

Environmental regulation and low-carbon development

Citation for published version (APA):

Blohmke, J. (2016). *Environmental regulation and low-carbon development: a study into regulatory determinants, innovation systems and economic outcomes*. [Doctoral Thesis, Maastricht University]. Datawyse / Universitaire Pers Maastricht. <https://doi.org/10.26481/dis.20160422jb>

Document status and date:

Published: 01/01/2016

DOI:

[10.26481/dis.20160422jb](https://doi.org/10.26481/dis.20160422jb)

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

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PhD Research Propositions by Julian Blohmke

Environmental regulation and low-carbon development

A study into regulatory determinants, innovation systems
and economic outcomes

April 2016

1. The strength of domestic green industry appears to play a more influential role for the stringency of environmental regulation in a country than civil society environmental activism.
2. Technology complexity (hardware properties) should be assessed thoroughly against domestic industry manufacturing capabilities in a technology transfer environment within technology adopting countries in order to account for domestic value creation and economic development potentials.
3. In clean technology adoption environments, the bundling of services (providing financing support, construction, training of operation staff and aftersales services) can help to overcome disadvantages in weakly developed innovation systems.
4. Energy sector decarbonisation across the Mediterranean basin would render larger long-run economic benefits, if the regions in the north and the south of the Mediterranean cooperate and facilitate the cross-border trade of electricity. Especially oil importing countries in North Africa would strongly benefit from a clean energy transition.
5. The shift towards low-carbon growth in less industrialised countries should follow a sustainability transition management processes, which incorporates multi-domain as well as multi-level thinking.
6. Long-term thinking is necessary as a framework for successful (sustainable) short-term policy.
7. It has been proven by European history that cross-border energy cooperation has the potential to create strong, long-term neighbourhood partnerships between countries.
8. Valorisation of clean transition research output starts with raising awareness of potential long-term benefits of a clean transition.