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Exploring Environmental Entrepreneurship: Identity Coupling, Venture Goals, and Stakeholder Incentives

Jeffrey G. York, Isobel O'Neil and Saras D. Sarasvathy

University of Colorado; University of Nottingham; University of Virginia

ABSTRACT On the basis of a qualitative study of 25 renewable energy firms, we theorize why and how individuals engage in environmental entrepreneurship, inductively defined as: *the use* of both commercial and ecological logics to address environmental degradation through the creation of financially profitable organizations, products, services, and markets. Our findings suggest that environmental entrepreneurs: (1) are motivated by identities based in both commercial and ecological logics, (2) prioritize commercial and/or ecological venture goals dependent on the strength and priority of coupling between these two identity types, and (3) approach stakeholders in a broadly inclusive, exclusive, or co-created manner based on identity coupling and goals. These findings contribute to literature streams on hybrid organizing, entrepreneurial identity, and entrepreneurship's potential for resolving environmental degradation.

Keywords: effectuation, entrepreneurial identity, environmental entrepreneurship, hybrid organizations, institutional logics, social enterprise, sustainability

What the research on social dilemmas demonstrates is a world of possibility rather than necessity. We are neither trapped in inexorable tragedies nor free of moral responsibility for creating and sustaining incentives that facilitate our own achievement of mutually productive outcomes'.

Elinor Ostrom, 1997, p. 16

Scholars have argued that entrepreneurial action can address a broad array of societal issues (Dacin et al., 2010; Mair and Martí, 2006; Russo, 2010; Short et al., 2009), including degradation of the natural environment (Dean and McMullen, 2007; Hall et al., 2010; Muñoz and Dimov, 2015; Patzelt and Shepherd, 2011; Shepherd and Patzelt, 2011; York and Venkataraman, 2010). Recent organizational theory work has turned attention to hybrid organizations (Battilana and Dorado, 2010; Battilana et al., 2015; Hockerts, 2015; Jay, 2013), and specifically, social enterprises (Battiliana et al.,

Address for reprints: Jeffrey G. York, University of Colorado – Boulder, Leeds School of Business, Boulder, CO, USA (Jeffrey.york@colorado.edu).

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2012; Smith et al., 2013), as unique organizational forms for addressing social and environmental problems. Such organizations are posited to differ from traditional ventures because the entrepreneurs who initiate them are motivated by compassion, rather than wealth creation (Grimes et al., 2013; Miller et al., 2012) and the ventures combine social welfare and commercial institutional logics within the organization (Battilana and Lee, 2014; Besharov and Smith, 2014; Haigh and Hoffman, 2012; Smith et al., 2013).

The literature on hybrid organizations and social enterprise offers important insights into how entrepreneurs tackle social issues, but it has paid relatively little attention to explicating how hybrid organizations may address environmental sustainability (but see Haigh and Hoffman, 2012). For example, scholars suggest that addressing human-induced climate change will require massive shifts across economic, organizational, and transnational boundaries (Ansari et al., 2011, 2013; Hiatt et al., 2015; Howard-Grenville et al., 2014; IPCC, 2014), but the role of entrepreneurs in such change has received little investigation. Interestingly, political economists have suggested that small-scale enterprises are necessary complements to political change in addressing climate change (Ostrom, 2010, 2012), but make no link to entrepreneurial action. While the concept of environmental entrepreneurs, who create hybrid organizations fostering simultaneous 'economic and ecological benefits' has been theoretically discussed (Dean and McMullen, 2007; Lenox and York, 2012, p. 70), little is known about the creation of such ventures.

In this study we sought to understand two interrelated research questions: Why and how do individuals engage in environmental entrepreneurship? These questions are critical, because as Tracey and Phillips (2007, p. 267) assert, 'conflict between social and commercial priorities' is a central challenge of hybrid organizations; environmental entrepreneurs often face specific challenges (Ebrahim et al., 2014; Pacheco et al., 2010; Russo, 2001), linked to a broader conflict between commercial and ecological logics (Frederick, 1999; Jay, 2013; Lee and Lounsbury, 2015; Mars and Lounsbury, 2009; York et al., 2016). While the literature has posited that environmental entrepreneurs are driven by a desire to address degradation of the natural environment (Kuckertz and Wagner, 2010; Patzelt and Shepherd, 2011; Shepherd and Patzelt, 2011), little explanation has been given as to the source and consequences of such motivations. To address our research questions, we engaged in an inductive field study of 25 environmental entrepreneurs who were establishing, or had established, ventures primarily in renewable energy, but also in green building and energy efficiency. These ventures help to reduce reliance on pollution-intensive forms of energy production (Russo, 2003), and thus address human-induced climate change (Ansari et al., 2011; IPCC, 2011, 2014). Yet, these sectors also demand economic profitability, necessitating the creation of hybrid organizations. Following the tenets of grounded theory (Glaser and Strauss, 1967; Locke, 2001) to gather and analyse our data, we came to recognize the importance of the founder's identity for motivating environmental entrepreneurship.

It has been suggested that an entrepreneur's 'passion' for a particular entrepreneurial role, such as founder, developer or inventor, gives coherence to the emerging venture (Cardon et al., 2009; Murnieks et al., 2012). Fauchart and Gruber (2011) explicated a typology of founder social identities (i.e., Darwinians, Communitarians, and Missionaries) and explored the organizational imprinting implications of each identity. While the idea that multiple identities can play a role in driving entrepreneurship has been discussed (see Wry and York, 2015), empirical research has yet to provide much insight into hybrid founder identities. Fauchart and Gruber briefly state that a hybrid identity pertains to 'founders who combine elements of the Communitarian and Darwinian identity' and suggest that it will foster 'strategic decisions based on meanings associated with one of the identities, or that a particular decision combines the meanings of both identities' (2011, p. 949). Extending beyond this, our findings begin to specifically explain how identity is implicated in motivating individuals to engage in environmental entrepreneurship. Specifically, our inductive research suggests that environmental entrepreneurs are motivated not only by a 'pro-social identity' (e.g., Austin et al., 2006; Fauchart and Gruber, 2011), but also by the opportunity to couple competing identities aligned with commercial and ecological logics. Our findings suggest this coupling between salient identities associated with each logic is a critical explanation of why individuals become environmental entrepreneurs.

As we advanced our data analysis, we discovered that the strength and priority of coupling between identities within individual entrepreneurs raised new questions. Given the widely perceived tension between commercial and ecological logics, how do such environmental entrepreneurs delineate goals and recruit stakeholders? This inductively derived link between identity, goals and stakeholders became the focus of our ongoing analysis. Stakeholders, defined as individuals who dedicate their own resources to cocreate new ventures with entrepreneurs (Sarasvathy, 2001, 2008; Venkataraman, 2002), are central to the development of all new ventures (Aldrich, 1999; Aldrich and Fiol, 1994; Suchman, 1995). However, the hybrid organization literature has largely focused on conflict between stakeholders resulting from their subscription to conflicting logics (Pache and Santos, 2010, 2013). In contrast, we found that environmental entrepreneurs, dependent on their identity coupling, did (or did not) find ways to bring stakeholders from both commercial and ecological perspectives on board (Pacheco et al., 2010; Schlange, 2009).

Surprisingly, environmental entrepreneurs with an ecological dominant identity took a more exclusionary approach towards stakeholders. In contrast, those with a commercial dominant identity were open to stakeholders associated with either commercial or ecological logics. However, entrepreneurs with a blended identity – who attributed equal weight to ecological and commercial goals – created ventures that enabled selfselection by all stakeholders. These findings suggest links between hybrid organizations, entrepreneurial identity, and small-scale approaches to addressing environmental problems.

THEORETICAL BACKGROUND

Scholars have become increasingly interested in how entrepreneurship can foster noneconomic value. For example, social entrepreneurship is a growing phenomenon that has captured the attention of organizational scholars (Dacin et al., 2010, 2011; Grimes et al., 2013; Mair and Martí, 2006; Short et al., 2009; Waldron et al., 2016). Social entrepreneurs are posited to differ from traditional entrepreneurs as they address social problems through economically sustainable business models (Battilana and Dorado, 2010; Mair and Martí, 2006; Miller et al., 2012; Moss et al., 2011; Tracey et al., 2011). As such, the organizations created by social entrepreneurs can be understood as 'hybrid organizations' combining social welfare and commercial logics (Battilana and Dorado, 2010; Battilana and Lee, 2014; Battiliana et al., 2012). This study focuses on environmental entrepreneurship as a type of hybrid organizing that combines the ecological logic of preservation and protection of the natural environment with a commercial logic of economic efficiency and profits (Dean and McMullen, 2007; Frederick, 1999; Lenox and York, 2012; Shepherd and Patzelt, 2011; York et al., 2016).

Environmental Entrepreneurship

The literature on social, environmental, and hybrid entrepreneurs has jointly focused on two questions: (1) how are such entrepreneurs different from 'traditional' entrepreneurs and (2) what are the implications of blending social welfare and commercial logics and goals within organizations? Regarding the former, research has differentiated the motivations of social entrepreneurs (Dacin et al., 2010; Miller et al., 2012; Short et al., 2009). A primary assertion of this literature is that such entrepreneurs differ in their motivations for initiating a venture compared to traditional entrepreneurs due to their greater compassion for the suffering of others (Grimes et al., 2013; Miller et al., 2012). Similarly, environmental entrepreneurs have been posited to be different due to their pursuit of ecological, rather than economic, gains (Schlange, 2006).

For example, Kuckertz and Wagner (2010) found business experience significantly reduced individuals' desire to foster environmental sustainability through entrepreneurship. Patzelt and Shepherd (2011) theorize entrepreneurs are more likely to discover sustainability-related opportunities when they perceive the natural environment as threatened, and they have a greater sense of altruism. However, these insights tell us little of why environmental entrepreneurs create for-profit ventures.

Environmental entrepreneurs are inherently implicated in hybrid organizing, because incompatible institutional logics, defined as shared meaning systems that confer legitimacy upon particular goals and practices (Thornton et al., 2012), are pursued within an organization. From a hybrid organizing view, environmental entrepreneurs combine ecological and commercial logics that rationalize conflicting goals and practices (Battilana and Lee, 2014; Besharov and Smith, 2014). The ecological logic prioritizes acting to address environmental problems while the commercial logic valorizes economic efficiency and profits (Mars and Lounsbury, 2009; York et al., 2016). However, studies of hybrid organizing have shown combining conflicting logics and goals within an organization is challenging (e.g., Battilana and Dorado, 2010; Battilana and Lee, 2014; Pache and Santos, 2010, 2013). This observation led Tracey and Phillips (2007, p. 267) to assert that 'conflict between social and commercial priorities is a central characteristic of social entrepreneurship'.

This assertion is largely supported by the literature on environmental entrepreneurship. Hockerts and Wustenhagen (2010) point out that start-ups are more likely than incumbent firms to enter environmentally relevant sectors; similarly York and Lenox (2014) find environmental social norms and social movements influence start-up entry into green building, but not incumbent entry. Incongruity between ecological and commercial logics is highlighted in studies at both the macro (Pacheco and Dean, 2015; Pacheco et al., 2010, 2014; York et al., 2016) and micro level (O'Neil and Ucbasaran, 2016; Schaltegger and Wagner, 2011; Shepherd et al., 2013). Recent work (Wry and York, 2015) posits that understanding why and how entrepreneurs address such tensions can be extended through identity theory (Stryker, 1980; Stryker and Burke, 2000).

