel because biodiesel was not used in alternative fuel vehicles.  
Rather, it could be used in any regular diesel engine. As one trade association executive recalls,

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3 as soon as biodiesel had been successfully categorized as an on-road fuel by completing the  
4  
5 EPA testing and registration process, the NBB believed they had grounds to lobby lawmakers  
6  
7 to amend the EAct to allow biodiesel to count towards the alternative fuel vehicle  
8  
9 requirement. Government fleets would then be able to meet the EAct requirement by using  
10  
11 biodiesel in their existing diesel fleets, rather than purchasing alternative fuel vehicles. The  
12  
13 trade association employee explained,  
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16  
17 We got an amendment to that law...because biodiesel is not an alternative fuel  
18  
19 vehicle, we're just an alternative fuel that's used in conventional vehicles. We're  
20  
21 really unique in that way. So, we couldn't even participate in the one federal  
22  
23 alternative fuel policy that we had, that was very limited to government fleets.  
24  
25 We got an amendment that said you can get a credit for an alternative fuel vehicle  
26  
27 to meet your requirements by simply buying certain volumes of biodiesel and  
28  
29 using it in your conventional diesel fleet.  
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33 This amendment was the first piece of federal government legislation to specify how biodiesel  
34  
35 could be used to meet the policy goals set forth in the EAct of 1992, and marked a turning  
36  
37 point in the market's growth. Secondary data suggest that NBB executives and executives from  
38  
39 major biodiesel firms influenced the amendment of the EAct by providing testimony to the  
40  
41 Subcommittee on Energy and Power, a subgroup of the United States House Committee on  
42  
43 Energy and Commerce.<sup>4</sup>  
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47 The NBB also coordinated an emissions testing program with the National Renewable  
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49 Energy Laboratory (NREL), which is a laboratory of the U.S. Department of Energy, to  
50  
51 demonstrate the benefits of biodiesel. This testing program resulted in an analysis published by  
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55 <sup>4</sup> For example, the House Report on the Energy Conservation Reauthorization Act of 1998 states that the following  
56  
57 individuals, who were early advocates of the biodiesel industry, provided testimony at a hearing regarding the  
58  
59 EAct: The [Subcommittee on Energy and Power] also held a hearing on July 21, 1998, on H.R. 2568, the Energy  
60  
Policy Acts Amendments of 1997. The Subcommittee received testimony from: Mr. Thomas Gross, Deputy  
Assistant Secretary for Transportation Technologies, Office of Energy Efficiency and Renewable Energy, U.S.  
Department of Energy; Mr. Jim Gay, **President, National Biodiesel Board**; Mr. Russell Teall, **Chairman,  
Biodiesel Development Corporation**, Mr. John Campbell, Corporate **Vice President, AG Processing**; Mr.  
Robert Sellers, Maintenance Supervisor, Kansas City Area Transportation Authority; Mr. Gilbert Sperling,  
General Counsel, Natural Gas Vehicle Coalition. (*H. Rpt. 105-727, p.10, emphasis added*)

1  
2  
3 the NREL, the findings of which were then cited in a House Report on the Energy Conservation  
4  
5 Reauthorization Act of 1998, laying out several arguments in favor of allowing biodiesel  
6  
7 purchases to fulfill EPCRA requirements in lieu of requiring the purchase of alternative fuel  
8  
9 vehicles. As the House Report describes,

12 First, [adoption of biodiesel] would reduce U.S. dependence on foreign oil. The  
13 U.S. transportation sector relies almost exclusively on petroleum, and biodiesel  
14 would replace petroleum. Second, biodiesel reduces greenhouse gas emissions.  
15 According to the NREL report, “[d]isplacing petroleum diesel with biodiesel in  
16 urban buses is an extremely effective strategy for reducing CO2 emissions.”  
17 Third, biodiesel would help reduce air pollution and related health risks.  
18 Biodiesel substantially reduces some pollutants – particulates, carbon monoxide,  
19 and sulfur dioxide. The Environmental Protection Agency targets these three  
20 emissions because they pose public health risks, especially in urban areas.  
21 Biodiesel increase hydrocarbon life cycle emissions, but lowers tailpipe  
22 emissions. Biodiesel increase NOx emissions slightly. Fourth, biodiesel benefits  
23 the domestic economy, by reducing spending on foreign oil imports. (*H. Rept.*  
24 *105-727, p. 9*)

29  
30 The report went on to argue that the Department of Energy’s alternative fuel policy was  
31 underperforming due to the way the policy was designed: “One reason the DOE alternative  
32 fueled vehicle programs are failing to reduce consumption of petroleum motor fuel is that the  
33 EPCRA programs do not require use of alternative fuel in alternative fueled vehicles” (*ibid*, p.  
34 9). Thus, the report argued for counting biodiesel used in conventional diesel engines towards  
35 the federal government’s alternative fuel vehicle requirement.

36  
37 As these data show, the NBB, along with its members, carried out a multi-faceted  
38 political influence campaign by providing testimony, sponsoring research reports, garnering  
39 the buy-in of engine manufacturers, and doing the work of emissions testing and EPA  
40 registration to advocate for the benefits of biodiesel as a means of reducing the nation’s  
41 consumption of petroleum. As a result of these efforts, the EPCRA of 1998 was amended to  
42 specify how biodiesel could be used to meet alternative fuel requirements, thus transforming  
43 an initial favorable but vague regulatory categorization by the EPA into concrete growth  
44 opportunities for the biodiesel market. As we further explain in the next section of our findings,

1  
2  
3 the successful EPCa amendment of 1998 established a large ‘obligated’ consumer base of  
4 government fleets. The NBB’s actions between 1992 and 1997 thus supported the initial  
5 formation of the biodiesel market in the U.S. During this time period, the trade association also  
6 became the *de facto* gatekeeper of the nascent industry because the EPA gave NBB control  
7 over all emissions testing data. The NBB’s compliance work with the EPA thus allowed  
8 biodiesel to become a self-regulating industry, with the NBB acting as the overseer of fuel  
9 quality.  
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### 20 **Period Two (1998-2008): Pursuing Market Growth by Lobbying for an Expanded** 21 **Policy Mandate while Consolidating Industry Membership**

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24 Between 1998 and 2008, the NBB proactively campaigned biodiesel users and legislators to  
25 adopt significantly greater quantities of biodiesel in order to grow the market. At the same time,  
26 the NBB tried to manage the competing factions that were emerging among its increasingly  
27 diverse producer base. To do this, the NBB adopted a “one tent” strategy of consolidating  
28 diverse producers, which helped the industry retain political support over time.  
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36 *Lobbying consumers to realize market growth.* The EPCa of 1998 created the  
37 biodiesel industry’s first set of obligated consumers, comprising state and federal government  
38 fleets. After the passage of the amended EPCa, which specified that biodiesel could be adopted  
39 in government fleets in lieu of purchasing alternative fuel vehicles, the NBB invested resources  
40 to educate fleet managers about the amendment’s implications for everyday use in their fleets.  
41 As one member of the NBB executive team recounts, fleet managers were often unaware of  
42 the near-perfect substitutability of biodiesel for petroleum diesel. NBB representatives thus  
43 embarked on a campaign to educate fleet managers about adopting biodiesel in their operations.  
44 As one trade association employee recounts,  
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57 When I started educating fleet managers about this, they were just like, it was  
58 too good to be true for them...“So, I don’t have to go out and spend an extra  
59 \$65,000 on a natural gas vehicle or a natural gas conversion kit? I don’t need  
60

1  
2  
3 to spend \$1.2 million on a natural gas fueling station? And I don't have to  
4 worry about, you know, natural gas vehicles exploding on my drivers?"... I  
5 said, "Yeah, do you have diesel fuel tanks on your lot?" "Yeah, we've got a  
6 diesel fuel tank." "Okay. Here's what you do. The next time you order, call  
7 your fuel supplier and tell him the next time he fills up your tank, deliver B20,  
8 and you have just converted your entire diesel fleet to alternative fuel." They're  
9 like, "No, that can't be right!" "No, it is right, and you'll get EPC credits for  
10 it, and it's the cheapest and easiest way to comply with EPC."

