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An Ontological Politics of Comparative Environmental Analysis: The Green Economy and Local Diversity

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Abstract
This article contributes to comparative environmental politics by integrating comparative analysis with debates about ontological politics as well as science and technology studies. Comparative environmental analysis makes two tacit assumptions: that the subject of comparison (e.g., an environmental policy framework) is mobile and can be detached from its contexts; and that studying this subject in more than one location can identify its diffusion and implementation anywhere. These assumptions are sites of ontological politics by predetermining (or restricting) environmental outcomes. Environmental analysis needs to consider how its own comparative acts might reify supposedly global frameworks rather than acknowledging how different localities appropriate and give meaning to them in diverse ways. The concept of civic epistemologies illustrates how domestic politics are organized around supposedly global concepts, rather than how global concepts diffuse around the world, as illustrated here by a comparative analysis of the United Nations’ Green Economy Initiative.

There is an old story about two monks watching a flag blowing in the breeze. The first monk says, “The flag is moving.” The second replies, “The wind is moving.” A passing abbot intervenes, “It is not the flag, nor the wind, but your mind that moves.”

Comparative environmental analysis can be somewhat like the monks’ story. In order for comparison to identify similar or different outcomes of an environmental policy framework, it must distinguish between flags and wind through a multi-step methodology. First, it needs to identify a subject that can be analyzed at a distance. Second, the subject has to be geopolitically mobile, i.e., having various states of existence in different locations. And third, the subject has to be separable from (or independent of) local contexts in order to reveal relationships between the global subject and different contexts where it
occurs. Comparative environmental analysis therefore depends on dual assumptions about mobility—the extent to which the subject can be detached from and circulate between contexts—and representation—the ability to know when the subject exists, separately from its context.

We argue that these implicit assumptions warrant critical scrutiny because comparative environmental analysis often confuses flags and wind. In other words, comparisons often look for the existence of specific, pre-defined environmental subjects in different locations, while missing how local contexts define and drive diverse pathways to widely varying outcomes. These local outcomes can be very different from the supposedly global subject under comparison, but are still used to demonstrate the mobility of that subject. Comparative environmental analysis needs clarity about what is being compared; how and by whom this is identified; and how some comparative approaches may hide these questions. Such scrutiny and clarity are necessary for extending the past insights of comparative analysis within political science.

To discuss this dilemma, we draw upon growing debates about ontological politics and apply them to the United Nations’ Green Economy Initiative. Ontological politics has been defined as “conflicts involving different assumptions about ‘what exists’”¹ and has been discussed within social science in recent years, largely complementing debates within science and technology studies (STS). As we will show, ontological politics draws attention to the implicit politics by which comparative environmental analysis defines its subject or marshals evidence for subjects. We consider this theme by asking how comparative environmental analysis might—in effect—reify concepts that appear global but have sufficient differences in different localities to question whether they can be called global. Using the analogy of the monks’ story, various researchers point to the growth of the Green Economy Initiative in different countries, but perhaps they are seeing the flag of the United Nations Environment Programme (UNEP) flying around the world, rather than local winds, or the mindsets that emphasize flags over wind.

To overcome these challenges, we draw from STS debates about how concepts circulate between contexts. In particular, we argue that one common means of analyzing circulation—actor network theory—needs to be tempered by an analysis of how localities appropriate and give meaning to global frameworks rather than simply adopting frameworks as though they are mobile and detached from contexts. To fill this gap, we use the alternative concepts of co-production and civic epistemologies to demonstrate culturally specific ways of knowing through which localities or contexts identify their own paths to environmental outcomes, rather than adopt a freely circulating concept that is often the subject of comparative environmental politics.² Instead, we aim to show how comparison itself, without due consideration, can reify the appearance of

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¹. Blaser 2013, 547.
². Jasanoff 2005, 255; Miller 2008; also see Steinberg and VanDeveer 2012, 4.
mobility and reduce attention to different (and possibly more important) local responses and meanings given to environmental policy.