Identity Theory and Entrepreneurship

Research in social psychology suggests that identity plays an important role in shaping behaviour and motivating action (see Stets and Burke, 2000 for a review). Identities are associated with culturally defined social roles that comprise the set of named categories that people learn to apply to themselves and others (Burke, 2004, p. 9). Each identity carries a set of behavioural expectations valuing certain behaviours that individuals are expected to adhere to in a role (Mead, 1934; Stryker, 1980; Stryker and Burke, 2000).

Identities are strongly motivational. Acting in accordance with their behavioural standards verifies important self-conceptions, leading to positive affect and self-esteem; discrepant acts are associated with negative emotions. Because identities are embedded in social groups, identity-consistent behaviour elicits positive reactions from valued others while inconsistency brings derision and scorn (Stryker and Burke, 2000).

When an actor has a salient entrepreneurial identity, they are motivated to engage in venture creation to validate an important self-conception (Cardon et al., 2009; Hoang and Gimeno, 2010; Murnieks and Mosakowski, 2006; Murnieks et al., 2012). Scholars suggest that the behavioural expectations of the entrepreneurial identity are not limited to profit-seeking and may include actions such as innovation, dynamism, perseverance, and risk-taking (Hoang and Gimeno, 2010; Murnieks and Mosakowski, 2006). Entrepreneurs may identify with a specific aspect of the venture creation process, such as inventing, founding, and developing, (Cardon et al., 2009) or with the goals of their firm (Fauchart and Gruber, 2011; Hiatt et al., 2009; Lounsbury and Glynn, 2001; Navis and Glynn, 2011). The process and outcomes of entrepreneurial action have been shown to vary in line with the founders' particular identities (Fauchart and Gruber, 2011; Powell and Baker, 2014).

Theoretical work on social enterprise has argued for the inclusion of identity-based explorations (e.g., Dacin et al., 2011; Simms and Robinson, 2009; Wry and York, 2015). However, we entered the field in 2007 devoid of such knowledge. Rather, identity as the explanation of why and how entrepreneurs engage in environmental entrepreneurship emerged over time through our fieldwork and analysis.

METHODS AND DATA

We began our field research on environmental entrepreneurs by focusing on renewable energy, defined as energy sources that utilize limited or no non-renewable resources and/or create significantly less waste than traditional energy sources (Energy Information Administration, 2007; United States International Trade Commission, 2005). By replacing or supplementing current energy sources, such as coal or oil, which emit a large proportion of human-produced CO_2 , increased use of renewable energy can reduce the severity of human-induced global warming and climate change (IPCC, 2011, 2013). In other words, the renewable energy sector, via the creation of less resourceintensive, less wasteful energy, is concerned with providing an inherent ecological benefit. During our field interviews, we came to also include one firm involved in energy efficiency and two firms involved in green building, as each combined ecological and commercial logics and added diversity to our sample.

These sectors matched our criteria of theoretical relevance (Eisenhardt and Graebner, 2007) because we sought environmental entrepreneurship firms combining ecological (the displacement of carbon emitting energy sources) and commercial (profitability and financial sustainability) logics and goals. While renewable energy has grown significantly in recent years, it was far from certain in 2007, when our fieldwork began, that it was a viable opportunity. For example, during the time period of our data collection (2007–10), and even today, the wind energy sector faced significant uncertainty due to technical, economic, and political circumstances (Vasi, 2011). Renewable energy's ability to economically compete with fossil fuel-based sources remained questionable as illustrated by the sector's dependence on the U.S. federal production tax credit during this time period (Wiser and Bolinger, 2008). Indeed, as illustrated in Table I of our original sample, only 14 of 25 firms are still operating as of 2015. During our field work the renewable energy sector was a nascent sector characterized by growth and investment, but, importantly, was still fraught with competing ecological and commercial logics.

Participant Sampling Procedure

We deployed the principles of theoretical sampling to select participants on the basis of appropriateness, rather than representativeness (Eisenhardt and Graebner, 2007; Glaser and Strauss, 1967). Three sources were used to identify suitable participants:

Sample one. Our first source was a U.S. business school's 'Renewable Energy Forum' (Fall, 2007). The first author initiated contact with five renewable energy entrepreneurs. It was during these interviews that the variety of values and founder identities discussed in entrepreneurs' accounts was first recognized. Following theoretical sampling (Glaser and Strauss, 1967), our next step was to formalize sampling criteria for other participants. The criteria centred on selecting founders from firms with the following characteristics:

1) For-profit ventures; as we were concerned with hybrid organizing, we sought environmental entrepreneurs behind commercial ventures which would also offer ecological benefit through renewable (solar, wind, biomass, geothermal, hydrogen, biodiesel, etc.) energy, either directly or through technology innovation in the production of renewable energy or enhanced energy efficiency or green building.

2) Ventures where the founder remained an active member of the management team.

3) Ventures where the founder was active in seeking stakeholders such as investors, customers, suppliers, and/or partnerships with corporations, governmental organizations, and/or NGOs.

Overall, we believe our criteria ensured requisite variation (e.g., age, firm's principal activities – see Table I) while ensuring our phenomena of interest were 'transparently observable' (Pettigrew, 1990).

Firm	Firm type/ Firm name	Principal activities	Founder name	Firm status/ founding year	Firm status (at second data collection)	No. of Additic interviews sources	Additional data sources	Founder identity type
	Wind Energy	Developed technology for winde- nergy turbines	Rueben Blake	Defunct 2005	Defunct	33		Commercial- Dominant
2	Biomass1	Developing technology for rural energy production and distribu- tion in emerging economies	Colin Stroud	Startup 2008	Survived	С	Website, Website Archive	Commercial- Dominant
3	Biomass2	Creates and implements co- generation plants for industry	Jeff Fielding	Growth 2004	Survived	1	Website, Website Archive	Commercial- Dominant
4	Biodiesel1	Refines and markets biodiesel	Heck Munroe	Startup 2006	Defunct	1	Website, Website Archive	Blended
2	Thermal Solar	Manufacturers thermal solar water heating systems	William Greer	Growth 2003	Survived	73	Stakeholder Inter- view, Website, Website Archive	Blended
9	Carbon Consulting	Markets renewable energy credits, consulting and direct purchase of renewable energy	Bryan Monge	Growth 2001	Survived	С	Stakeholder Inter- view, Website Website Archive	Blended
2	Magnetic Turbines	technology for	Fred Bussey	Startup 2004	Survived	С	Stakeholder inter- view, Website, Website Archive	Blended
$^{\circ\circ}$	Small-Scale Wind	Develop home-based wind energy	Leopold King	Pre-Venture NA	Defunct	1		Commercial- Dominant
6	Biomass3	Develops and constructs biogas energy production units	Joseph Albert	Growth 2001	Survived	1	Website, Website Archive	Ecological- Dominant
10	Geothermal	Project management and engineer- ing consultation	Calvin Mayer	Spin-off from Mature 2008	Survived	1	Website, Website Archive	Commercial- Dominant

Table I. Founder/firm characteristics and data sources

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Firm	Firm type/ Firm name	Principal activities	Founder name	Firm status/ founding year	Firm status (at second data collection)	No. of Additio interviews sources	Additional data sources	Founder identify type
	Thermal Solar	Manufactures thermal solar water heating systems	David Bonnet	Growth 1997	Survived	5	Website, Website Archive	Commercial- Dominant
12	Renewable Energy Investing	Makes early stage investments in renewable energy firms	Aaron Rawson	Mature 1997	Split into a Foundation and Investment	ŝ	Stakeholder Inter- views (2), Web- site, Website Archive	Ecological- Dominant
					Fund			
13	Marine Energy1	Develops large-scale marine installations	Noel Upton	Growth 1998	Survived	1	Website, Website Archive	Ecological- Dominant
14	Solarl	Installs home photovoltaic systems	Carlos Cartagena	Growth 2004	Survived	1	Website, Website Archive	Ecological- Dominant
15	Solar2	Builds utility-sized concentrated solar power systems	Phillip Waddell	Growth 2002	Defunct	-	Website, Website Archive, Blogs, Press Coverage	Blended
16	Marine Energy2	Builds small-scale marine energy generators	Lorenzo Cruz	Startup 2007	Survived	1	Website, Website Archive	Commercial- Dominant
17	Biodiesel2	Biodiesel production	Timothy Pratt	Startup 2005	Defunct	5		Commercial- Dominant
18	Solar3	Develops new solar technology	Raymond Graybill	Growth 2007	Survived	5	Stakeholder Inter- view, Website, Website Archive	Ecological- Dominant
19	Renewable Fuels	Builds renewable fuel stations	Mitchell Jenkins	Startup NA	Defunct	1		Ecological- Dominant
20	Green Building l	Consults on energy efficiency of new construction	Richard Delaney	Startup 2006	Defunct	1		Blended

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Table I. Continued

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Firm	Firm type/ Firm name	Principal activities	Founder name	Firm status/ founding year	Firm status (at second data collection)	No. of Additio interviews sources	No. of Additional data interviews sources	Founder identity type
21	Solar4	Constructs photovoltaic solar collectors	Douglas Burke	Mature 1999	Bought out	1	Stakeholder Inter- view, Website, Website Archive	Blended
22	Energy Efficiency	Constructs windows which enhance Ben Harrelson energy efficiency	Ben Harrelson	Growth 1989	Bought out	1	Stakeholder Inter- view, Website, Website Archive	Ecological- Dominant
23	Wind and Solar Energy	Develops utility scale wind and solar energy projects	Juan Jacobs	Mature (Wind) Survived Startup (Solar) 1999/2009	Survived	5	Website, Website Archive	Blended
24	Wind Farm Siting	Engages in wind testing and analy- James Bennett sis for wind farm development	James Bennett	Startup 2008	Survived	0	Website, Website Archive	Blended
25	Green Building2	Green building and energy effi- ciency consultant	Rachel Russell	Growth 1980	Survived	1	Website, Website Archive	Blended

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Sample two. Our second source of participants was the Washington International Renewable Energy Conference (WIREC) (Washington D.C, Spring 2008). We selected 27 firms to contact based on the above criteria. Of these, six founders agreed to be interviewed at WIREC. During the conference we contacted an additional 10 firms who were interviewed later over the telephone. At this stage, we began to note key differences regarding how founders: (1) spoke about their identity as a driver for launching their venture, (2) described goals for the venture, and (3) approached stakeholders. Consistent with a tenet of grounded theory that '*data collection is controlled by the emerging theory*' (Glaser and Strauss, 1967, p. 45), we extended our data collection to recruit a final set of participants and to gather additional materials to enhance triangulation.