11  
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14 This educational campaign was highly effective in increasing the demand for biodiesel.  
15  
16 In the nine months following the amended EPC, there was a 700 percent increase in biodiesel  
17 consumption. As the market for biodiesel grew however, so did the factions who were using  
18 different feedstocks in their production process.  
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22  
23 *Consolidating factions within the industry.* From its founding, the NBB contended  
24 with feedstock diversity among biodiesel producers. That is, producers relied on feedstocks  
25 ranging from soy and other vegetable oils, to animal fats and trap grease from wastewater  
26 processing plants. Although the industry was formed initially through the efforts of soy  
27 producers, the trade association deliberately adopted what it called a "one tent" approach that  
28 advocated for a unified biodiesel category encompassing diverse producer groups. A research  
29 scientist at the USDA Agricultural Research Service commented on the NBB's decision early  
30 in the market formation process to embrace feedstock diversity among its members:  
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42 Back then, when it was all soy, the National Biodiesel Board had a choice to  
43 make: We know soy works. We get a lot of our money from soy. They could  
44 have just said: Screw all those guys that are making biodiesel out of cow fat,  
45 peanut oil and canola oil. Get your own organization. But, rather [NBB leaders]  
46 were *extremely* out front saying: **This is one tent. All feedstocks fit, and there**  
47 **is no discrimination between feedstocks.** They designed the ASTM spec to  
48 accept any fatty acid ester, any source; it didn't matter...if you read the ASTM  
49 spec, it doesn't say that the biodiesel has to come from soybean oil.  
50  
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54 This "one tent" approach, however, was challenged when a grassroots community of "B100"  
55 (pure biodiesel) advocates emerged in the mid-2000s.  
56  
57

58 The B100 community was a group of small-scale, sustainability-oriented producers  
59  
60

1  
2  
3 who saw biodiesel as part of a proliferation of locally viable models of energy production and  
4 distribution, such as small-scale solar and wind energy. The ethos of B100 producers was to  
5 make fuel for their community's needs, using resources available in their local area, such as  
6 waste vegetable oil collected from restaurants. Initially, the B100 producer community  
7 developed independently from the NBB and was unaware of the presence of the trade  
8 association. However, starting in 2003, a scattering of B100 advocates distributed across the  
9 United States began to increase the scale of their biodiesel production, and in doing so,  
10 confronted the regulatory hurdles of making and selling road-grade fuel in the United States,  
11 specifically the need to be compliant with EPA regulations. Complying with EPA regulations  
12 required producers to access the health effects data for emissions testing that was under the  
13 control of the NBB, and which the trade association only provided to its members. However,  
14 the NBB's membership fee was not targeted to these small producers, the lowest rate being  
15 \$5,000 annually plus a variable volumetric rate per year. Once these costs were taken into  
16 account, making small batches of fuel from waste vegetable oil became prohibitively  
17 expensive. As one B100 cooperative founder stated,

18  
19 I always had intentions to be a biodiesel producer, and then realized that with  
20 especially the way things are regulated, it's really hard to be a community-scale  
21 producer, anything under a million gallons a year. By the time you end up  
22 filling all your requirements for regulatory stuff, you're like, 'Well, if you're  
23 going to do 50,000 gallons a year, it's going to cost you the same amount  
24 virtually to do a million gallons a year.  
25  
26

27  
28 As a result of the high cost of joining the NBB to satisfy regulatory requirements, small-scale  
29 producers felt shut out from their own trade association and effectively shut out from  
30 participating in the commercial market. A former small-scale producer recollected:

31  
32 There was this tension between the small-scale grassroots and the big-scale  
33 industry. Part of it, by the way, was that the NBB, they had come from the  
34 soy industry, they didn't know about this grassroots. It sort of took them by  
35 surprise that there was this grassroots community. Their membership rates  
36 weren't appropriate to small scale [who were] mostly scraping by. So, that  
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3            angered the grassroots community quite a bit.  
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6        The NBB in turn did not want a B100 faction to branch off from mainstream producers and  
7  
8        undermine the market's identity as producing a fuel product that could be seamlessly adopted  
9  
10       in diesel engines regardless of feedstock or production technology.  
11

12            The trade association responded to the concerns of B100 producers in several ways. In  
13  
14        2004, the NBB lowered the minimum price of membership from \$5000 to \$2500, to make it  
15  
16        more affordable for smaller producers. The NBB also created a working group to discuss how  
17  
18        to integrate the needs of the B100 into their activities. They also merged the annual NBB  
19  
20        conference with the yearly meeting of the B100 producers starting in 2006. In a blog post  
21  
22        published in 2005, one prominent B100 producer, who played a key role in negotiating with  
23  
24        the NBB for the small producer membership category, commented on the trade association's  
25  
26        'one tent' approach:  
27  
28

29  
30            Something you have to realize is that the NBB has a devil of a time speaking  
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32            for its members. Its members are diverse, with their own agendas, and their  
33  
34            own axes to grind, and some of them would no doubt love to live in a world  
35  
36            in which there was no grassroots agitation [by the B100]. And something the  
37  
38            NBB has to know about us: no one speaks for our membership. We are  
39  
40            diverse, with our own agendas, and our own axes to grind. And some of us  
41  
42            would love to live in a world in which we could sell fuel, unfettered by the  
43  
44            NBB. The reality is that NBB has to put up with us. And we benefit from the  
45  
46            existence of the NBB. We are strange bedfellows, but we are in bed just the  
47  
48            same.  
49

50            This blog post directed at the B100 community shows how grassroots producers began  
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52        to see their fate as being tied to that of the commercial industry. As we show in the next section  
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54        of our findings, when the biodiesel market was threatened with unfavorable regulatory re-  
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56        categorization, the unified messaging of its members helped the NBB to fend off threats to its  
57  
58        claim to being a renewable fuel and thereby retain the support of policymakers.  
59

60            ***Lobbying for an expanded policy mandate to increase demand.*** While the amended  
EPA Act of 1998 triggered rapid growth in biodiesel production to meet demand, compared to

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2  
3 the overall volume of diesel fuel sold in the United States, these figures were still paltry. To  
4  
5 further grow the biodiesel market, the NBB continued to lobby the federal government for  
6  
7 legislation that would increase mandated consumption. To this end, the NBB successfully  
8  
9 lobbied to include biodiesel in the Energy Policy Act of 2005, which laid out the first  
10  
11 Renewable Fuel Standard (RFS1) program. This program established a national renewable  
12  
13 fuel volume mandate and dramatically expanded the population of obligated consumers of  
14  
15 biodiesel to include all producers and distributors of petroleum. A biodiesel producer based in  
16  
17 the Midwest explained the changes that RFS1 brought to the biodiesel industry:  
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19

20  
21 [The RFS1] requires oil producers and distributors to blend a certain amount  
22  
23 of renewable fuel in with their fuels, and so our markets are large oil producers  
24  
25 and distributors. And then we also have some end users, such as truck stops  
26  
27 and those types of facilities who will take our product and blend it with diesel  
28  
29 fuel to be sold at their stations.

30  
31 The policy victory of the EPAct of 2005 dramatically increased demand for biodiesel.  
32  
33 At the same time that the NBB lobbied for this legislation, they also lobbied the government  
34  
35 for a federal tax credit for producers to bolster the supply side of the market. The volumetric  
36  
37 excise tax credit (VETC), or the “blender tax credit” as it was commonly called, was signed  
38  
39 into law in 2004 under the subtitle, “Tax Relief for Agriculture and Small Manufacturers”  
40  
41 under the American Jobs Creation Act of 2004 (Pub. L. 108-357).<sup>5</sup> Even though the impetus  
42  
43 for the tax credit was biodiesel’s promise for job creation and employment rather than its  
44  
45 promise as a renewable energy source, this was still a crucial policy achievement for the NBB  
46  
47 and the industry. The number of biodiesel producers and the volume of biodiesel production  
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51  
52 <sup>5</sup> According to the U.S. Department of Energy, the volumetric excise tax credit (VETC) operates under the  
53  
54 following conditions: A biodiesel blender that is registered with the Internal Revenue Service (IRS) may be  
55  
56 eligible for a tax incentive in the amount of \$1.00 per gallon of pure biodiesel, agri-biodiesel, or renewable  
57  
58 diesel blended with petroleum diesel to produce a mixture containing at least 0.1% diesel fuel. Only blenders  
59  
60 that have produced and sold or used the qualified biodiesel mixture as a fuel in their trade or business are  
eligible for the tax credit. The incentive must first be taken as a credit against the blender's fuel tax liability; any  
excess over this tax liability may be claimed as a direct payment from the IRS (*U.S. Department of Energy  
website, 2013*).