**The Allure of Comparative Environmental Analysis**

As a field, global environmental politics commonly focuses on how environmental regimes form, and accordingly on the relative progress of different nation-states or territories in adopting environmental policies. Mark Purdon notes in his introduction to this special issue that comparative environmental analysis can help “open the black box” of domestic politics to help us understand different drivers of national governments’ willingness to participate in global policy.³

Comparative environmental analysis can also indicate the diversity of responses to global environmental challenges. Steinberg and VanDeveer, for example, note:

> Systematic comparisons of domestic environmental politics allow us to move beyond ill-defined exhortations to “save the planet” toward a greater understanding of the vast array of social responses to environmental problems in diverse countries around the globe.⁴

Indeed, they go on to state that comparative environmental analysis helps to “gain insights into the cause-and-effect relationships that lead states and social actors to practice or ignore environmental stewardship.”⁵ But what is assumed about the latter concept?

Another well-cited example of cross-national comparison of environmental values by Dunlap and York⁶ analyzed how different countries were adopting post-materialist values to indicate progress towards environmental policy. The research asked respondents questions such as whether they approved of ecological or nature movements, whether they would pay more taxes to prevent environmental damage, and if they believed protecting the environment should be prioritized over economic growth. The authors concluded:

> [E]nvironmental activism in [developing] countries is often reflective of widespread public sentiment. Clearly, both environmental activism and public support for environmental protection have become global phenomena and are no longer—if they ever were—limited to the wealthy nations of the world.⁷

Despite the scholarship of these studies, they beg important questions. They do not explore who defines or legitimizes visions of “environmental stewardship.”

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³. Purdon, this issue, citing Victor 2011, 8.
⁴. Steinberg and VanDeveer 2012, 29.
⁵. Steinberg and VanDeveer 2012, 29.
Similarly, by asking simply about public support for “ecological values,” the question neglects how these may have various forms within and/or across contexts; the same holds true for various forms of “economic growth.” As in this study by Dunlap and York, comparative analysis has been used to illustrate and explain the dissemination of environmental values as “global phenomena.” However, the various ways in which values can be defined—and the diversity of pathways to achieve them—seem to be hidden unwittingly in the overall objective to demonstrate optimism about environmental values spreading around the world.

**Ontology and Globalizing Assumptions**

Our critical questions above raise concerns about the ontological politics at play by referring to conflicts about how “environment” or “ecological values” are defined by actors, generally in tacit ways. Comparative environmental analysis often keeps the differences tacit, through ontological assumptions about a geopolitically mobile subject (as above) and/or through insufficient attention to its diverse forms, when representing environmental outcomes in different contexts around the world.

These challenges demonstrate what STS debates call co-production: knowledge generation occurring simultaneously with visions of social order (and vice versa). Co-production can demonstrate how social values influence what is identified and measured as appropriate (environmental) performance. It can also be used to analyze how frameworks of environmental analysis can separate those outcomes from local contexts.

One early analysis of co-production within global environmental politics focused on the assumptions underlying the 1972 *Limits To Growth* report, which ominously predicted, “Short of a world effort… the outcome can only be disaster.” However, according to co-productionist analysis, this outcome could only be projected by assuming that citizens around the world adopt a “rational choice” response to resource scarcity, such as competing for resources or failing to adopt means of mitigating consumption. Accordingly, this analysis argued that the *Limits To Growth* model could only co-exist with a parallel (but implicit) model of individual behavior—which was not justified by research on social behavior in different locations.

Another early co-productionist analysis was Agarwal and Narain’s famous criticism of the World Resources Institute’s assertion that China, India, and Brazil were among the top six countries responsible for anthropogenic climate change, on the grounds of current rates of fossil-fuel use and deforestation. The authors argued for the consideration of other aspects: per capita energy

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use, historic deforestation, and whether fuels are used for livelihoods or high-consuming lifestyles. This study demonstrated the principle of co-production by showing how supposedly neutral cross-national comparisons of global climate change policy also carry parallel (and implicit) normative assumptions about appropriate origins of emissions, assumptions that—allegedly—overlook international inequalities in development.

