

Green Windows of Opportunity

Latecomer development in the age of
transformations toward sustainability

Rasmus Lema
Aalborg University

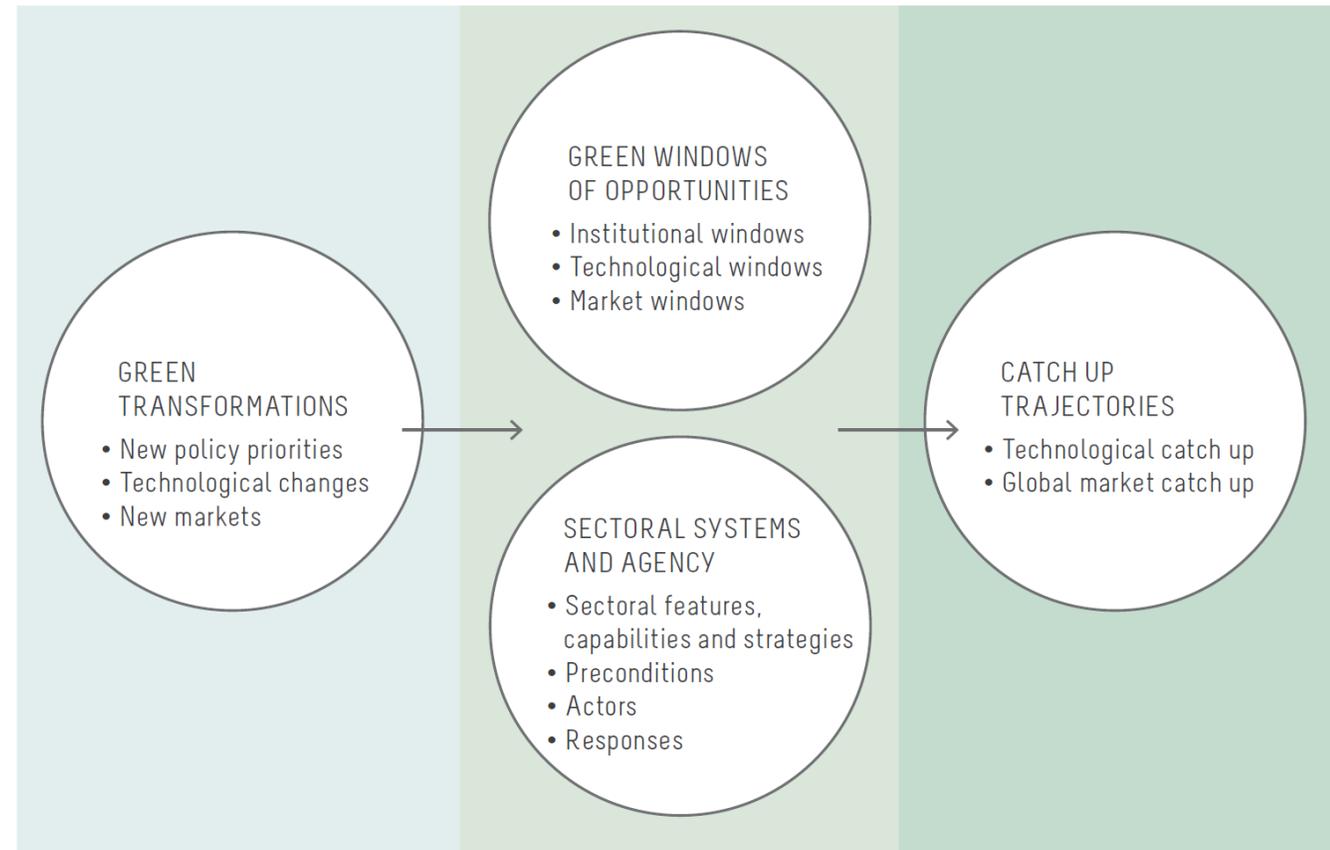
Xiaolan Fu
Oxford University

Roberta Rabellotti
University of Pavia

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Research questions

- Is the green transformation opening new latecomer development opportunities?
- What are the conditions and dynamics of green latecomer development?
- Do we need new conceptual frameworks to understand the determinants of changes in green industry leadership?