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3 increased significantly after the American Jobs Creation Act of 2004. Both the NBB, and state  
4  
5 level trade organizations worked to encourage entrepreneurial activity in the market at this time  
6  
7 (Hiatt and Carlos, 2018). As a result of these political influence efforts, the volume of biodiesel  
8  
9 produced in the U.S. increased from 112 million gallons in 2005 to nearly 700 million gallons  
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11  
12 in 2008.  
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15 Thus, this second period of market creation was marked by growth in both demand and  
16  
17 supply of biodiesel. During this period, the NBB expanded its membership base by accounting  
18  
19 for smaller B100 producers who operated in different local contexts. By extending discounted  
20  
21 membership to smaller producers, the NBB was able to bring them into the fold with the goal  
22  
23 of maintaining an unfragmented market where all types of biodiesel could trade under the  
24  
25 auspices of the original regulatory categorization achieved by the NBB. At the same time, the  
26  
27 NBB lobbied for policy amendments that expanded the consumer base for biodiesel. The new  
28  
29 EAct mandate targeted petroleum producers and distributors, thus exponentially growing the  
30  
31 market for biodiesel.  
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### 36 **Period Three (2008-2012): Entrenching the Biodiesel Market in the Energy Sector**

37  
38 *Lobbying to renew the policy mandate to support the growth of the market.* In 2008, the  
39  
40 EAct was to be renewed by policymakers, and the NBB faced doubt about whether the revised  
41  
42 Renewable Fuel Standard program (RFS2) would categorize biodiesel produced from  
43  
44 agricultural feedstocks such as soy oil as an “advanced biofuel.” This categorization was  
45  
46 crucial since it determined whether biodiesel would continue to qualify for mandated  
47  
48 consumption by petroleum distributors and producers under the revised RFS2. Concerns over  
49  
50 biodiesel’s categorization as an advanced biofuel in fact dated back to a threat to biodiesel’s  
51  
52 claim to sustainability between 2004 and 2008, when environmental movement organizations  
53  
54 questioned the sustainability of biodiesel made from certain virgin oilseed feedstocks – one  
55  
56 key target being soy oil (Hiatt and Carlos, 2018). In addition to questions about its  
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3 sustainability, biodiesel faced a definitional problem; many policymakers thought that  
4  
5 ‘advanced biofuels’ should only refer to fuels produced from innovative feedstocks like algae.  
6  
7 Thus, in this third stage of market growth, representatives for the biodiesel industry once again  
8  
9 found themselves having to shape the regulatory categorization of their product in order to  
10  
11 maintain critical policy support.  
12  
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14  
15 The NBB engaged in protracted negotiations with the EPA to resolve the status of  
16  
17 biodiesel made from virgin oil feedstocks. A senior member of the NBB executive team  
18  
19 recounts the efforts of the trade association during this period:  
20

21  
22 At that point the [RFS2] was still in the rule-making process. There was  
23  
24 discussion that initially biodiesel from soybean oil or from vegetable oil was  
25  
26 not going to be included in the advanced biofuel category. So, there was a  
27  
28 significant amount of effort on our part to get those comments, to do that  
29  
30 grassroots effort to tell the EPA: Whoa, whoa, whoa. Wait a second. We have  
31  
32 this data that says it should qualify. And so, I think we submitted like 400 pages  
33  
34 of comments on the life cycle process of soy oil, demonstrating that it does  
35  
36 have a 50 percent greenhouse gas reduction compared to petroleum. And so,  
37  
38 that whole process, that was very significant. Ensuring that oil from...virgin  
39  
40 oil, virgin vegetable oil could be included in the [RFS2] was very significant.  
41

42  
43 Ultimately, these efforts were successful, and biodiesel achieved regulatory re-categorization  
44  
45 to be counted as an advanced biofuel under RFS2.  
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49 After the passing of the RFS2, the NBB’s executive team launched a campaign to  
50  
51 educate legislators about the technical qualities of biodiesel to prevent future challenges to  
52  
53 biodiesel’s definition as an advanced biofuel. The NBB thus worked to ensure that biodiesel  
54  
55 would be included in future consumption mandates for renewable fuels. One NBB executive  
56  
57 explained:  
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60  
61 It was key that biodiesel claim its identity as an advanced biofuel. We were  
62  
63 defined as an advanced biofuel [in the EPAAct amendment and RFS2], now we  
64  
65 needed people to know about it. And so, that’s where the project that we call  
66  
67 the “Advanced Biofuel Initiative” started...We saw this real clear distinction  
68  
69 in the press between this concept of first-generation and second-generation  
70  
71 fuels, or conventional and advanced. And it became very clear that what was  
72  
73 going to happen in D.C. or in policy generally was that there would be an up-  
74  
75 swell of support for this new concept, this non-conventional, second-

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3 generation, better-performing, whatever that entailed.  
4

5 The NBB's continued efforts to lobby policymakers for favorable legislation, and to educate  
6 policymakers further on the technical qualities of biodiesel all highlight the market's  
7 continuing policy dependence, which was reflected in the trade association's evolving political  
8 action strategy.  
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15 ***Mobilizing diverse producers to univocally lobby for policy support.*** In the wake of  
16 the uncertainty created by the RFS2, the NBB, as part of its one tent approach, engaged in a  
17 constituency building strategy by calling on its broad producer base to deliver a unified  
18 message to legislators to garner support for the industry. The NBB's goal was to ensure that  
19 "all feedstocks be included in future mandates" (Fieldnotes). To obtain this encompassing  
20 regulatory support for biodiesel made from diverse sources ranging from soy oil to animal fats  
21 to trap grease, the NBB wanted to ensure that producers appealed to their elected officials with  
22 one voice. An employee of the trade association explained the importance of this lobbying  
23 campaign by highlighting the industry's dependence on federal energy policy. He said,  
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35 When it comes right down to it, the biodiesel industry lives or dies based on  
36 public policy. We have to have a public policy to help get biodiesel in the  
37 market, because we can't compete economically with petroleum, because  
38 petroleum externalizes so much of the true cost to society. So, we need a policy  
39 because even if we are successful in a few seasons producing biodiesel, all it  
40 would take OPEC is a couple years of opening the valves, flooding the market,  
41 and driving the price down and driving out our new business ventures.  
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45 As a product market dependent on policy support, the NBB did not want any fragmentation  
46 among its diverse producer groups which could complicate or undermine the image of biodiesel  
47 for policymakers and risk its regulatory categorization. A one tent approach and lobbying with  
48 a single message was thus key.  
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54 To orchestrate such unified political action, the NBB provided specific statements or  
55 requests that members should make of their state representatives. A producer based in  
56 Maryland described the NBB's grassroots mobilization efforts: "[The NBB will] come to us  
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3 and say, 'Look, you guys need to reach out to your senators and congressmen - this is the  
4 message we need taken to Washington.' And you know, I lived right outside of Washington so  
5  
6 I could go down to the Hill anytime I wanted and knock on doors." The NBB also funded a  
7  
8 Washington office, and employed a professional lobbyist who commented that, "the real people  
9  
10 from the real industry out in the country are the best lobbyists." Although participation in  
11  
12 policymaking at the federal level is often beyond the purview of the individual biodiesel firm,  
13  
14 informants reported that they made time to deliver the NBB's message. For example, one  
15  
16 producer said, "My employees literally get on the floor. And partner up with a bunch of other  
17  
18 biodiesel companies and get on the floor and say the same message."  
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24 On other occasions, the NBB organized member events in the Washington, D.C. area  
25  
26 to bring producers together and orchestrate collective lobbying. One producer recounted how  
27  
28 an NBB meeting held in Washington D.C. was followed by a series of lobbying efforts:  
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32 They have a meeting in Washington. They'll have an NBB board meeting and  
33  
34 invite all their members and all their farmer members, producer members. And  
35  
36 they'll talk about the state of the industry and talk about what their lobbying  
37  
38 priorities are. And they'll hold a reception in one of the congressional office  
39  
40 buildings and try to get a bunch of congressional staff to come over for free  
41  
42 beer. And then, the next day, they will go to the Hill and all go talk to our  
43  
44 individual congressmen and senators, or try to.  
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50 These grassroots mobilization and lobbying activities helped to reinforce the biodiesel market  
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52 as a population of producers with unified priorities, as well as a strong commitment to  
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54 increasing production to meet increasing demand (in the form of obligated consumption) for  
55  
56 biodiesel, should the government continue to support the industry with favorable legislation.  
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By the conclusion of the study period, biodiesel had become an established fuel in the  
energy sector, with petroleum distributors splash-blending fuel for sale at stations and  
producers continuing to refine and expand the technologies and feedstocks they used to produce  
more advanced types of biodiesel. That said, the uncertainty of biodiesel's status in the EPA's