Sample three. Contacts from the first author's expanding network of environmental entrepreneurs put us in touch with our final set of four participants. The first author's knowledge of the sector, our previous experience of interviewing entrepreneurs, and our ongoing data analysis assisted our recognition of 'category saturation' (Goulding, 2002). After stage three, we were satisfied that we had captured adequate novel insights from our participants to provide fresh understandings with regards to why and how environmental entrepreneurs founded their firms. The final number of participating founders was 25 (five from the business school forum, 16 from WIREC, four from networks). Table I provides details of the participants and lists the names of any individuals mentioned. All individual and firm names and details have been replaced to ensure privacy.

Data Sources

We triangulated our findings across three data sources:

Founder interviews. The first author conducted 38 interviews with the founders of the 25 participant ventures. The interviewees were told simply that we were interested in exploring entrepreneurship in their sector. All interviewees were guaranteed anonymity and agreed to be recorded; the interviews were transcribed verbatim. Interviews lasted between 40 minutes and 1 hour 30 minutes. The interviews were semi-structured using a protocol to ensure greater consistency across all interviews. As it was our aim to gather vivid accounts of our participants' experiences, we took care to ensure that our questions were open-ended and focused on situations and activities in their worlds (Gioia et al., 2013; Kvale, 1983). These interviews took place over an extended period of time (late 2007 until 2010), providing us with the opportunity to review questions iteratively based on our reflections of the insights elicited and our tentative analysis. An example of an interview protocol is included in the Appendix. These interviews totalled 426 transcribed, single-spaced pages.

Stakeholder interviews. Over the course of our data collection we noted that our participants differed in terms of stakeholder engagement; specifically in terms of how they had set about offering stakeholder incentives. Thus, we felt it was necessary to capture insights from stakeholders to probe their engagement with the ventures. While this was not initially part of our research design, our interviews with stakeholders provided insight into what incentivized their involvement with the firm. A total of eight

stakeholders were included in our research. We were put in touch with these individuals via the entrepreneurs and acknowledge that our access was somewhat limited. Interviews were recorded and transcribed verbatim, totalling 123 pages.

Documents. At the time of initial interviews, we gathered additional documentation that was either provided directly by firms (e.g., business plans, marketing documents) or publicly available (e.g., on websites). In addition, we utilized historic website records from the 'wayback machine' tool on the Internet archive (archive.org), to collect data on as many firms as we could (four appeared to have never had a web presence – see Table I). These data enabled us to triangulate our interview data, creating insight into how the founders spoke about themselves (via bios), how they presented their venture's goals, and how they tried to incentivize stakeholders (e.g., employees via 'work for us' sections). These data resulted in 431 single-spaced pages.

Data Coding and Analysis

Our research design evolved iteratively by following the principles of grounded theory (Glaser and Strauss, 1967; Locke, 2001). Throughout, we followed Van Maanen and colleagues' rationale for theorizing: 'there is a back-and-forth character in which concepts, conjectures and data are in continuous interplay... allowing for a logic of discovery' (Van Maanen et al., 2007, p. 1146). Our analysis began during the interviewing process (Charmaz, 2006). In accordance with the grounded theory approach, we simultaneously gathered data and engaged in the process of exploring salient theoretical categories. Our goal throughout was to uncover theoretical constructs to explain why and how environmental entrepreneurship ventures are founded. In this way, we began to discover the linkages described below between theories of hybrid organizing, identity, and effectuation.

As mentioned above, once we were satisfied that we had reached theoretical saturation and that no new insights were emerging from our interviews, we moved to a more formal stage involving scrutinizing our interpretations and emergent categories. Central to grounded theory is the constant comparative approach (Glaser and Strauss, 1967). Thus, we set about coding and analysis concurrently by labelling and sorting fragments of text from the transcripts (coding) while interpreting these fragments' meaning (Locke, 2001). In practice there were three distinctive stages:

Stage one. We first constructed a database using NVivo qualitative analysis software to bring together field notes, interview transcriptions, and any collected documentation and memos related to the particular founder or stakeholder. The first two authors worked independently on the data so that each coder could inductively compile a tentative set of first order codes. The second author began coding after all data collection was complete, was based in a different country, and only had brief, general conversations with the first author prior to coding. The third author did not engage in coding, and thus remained the 'outsider' to help ensure the trustworthiness of our findings based on the evidence presented (Gioia et al., 2013; Strauss and Corbin, 1994). Following the coding of this sample, the first and second authors reviewed each other's coding to compare and contrast with the labels, descriptions and excerpts produced by their own

coding efforts. Table II provides an example, discussed below, of some initial differences in first order codes, and their eventual convergence.

For the commercial aspect of a founder's identity, the second author had coded to a set of four first order codes,^[1] whereas the first author had independently coded such data to a broader code 'economic motivation'. Discussions and debate ensued and eventually these five separate first order codes were collapsed into the final set of three first order codes for the *Commercial Dominant identity* (see Table II). Similarly, for *Blended Identity*, the first author had deployed the code 'mixed motivation' but the second author had produced two codes.^[2] Again, through debate and discussion, we agreed upon a set of three codes. Building upon our discussions with the third author, we then compared our coding in relation to more environmental drivers resulting in two first order codes in relation to *Ecological Dominant Identity*. This process was followed for all 20 of the first order codes in Table III.

Stage two. Stage two was a more deductive, theoretically driven stage involving in-depth exploration of literature on entrepreneurial identity (e.g., Fauchart and Gruber, 2011; Hoang and Gimeno, 2010), hybrid organizing (e.g., Battilana and Lee, 2014) and effectuation (Sarasvathy, 2001; Sarasvathy and Dew, 2005b). To be clear, following exemplars of grounded theory, we did not seek independence as we moved to second order themes. Rather, we collaborated and debated 'firmly in the theoretical realm, asking whether the emerging themes suggest(ed) concepts that might help us describe and explain the phenomena we are observing' (Gioia et al., 2013, p. 20). We thus moved from 'inductive' to 'abductive' research, with the data and existing theory considered in tandem (Alvesson and Kärreman, 2007; Gioia et al., 2013). Throughout the creation of the second order codes, the first two authors sought to explain, document, and verify our findings with the 'outsider' third author.

During this stage we paid particular attention to differences in accounts, not only from case to case but within each participant's accounts. Building on insights derived during first order coding, we recognized that the environmental entrepreneurs were expressing different emphasis on the salience of each identity, and hence there was variation in the extent of coupling between commercial and ecological identities. Our analysis and discussion also advanced our appreciation of the link between ideas in the effectuation literature and our findings that hybrid founder identity influenced goals and approaches to stakeholders. The relationship between the codes and second order themes is presented in Table III.

Stage three. As we moved between analysing the data and creating theoretical explanations for the patterns we perceived, we created multiple iterative versions of the grounded theory presented below. These early drafts were developed into working papers and presented to colleagues, as well as a subset of study participants, for multiple rounds of critical feedback. This process helped us to finalize our three aggregate theoretical dimensions: (1) those that show founder hybrid identity coupling, (2) those that signal venture goals that emerged from the various categories of hybrid identities, and (3) those translating how identities and goals influenced stakeholder incentivizing as

Table II. Illustrative examples of first order coding to second order themes	ing to second order themes		
Excerpts from interview scripts	First author's initial code and description	Second author's initial code & description	Final first order code
Examples of first order coding leading to commercial dominant identify It's quite rewarding to go from about a four- 'Economi man operation to a 180-man operation <i>Respondent</i> now – keeping all those people busy and <i>etc. as a</i> making a living. (<i>Calvin Mayer, founder</i>)	inant identity 'Economic Motivation' 'Respondent discusses profits, money, wealth, etc. as a motivation for starting or becoming involved in the business.	'Deriving enjoyment from profit- making activities' Statements about becoming an entrepreneur due to enjoying commercial side of business.	Founder's interest in profit-making activity
I didn't mean to be but apparently I'm a dic-hard entrepreneur and just the way it is. (David Bonnet, founder) From the of first order coding to thended identity.	'Economic Motivation' Respondent discusses profits, money, wealth, etc. as a motivation for starting or becoming involved in the business.	'Explicit business person reference' Statements that express strong identification with being a profit-making business person.	Articulation of self as a profit-seeking business person
I think a lot of us business folk do find the thing that we love to do the most we're probably going to be the best at so this company connects me to my core val- ues. This is what matters to me in life. This is what I came here to do. (Rachel Russell. Founder)	'Mixed Motivation' Participant refers to their values as motiva- tion for getting involved in or starting the business.	'Values-Business Ethos Links' Statements stressing the importance of the entrepreneurs business AND personal values.	Comments on suit- ability of matching own values with doing business
If you get this right, this can be a huge, high- potential thing. It's an immense professio- nal challenge. And if you can get it done, it's really worthwhile. And not just because of the hard commercial challenge and opportunity aspects, but also because of the altruistic the main motivational issue is, if we have achieved one goal, we've taken this technology to a major form in the world, then that's mission success. (Doug Burke, Founder)	'Environmental Entrepreneurship' Participant describes an economic and social impacts approach.	'Values-Business Ethos Links' Statements stressing the importance of the entrepreneurs business AND personal values.	Personal commitment to environmental entrepreneurship to achieve low cost, high quality, clean solutions for good of planet, others, and ultimately self.

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First order codes Sea	Second order themes	Aggregate theoretical dimensions
Articulation of self as a profit-seeking businessperson Statements reflecting founder's interest in profit-making activity Talk of personal commitment to grow renewable energy for increasing business opportunities	Commercial Dominant Identity	Hybrid Founder Identity Coupling
1 doing business entalism ow cost, high	Blended Identity	
quality, clean solutions for good of planet, others, and ultimately self. Statements reflecting founder's environmental/social welfare beliefs Ec Personal commitment to environmental entrepreneurship for tackling climate change I	Ecological Dominant Identity	
	Commercial Goals	Venture Goal
Betweenents on promotion opportunity as primary purpose of raunching venture. Hopes to contribute to growing to improve upon incumbents' environmental impact Ec	Ecological Goals	
are embedded in	Hybrid Goals	
Statements on the practice of addressing environmental issues using business mechanisms (e.g., profit-making)		
Comments on profit/personal wealth creation driving stakeholders' venture involvement In Effort to incentivize involvement based on financial value of venture involvement	Inclusive Incentivizing	Stakeholder Incentivizing
Comments on environmental aspects (e.g., values/passions) driving stakeholders' venture Ex involvement	Exclusive Incentivizing	
Effort to incentivize involvement based on social* value of venture involvement 'Social' includes environmental and community value)	
	Co-Created Incentivizing	

J. G. York et al.

Table III. Data structure

represented in Table III. These findings are discussed in depth below, with quotes followed by the participant's name, or another data source.

FINDINGS

Our inductive analysis soon signalled that universally across our founder interviews, the entrepreneurs coupled together elements of commercial and ecological logics to account for their motivation for starting the venture. This insight led us to conclude that for each founder, identities linked to both logics were salient to the venturing process. Thus, each entrepreneur could be said to hold a *hybrid identity* that coupled elements of potentially conflicting logics within the self. As we investigated further, we came to understand that the informants fell into three categories according to the priority and strength of coupling between these identities. For some there was a loose coupling with one identity dominating; for others both identities were tightly integrated and blended, and thus, neither dominated. As we discuss below, this insight drove our typology of hybrid founder identities as: 1) *Commercial Dominant*, 2) *Ecological Dominant*, or 3) *Blended*.