STS approaches to cross-national environmental comparisons aim to identify the implicit social norms that—in turn—shape measurements of how different countries adhere (or not) to standards of environmental performance. So, for example, when Keck and Sikkink claimed that international advocacy coalitions of environmental NGOs and campaigners in different countries allow "ecological values to be placed above narrow definitions of national interest," they pay insufficient attention to what "ecological values" mean and how completely they are accepted. Similarly, the aforementioned questions posed by Dunlap and York imply a necessary choice between economic growth and ecological values, thus making ontological assumptions about what both concepts mean. This framework pre-empts the possibility of actors reframing the concepts as compatible.

Comparison and Diversity

Through such blind spots, comparative environmental analysis might contribute to a normative form of cultural globalization if it seeks to analyze by comparing national adoption of environmental values predefined in culturally specific ways, or without sufficient awareness of what alternative values are being excluded. To avoid this blind spot, comparative methods need to become more aware of the underlying models of mobility and representation of environmental outcomes. How to achieve this awareness?

Within STS, actor-network theory has been used as a framework to consider how concepts or "facts" circulate between contexts when the conditions that first identified these items are recreated at different sites. Bruno Latour, for example, argued that Pasteur’s scientific experiments on anthrax changed practices across France via the tacit assumption that progress could be made only when the same laboratory-type conditions were replicated in distant places in the field. From this framework arose the concept of "immutable mobile," i.e., an object that remains stable between contexts because the social conditions that uphold them are replicated in each location. In this sense, uncritical approaches to comparative environmental analysis implicitly look for actor networks that can enhance the circulation of immutable mobiles in different contexts; evidence for them is equated with global diffusion.

The actor–network framework also contains tensions and different approaches that challenge the earlier focus on immutable mobiles. One famous analysis of international comparisons of anemia showed that different countries and organizations defined and measured anemia very differently. Accordingly, the international “comparison” was made coherent only because scientists labeled these diverse measurements under the single category of “anemia.”

By analogy, “global environmentalism” might therefore disseminate in similar ways if diverse national pathways are labeled loosely as representing the same transition, thus reinforcing academics’ ontological assumptions.

Moreover, actor–network theory has been criticized for prioritizing the analysis of circulation, while neglecting how localities make and achieve their own environmental outcomes, which might or might not be identified and compared between contexts. According to Sheila Jasanoff:

[W]hen actor-network theory confronts the nature of power, as it often does, it side-steps the very questions about people, institutions, ideas and preferences that are of greatest political concern. Who loses and who wins through the constitution of networks? How are benefits and burdens (re)distributed by or across them? How willing or unwilling are participants to change their behavior or beliefs because of their enrollment into networks?

Pursuing the above questions, STS scholars elaborated the concept of civic epistemologies—how localities identify and legitimize norms of behavior, as well as making them visible within global initiatives. Civic epistemologies, defined as the “national cultures of rationality,” offer a means of identifying local influences on environmental values or different pathways for adopting global policies.

The relevance of civic epistemologies to comparative environmental analysis goes beyond merely cognitive aspects. As Steinberg and VanDeveer note: “[national] variance [in environmental performance] is due in part to differences in the way that science is organized in distinct national settings.” Civic epistemologies, however, emphasize the extra-cognitive, normative shaping of environmental responses, beyond simple adherence to internationally defined standards. Crucially, civic epistemologies are also defined as “the dimensions of political order that each state seeks to immunize or hold beyond question” and the ways by which “the commingling of is and ought takes place.” Consequently, civic epistemologies offer insights to the variety by which different locations interpret and respond to environmental policies, rather than adopting pre-defined

20. Steinberg and VanDeveer 2012, 4.
environmental values and outcomes. These locations can be national, sub-national, or any scale in which knowledge claims are made and contested in coherent terms.