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3 of 2008, more than 15 years after biodiesel first entered the policy environment, highlights the  
4 fragility of the market. Although biodiesel had enjoyed political support for over 15 years,  
5 renewed policy mandates that would continue to ensure an obligated consumer base were not  
6 guaranteed, and continuing political action by the trade association and its members was critical  
7 to maintaining the market. Table 3 summarizes the foregoing account and highlights the  
8 successive efforts of the trade association to facilitate the emergence and growth of a market  
9 for biodiesel.  
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Insert Table 3  
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## 20 21 22 23 **Discussion**

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25 This study makes two interrelated contributions. The first is to articulate a pathway of new  
26 market emergence and growth that has received relatively little attention: how trade  
27 associations undertake collective political action to support the development of both supply  
28 and demand for a new product in a regulated sector. The second contribution is to extend our  
29 understanding of the role of collective actors in markets more generally, specifically their  
30 ability to manage relationships with regulators and adjacent industries as a means of securing  
31 political support, and more generally how they navigate a market's dependence on fluctuating  
32 political support. Overall, the findings point to the need for more process-oriented research  
33 about markets that depend on public policy to understand how such markets emerge and  
34 stabilize over time. Although product markets dependent on policy support may constitute a  
35 small subset of industries, their role in meeting important national objectives such as energy  
36 security, sustainability, and economic growth make them an important focus of study.  
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## 52 **Contributions to Theory about Policy Influence and New Market Emergence**

53  
54 One key goal of this study was to explore the role of collective actors in new market formation,  
55 especially in regulated industries. From the perspective of firms, prior research shows that the  
56 liability of belonging to new markets may be mitigated when ventures band together to seek  
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3 collective legitimacy with stakeholders like the government, media, and consumers. For  
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5 instance, prior research has looked at how nascent producers join industry associations (Russo,  
6  
7 2001), leverage frames generated by social movements (Sine & Lee, 2009), and join forces to  
8  
9 obtain government certifications (Sine et al., 2007). However, these studies primarily focus on  
10  
11 the identity-building and sense-giving efforts of collective actors to demarcate their nascent  
12  
13 product-market from existing industries (Khaire & Wadhvani, 2010). The process through  
14  
15 which new product markets emerge and grow through the ongoing political activities of  
16  
17 collective actors over time has not been empirically examined in light of the incremental nature  
18  
19 of legislative change (Barley, 2010; Kaynak & Barley, 2019; Lux et al., 2011; Schuler et al.,  
20  
21 2002). This paper addresses this gap in the literature by analyzing how collective actors enact  
22  
23 political influence strategies to manage a market's dependence on government policy support  
24  
25 over time. To our knowledge, the findings of this study represent a novel contribution to the  
26  
27 literature because they show how a specific policy feedback process plays out over time in one  
28  
29 market (Pierson, 1993). Other studies have shown how collective actors can influence  
30  
31 government policies to encourage entrepreneurial entry (e.g., Sine & Lee, 2009) but the  
32  
33 iterative process by which producer firms and their collective actors shape multiple aspects of  
34  
35 public policy, and subsequent policy amendments over time, is not explored in prior research.  
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42 Although prior studies have started to examine the factors that determine whether a new  
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44 market receives political support, nascent theory focuses on structural factors rather than a  
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46 process that unfolds over time. For example, Georgallis et al. (2019) suggest that policymakers  
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48 are more likely to support a nascent industry when it is populated by firms that exclusively  
49  
50 produce the new technology rather than firms that diversify into the new industry from adjacent  
51  
52 industries. Other studies have looked specifically at the regulation of product categories, rather  
53  
54 than at policy changes that support the integration of emergent markets in regulated industries  
55  
56 (Hsu & Grodal, 2021; Ozcan & Gurses, 2018). Thus, our study contributes to the market  
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3 emergence literature by highlighting a novel pathway for market emergence facilitated by  
4 collective political action aimed at creating both demand and supply for a new product.  
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7  
8 At the same time, we show how market growth achieved through political support is  
9 inherently fragile. Unlike product markets that achieve cultural resonance with multiple  
10 audiences (Lempiälä et al., 2019), those that depend primarily on favorable policy and  
11 government action are at risk of fluctuating support from both legislators and the public. This  
12 risk is observed in other industries besides biodiesel, for example in the case of controversial  
13 technologies that gain traction for some time as a result of concerted lobbying, yet ultimately  
14 lose their political backing as a result of negative public sentiment. For example, in the case of  
15 Dutch nuclear energy, the government forged ahead with nuclear expansion policies despite  
16 negative public sentiment, until large-scale nuclear accidents in other countries confirmed the  
17 fears of the anti-nuclear movement and political actors were accused of “misuse of power”  
18 (Geels & Verhees, 2011, p. 927).  
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33 An important question we also address is, how does a trade association emerge around  
34 a political opportunity? Insights from the policy feedback literature can help us explain how a  
35 politically adept trade association such as the NBB emerged even before a market for biodiesel  
36 had come into existence. Policy feedback scholars have long observed that new legislation can  
37 trigger the growth of interest groups, such as trade associations (Walker, 1983). Our findings  
38 highlight how a new energy policy triggered the interest of soybean producers in the  
39 agricultural sector and incentivized them to enter the new market for biodiesel and build the  
40 market from the ground up, including generating a secure demand and reliable supply of the  
41 new product. In addition to successful political influence strategies, the biodiesel trade  
42 association, which was originally formed by soybean producers, carried over ‘conceptions of  
43 control’ or operating logics from the agricultural sector into the new market for biodiesel.  
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3 tactics for competition, the accepted status ordering of firms, and the role of government  
4 (Fligstein, 2018). Conceptions of control rarely arise *de novo*: “New markets borrow  
5  
6 conceptions of control from nearby markets, particularly when firms from other markets choose  
7  
8 to enter the new market. New markets are born in close social proximity to existing markets”  
9  
10 (Fligstein, 2018, p. 78). For instance, in their account of the emergence of recycling in the U.S.,  
11  
12 Lounsbury et al. (2003) depict the political struggles of environmental social movement  
13  
14 organizations to culturally define recycling as an activity, which eventually enabled the rise of  
15  
16 a for-profit recycling industry dominated by solid waste management conglomerates. These  
17  
18 conglomerates moved into the recycling field from the adjacent waste management field, and  
19  
20 carried over their existing conceptions of control, which shaped how recycling became a for-  
21  
22 profit industry. Thus, conceptions of control may be carried over by incumbent firms in  
23  
24 adjacent markets when they diversify into a nascent market (Apajalahti et al., 2018). Having  
25  
26 such shared conceptions of control is key for back-stage coordination of industry members’  
27  
28 interpretation of issues, which is necessary for achieving coherent policy agendas (Mair &  
29  
30 Hehenberger, 2014). We show how in the nascent biodiesel industry, actors from the  
31  
32 established agricultural field defined the opportunity themselves, rather than waiting for  
33  
34 consumers or social activists to create demand for biodiesel. In doing so, they anchored the  
35  
36 nascent market in an existing logic of political influence and patronage. Thus, our findings  
37  
38 highlight how incumbent firms in established industries may be important carriers of  
39  
40 conceptions of control, and paying attention to their motives and resources provides insight  
41  
42 into the possible pathways of a new market’s emergence and growth.  
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### 52 **Contributions to Research on Collective Actors and Market Emergence**