With a clearer picture as to *why* environmental entrepreneurs initiated their ventures based on our identity typology, we set about unpacking *how* these identities impacted the process of creating the new venture. First, we uncovered key differences in the link between the identity type and the venture goals articulated. Second, as our analysis triangulated through additional documents, website materials and stakeholder interviews, we uncovered novel insights into the impact of founder identities and resultant venture goals on how entrepreneurs approach incentivizing potential stakeholders. Below we detail these impacts for each identity type. Figure 1 illustrates our typology and range, as well as modelling the implications of each identity type for venture goals and stakeholder incentivizing. Table IV provides further quotes to support our categorization and Table V provides further details on the venture goals and stakeholder approached resulting from each identity.

Commercial Dominant Identity Coupling

Entrepreneurs in our first category portrayed their environmental entrepreneur identity as dominated by a commercial logic, focusing on exploiting commercial opportunity. For example, Jeff Fielding emphasized, 'we weren't a bunch of environmentalists... it was more of a business school rationale of, hey here's a business opportunity'. Indeed, the business opportunity resulted from a year-long consultancy project for a gasification supplier during which the founders:

... discovered the world of renewable energy and became intrigued with the technologies and challenges of offering clean options to industrial customers... The idea for [Biomass2] was born. (Biomass2 website)

However, such insights suggested that, alongside typical talk of being motivated by making a financial return, these entrepreneurs emphasized, as a secondary consideration, a personal commitment to the importance of 'clean' or 'good' renewable energies. Even A Model of Environmental Entrepreneurship

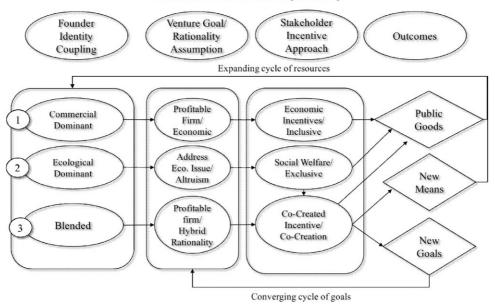


Figure 1. A model of environmental entrepreneurship

the most commercially oriented founders also exhibited a weaker, but salient, identity linked to an ecological logic. For instance:

I just get jazzed about the opportunities... I want to help people, but I also want to make this thing as big as fast as possible. You know, you talk about energy mark-ups, this is the mother of all mark-ups... you'd be essentially unlocking many billion dollars of money that they're spending today on kerosene and diesel, that are bad, that they could be spending on something good [Biomass]... So there are multiple motivations... I'm just a filthy capitalist and want to make killer money... I just try to make that work as fast as possible. But's that's OK... it isn't like you're starting something that's stealing babies or whatever. (Colin Stroud)

In a similar vein, one founder told us 'I'm a die-hard entrepreneur and that is just the way it is' but he then expressed that:

I was promoting [solar energy] and also not making any money because I was putting too much time into it. But an important part of my life and background, was being involved and making those kind of contributions [to solar energy]. (David Bonnet)

David primarily expressed a commercial personal focus, but his comments also signalled how important it was to him to reflect his own commitment to solar energy and its attendant ecological goals. This was further explained on his firm's website which stated '... we believe that converting home energy systems to solar greatly benefits our planet. Converting to a solar water heating system can save nearly one third of the energy consumption in most homes'. (Thermal Solar, Website)

Table IV. Exemplary quotes for each hybrid founder identity type

Commercial Domi- nant Identity	• I didn't mean to be but apparently I'm a die-hard entrepreneur and just the way it is. You just have to keep slugging it out and dealing with the day to day. But things are slowly getting better and we're going to definitely do over a million this year and hopefully way over and [there are] just a lot of challenges along the way trying to pull things together in an under-funded scenario. <i>Onvid Bounet funder</i>)
	• Once everybody's got enough engineering information about that project – that we know how much money it will make and how much it will cost and how long it takes, and we've reduced the uncertainty a lot – we want to sell the company to some-
	body else, like a big wind project development company. My intention is to get it going, flip it, and get out of it. (Lorenzo Cnz , founder)
	• (The founder of current employer) made himself into a millionaire. He was not an educated man, but he had an idea and he worked hard to make it hannen. And now his five kids own the company. They don't do a damn thing and they're millionaires
	and it just galls me. They fell in the money pit, and they don't do anything. And I don't want to work for them anymore I
	don't want to be working until I'm 72 and my daughter's 22 and just come out of college You know, I'm in need of funding. And I've got a dream. I know there's a market. (<i>Leopold King, founder</i>)
	• It's quite rewarding to go from about a four-man operation to a 180-man operation now – keeping all those people busy and making a living. <i>(Calvin Mayer, founder)</i>
	• [the main motivation is] to turn a profit making biodiesel. I mean I it's hard to say I guess there's a mission of produc-
	ing alternative fuel in the local area that I live. But I think that's a secondary. I mean, you obviously have to be able to make a
	living. (Timothy Pratt, founder)

Blended Identity	If you get this right, this can be a huge, high-potential thing. It's an immense professional challenge. And if you can get it done, it's really worthwhile. And not just because of the hard commercial challenge and opportunity aspects, but also because of the altruistic What I say to myself is that when I finally close the door and retire, what will I judge success on? [will it be that] we've made a successful company that's very big and doing well, and I've made money, and the people around me who've invested in it have made money, and all this sort of stuff? Not really. That's almost a condition for success. But it's not the main objective. The main objective and how I would judge myself the main motivational issue is, if we have achieved one goal, we've faken this technology to a major form in the world, then that's mission success. <i>(Doug Burks, fourder)</i>
•	way the economic system worked now needed to be changed and entrepreneurs can play a role in that. And therefore, if things need to change and we have a tool at our disposal, we should use it. So I think the values and our discussions were very important at that time and we were both well, at least, you know, we were under pressure from significant others who were saying who were questioning the whole thing. (<i>Rueben Blaks, founder</i>) The founder's and my personal motivation is that we want to do these things [in renewable energy], to do the right thing. That's a very strong motivation but we're not blinded by that, to do that you have to have a product and a service and a com- pany that is market-driven and that understands the economics. (<i>Russ Wood, stakeholder of Rennond Gravhill</i>)
Ecological	I agree with [name] who wrote his new book saying 'Capitalism is destroying the planet'. Well, I thought that for 30 years.
Dominant Identity	So don't call me a capitalist Capitalism is an exploitive system. It's 120 years old. Finance capitalism is the worst form of that system. Business has been around for 3,000 years. Business is business, and people really have to understand the difference. Corporate finance, corporate capitalism, finance capitalism sucks. And it doesn't work, and it just exploits. And basically, it's not ensuitable <i>Conformation funder</i>).
•	I said, 'Environment, I want to do something with the environment but it has to be profitable.' None of us have to worry about having bread and butter in the morning, you know? And so then you really think about what can you do meaningful with your time And so I said, well if I could do something that is meaningful, that would be something that I would really work to you work on sum offers into (<i>Janua Bannas Gunda</i>)
•	Waill to put iny criticit into (station reasone, journer) If you want to know more about what my motivation is, it's not about money but this is what is in my heart – I'm thinking about that. It's a very dangerous road we are going with this energy thing, with all these wars in the world, all this I think it's all about oil It's not inst about the environment. It's also about keeping a nearcful world. I think that is something which
·	drives me nuts too. (<i>Joseph Albert, Jounder</i>) He wanted to do something that would have a greater impact on the coming environmental challenges that we're facing, partic- ularly climate change. And [he] got the idea that it would be a great economic opportunity to be able to invest in renewable energy companies. (<i>Paul Gabriels, stakeholder of Aaron Ravson</i>)

Table IV. Continued

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incentivizing
stakeholder
and
goals
Venture
Table V.

	Venture goals	Stakeholder incentivizing
Commercial Dominant Identity	 [Brand name] is designed as a high-tech distributed energy technology company with a global market. It's focused on large-volume manufacturing and sales. We intend to make lots and lots of small turbines and sell them all over the world it's intended as a high-growth venture capitalist type deal. And the VCs, they want to sell out, but I want to make the fortune. (<i>Immer Oas, Oax, founder</i>) I got into biodiesel by] just trying to cut costs it's really about pennies, dollars, and cents, and volume. And I had a friend who is a musician, really into biodiesel and we'd talk about thered, and the finally said, 'You know, why don't you do this? Why don't you upy it?' So I tried it. And for a solid year and a half I fueled two dump trucks and a tractor-trailer with biodiesel?". So I first started selling it when I was confident enough that it was saleable (<i>Timolify Paut, founder</i>) Our thinking as a group is there is a market in the commercial building space for small-scale wind turbine technology So we're looking at that as an opportunity and [that] is sort of coming to geter. Jike the perfect storm of opportunity for us to try and pursue this. (<i>Loopold King, founder</i>) Energy and renewable energy is absolutely the major opening field. Predictions are it's going to far exceed even the computer boom as far as the size of it. It's a trillion-dollar market, and there's so many different things that you can eoil beaten path (<i>David Bonnet, founder</i>) 	 [Geothermal] hopes to help the geothermal market reach its full environmental and economic capacity. Additional factors driving the geothermal power industry growth are the climbing price of oil, global warming, tax incentives and government policies mandating renewable energy portfolios ('RPS'). The U.S. Congress has recently extended the renewable energy tax credit to include geothermal. With this tax break, geothermal energy is comparable in price with wind energy and thus, is vital for the renewable energy sector's sustained success. (<i>Geothermal, website - Cabin Mayer</i>) [Biomass2] was founded by five experts in finance, operations, and energy who recognize the need to offer renewable energy technology to energy users in a utility-based model. Current renewable energy to not wish to make the dole. Current renewable energy to not wish to make capital investments in ancillary operations who do not wish to make capital investments in ancillary operations who do not wish to make capital investments in ancillary operations shore do not wish to make capital investments in ancillary operations shore do not wish to make capital investments in ancillary operations have not enjoyed the technology's benefits. [Biomass2] business model offers renewable energy and waste management solutions at no capital cost through a utility model. The [biomass2] business model offers renewable energy and waste management solutions at no capital cost through a utility model. The [biomass2] business model offers renewable energy and waste management solutions at no capital cost through a utility model. The [biomass2] business model offers renewable energy and waste management solutions at no capital cost through a utility model. The [biomass2] business model offers renewable energy and waste management solutions at no capital cost through a utility model. The [biomass2] busines and the venture capitalists want to hear is that you share they want to sell the company to somebody else One of the things that the ven