The Green Economy Example

UNEP defines a green economy as:

[...]one that results in improved human well-being and social equity, while significantly reducing environmental risks and ecological scarcities. In its simplest expression, a green economy can be thought of as one which is low carbon resource efficient and socially inclusive.23

The Green Economy Initiative (GEI) was launched by UNEP in 2008 as a means of integrating economic development with sustainable development. It was based on the goal of achieving three key objectives: a new economic management to avoid the misallocation of resources; an acknowledgment that population growth and consumption threaten scarce resources; and a commitment to assisting poorer and more vulnerable people, such as in developing countries. UNEP identified five key enabling conditions for establishing a green economy:24 to work against the implicit subsidies of underpriced resources (such as air and water as sinks for uncosted pollution); appropriate pricing for resources and all other inputs to an economy in order to avoid underpricing resources; encouraging investment in resource-efficient research and development; higher levels of efficiency; and environmental regulation to pre-empt resource scarcity and redirect economies away from unsustainable activities.

Various NGOs and academics have criticized the GEI, however, on the grounds that it does not adequately transform current economic practices, leaves intact the “brown economy” or even extends neoliberal globalization. For example, within the GEI framework, the Natural Capital Declaration of Chief Executives from financial companies undertook to incorporate natural capital into their balance sheets.25 A network of civil society organizations, however, stated that the declaration “is based upon a fatally flawed understanding of the root causes of crises (imperfect valuation of ‘Natural Capital and Ecosystem Services’) and proposes an equally flawed solution to them (proper pricing).”26

The GEI generated different international comparisons that illustrate the implicit political challenges of comparative environmental analysis. For example, a new global network of researchers and practitioners recently published Green Growth in Practice: Lessons from Country Experiences, which drew lessons from nine countries including Morocco, Kenya, Bangladesh, South Korea,

Singapore, Brazil, Mexico, Costa Rica, and the USA. Although the report refers to “green growth,” the links with the GEI are clear: “Green growth is becoming an attractive opportunity for countries around the world to achieve poverty reduction, environmental protection, resource efficiency and economic growth in an integrated way.”

Although implying various national means towards the same objective, the report indicates the diversity of pathways adopted. For example, “China has committed to green growth in its 12th Five Year Plan. Actions include investing in natural resource management, with the aim of creating one million new forestry jobs and reducing rural poverty.” By contrast, “Korea has adopted a green growth strategy to drive economic competitiveness through development and use of advanced technologies. The government is investing in innovation and deployment programs for 27 priority technologies, guided by a Green Technology Roadmap with the goal of becoming the world’s seventh largest economy by 2020.” The Japanese government created a comprehensive strategy focused on four areas: green, life, agriculture, and small and medium enterprises. Japan thereby aims to “construct a resilient and adaptable socioeconomic and demonstrate model solutions to the world by addressing energy constraints and an aging society; and build local communities driven by individuals and entrepreneurs supported by local agriculture to reap the benefits of a new kind of growth.”

A comparative analysis requires asking some difficult questions: How (much) do any of these objectives demonstrate a distinctive shift from pre-existing national technological and social policies in these countries? Is all this a gradual diffusion of the GEI to different countries around the world? Or is this an optical illusion, based on how governments and expert agencies write reports about the green economy? As in the monks’ story, it is important to consider the extent to which evidence depends on the eye of the beholder.

In terms of evaluating evidence, consider this example:

Ethiopia used a broad analytic framework for assessing green growth benefits. An Integrated Assessment Model was used for macro-economic impact such as the loss of GDP from climate change impacts in the agriculture and energy sectors. The benefits (and costs) of each option were assessed using multiple criteria that ranged from economic cost-benefit ratios, to qualitative assessments of the benefits for biodiversity and poverty reduction. A relatively basic spreadsheet-based analysis was used to assess sector specific benefits.