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54 Our second contribution is to identify processes through which collective actors shape the  
55  
56 growth of markets through concerted political influence activities. Existing research on  
57  
58 industry or trade associations has focused on their internal governance and propensity toward  
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3 capture by their most powerful members (Barnett & King, 2008; Barnett, 2013). Trade  
4  
5 associations' ability to manage relationships with regulators, legislators, and adjacent  
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7 industries in the early stages of field emergence has received less attention, though a few studies  
8  
9 do look at their role during times of field-wide change (e.g., Hirsch, 1975; Elsbach, 1994). For  
10  
11 example, Hirsch (1975) shows how before 1950, the American Medical Association (AMA)  
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13 acted as a barrier to the pharmaceutical industry, barring it from advertising any drugs to their  
14  
15 members that had not been approved by the AMA's own Council on Drugs, and prohibiting  
16  
17 generic drugs from being marketed under brand names in their journals. In the early 1950s, this  
18  
19 relationship changed when the AMA sought new sources of revenue, and consultants suggested  
20  
21 that advertising fees paid by pharmaceutical firms could be a key revenue stream. Inferring  
22  
23 from patterns of political activity and personnel mobility between the pharmaceutical trade  
24  
25 association and the AMA, Hirsch concludes that the pharmaceutical industry gained access to  
26  
27 the medical field by funding the AMA's own political mobilization to curtail the role of the  
28  
29 federal government in the healthcare field. Specifically, revenues generated from the  
30  
31 advertising of pharmaceutical firms' products in medical journals was used to fund the AMA's  
32  
33 initiative to stop the creation of national compulsory health insurance. By controlling the  
34  
35 medical field's relationship with adjacent actors, the AMA as a collective actor helped to set  
36  
37 the direction of both fields' growth.  
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45 In emergent product-market domains, when the role of collective actors is considered,  
46  
47 the focus of their work is usually on developing a distinctive market niche (Lee et al., 2017).  
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49 For example, in the case of craft beer, the major industry associations, such as the Institute of  
50  
51 Brewing Studies and the Association of Brewers, developed a classification of craft beer based  
52  
53 on organizational form that differentiated craft brewers from conglomerates through their small  
54  
55 size and traditional production methods (Carroll & Swaminathan, 2000). In another example,  
56  
57 the social movement behind grass-fed beef articulated a set of moral values that clearly  
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3 demarcated the animal husbandry practices in their field from those of conventional cattle  
4 ranchers (Weber et al., 2008). In both cases, collective actors were primarily focused on  
5  
6 appealing to consumers rather than policymakers as a strategy for growth.  
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10 Our study demonstrates how a collective actor contributed to the policymaking process  
11 by shepherding both the technical work required for regulatory (re)categorization and the  
12 political work that that it took to convince policymakers of the technical merits of biodiesel.  
13  
14 The trade association carried out various political influence activities, including demonstrating  
15 regulatory compliance, lobbying policymakers to actively shape the regulatory and legislative  
16 landscape, advocating for the benefits of biodiesel as a fuel source that could lessen the  
17 dependency of the U.S. on petroleum, and finally, grassroots mobilization to encourage small  
18 and large biodiesel producers to lobby their elected officials on behalf of the commercial  
19 industry. Without the trade association's long-term concerted political efforts, it is unlikely the  
20 biodiesel market would have survived beyond the experimental forays of feedstock growers.  
21  
22 Although agricultural conglomerates recognized the market opportunity contained in the  
23 original EPAct, and invested political and financial resources to realize it, the long-term policy  
24 support the market received was the result of a much broader-based effort to transform a policy  
25 opportunity into a market with stable supply and demand relationships.  
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42 Our detailed data on the various political influence activities of the biodiesel trade  
43 association enable a more nuanced understanding of how collective actors manage producer  
44 diversity in emerging markets, and how they channel their influence into the policy feedback  
45 process. Thus, one of the contributions of this study is to highlight the significant role that trade  
46 associations may play in developing a unified policy position for a new product market. We  
47 show how in addition to managing the internal governance of the industry through a "one tent"  
48 approach aimed at resolving the differences between diverse producers, the trade association  
49 corralled its newly consolidated membership around a clear and unified political agenda. The  
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3 process of consolidating and then amplifying a unified political voice enabled the trade  
4 association to exert significant influence on the policymaking process. We argue that prior  
5 research has not considered how members of a nascent product category manage their internal  
6 diversity in the face of long-term policy dependence. Our findings suggest that trade  
7 associations not only enable a sense of community among firms in a field of activity (Spillman,  
8 2012), but may also actively bring together a diverse range of members to support the industry's  
9 political priorities. By creating a national trade association for biodiesel that included all  
10 feedstocks, the NBB pre-empted the possible fragmentation of the industry into multiple sub-  
11 groups seeking government support for their particular type of fuel (e.g., soydiesel, canola  
12 diesel, B100). Instead, the trade association embraced its role as an industry anchor by  
13 consolidating the bargaining power of the various biodiesel producers into a unified bloc. It  
14 was through this unity of voice that biodiesel producers, as a nationally distributed producer  
15 group, could argue for political patronage.

16  
17 Overall, our paper demonstrates how dependence on supportive public policy and  
18 legislation may upend assumptions about policing category membership by establishing strict  
19 criteria related to production methods or organizational form for inclusion. Our findings  
20 suggest that when diverse producers share membership in a politically dependent market, they  
21 may be compelled to collapse the boundaries between the niches that emerge, and to  
22 consolidate their identities in the face of the importance of obtaining policy support from the  
23 government. This finding departs from existing accounts of how categories protect their  
24 legitimacy by policing boundaries (Grodal, 2018; Lee et al., 2017), and suggests that in markets  
25 subject to government support, organizations may pay attention to a different set of driving  
26 factors for their survival, including unity of voice.

### 27 28 29 **Boundary Conditions**

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3 The features of our empirical case raises several boundary conditions for the generalizability  
4 of our findings. Our study highlights that not all industries operate according to free market  
5 dynamics and for those that do not, economic competition will be shaped significantly by non-  
6 market strategy from the very beginning of the market's evolution. This caveat means that our  
7 findings will not generalize to all settings, because in our context, demand was almost entirely  
8 supported by government mandates. While B100 producers were able to tap into a small market  
9 of local consumers who sought to use biodiesel in their diesel vehicles, this demand was  
10 negligible in the context of the petroleum diesel market's overall trading volumes. The vast  
11 majority of consumption resulted from government policies that obligated certain consumer  
12 groups (e.g., government fleets) to purchase biodiesel. However, there are other examples of  
13 how government policy obligates consumers to purchase a product or service. For example, in  
14 the United Kingdom and European Union, the General Data Protection Regulation (GDPR)  
15 adopted in 2016 has created demand for IT services because organizations must comply with  
16 this regulation by demonstrating that they are actively protecting the personal data of  
17 consumers and employees. GDPR policies across European countries have created demand for  
18 services from audit companies to ensure compliance. Other emergent industries in the energy  
19 sector, such as the microgrid industry, may initially grow because of adoption by government  
20 or public-sector consumers, such as universities (Hetzl, 2021). Thus, while our findings apply  
21 most directly to industries that are dependent on government policy, insights from our study  
22 can be used to shed light on dynamics in other regulated industries.