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	Venture goals	Stakeholder incentivizing	
Commercial Dominant Identity		We have to show that it's going to be profitable and that there is a really good reason to do it. We have to show that it is pro- viding a good renewable energy solution. That's the thing that people want to hear. They like that it's renewable energy that they can use. People are much less interested in renewable energy if you just sell it into the grid. (Lorenzo Cruz, founder) We are committed to the development of sustainable commun- ities supported by renewable hydrokinetic energy. Water resour- ces are almost always a major concern to their local communities. They cannot be developed and sustained above the micro-scale unless there is local support and capability. Our business philosophy is to provide a cost-effective technology and training and consultation in how to apply it with community support. This drives our commitment to adaptability, transpar- ency and building trust with our partners and customers. (<i>MarineEnergy2, website- Lorenzo Cnuz</i>)	e profitable and that there have to show that it is pro- tion. That's the thing that it's renewable energy that neterested in renewable I. (Lorenzo Cruz, founder) ent of sustainable commun- inetic energy. Water resour- inetic energy. Water resour- in to their local oped and sustained above support and capability. Our cost-effective technology and apply it with community it to adaptability, transpar- thers and customers.
Blended Identity	 Our mission is to] re-energize the world and change the world and try to get a positive out of a negative. If you look at what our real mission is, we're almost trying to get extra gas mileage out of a tank of gas. (<i>Chris Johnson, stakeholder of Fred Busse</i>)) [Solar2's] mission is to invent, manufacture and sell the world's most innovative and affordable solar collectors. Our company strives to become part of the solution to global problems including climate change, energy security and sustainability. (<i>Solar2</i>, <i>website, Phillip Waddle</i>) We wanted to design the business to be operated as sustainably as we could, using waste products as a feedstock as much as we could, using waste products be as green as we could make them. So we deliberately set out to design a sustainable renewable energy business. (<i>Heck Mumoe, Founder</i>) 	• [There are] two schools of thought. One, how can I save money. How much is it going to cost me? How long will it take to pay off the difference before I'm saving money? And there we're actually at a point now where I think that there is that financial argument. And then the other school of thought is they just want to do the right thing. They want the savings, but they're more interested in doing it because it's the right thing to do. Which is interesting, because you talk to each of those people a little bit differently. And you talk about different ideasBut from my perspective, I don't really care I mean, either way, it's going towards the greater good. I don't feel that it's my job to change your mind set, your politics, your religion, any of that stuff – you're going to think the way you've always thought. But if I can convince you that some of these other things are actually	One, how can I save money. Iow long will it take to pay money? And there we're k that there is that financial al of thought is they just mt the savings, but they're it's the right thing to do. Ik to each of those people a out different ideas But are I mean, either way, I don't feel that it's my job cs, your religion, any of that r you've always thought. But hese other things are actually

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	Venture goals	Stakeholder incentivizing
Blended Identity	 Our mission is to advance sustainability in the built environment, to our vision and commitment and expertise to create high-performance, exemplary buildings which reduce their impact on the environment, are healthier for occupants, embrace social responsibility, and contribute to economic sustainability It isn't just about profit as well. (<i>Radid Rusell, Jounder</i>) In a nutshell, we are developing photovoltaics as a sustainable, environmentally benign technology – and exploiting the commercial opportunities afforded by this rapidly growing market. (<i>Salar4, uebsite, Daug Burke</i>) We are a green energy company trying to make a difference in the world. Our engineers and physicists are working on developing new technologies to produce green energy and to decrease the use of fossil fuel and carbon emissions. (<i>Magnetic Turbins, uebsite - Fied Busse</i>) We hold true to our belief that every individual and every busing new technologies to produce green energy and to decrease the use of fossil fuel and carbon emissions. (<i>Magnetic Turbins, uebsite - Fied Busse</i>) We hold true to our belief that every individual and every busing new technologies to produce green energy and to decrease the use of fossil fuel and carbon emissions. (<i>Magnetic Turbins, uebsite ness</i> has a right to choose how the electricity they buy is produced. We steadfastly believe in renewable energy as an affordable, mainstream option that is only beginning to catch hold Our mission: To lead the migration to sustainable energy that is good for the environment, the economy, and all current and future generations (<i>Carbon Consulting, website - Bnim Monge</i>) 	 better will increase value, will increase your quality of life, great, I'm going to try to do it. It's the warm fuzzy people that are the easy ones. They're the ones that are coming to me, saying 'tell us about this'. (<i>Richard Delaney, Jounder</i>) What attracted me was that it had a great combination of very practical, marketable technology with also the idea of continuing to work towards these greater technologies in the future. But not sacrificing one for the other. (<i>Russ Wood, stakeholder of Raymond Graphil</i>) The message has to be different depending on who they are. Because if they're a very conservative person, all they're going to want to know about is how much money is this going to save them. And we've talked to people like 'I don't care about any-thing else,' they don't really give a shit about the environment, although they might like to say they do, they don't really, because if it makes their life one percent less comfortable, then they're not willing to do it [for others], it's not about just saving money. It's really about reducing your carbon footprint. And if you saw those couple of files I sent through, that's something which we show to people, like, 'how much can you reduce your carbon footprint in terms of trees?' And the average house would install a 30-tube solar collector which is our standard size. It's equivalent to more than two tons, which is like four and a half thousand pounds of CO2, which is about half of what your carbon footprint in terms of trees?' And the average house would produce each year if you were in a normal-size car, not a huge car. And that's 250 trees. (<i>William Gree, Jounde</i>)
		• It's understanding the currency that they understand. So for

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example, if it's an industrial user, the currency might be in the form of natural gas. So we're trying to tell them a story about

Table V. Continued	ted		
	Venture goals	Stak	Stakeholder incentivizing
Blended Identity			how we're going to save them energy by reducing the amount of natural gas, which then in turn saves them money. Or it might be in kilowatt-hours. Same story, you know, different currency. In this case, we're using kilowatt-hours versus MNBTUs. It might be water. You know, it might be steam. So it depends. (<i>Phillip Waddell, founder</i>)
Ecological Dominant Identity	 The mission is to bring the world the benefits of electronically tintable glass into the construction markets. And so why is that important? Buildings are responsible for 40% of the energy consumption in North America. There's approximately 100 quads of energy used in total, and 40 of those quads go to buildings The carbon footprint that buildings result from consuming that much energy is even larger And I do believe that we're doing something very meaningful and important to make a very positive impact on the carbon footprint of buildings. (<i>Ben Harelson, founder</i>) Igot a sense of what could be done with one guy and what a small group of people can do. You know, you can go out and conquer the world with a new business venture, especially in energy today. It's got to be solved But don't rely on the corporations to solve it (<i>Carlos Cartagena, founder</i>) I think making a difference. Um, having a legacy may be a strong word. I don't know. At the end of my career and the end of my life, if I look back if I can call it leaving a legacy. But that would be my goal to leave people and the planet in a better condition than when I arrived. I would say that's the goal and nucleinon. (<i>Rachel Russell, founder</i>) 	• • •	Every investment that we make is also committed to putting environmental responsibility at the core of its planning. Whether it is a renewable energy project protecting local wildlife or a gas drilling company taking care of water supplies, all of our man- agement teams subscribe to this commitment. (<i>Renevable Energy</i> <i>Investing, website - Aaron Rauson</i>) I think it's great to take part in something which is, you know, building at this moment and being built up. [This company] is special in a way because of the values We can stay with com- panies. We don't have to exit immediately after succes, an IPO And you can just do more. And you can concentrate on working with these companies and bring them forward. And that is really great. (<i>Raw Joshi, stakeholder of Aaron Rauson</i>) But that's been pretty important to us, that we believe in an eth- ical, socially responsible company. You know, we're not selling aluminum siding here to get rich quick, you know. There's going to be a lot of people that are going to jump into the renewable energy business to get rich quick. It's the 'next big thing', right? I think we have internal motivation, core values So I was a little disturbed to find two Harvard MBAs tried everything they could do to undo our company. Everything they could think of. Because I didn't live in their world, and they

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	Venture goals	Stakeholder incentivizing
Ecological Dominant Identity	 We assume stewardship responsibility for the earth's resources and people; our community, organizational and personal relationships; and the quality of our products and services. (MarineEnergy l, website – Neel Uptam) Our employees are in a sense missionaries. I mean, all of us are dedicated to doing something new in the world and addressing the issues of the need for energy in climate change with a new technology. So it's exciting and enervating, you know, to be an innovator and to be leading the world in something new (Neel Uptan, Jounder) 	didn't live in my world. I would never understand their world, and I don't think they will ever understand my world and how I think. It's just, you know, totally reconcilable We were teeny, but we believe in those values. And I never met anybody with a Harvard MBA that believed in those values (we) tossed those guys out of the company (<i>Carlos Cartagem, Jounder</i>) I think, the fundamental motivation of the people in the com- pany today [is that] ultimately, we're hoping that we can do something on a pretty large scale as you can imagine nobody's making very much money. I mean, we're subsisting, and it's a real struggle, particularly to find investors and invest- ment money who are interested in coming in in early-stage com- panies. But, you know, that's the motivation. Plus, it's a small company, a motivated team, an energetic team, you know, and a close group of people who are trying to do something new. Far different from, you know, a competitive large company, you know, where it's tougher to have close colleagues, you know, who are focused on a core mission. (<i>Notl Upton, Jounder</i>) I think the fascinating key relation is the suppliers. And that the suppliers now this is where my non-profit background comes into play. You know, you go out to these folks and you sell them on the vision. You sell them as to what they're participating in. There's locally food, locally grown, locally made foods and prod- ncts. (<i>Mark Care, founder</i>)

Table V. Continued

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For these cases, we found that a 'Darwinian' identity (Fauchart and Gruber, 2011) was articulated, i.e., a desire to generate personal wealth, but secondary to this a 'missionary' identity was also portrayed (Fauchart and Gruber, 2011) i.e., their personal commitment to create ecological benefits. While each identity was salient in interviews with these founders, the identities were loosely coupled, in that these entrepreneurs did not present them as integrated and tightly blended, but rather, as parallel parts of themselves. Their primary role was to focus on commercial profits and viability; ecological outcomes were ancillary benefits. We label this combination of founder identities *Commercial Dominant*, defined as: desire for wealth and status as a founder (commercial) but also showing commitment to preserving the natural environment (ecological).

Commercial goals – *inclusive incentivizing.* Commercial dominant founders were clear that their primary goal was to generate wealth. Timothy Pratt described his commercial goal:

[Our mission is] to turn a profit making biodiesel. I mean you obviously have to be able to make a living. It was difficult. When I decided to, I was like, 'Can I really do this? Can I make a living making biodiesel? Can I pay my bills' Like, what's going on here? But, yeah, it's feasible. (Timothy Pratt)

As exemplified in these types of comments, this group viewed environmental entrepreneurship as creating an economically profitable firm that might be sold at a later date:

Once everybody's got enough engineering information about that project - that we know how much money it will make and how much it will cost and how long it takes, and we've reduced the uncertainty a lot – we want to sell the company to somebody else, like a big wind project development company. My intention is to get it going, flip it, and get out of it. (Lorenzo Cruz)

With a clear goal to grow a feasible, profitable company quickly, the accounts soon revealed a basic economic approach to incentivizing stakeholders. For example, Calvin Mayer told us:

It's kind of crude but I always told my guys, you know 'during the 1849 gold rush, a few people made a lot of money at discovering gold but the guy who made shovels made a lot of money'. And so we're making shovels. (Calvin Mayer).

