

6-11-2016

THE DETERMINANTS OF CLEAN-TECH VENTURE PERFORMANCE: LESSONS FROM TECHNOLOGY ENTREPRENEURSHIP AND RESEARCH AGENDA (INTERACTIVE PAPER)

Ekaterina Bjørnåli

NTNU, Trondheim, Norway, ekaterina.bjornali@iot.ntnu.no

Ferran Giones

La Salle – Ramon Llull University, Barcelona, Spain

Gjermund Nordskar

NTNU, Trondheim, Norway

Philip Wright

NTNU, Trondheim, Norway

Vytautas Klimas-Hermansen

NTNU, Trondheim, Norway

Recommended Citation

Bjørnåli, Ekaterina; Giones, Ferran; Nordskar, Gjermund; Wright, Philip; and Klimas-Hermansen, Vytautas (2016) "THE DETERMINANTS OF CLEAN-TECH VENTURE PERFORMANCE: LESSONS FROM TECHNOLOGY ENTREPRENEURSHIP AND RESEARCH AGENDA (INTERACTIVE PAPER)," *Frontiers of Entrepreneurship Research*: Vol. 36 : Iss. 8 , Article 11.

Available at: <https://digitalknowledge.babson.edu/fer/vol36/iss8/11>

This Interactive Paper is brought to you for free and open access by the Entrepreneurship at Babson at Digital Knowledge at Babson. It has been accepted for inclusion in Frontiers of Entrepreneurship Research by an authorized editor of Digital Knowledge at Babson. For more information, please contact digitalknowledge@babson.edu.

≈ INTERACTIVE PAPER ≈

THE DETERMINANTS OF CLEAN-TECH VENTURE PERFORMANCE: LESSONS FROM TECHNOLOGY ENTREPRENEURSHIP AND RESEARCH AGENDA*Ekaterina Bjørnåli, NTNU, Trondheim, Norway**Ferran Giones, La Salle – Ramon Llull University, Barcelona, Spain**Gjermund Nordskar, NTNU, Trondheim, Norway**Philip Wright, NTNU, Trondheim, Norway**Vytautas Klimas-Hermansen, NTNU, Trondheim, Norway***Principal Topic**

The importance of clean-tech ventures lies in their mission to protect the environment by facilitating the increased use of clean energy and environmentally friendly solutions. At the same time, the entrepreneurial nature of many of these firms enables introduction of radical innovations necessary for making breakthroughs in the industries of renewable energy and environmental technologies. This study's purpose is threefold. First, we review the existing research on clean-tech ventures published in major business, management and entrepreneurship journals. Second, we revise the literature on the performance determinants of new technology-based firms (NTBFs) and reflect on its applicability to the context of clean technology. Third, we identify future research directions to further develop this emerging research stream. Thus, our work contributes to multidisciplinary and highly relevant topic by collating different bodies of literature that could shed light on the important determinants of clean-tech venture performance and providing future research agenda.

Methodology

First, we carry out a systematic literature review of the studies on the determinants of clean-tech venture performance. Clean-tech venture refers to an entrepreneurial start-up that exploits technological knowledge to create new technical solutions that contribute to (increased) use of energy generated from renewable sources or a (more) environmentally friendly handling of waste. Next, we complement this review by revising the determinants of NTBF performance as provided by entrepreneurship literature. Lastly, we carry out three case studies in Norway that allow probing and exploring issues related to our central research objectives.

Results and Implications

The majority of clean-tech studies focus on external determinants such as policies and regulations. We argue that this gives us an incomplete picture of the determinants of clean-tech venture performance, and we suggest that future research could examine in more detail both individual (e.g. entrepreneur's motivation) and firm-specific (e.g. governance) performance determinants. Our findings and outlined research agenda will hopefully motivate and engage more researchers to pursue research within this interesting and timely topic in a more systematic matter.

CONTACT: Ekaterina Bjørnåli; ekaterina.bjornali@iot.ntnu.no; (T): +47 735-93-573; Department of Industrial Economics and Technology Management, Norwegian University of Science and Technology, Alfred Getz road 3, SBI, NO-7491 Trondheim, Norway.