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49 Another boundary condition is the representativeness of the types of political influence  
50 strategies that we observed, accounting for both the particular context of the biodiesel industry,  
51 and the broader American context of our research (Lawton et al., 2013). Our account of the  
52 actions of the biodiesel trade association on behalf of their members' goal of securing and  
53 sustaining political support may not be indicative of the entire range of political influence  
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3 tactics available to other regulated industries, nor will other settings necessarily mirror the  
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5 founding story of the NBB. Our data show that biodiesel producers engaged in political  
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7 influence activities in the early stages of the field formation process, and that most of these  
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9 early influence activities were sponsored by soy producers. We therefore argue that the  
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11 biodiesel field would likely not have developed the way it did if not for the political know-  
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13 how, connections, and financial resources it inherited from the agricultural lobby. Firms  
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15 normally develop political capital over time, which is reflected in the corporate political action  
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17 (CPA) literature's focus on mature firms and industries (Hillman & Hitt, 1999; Schuler et al.,  
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19 2002; Useem 1979; Vogel 1989). However, entering a regulated market may require entrants  
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21 to deploy political capital from the onset – which then limits the number of players that can  
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23 make forays into these markets. In settings in which this concentrated endowment of political  
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25 capital is not evident, we would expect to see a very different approach to political influence  
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27 which may involve a much broader range of stakeholders. In addition, in other empirical  
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29 contexts in which multiple trade associations compete for influence, it is unlikely that the  
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31 relationship that we observed between the NBB's activities and policy amendments would  
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33 necessarily occur in such a direct fashion.  
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40 Another boundary condition on our findings is the unique trajectory of the biodiesel  
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42 industry's development in the United States when compared to other contexts in which a  
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44 biodiesel product market formed. For example, the European Union (EU) has produced billions  
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46 of gallons of biodiesel per year since the early 2000s. Similarly to the biodiesel market in the  
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48 United States, the market in the EU formed in the aftermath of the petroleum shocks of the  
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50 1970s, when governments sought to reduce their reliance on petroleum imports by encouraging  
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52 domestic energy production. However, in contrast to the United States, in the EU, this issue  
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54 was addressed through a common policy across the trading bloc to support the replacement of  
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56 surplus food crops with alternative fuel crops by setting minimum prices and earmarking land  
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3 for the growth of these fuel crops (Kutas et al., 2007). On the back of this increased feedstock  
4 supply, specific mandates to encourage biofuels adoption among member states were put into  
5 effect starting in 1992, and member states independently sought to meet these targets by  
6 implementing a variety of tax incentives, exemptions, and other instruments to encourage  
7 domestic production (Bureau et al., 2010). In contrast to the United States, support for the  
8 industry was largely driven by the earlier bloc-wide political support for alternative crops to  
9 reduce the EU's trade imbalances. The question of whether biodiesel as a fuel product should  
10 be supported through government policy was uncontroversial until the early 2010s when  
11 scientific frameworks for measuring the total carbon impact of growing feedstock crops cast  
12 doubt on their status as a net carbon reducer (Van Noorden, 2013). Retrospective accounts of  
13 the early growth of the EU biodiesel industry from the late 1980s through the early 2000s  
14 suggest that producers enjoyed a munificent financial environment that reflected the bloc's  
15 emphasis on encouraging alternative fuels to petroleum diesel to meet both their energy and  
16 trade objectives. Only when the biodiesel industry faced challenges related to its overall carbon  
17 impact did industry groups come together to lobby against a cap in financial incentives for  
18 production (Van Noorden, 2013). This contrasting trajectory of industrial growth suggests that  
19 the pattern of political influence and incremental legislative support that we see in the  
20 American biodiesel market may be particular to the time and place – and that in many other  
21 countries during the same time period, biodiesel producers enjoyed greater support from their  
22 respective governments due to an initial supply-side rationale for the industry's existence.

### 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 **Directions for Future Research**

52 Future research may be able to further elaborate and clarify the mechanisms of market  
53 emergence when political intervention is crucial to establishing stable demand for a product.  
54 In sectors such as energy production, infrastructure development, and natural resource  
55 extraction, the role of the government and the waging of political influence battles is likely to  
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3 remain central to how these markets evolve over time. As a long tradition of political action  
4 research illustrates, the gears of government grind out compromises and policy shifts that  
5 reflect the lobbying and influence of multiple stakeholders, with firms and their trade  
6 associations representing just one component of this polity. This paper offers an in-depth  
7 analysis of one product market, but as Fligstein (2018, p. 89) notes, “the economic sociology  
8 of capitalist societies is concerned with the construction of massive numbers of markets  
9 operating with different conceptions of control and massive numbers of fields of government  
10 connected to these markets.” Therefore, there is ample opportunity to conduct further research  
11 on the evolution of collective actors, new markets, and policy evolution.  
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24 For instance, future studies might examine how member firms shape an industry’s  
25 political position over time. Because we did not collect data about the political contributions  
26 of individual member firms in the biodiesel trade association, we were not able to trace the  
27 political activities that firms individually pursued to complement the efforts of the NBB. We  
28 suggest that a more detailed understanding of the movement of money and influence would  
29 further clarify how new markets that are dependent on political patronage manage their tenuous  
30 position in times of political turmoil.  
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40 Finally, the U.S. biodiesel market is an ongoing accomplishment in the sense that it  
41 remains to be seen how long political interventions will sustain mandated consumption by  
42 obligated parties. Cases of failure – studies of industries that do not manage to sustain their  
43 position in a market due to a lapse in political support – would reveal further mechanisms of  
44 industrial change by identifying factors that explain how these products fully entrench in the  
45 market, or not.  
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## References

- Aldrich, H. E. (2018). Trade Associations Matter as Units of Selection, as Actors Within Comparative and Historical Institutional Frameworks, and as Potential Impediments to Societal Wide Collective Action. *Journal of Management Inquiry*, 27(1), 21–25.
- Aldrich, H. E., & Fiol, M. C. (1994). Fools Rush in? The Institutional Context of Industry Creation. *The Academy of Management Review*, 19(4), 645–670.
- Alternative Fuels and Advanced Vehicles Data Center. (2011). Biodiesel Production. Retrieved from [http://www.afdc.energy.gov/afdc/fuels/biodiesel\\_production.html](http://www.afdc.energy.gov/afdc/fuels/biodiesel_production.html)
- Apajalahti, E. L., Temmes, A., & Lempiälä, T. (2018). Incumbent organisations shaping emerging technological fields: cases of solar photovoltaic and electric vehicle charging. *Technology Analysis and Strategic Management*, 30(1), 44–57.
- Barley, S. R. (2010). Building an institutional field to corral a government: A case to set an agenda for organization studies. *Organization Studies*, 31(6), 777–805.
- Barnett, M. L. (2013). One Voice, But Whose Voice? Exploring What Drives Trade Association Activity. *Business and Society*, 52(2), 213–244.
- Barnett, M. L. (2018). Beyond the Membership Decision: How Do Trade Associations Manage Firm Involvement? *Journal of Management Inquiry*, 27(1), 10–12.
- Barnett, M. L., & King, A. A. (2008). Good fences make good neighbors: A longitudinal analysis of an industry self-regulatory institution. *Academy of Management Journal*, 51(6), 1150–1170.
- Bernstein, M. (1995). *Regulating Business by Independent Commission*. Princeton, NJ: Princeton University Press.
- Boddewyn, J. J., & Brewer, T. L. (1994). International-Business Political Behavior: New Theoretical Directions. *Academy of Management Review*, 19(1), 119–143.
- Bureau, J. C., Guyomard, H., Jacquet, F., & Tréguer, D. (2010). European biofuel policy: How far will public support go?. *Handbook of Bioenergy Economics and Policy*, 401–423.
- Carpenter, D., & Moss, D. A. (2013). *Preventing regulatory capture: Special interest influence and how to limit it*. Cambridge, UK: Cambridge University Press.
- Clawson, D., & Neustadt, A. (1989). Interlocks, PACs, and Corporate Conservatism. *American Journal of Sociology*, 94(4), 749–773.
- Croidieu, G., & Kim, P. H. (2018). Labor of Love: Amateurs and Lay-expertise Legitimation in the Early U.S. Radio Field. *Administrative Science Quarterly*, 63(1), 1–42.
- Deuten, J. J., Rip, A., & Jelsma, J. (1997). Societal embedding and product creation management. *Technology Analysis and Strategic Management*, 9(2), 131–148.