Empirical studies

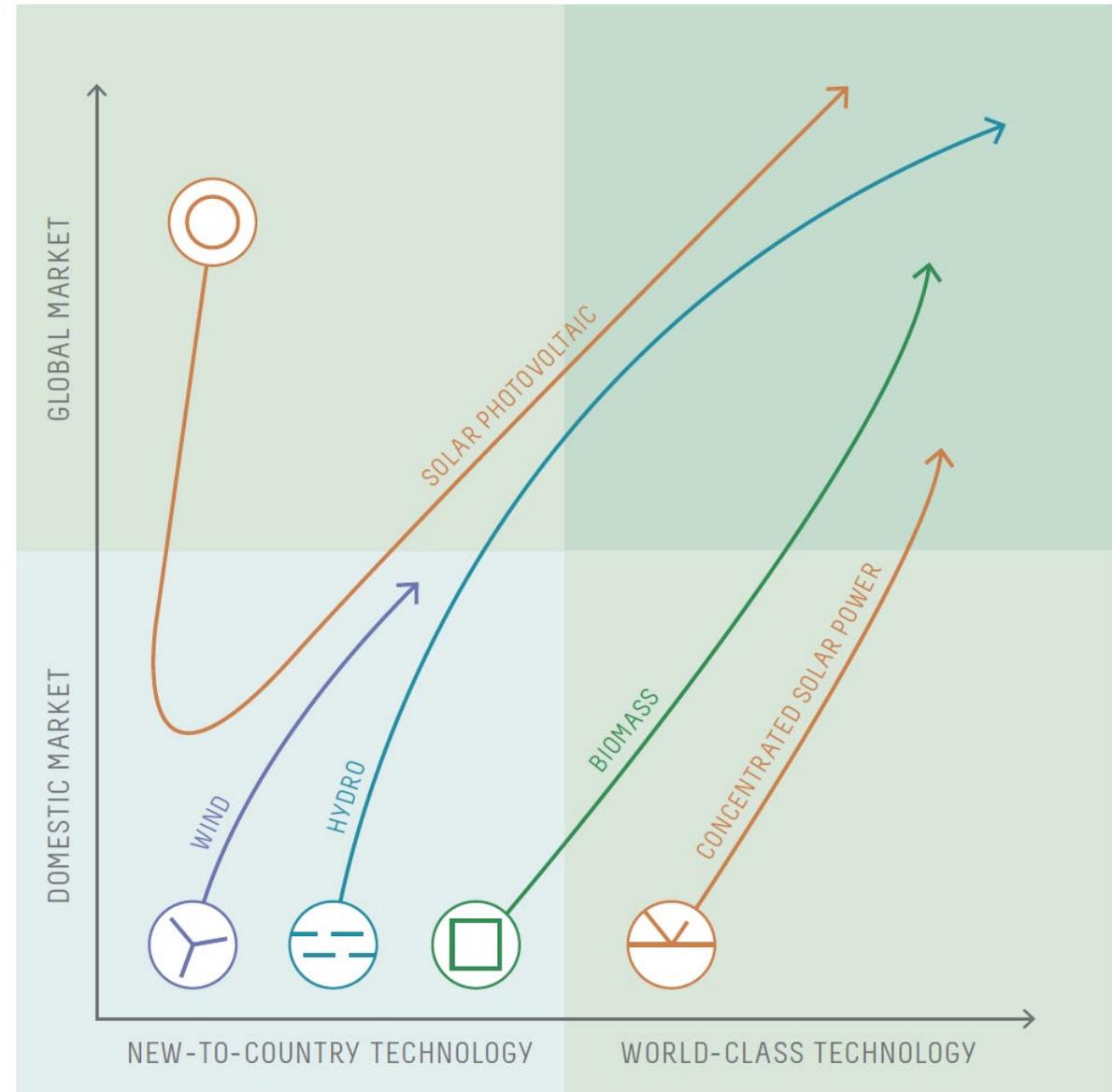
- Focus on experiences of renewable energy industries in China (and globally)
- Insights from combining sectoral case studies and cross-cutting analysis
- Seven articles brought together in *Industrial and Corporate Change*, Volume 29, Issue 5

Sectoral studies

- Biomass
- Concentrated Solar Power
- Hydropower
- Solar PV
- Windpower

Key findings

- There is significant variability in catch up trajectories at the sector level
- Common finding: institutional (policy) changes open new *green windows of opportunities (GWOs)*
- Sectoral characteristics and technological maturity (standards) are key in explaining variability
- Opportunities depend on the actions of firms and other public and private actors in the sectoral system of innovation.



Green windows of opportunity - so what?

Takeaways

- There can be important synergies between green transformation efforts and latecomer catching up
- Support policies need sector-specific approaches
- Catching up has important implications for global competition and collaboration along value chains and it differs markedly from sector to sector

Implications and new questions

- Can Chinese experiences be emulated elsewhere?
- Are there lessons relevant for 'global challenge-led windows of opportunities' in other industries, e.g. health?
- How different are the impacts of new and emerging technologies on green transformations in advanced and emerging economies?

Already available online

Binz, C., J. Gosens, J., X.-S. Yap and Z. Yu (2020), [Catch-up dynamics in early industry lifecycle stages: A typology and comparative case studies in four cleantech industries](#), *Industrial and Corporate Change*, **29**(5)

Hain, D. S., R. Jurowetzki, L. Oehler and P. Konda, P. (2020), [From catching up to industrial leadership: Towards an integrated market-technology perspective](#), *Industrial and Corporate Change*, **29**(5)

Hansen, T. and U. E. Hansen (2020), [How many firms benefit from a window of opportunity?: Knowledge spillovers, industry characteristics, and catching up in the Chinese biomass power plant industry](#), *Industrial and Corporate Change*, **29**(5)

Landini, F., R. Lema and F. Malerba (2020). [Demand-led catch-up: A history-friendly model of latecomer development in the global green economy](#), *Industrial and Corporate Change*, **29**(5)

More to come soon – contact lema@business.aau.dk if you want a copy of the introductory article