Another entrepreneur, Timothy Pratt spoke about a strategy he uses to source waste oil for his biodiesel production. He described approaching potential suppliers as creating an economic incentive for them to help him:

[I] knock on the back door. Tell them that I make fuel out of it. I ask them if they have any diesel vehicles. And I can give them five gallons or whatever if they want to try some. And some... there's actually one Chinese restaurant in (town). The guy, he wants to take me to China, make millions. We (will) go to China. We (will) make millions'. He always says that to me. (Timo-thy Pratt)

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The entrepreneur's dominant commercial identity and their mission to generate wealth through a profitable firm clearly influenced their approach to incentivizing potential stakeholders. While there was no particular drive to actively pursue ecologically oriented stakeholders, they did welcome all stakeholders:

And, you know, the appeal... we kind of tell a different story depending on somebody's reason for doing it, you know. Some people had an environmental reason. Say, 'Hey, here's a renewable energy company. I want to be a part of that'. 'Well, we do renewable energy. Come on board'. (Jeff Fielding)

Fielding realized that the ecological side of his firm is an important selling point, and was happy to leverage it to help obtain his commercial goals. This inclusive approach to how a firm is presented to others was also clearly expressed on Lorenzo Cruz' website:

[Marine Energy2] has invented and is patenting two new in-stream hydrokinetic turbines based on radical innovations in other industries. These new turbines will revolutionize renewable in-stream power generation and make it cost-effective around the world... We are committed to the development of sustainable communities supported by renewable hydrokinetic energy. Water resources are almost always a major concern to their local communities. They cannot be developed and sustained above the micro-scale unless there is local support and capability. Our business philosophy is to provide a cost-effective technology and training and consultation in how to apply it with community support. This drives our commitment to adaptability, transparency and building trust with our partners and customers. (Marine Energy2 Website)

Our analysis suggested that these entrepreneurs were open to a wide range of stakeholder commitments. Surprisingly, we found this was not the case in our next group.

Ecological Dominant Identity Coupling

The second category of hybrid founder identity was uncovered in accounts that were dominated by motivation to tackle environmental problems. For example, Raymond Graybill told us how he had been obsessed with protecting local flora and fauna since the age of 15 and had devoted 20 years of his life to environmental conservation. However, Graybill also had a '*knack for*' energy and solar power and had worked as research scientist in that area. When explaining why he founded a solar firm, Raymond stated '... to make it (solar power) a true alternative... make it a commercial product'. Raymond's stake-holders noted this regarding his ecological dominant identity:

I know from having long talks with him [Raymond] that his motivations go very deep into a core belief system about our responsibility as citizens and that, as just another species passing through the planet, we've got to do the right thing. (Russ Wood, Stakeholder of Raymond Graybill)

Beyond their ecological identity, this group of founders also appreciated the commercial value of entrepreneurship, but the commercial aspects of the firm were a means to

reinforce their ecological identity. For example, Mitchell Jenkins emphasized providing environmental alternatives by running his own business:

You know that sincere motivation in me is to come up with some [environmental] solution and just play my own small role in providing a solution... I can't live my life just thinking that I just perpetuate the status quo. I can't live like that. (Mitchell Jenkins)

Another exemplar of this category is Carlos Cartagena whose website bio explained:

Early in his career, [Cartagena] worked to promote solar energy as a media specialist for the U.S. Department of Energy during the Carter Administration. While serving as the national media director for Greenpeace USA during the 1980s, he saw how renewable energy could help solve the world's energy and environmental challenges. (Solar1 Website)

In conversation, Cartagena told us that after having spent years expending effort to '*reduce carbon emissions and energy costs*' he came to realize that the time had come to enter the world of business:

I mean, the philanthropic approach was great. It's seeding it as pilot projects, as educational, as getting governments involved, communities involved. It all worked well. Then the next need, the crying need was, hey, companies have to do this because... there's a lot more private capital in the world than there is philanthropic money. It needs to be commercialized. It needs to be commercially sustainable. (Carlos Cartagena)

Identity for this group was grounded in environmentalist backgrounds and not-for-profit experiences; however, these founders also expressed how it was now incumbent upon them to challenge the status quo through entrepreneurship. In sum, a personal commitment to protecting the natural environment and openness to commercial means brought about the pursuit of entrepreneurship for what we label the *Ecological Dominant* identity defined as: a personal commitment to preserve and protect the natural environment (ecological) but utilizing commercial activities to achieve this goal (commercial).

Ecological goals – exclusive incentivizing. In contrast to the commercial dominant group, ecological dominant founders began with a deep understanding of the negative environmental impacts of business as they sought to offer an alternative. Their most salient founder identity, linked to valuing protection of the earth's natural resources, was at the heart of their venture's goal. For instance, Joseph Albert said:

The mission is to reduce the waste of energy, be more careful with all the resources we have, and try, for the coming generation, to prepare something, which they still can work with. So we're not taking everything away and just living like kings, just being careful with everything you're doing. (Joseph Albert)

These founders often alluded to their goals clearly in public forums. For example:

We assume stewardship responsibility for the earth's resources and people; our community, organizational and personal relationships; and the quality of our products and services. (Marine Energy1, Website)

Once we noted that this group's founders were embedding their ecological dominant identity firmly within the venture's goals, our analysis turned to how they set about incentivizing stakeholders. These founders often had histories of environmental campaigning and worked previously in non-profits. As such, this group focused on recruiting people who shared their ecological goals, and were not too 'corporate':

We've brought a number of people on board, particularly young people coming out of school who don't want to jump in the middle of a corporate environment. So, people who are interested in kind of a green arena – renewable energy or green technology and so forth. We're a pretty visible company, so people see it as an opportunity to get engaged in something that might be pretty exciting for them. (Noel Upton)

Across all of our categories, we were told that stakeholders with similar values were keen to get involved in ventures and entrepreneurs. However, when ecological dominant entrepreneurs encountered those with different values, they often reacted negatively. For example, Aaron Rawson told us he was once interviewing a candidate who said his main goal was 'to make a lot of money'. When asked how he would do that, the candidate replied 'I would hedge your portfolio with oil'. Aaron revealed:

He was not employed. When we hire people, you know, we also tell them that probably in an investment bank, where they have no mandate for investing with maybe a smaller profit and a higher social return, you'd probably make much more money. And nobody's starving, but... if it's just about the money, then you're probably in the wrong spot.

Although a strong ecological dominant identity was extremely inspiring for some stakeholders, it also led entrepreneurs to close doors to others. This exclusionary approach, in which only stakeholders who shared the ecological goals of the firm were involved, was typical across this group. For example, Raymond Graybill stated that he was focused on:

... the environment community... we want to be the guy when you say... 'Look, we want to build this solar project and we're convinced we can afford the normal expense and we've talked with the Sierra Club and it is going to reduce the ... CO2 in the United States', And then someone says, 'Yeah, but, you know, there's not one technology company out there we can even call up and that can deliver'... we want to change that. It's like... they'll say,... 'Thank God! All we need to do is call (Solar3)'.

Our analysis reveals that when ecological goals dominate a hybrid venture, the approach to incentivizing stakeholders was found to be exclusionary. This was a stark contrast to the hybridized, open approach followed by our final category.

Blended Coupling of Ecological and Commercial Identities

The final hybrid identity category that emerged from our analysis is comprised of founders who expressed blended identity coupling. These entrepreneurs explained their motivations as based on a blend of both the ecological and commercial identities; they expressed the complementary nature of this blend and our analysis brought to light that neither one nor the other was drawn upon as more salient. Indeed, this blended identity was highly motivational in creating new ventures. For example, William Greer explained how excited he gets about pursuing business opportunities but linked this to his strong environmental ethos from his upbringing:

I can't remember how many times my dad yelled at me for standing there with the fridge door open wasting electricity... And so it's no surprise to me that I'm now involved in a renewable energy or a green company, because... it's been drummed into me from when I was young. But what I'm trying to get to is that it's not something which I've just seen – business opportunity, make money, OK, we're now green. This is something which I've been doing since I was a kid. (William Greer)

Further illuminating the blended integration of identities, Juan Jacobs told us that he started his business as much for ecological reasons as for profit-making:

I'd spent 10 years doing non-profit environmental work. So, I was a passionate believer in clean energy and, you know, wanted to leave the world a better place than when I found it... partly I felt like I could do more in the for-profit world than the non-profit world... partly my second child was born and I had no way to retire or put her through school. So, you know, a bunch of reasons.

Indeed, a recurring reason articulated by this group of founders related to conceptualizing their career as an environmental entrepreneur is as blending two sides of their identity through their work:

I think a lot of... us business folk do find the thing that we love to do the most we're probably going to be the best at.... so this company connects me to my core values. This is what matters to me in life. This is what I came here to do. (Rachel Russell).

Heck Munroe told us about a previous business he had founded but that he and his cofounders had been too '*motivated by economics*'; he reflected:

After two or three years of doing that, I found it hugely unsatisfying, even though I was making more money than I'd made any time in my career. I think basically we were pushing paper around, and we were not solving anything... I mean, it sounds almost idealistic, but I wanted to do something that made more of a difference and that was more personally fulfilling. (Heck Munroe)

Such statements signalled that the commercially orientated identity was seen as not opposed to, but blended with, ecologically oriented identities. Heck had lamented how

previous entrepreneurial experience had not done enough to fulfil his ecological identity, so now was the time to launch a venture that could 'make a difference' as well as generate income. We label this category *Blended* and summarize it as: commitment to environmental entrepreneurship as a means to enact the perceived synergy between a founder's ecological and commercial identities.

Co-created goals – *incentivizing for self-selection.* Entrepreneurs with blended identities were compelled to pursue simultaneous commercial and ecological goals; to do otherwise would not allow them to successfully integrate their identity:

Our mission is to advance sustainability in the built environment, to our vision and commitment and expertise to create high-performance, exemplary buildings which reduce their impact on the environment, are healthier for occupants, embrace social responsibility, and contribute to economic sustainability... It isn't just about green buildings, you know. It's about people and it's about profit as well. (Rachel Russell)

With hybridity built into their venture goals, this group of environmental entrepreneurs intentionally sought to appeal to *all* stakeholders. Commercial and ecological stakeholders were neither prioritized over each other, nor differentially pursued. For example, William Greer's website states:

At [Thermal Solar] we are strongly committed to providing simple and effective solutions for families and businesses concerned about climate change and rising energy costs. Our team has an excellent reputation in the solar thermal industry and we pride ourselves in offering the best customer service available. We are very passionate about what we do, working hard to push the industry in a positive direction and ensuring that your experience with [Name] is a positive and enjoyable one (Thermal Solar, Website).

Statements such as above offer a wide gambit of incentives so that a variety of stakeholders can self-select into the process and even interpret the goals to their liking (Fischer and Reuber, 2011; Sarasvathy and Dew, 2005b). This realization led us to begin to find linkages between founder identity and the literature on effectual logic (Sarasvathy, 2001, 2008). Effectuation describes how entrepreneurs utilize their identity, resources, and stakeholder commitments to create, rather than discover, new firms, markets, and opportunities. A variety of studies in multiple industries have shown that expert entrepreneurs commonly utilize effectual logic (see Read et al., 2009; Read, Song et al., 2009). However, there has been little linkage between the effectuation and hybrid organization literature streams, despite scholars recognizing that, '... cognitive approaches in general, and effectuation theory in particular, also offer considerable promise for building a stronger theoretical basis for social entrepreneurship research' (Dacin et al., 2011, p. 1206).