- 1  
2  
3 Dorado, S. (2005). Institutional entrepreneurship, partaking, and convening. *Organization*  
4 *Studies*, Vol. 26, pp. 385–414.  
5  
6  
7 Dorobantu, S., Kaul, A., & Zelner, B. (2017). Nonmarket strategy research through the lens  
8 of new institutional economics: An integrative review and future directions. *Strategic*  
9 *Management Journal*, 38(1), 114–140.  
10  
11 Eisenhardt, K. M. (1989). Building Theories from Case Study Research. *Academy of*  
12 *Management Review*, 14(4), 532–550.  
13  
14  
15 Elsbach, K. D. (1994). Managing organizational legitimacy in the California cattle industry:  
16 The construction and effectiveness of verbal accounts. *Administrative Science*  
17 *Quarterly*, 39(1), 57–88.  
18  
19  
20 Fligstein, N. (1996). Markets as Politics: A Political-Cultural Approach to Market  
21 Institutions. *American Sociological Review*, Aug, 656–673.  
22  
23 Fligstein, N. (2021). Innovation and the theory of fields. *AMS Review*, 11(3–4), 272–289.  
24  
25 Fligstein, N. (2018). The Architecture of Markets. In *The Architecture of Markets*. Princeton,  
26 NJ: Princeton University Press.  
27  
28  
29 Forbes, D. P., & Kirsch, D. A. (2011). The study of emerging industries: Recognizing and  
30 responding to some central problems. *Journal of Business Venturing*, 26(5), 589–602.  
31  
32 Freeman, J., Carroll, G. R., & Hannan, M. T. (1983). The Liability of Newness: Age  
33 Dependence in Organizational Death Rates. *American Sociological Review*, 48(5), 692-  
34 710.  
35  
36  
37 Gao, C., & McDonald, R. (2022). Shaping Nascent Industries: Innovation Strategy and  
38 Regulatory Uncertainty in Personal Genomics. *Administrative Science Quarterly*, 67(4),  
39 915–967.  
40  
41  
42 Garud, R., Jain, S., & Kumaraswamy, A. (2002). Institutional Entrepreneurship in the  
43 Sponsorship of Common Technological Standards: The Case of Sun Microsystems and  
44 Java. *Academy of Management Journal*, 45(1), 196–214.  
45  
46  
47 Geels, F. W., & Verhees, B. (2011). Cultural legitimacy and framing struggles in innovation  
48 journeys: A cultural-performative perspective and a case study of Dutch nuclear energy  
49 (1945-1986). *Technological Forecasting and Social Change*, 78(6), 910–930.  
50  
51  
52 Georgallis, P. (Panikos), Dowell, G., & Durand, R. (2019). Shine on Me: Industry Coherence  
53 and Policy Support for Emerging Industries. *Administrative Science Quarterly*, 64(3),  
54 503–541.  
55  
56  
57 Getz, K. A. (1997). Research in corporate political action: Integration and assessment.  
58 *Business and Society*, 36(1), 32–72.  
59  
60 Grodal, S. (2018). Field Expansion and Contraction: How Communities Shape Social and  
Symbolic Boundaries. *Administrative Science Quarterly*, 63(4), 783–818.

- 1  
2  
3 Hannan, M., Pólos, L., & Carroll, G. R. (2007). *Logics of Organization Theory: Audiences, Codes, and Ecologies*. Princeton, NJ: Princeton University Press.
- 4  
5  
6  
7 Hart, D. M. (2004). "Business" Is not an interest group: On the study of companies in  
8 American national politics. *Annual Review of Political Science*, Vol. 7, pp. 47–69.
- 9  
10 Hetzel, M. (2021). *How technological frames transform: the case of the global microgrid*  
11 *industry* (Doctoral dissertation, City, University of London).
- 12  
13  
14 Hiatt, S. R., & Carlos, W. C. (2019). From farms to fuel tanks: Stakeholder framing contests  
15 and entrepreneurship in the emergent U.S. biodiesel market. *Strategic Management*  
16 *Journal*, 40(6), 865–893.
- 17  
18  
19 Hiatt, S. R., & Park, S. (2013). Lords of the harvest: Third-party influence and regulatory  
20 approval of genetically modified organisms. *Academy of Management Journal*, 56(4),  
21 923–944.
- 22  
23 Hillman, A. J., & Hitt, M. A. (1999). Corporate political strategy formulation: A model of  
24 approach, participation, and strategy decisions. *Academy of Management Review*, 24(4),  
25 825–842.
- 26  
27  
28 Hillman, A. J., Keim, G. D., & Schuler, D. (2004). Corporate Political Activity: A Review  
29 and Research Agenda. *Journal of Management*, 30(6), 837–857.
- 30  
31  
32 Hoffman, A. J. (1999). Institutional Evolution and Change: Environmentalism and the U.S.  
33 Chemical Industry. *Academy of Management Journal*, 42(4), 351–371.
- 34  
35  
36  
37 Howell, S., & Jobe, J. (2005). Current Status of Biodiesel in the United States. In G. Knothe,  
38 J. H. Van Gerpen, & J. Krahl (Eds.), *The Biodiesel Handbook*. Champaign, IL: ACOS.
- 39  
40  
41 Hsu, G., & Grodal, S. (2021). The Double-edged Sword of Oppositional Category  
42 Positioning: A Study of the U.S. E-cigarette Category, 2007–2017. *Administrative*  
43 *Science Quarterly*, 66(1), 86–132.
- 44  
45  
46  
47  
48 Jones, B., & Baumgartner, F. (2005). *The politics of attention: How government prioritizes*  
49 *problems*. Chicago: University of Chicago Press.
- 50  
51  
52  
53  
54  
55 Katic, I. V., & Hillman, A. (2023). Corporate Political Activity, Reimagined: Revisiting the  
56 Political Marketplace. *Journal of Management*, 49(6), 1911–1938.
- 57  
58  
59  
60 Kaynak, E., & Barley, S. R. (2019). Shaping the Political Environment: An Ethnography of  
Public Affairs Professionals at Work. *Work and Occupations*, 46(3), 265–306.
- Keim, G., & Baysinger, B. (1988). The Efficacy of Business Political Activity: Competitive  
Considerations in a Principal-Agent Context. *Journal of Management*, 14(2), 163–180.
- Khaire, M., & Wadhvani, R. D. (2010). Changing landscapes: The construction of meaning  
and value in a new market category - Modern Indian art. *Academy of Management*  
*Journal*, 53(6), 1281–1304.

- 1  
2  
3 Knothe, G. (2005). The History of Vegetable Oil-Based Diesel Fuels. In G. Knothe, J. H. Van  
4 Gerpen, & J. Krahl (Eds.), *The Biodiesel Handbook*. Champaign, IL: ACOS.  
5  
6  
7 Knothe, G., Van Gerpen, J. H., & Krahl, J. (2005). The Biodiesel Handbook. In *Applied*  
8 *Sciences*. Champaign, IL: ACOS.  
9  
10 Kutas, G., Lindberg, C., & Steenblik, R. (2007). Biofuels--At What Cost?: Government  
11 Support for Ethanol and Biodiesel in the European Union (pp. 14-25). Geneva:  
12 International Institute for Sustainable Development.  
13  
14  
15 Lawton, T., McGuire, S., & Rajwani, T. (2013). Corporate political activity: A literature  
16 review and research agenda. *International Journal of Management Reviews*, 15(1), 86-  
17 105.  
18  
19  
20 Lawton, T. C., Rajwani, T., & Minto, A. (2018). Why Trade Associations Matter: Exploring  
21 Function, Meaning, and Influence. *Journal of Management Inquiry*, 27(1), 5–9.  
22  
23  
24 Lee, B. H., Hiatt, S. R., & Lounsbury, M. (2017). Market mediators and the trade-offs of  
25 legitimacy-seeking behaviors in a nascent category. *Organization Science*, 28(3), 447–  
26 470.  
27  
28  
29 Lempiälä, T., Apajalahti, E. L., Haukkala, T., & Lovio, R. (2019). Socio-cultural framing  
30 during the emergence of a technological field: Creating cultural resonance for solar  
31 technology. *Research Policy*, 48(9).  
32  
33  
34 Lenway, S., Schuler, D., Marens, R., Werner, T., & Green, C. (2022). The Evolving Political  
35 Marketplace: Revisiting 60 Years of Theoretical Dominance Through a Review of  
36 Corporate Political Activity Scholarship in *Business & Society* and Major Management  
37 Journals. *Business and Society*, 61(5), 1416–1470.  
38  
39  
40 Lord, M. D. (2000). Research note: Corporate Political Strategy and Legislative Decision  
41 Making: The Impact of Corporate Legislative Influence Activities. *Business & Society*,  
42 39(1), 76–93.  
43  
44  
45 Lounsbury, M., Ventresca, M., & Hirsch, P. M. (2003). Social movements, field frames and  
46 industry emergence: a cultural-political perspective on US recycling. *Socio-Economic*  
47 *Review*, 1(1), 71–104.  
48  
49  
50 Lux, S., Crook, T. R., & Woehr, D. J. (2011). Mixing business with politics: A meta-analysis  
51 of the antecedents and outcomes of corporate political activity. *Journal of Management*,  
52 37(1), 223–247.  
53  
54  
55 Mair, J., & Hehenberger, L. (2014). Front-stage and backstage convening: The transition  
56 from opposition to mutualistic coexistence in organizational philanthropy. *Academy of*  
57 *Management Journal*, 57(4), 1174–1200.  
58  
59  
60 Mair, J., Martí, I., & Ventresca, M. J. (2012). Building inclusive markets in rural Bangladesh:  
How intermediaries work institutional voids. *Academy of Management Journal*, 55(4),  
819–850.

- 1  
2  
3 Markard, J., Wirth, S., & Truffer, B. (2016). Institutional dynamics and technology  
4 legitimacy - A framework and a case study on biogas technology. *Research Policy*,  
5 45(1), 330–344.  
6  
7  
8 Navis, C., & Glynn, M. A. (2010). How New Market Categories Emerge: Temporal  
9 Dynamics of Legitimacy, Identity, and Entrepreneurship in Satellite Radio, 1990–2005.  
10 *Administrative Science Quarterly*, 55(3), 439–471.  
11  
12 Olson, M. (1965). *The Logic of Collective Action: Public Goods and the Theory of Groups*.  
13 Cambridge, MA: Harvard University Press.  
14  
15  
16 Ozcan, P., & Gurses, K. (2018). Playing cat and mouse: Contests over regulatory  
17 categorization of dietary supplements in the United States. *Academy of Management*  
18 *Journal*, 61(5), 1789–1820.  
19  
20  
21 Pahl, G. (2008). *Biodiesel: Growing a New Energy Economy*. White River Junction, VT:  
22 Chelsea Green Publishing Company.  
23  
24  
25 Park, S. (2009). Cooperation between business associations and the government in the  
26 Korean cotton industry, 1950–70. *Business History*, 51(6), 835–853.  
27  
28  
29 Perchard, A., MacKenzie, N. G., & Connors, D. P. (2024). Industry dynamics and trade  
30 association power: The shifting nature of business influence in UK aluminium. *Business*  
31 *History*, 1–21.  
32  
33  
34 Pierson, P. (1993). When Effect Becomes Cause: Policy Feedback and Political Change.  
35 *World Politics*, 45(4), 595–628.  
36  
37  
38 Russo, M. V. (2001). Institutions, Exchange Relations, and the Emergence of New Fields:  
39 Regulatory Policies and Independent Power Production in America, 1978-1992.  
40 *Administrative Science Quarterly*, 46(1), 57–86.  
41  
42  
43 Schuler, D. A., Murtha, T. P., & Ann Lenway, S. (2010). Le Défi belge: Bringing politics in.  
44 *International Studies of Management and Organization*, 40(4), 69–81.  
45  
46  
47 Schuler, D. A., Rehbein, K., & Cramer, R. D. (2002). Pursuing Strategic Advantage Through  
48 Political Means: A Multivariate Approach. *Academy of Management Journal*, 45(4),  
49 659–672.  
50  
51  
52 Schuler, D. A., Rehbein, K., & Green, C. D. (2019). Is Corporate Political Activity a Field?  
53 *Business & Society*, 58(7), 1376–1405.  
54  
55  
56 Sine, W., David, R., & Mitsuhashi, H. (2007). From plan to plant: Effects of certification on  
57 operational start-up in the emergent independent power sector. *Organization Science*,  
58 18(4), 578–594.  
59  
60  
61 Sine, W. D., & David, R. J. (2003). Environmental jolts, institutional change, and the creation  
62 of entrepreneurial opportunity in the US electric power industry. *Research Policy*, 32,  
63 185–207.

- 1  
2  
3 Sine, W. D., Haveman, H. A., & Tolbert, P. S. (2005). Risky Business? Entrepreneurship in  
4 the New Independent-Power Sector. *Administrative Science Quarterly*, 50(June), 200–  
5 232.  
6  
7  
8 Sine, W. D., & Lee, B. H. (2009). Tilting at windmills? The environmental movement and  
9 the emergence of the US wind energy sector. *Administrative Science Quarterly*, 54(1),  
10 123–155.  
11  
12 Skocpol, T. (1992). State Formation and Social Policy in the United States. *American*  
13 *Behavioral Scientist*, 35(4–5), 559–584.  
14  
15  
16 Sperling, D., & Gordon, D. (2009). *Two Billion Cars: Driving Toward Sustainability*. New  
17 York: Oxford University Press.  
18  
19  
20 Spillman, L. (2018). Meta-Organization Matters. *Journal of Management Inquiry*, 27(1), 16–  
21 20.  
22  
23 Spillman, L. (2012). *Solidarity in Strategy: Making Business Meaningful in American Trade*  
24 *Associations*. Chicago: University of Chicago Press.  
25  
26  
27 Spradley, J. (1979). *The Ethnographic Interview*. Orlando, FL: Holt, Rinehart & Winston.  
28  
29 Strauss, A. L., & Corbin, J. M. (1990). *Basics of Qualitative Research: Grounded Theory*  
30 *Procedures and Techniques*. Newbury Park, CA: Sage.  
31  
32  
33 Suchman, M. C. (1995). Managing Legitimacy: Strategic and Institutional Approaches.  
34 *Academy of Management Review*, 20(3), 571–610.  
35  
36 Useem, M. (1979). The Social Organization of the American Business Elite and Participation  
37 of Corporation Directors in the Governance of American Institutions. *American*  
38 *Sociological Review*, 44(4), 553-572.  
39  
40  
41 Van Noorden, R. (2013). EU debates U-turn on biofuels policy: key vote could signal  
42 withdrawal of support from biodiesel. *Nature*, 499(7456), 13-15.  
43  
44  
45 Vogel, D. J. (1996). The Study of Business and Politics. *California Management Review*,  
46 38(3), 146–165.  
47  
48  
49 Walker, E. T., & Rea, C. M. (2014). The political mobilization of firms and industries.  
50 *Annual Review of Sociology*, 40, 281–304.  
51  
52  
53 Walker, J. L. (1983). The Origins and Maintenance of Interest Groups in America. *American*  
54 *Political Science Review*, 77(2), 390–406.  
55  
56  
57 Yin, R. K. (2009). *Case study research: Design and methods*. Thousand Oaks, CA: Sage  
58 Publications.  
59  
60 Yue, L. Q., & Wang, J. (2024). Policy Learning in Nascent Industries' Venue Shifting: A  
Study of the U.S. Small Unmanned Aircraft Systems (UAS) Industry. *Business &*  
*Society*, 63(5), 1203-1251.

**Table 3 – Political Influence Activities of the Trade Association**

	Political Influence Activities of the NBB					Outcome of Political Actions
	Audience: Regulators	Audience: Legislators	Audience: Adjacent industries	Audience: Obligated consumers	Audience: New producer groups	
Period One: <b>Market Formation</b> (1992-1998)	Seek compliance with ASTM and EPA standards for on-road fuels to register biodiesel as a new fuel category	Lobby for amendments to the 1992 EPAAct to create first major use case and obligated consumer group for biodiesel (leads to the 1998 EPAAct)	Lobby original equipment manufacturers to establish technical compatibility between biodiesel and existing diesel engines			New market forms around EPAAct mandate  NBB becomes the de-facto regulatory gatekeeper for the industry
Period Two: <b>Market Growth</b> (1998-2005)		Lobby for RFS1 (2005 EPAAct) to expand obligated consumer base to all distributors of petroleum diesel  Lobby for producer tax credit		Educate fleet managers on how to adopt biodiesel in lieu of purchasing alternative fuel vehicles	Create new membership category to accommodate small producers needing access to emission testing data controlled by NBB	Market expands as a result of growth in both demand and supply  Potential fragmentation among biodiesel producers is prevented  NBB reinforces its role as the representative of all biodiesel producers, regardless of size
Period Three: <b>Market Entrenchment</b> (2005-2012)	Demonstrate biodiesel's 50% greenhouse gas reduction to ensure inclusion in RFS2	Lobby for biodiesel to be defined as an advanced biofuel in the RFS2 (2008 EPAAct)  Lobby/educate policymakers about biodiesel to entrench biodiesel's claim to being an advanced biofuel  Lobby to reinstate the expired biodiesel tax credit			Create small producer working group to allow voice to B100 grassroots producers  Form Sustainability Task Force within NBB to address criticism from environmental groups and lawmakers	NBB champions "one tent" lobbying strategy to respond to scrutiny from legislators and environmental groups, and reinforces its role as the representative of all biodiesel producers regardless of feedstock  NBB maintains policy support for biodiesel despite rising criticism