Two particular aspects of effectual logic that resonated with our findings: 1) means, and specifically 'who I am' as the basis for initiating a venture, and 2) self-selected stake-holders. A critical distinction of the effectual approach is that rather than seeking to legitimize their business and thus secure commitments from specific stakeholders,

effectual entrepreneurs seek to create avenues for stakeholder self-selection. In the effectual process, stakeholders put 'skin in the game' (i.e., dedicate resources to the venture) because they see an opportunity for co-creating the venture with the entrepreneur; thus, they create their own incentive.

We found the literature on effectuation to align with the approach taken by entrepreneurs with a blended identity. When ventures embodied the widest array of goals, this created opportunities for stakeholders to see whatever it is *they* wanted to see in the firm. Founders with a blended identity created firms that allowed for self-selection by stakeholders because they integrated commercial, ecological, and even additional logics into the firm's goals. This was in contrast to commercial dominant entrepreneurs, who would *include* ecologically motivated stakeholders, but did not attempt to create a broadly appealing firm; rather they focused on commercial logics and motivations. Our analysis revealed that blended identity entrepreneurs, on the other hand, were often unaware of how they were appealing to stakeholders; because their firms were open to interpretation by multiple logics, stakeholders saw what they wanted to see, and thus self-selected into the firm.

For example, William Greer told us how he specifically tried to find executives by talking about how they could work together to bring quality products to market, and how they could be part of a team developing long term relationships with their clients. However, Roger Bruno, a key executive in the firm, described the incentives he had for joining the firm quite differently. In our interviews, he emphasized salient identities including: 1) community member (his home state), 2) environmentalist, 3) patriot, and 4) entrepreneur:

 \dots one of the reasons why I wanted to bring the solar collectors that I saw \dots to (my home state) was because I said, Wow, you know, we need this. This is important. You know \dots We're polluting our land with all these fossil fuels.

I don't want to get too political here, but I definitely believe that energy security is important. And reducing a dependency on foreign oil is important, because I believe some national security issues we have are tied in with our addiction to oil. And it is very important for us to create alternative technologies... energy technologies in order for our nation to be more energy independent and secure.

And it just made logical sense to me that, you know, if this is something we need, there's not only an opportunity to help people; there's an opportunity to, you know, do something entrepreneurial as well. (Roger Bruno, stakeholder of William Greer)

Bryan Monge described his employees as being attracted by his carbon consulting firm's strong strategy and business plan (i.e., commercial logic), but Ken Roundy, an Account Executive, described his motivation to join Monge's firm as providing solutions to simultaneous commercial and environmental problems. He told us:

I believe strongly that we have our innovative spirit – the ability to solve all of the energy problems and environmental problems in front of us with new technology. And I can see it as clear and plain as the back of my hand. What I love about this [position] is the opportunity to articulate that to people who are looking for solutions. (Ken Roundy, stakeholder) Our research revealed that founders, with a blended hybrid founder identity, pursuing hybrid goals, believe they know how to incentivize different stakeholders; but even when that belief was misplaced, stakeholders self-selected into the venture. A key aspect of this process is that the entrepreneur need not predict the incentives that will appeal to a given stakeholder. Rather, blended identity and the resultant hybrid goals provided a built-in flexibility for appealing to stakeholders. This finding suggests that the promise of hybrid organizing may lie not only in combining traditionally oppositional logics, but also in expanding the potential for stakeholder self-selection. Further, the relationship between identity, goals, and stakeholder self-selection portends promising linkages between literature streams on hybrid organizing, entrepreneurial identity, and effectuation. We further develop these insights and possibilities below.

DISCUSSION

Why do some individuals engage in environmental entrepreneurship, combining commercial and ecological goals within a new organization? Given the widely perceived tension between these logics, how do such individuals delineate goals and recruit stakeholders? In this study, we sought to address these interrelated questions through an inductive study of 25 environmental entrepreneurs. Our findings extend current understandings of environmental entrepreneurship by unearthing the role of identity coupling in terms of both formulating venture goals and determining approaches to incentivizing stakeholders. While each of our informants exhibited salient identities linked to both ecological and commercial logics, there were greater or lesser degrees of coupling between these identities. Our study suggests that the weighting and extent of identity coupling led entrepreneurs to either: 1) forge their venture goals based on their ecological dominant identity and exclude stakeholders who were not aligned, 2) establish venture goals based on their commercial identity and pragmatically, and perhaps serendipitously, remain inclusive to all stakeholders, or 3) when identities were tightly coupled, and thus blended, create hybrid venture goals that enable stakeholders to selfselect based on their own incentives. By shining a light on the role of identity beyond initial motivation, we began to explicate the role of self-selection in terms of how entrepreneurship can contribute to solving environmental problems.

Hybrid Organizing as Generative

We add to the hybrid organizing literature by illustrating the role of identity in motivating environmental entrepreneurship as a specific type of hybrid organization. Based on our findings, we define environmental entrepreneurship as: *the use of both commercial and ecological logics to address environmental degradation through the creation of financially profitable organizations, products, services, and markets.* While extant literature has focused largely on the challenges and issues of combining competing logics within an organization, there has been little written about the generative aspects of such combinations (but see Simms and Robinson, 2009; Wry and York, 2015). Our findings suggest that such tensions can provide motivation for initiating hybrid ventures, as each founder we interviewed exhibited salient identities bound to both commercial and ecological logics. In addition, we found that the degree of coupling between these two types of identities influences both the establishment of venture goals and the approach founders take to incentivizing stakeholders. We posit that founder identity is not only able to help explain the degree of initial or enduring tension within hybrid organizations, but may also play an important role in resolving such tension. While it is well understood that entrepreneurs vary in their motivations, and that this may be influenced by identity (Fauchart and Gruber, 2011; Murnieks et al., 2012), only recently have the theoretical implications of identities embedded in conflicting logics received attention (Wry and York, 2015).

Our findings suggest that when entrepreneurs hold salient commercial and ecological identities, but these are loosely coupled (i.e., with one remaining more salient), they may have greater difficulty understanding and collaborating with diverse stakeholders. This was especially the case when the ecological identity was the more salient. Conversely, when each identity is similarly salient and tightly coupled within the self, our findings suggest that entrepreneurs will more easily empathize with a wide variety of stakeholders and will more easily negotiate solutions to any challenges arising from tension in the logics they seek to combine. Because salient identities are largely embedded in social relationships (Stets and Burke, 2000, 2005), we suspect those with an ecological dominant identity were wary of appearing to 'sell out' by including commercially oriented stakeholders. However, commercial dominant founders saw little risk to involving all stakeholders, as they viewed even ecologically oriented stakeholders as instrumental to achieving their commercial goals. Our findings also support recent assertions (Wry and York, 2015) that founders with identities related to multiple logics may be better equipped to create hybrid organizations, due to their ties in multiple social realms. Future work on hybrid organizations could further scrutinize the nuances of founder identity and how identity impacts the path such ventures take from founding to maturity. An identity-based approach portends great promise for examining the emergence of hybrid ventures across the individual, organizational, and field levels.

While the social entrepreneurship literature has long recognized the need to understand the motivations for the entrepreneurial pursuit of non-economic goals, (e.g., Grimes et al., 2013; Mair and Martí, 2006; Short et al., 2009) this paper specifies the role of identity in the motivation for, and creation of, such ventures. Dacin and colleagues (Dacin et al., 2011), have proposed that we should focus on the social *consequences* of entrepreneurship rather than focusing on social entrepreneurship as a distinct type of entrepreneurial action, or a separate field of research. Our findings provide empirical support for their proposition. By understanding how entrepreneurs can simultaneously produce economic profits and address social welfare problems, the field of entrepreneurship might be closer to achieving its promise: developing theory that encompasses both the economic and sociocultural implications of entrepreneurial action (Venkataraman, 1997). Our findings suggest that an identity-based approach could advance such theorizing, by examining the implications of hybrid founder identities.

Beyond the entrepreneurship literature our findings have implications for the broader study of organizations and the natural environment. Sustainability scholars have recently called for increased focus on the role of hybrid organizations in addressing environmental and social issues. For example, Hoffman and Haigh (2014) write that hybrid organizations '... are operating at odds with beliefs embedded in strategic management

and corporate sustainability literatures'. Our findings suggest that understanding the identity and processes at the heart of hybrid organizing may offer an alternative path for understanding when, why, and how environmental market failures can be addressed. Hybrid organizations, and specifically environmental entrepreneurship, offer the possibility of focusing on creative, rather than destructive, tension between commercial and ecological logics (Ehrenfeld and Hoffman, 2013; McDonough and Braungart, 2013). Our hope is these findings offer entrepreneurship as an enticing path for future research by sustainability scholars.

Extending Identity and Entrepreneurship Research

We expand research on identity and entrepreneurship by explicating how commercial and social welfare-based identities interact to not only shape the goals entrepreneurs set for their venture, but also shape the entrepreneur's approach to recruiting stakeholders. This study expands the role of identity in the entrepreneurial process by focusing attention on the entrepreneur's identity not only as an inventor, founder, or developer (Cardon et al., 2009), but also as an environmentalist. While Fauchart and Gruber (2011) discovered that some entrepreneurs may have a 'missionary' identity linked to '... the ambition to advance a particular cause (social, environmental, etc.)' (p. 942), they explicitly differentiate such individuals from the 'Darwinian' entrepreneur who will 'pursue his self-interest (making money, creating personal wealth, a business that will be inherited by the next generation)' (p. 942). Our findings suggest that, at least in the case of hybrid organizations, founders may align with both to greater or lesser extents.

Fauchart and Gruber (2011) suggested that Darwinian and communitarian identities may co-exist as 'hybrid founder identity' and they posited that hybrid identities might be more commonplace in the future. This study significantly builds on their insight by showing three ways in which environmental entrepreneurs (and by extension, other founders of hybrid organizations) may simultaneously couple together missionary and Darwinian identities within themselves. By elaborating three types of hybrid founder identities, we show how ecological and commercial logics can simultaneously be enacted and pursued by a range of individuals with relatively little tension or conflict.

These findings suggest that scholars at the intersection of entrepreneurship and identity should further probe the *impacts* of identity beyond initial motivation. For example, identity could have important implications for firms gaining and maintaining legitimacy and securing resources beyond initial stakeholders (Navis and Glynn, 2011). Indeed, the processes implicated in early stage entrepreneurship could well mean that the entrepreneur's identity itself is altered as a consequence of the venturing process. Future research could take a process approach to explore the emergence and development of hybrid organizations to investigate if time and experience leads to tighter identity coupling. When founders remain open to various paths and stakeholders during venture creation, their identity likely evolves through the venturing process. For example, as discussed above, Carlos Cartegena (#14) never viewed himself as a businessperson, but he came to embrace this identity through a hybrid firm because 'there's a lot more private capital in the world than there is philanthropic money'. This study raises the possibility that the literature on identity and entrepreneurship could ask not only 'How does identity influence entrepreneurial action?' but also, 'How is identity changed through entrepreneurship?'

Effectuation: Linking Identity and Stakeholder Incentives

Further, our findings suggest intriguing ties between the literature on entrepreneurial identity and effectuation (Sarasvathy, 2008). In a detailed conceptualization of the entrepreneurial stakeholder acquisition process, Sarasvathy and Dew (2005b) posited a model of *self*-selection rather than targeted selection. When the environment is predictable, and goals are fairly well-specified in advance, particular stakeholders can be targeted with a view to fulfilling those goals. But in the face of Knightian uncertainty and Marchian goal ambiguity, entrepreneurs are forced to be effectual, meaning, who comes on board determines what gets done rather than what needs to be done determining whom to try to get on board. This begs the question of how entrepreneurs can 'pitch' to potential stakeholders and why and how exactly people self-select into new ventures. The literature stream on effectuation offers several answers to this question.

At least one strong answer has to do with the notion of identity – the 'who I am' in the bird-in-hand principle. Sarasvathy and Dew (2005a, p. 393–4) explain this as follows:

But reasoning from identity works even when there is no causal link between action and outcome, when a yawning chasm seems to stretch between choice and consequence, or when an entrepreneur feels passionately about a particular course of action while having no idea whether it will lead to desirable outcomes....

And more generally, using identity-based decision criteria frees entrepreneurs from having to order their preferences for specific consequences of their choice, and allows them to take decisive action even in the face of Knightian uncertainty (Knight, 1921; Langlois and Cosgel, 1993). That is because the notion of identity stands in the same relationship to preferences as procedural rationality does to substantive rationality (Simon, 1978). For example, when faced with identical circumstances, a macho identity may lead one to revenge, whereas a Christian identity may seek to forgive (Cosgel and Minkler, 2004). In other words, identity consists of preferences for particular processes or ways of living and deciding, rather than for any particular consequences that the preferred processes may lead to. Identity may be fictive or real, freely chosen or socio-culturally constructed, good or evil.

While the concept of self-selected stakeholders is well known in the effectuation literature, so far scholars have said little about how founder identity may impact stakeholder self-selection. The key to the connection between identity and stakeholders appears to lie in goal ambiguity. If entrepreneurs have a clear focus on economic outcomes or on environmental outcomes, they are less likely to offer enough flexibility for effectual selfselection that requires entrepreneurs to be open to their goals being reshaped by incoming stakeholders. This might explain why we found evidence of the effectual process only in the case of blended entrepreneurs. As an example, take the quote from Heck Munroe describing how his biodiesel venture moved to a multi-plant business model in response to self-selection from a purely financial stakeholder: Well, we'd been talking with the guy who became our fourth partner. He'd been our sort of financial ear. He was good enough to help us out for free, just reviewing our business plan and sitting in on discussions every two or three months...

... Brought him on board of January 2007. Revamped the business plans. He... really formulated this notion of multiple plants so we could offer a bigger deal and we went out with him to California and pitched this to three or four different companies. (Heck Munroe, founder)

It is important to note that our study was not designed to tease out relationships between identity and effectuation. However, it does offer evidence of strong ties between identity and goal clarity, the latter being a crucial variable of importance in effectuation. On the one hand, as Sarasvathy and Dew (Sarasvathy and Dew, 2005a) argued, a strong identity can substitute for goal clarity in entrepreneurial decision-making under uncertainty. On the other hand, as our data show, a strong identity can also lead to focused, perhaps premature, goals thereby hindering the stakeholder self-selection process. We have thus touched upon an interesting set of competing hypotheses about strength of identity and the feasibility (or not) of the effectual process.

Furthermore, we believe this set of competing hypotheses is particularly salient in applications of entrepreneurship to the resolution of public goods problems (Olson, 1971) involving common pool resources (Ostrom, 1990) and cooperative solutions to social welfare issues (Axelrod and Hamilton, 1981). Indeed, while our evidence is limited in this regard, we suggest that future research could solidify and build upon our nascent findings as detailed in Figure 1.

Limitations

As with any study, we note several potential weaknesses with this one. First, one might question if there was bias, as our interviews were conducted mostly with individuals who were at the time in the process of running or founding a business. What of those who failed? We appreciate that failure is a key consideration in the entrepreneurial journey but as our research was not a process study, this outcome fell beyond the scope of our study. However, it is important to note, as illustrated in Table I, that when we returned to review the participants' online presence for later triangulation, we discovered that seven of the businesses at start-up stage of during the initial interviews never advanced to fully-fledged businesses (labelled 'defunct'). One venture at the growth stage was disbanded after our observation period (Solar2). Four further ventures had become different entities i.e., bought-out, merged or scaled down. This suggests that there was limited survivor bias in our sample, as the founders we interviewed went on to experience differing degrees of (eventual) success.

Second, we acknowledge that our sample of 25 environmental entrepreneurs is relatively small. However, we note that our intention, and the intention of most grounded theory studies, is not to capture a population, but rather to seek out cases that are aligned with the phenomenon of interest. As we were interested in why and how individuals chose to engage in environmental entrepreneurship, a relatively small sample is justifiable for the creation of our initial theorizing. Others may wonder why we did not include more stakeholders in our study. We concur with Überbacher (2014) that studies of new ventures would benefit from the inclusion of additional data from an entrepreneur's audiences. However, in this study, we refer to the stakeholder interviews as part of our triangulation approach rather than as integral to our theorizing. We are theorizing here about how entrepreneurs approach incentivizing stakeholders rather than building knowledge on the effectiveness (or not) of such incentivizing from a stakeholders perspective. We do envisage the opportunity for future research to focus more deeply on stakeholders to explore the implications of co-created incentivizing.

Third, and related, one may argue that the phenomenon we observe may not be exclusive to environmental entrepreneurs, and that all entrepreneurs likely have multiple identities, and thus, motivations. We actually would agree; we believe the insights derived in this paper are generalizable to the broader population of entrepreneurs. But, we also believe the differences in multiple identities within entrepreneurs, and their resultant impacts on the ventures they create, would be much more subtle and difficult to examine empirically. The reason our study focused on environmental entrepreneurship is because the distance between commercial and ecological goals and logics has been highlighted repeatedly in the broader literature on sustainability (Gladwin et al., 1995; Hoffman, 1999; Hoffman, 2001; Hoffman and Jennings, 2012; Lee and Lounsbury, 2015), hybrid organizing (Jay, 2013; York et al., 2016), and identity (Wry and York, 2015). Thus, environmental entrepreneurship presents a compelling and 'extreme' context (Eisenhardt and Graebner, 2007) for furthering our understanding of how different, and potentially conflicting, identities influence the venturing process.

Finally, one may argue that recall bias tainted our interview data, and that the founders we spoke with sought to portray themselves to generate approval from the interviewer. This would be a serious weakness if this study purported to capture the actual founding process over time; however, this was never our intention. Rather, as we were interested first in motivation, then later in identity, and finally in the founder's approach to stakeholder recruitment, there was little choice but to directly ask the founder. Further, as shown in the Appendix, we did not directly question the founders about their identity, but rather, our insights emerged inductively as the first and second author iteratively coded the data, moving between the extant literature on identity theory and our emergent categories. While it was not tenable to go back in time to track these ventures, our use of archival web page data allowed us to triangulate our primary interview data with another source of data. This allowed us to explore firstly how the founders spoke about their own motivation and identity via their online bios and blogs, and secondly, how these founders chose to portray their firm to stakeholders during the time period of the study. For our specific research questions, this process afforded us the opportunity to access the very constructs we were hoping to capture i.e., any bias the interviewees exhibited in attempting to present themselves in alignment with a commercial, ecological, or hybrid logic. That is, such bias would capture the identity to which the founders aspired, how this was embedded in the venture's goals, and therefore, how they put their identity and venture goals to work as they set about approaching their stakeholders.

Beyond the contributions to existing theory detailed above, there are several implications of this study for entrepreneurs who wish to address social welfare issues through commercial ventures. First, in contrast to the extant literature that focuses on detailing the challenges of hybridity, our study suggests that hybridity at the individual level may offer advantages. When entrepreneurs hold identities embedded in multiple logics, they may be able to appeal more easily to a variety of stakeholders. More critically, such entrepreneurs may be ideally placed to empower stakeholders to see what *they* want to in the venture, rather than be embroiled in a lengthy, negotiated process to become skillful in their legitimation efforts (O'Neil and Ucbasaran, 2016). This implies that environmental and social entrepreneurs would be well served to develop, and to portray, a tightly coupled, blended identity. Further, our study suggests caution when initiating hybrid ventures to avoid over-weighting the social welfare aspect of the venture, as such action led the entrepreneurs in our study to miss opportunities for constructive stakeholder engagement with more diverse audiences.

While this study only hints at potential integration between entrepreneurship and resolving public goods problems such as climate change, our hope is that others will see the promise Olson offered when he wrote '... the incorporation of the concept of entrepreneurship in the provision of collective good into the model developed in this book does not contradict its logic or invalidate its conclusions, but rather enriches the argument, and makes it a better tool for the study of organization leadership and change' (1971, p. 178). Our intention is that this study meets the spirit of Ostrom's quote at the beginning of the paper by suggesting that environmental entrepreneurship can help to foster a 'world of possibility' and enable 'mutually productive outcomes' (1997). With an enriched understanding of how entrepreneurs can help to address environmental problems, entrepreneurship scholars are well positioned to offer original insights into the achievement of environmental sustainability.

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NOTES

- [1] Namely: 'Deriving enjoyment from profit-making activities', 'Explicit business person reference', 'Renewable energy as profitable opportunity', and 'Coveting personal wealth accrual'.
- [2] Namely: 'Values-Business Ethos Links' and 'View of business as valid form of activism'.

APPENDIX

SAMPLE FOUNDER INTERVIEW PROTOCOL

Q.1 Background

- Can you tell me about your background and how you came to start this company?
- Can you describe your work with the company from the founding to today? (What is your role in company?)

Q.2 The Company and Founder

• Can you tell me a story about the company from the founding to today?

(A challenge you overcame? An important event in the founding process?)

- Could you describe the company's mission and strategy?
- What motivated you to start the company?
- What do you find most motivational about your work now?

Q.3 Stakeholders

• Can you tell me about how the company markets itself?

(What message does the company use to create customer relationships?)

• How do you manage relationships that are important to the company's operations?

(What message does the company communicate to communities, government, NGOs and suppliers?)

• Can you tell me about the investor relationships the company has?

(What message does the company communicate to investors?)

• How does the company recruit and screen new employees?

(How is the company portrayed to potential employees?)

• Does the company belong to trade associations?

- (If not, why not? If so, what benefit do you see?)
 - Do you have ongoing relationships with competitors?

(How does the company manage competitive relationships?)

• Are there other important relationships we didn't talk about? (How do you manage these?)

Q.4 Institutional Climate

- Some renewable energy companies say government incentives are important, while others say they are not; do they matter for your business model?
- Is the recent interest in environmentalism, epitomized by the phrase 'going green' just a fad or does it represent something more significant? (What role do the media play in your business?)

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