Does this description suggest that evidence of green growth in Ethiopia was the work of an enterprising analyst in front of a computer, rather than transitions in economic investments and behavior? Other examples of “national”

27. GGBP 2014.
29. All citations are from GGBP 2014, 13–23.
progress seemed based on individual projects rather than new national policies. For example, the report cites the example of a World Bank funded watershed management project in Karnataka, India, which “employed a systems approach, with a focus on soil and water conservation and sustainable resource use, and used participatory planning and implementation to improve local livelihoods, gender equity, and community capacity.”

Another study compared the GEI in Malawi, Mozambique, and South Africa. Echoing the concerns of Agarwal and Narain, this study argued that a literal adoption of the GEI would reduce the opportunities for these countries to gain economic competitive advantage—by restricting local development of fossil fuel deposits—but would also “generate substantial domestic resistance, especially among the poor.” For example, in South Africa in 2001, coal supplied 81 percent of installed electricity capacity but 94 percent of total domestic demand because of the low load-bearing capacities of renewable energy. In Malawi, there was popular and government resistance to the GEI proposal to end subsidies on agriculture fertilizers, considered essential to local food security.

In Mozambique biofuel from the jatropha plant has been promoted as an opportunity to employ unskilled labor and reduce dependency on imported oil, but it might also increase deforestation because it requires greater disturbance of currently unplanted land. By contrast, ethanol from sugar cane offers higher energy production but less scope for hiring unskilled labor. It is therefore unclear how green growth can achieve its combined objectives of alleviating poverty and reducing environmental degradation. Such choices are further complicated by plantation-scale biofuel development, which diverts scarce water from food crops, as criticized by local NGOs.

These observations highlight that cross-national comparisons have asked mainly to what extent different countries have adopted the GEI as a central, allegedly transferable framework, but the analysis can be read instead as diverse pathways to different outcomes. (Indeed, it can also indicate local concerns about the GEI framework). Taking this comparative analysis at face value implies that the GEI is a globally mobile, comparable outcome—contrary to its great diversity. It also implies that progress can be identified by measuring its adoption, thus obscuring the normative criteria and accountabilities driving its local versions.

**Conclusions**

Comparative environmental analysis can be a powerful explanatory tool and in turn a political tool to pursue better futures. But such analysis also can be blind,
by conflating movement of a flag, the wind, and the mind of the beholder. We argue that comparative environmental analysis should consider how far the act of comparison itself can reify supposedly global concepts as mobile, transferable frameworks—rather than see how localities appropriate or give meanings to these and other environmental frameworks. Comparative environmental analysis therefore should not simply identify the different factors driving national or sub-national levels of participation in global environmental policies, but also ask how the act of comparison (and the selection of evidence to demonstrate differences) can reify or hide how different localities identify and respond to environmental initiatives.

Comparative environmental analysis can reify or hide diversity in environmental activities and perceptions through a tacit process of ontological politics. These politics exist in two tacit assumptions: that the subject of comparison (such as an environmental policy framework) can be detached from its context; and that studying this subject in more than one location can identify its diffusion and implementation anywhere. These ontological assumptions predetermine (or restrict) the definition of appropriate environmental outcomes, thus missing how local contexts define and drive diverse pathways to widely varying outcomes. Local outcomes can be very different than the supposedly global subject under comparison, but the reasons these local responses are different can be ignored if the objective of comparison is to demonstrate the mobility of the main subject of comparative analysis. While many proponents of comparative environmental politics argue that this style of analysis aims precisely to identify local drivers for policy, we cite examples of comparative analysis of environmental values and the GEI that have compressed local differences into alleged evidence for the mobility of concepts. 37 We identify such blindspots and proposed a framework for avoiding them, as a basis for realizing the benefits of comparative environmental politics.

Comparison itself contains various ontological politics. This is a slightly different understanding from that of Steinberg and VanDeveer, who proposed that comparative environmental politics (or analysis) is a positive collaboration between “those concerned with the fate of the planet and its people and those engaged in the comparative study of political life.” 38 In contrast, we argue that comparative environmental analysis (or comparative environmental politics) is not an allocation of labor between political scientists (who do the comparison) and environmentalists (who provide the concern about the planet). Rather, we need to see how knowledge, concern, and analysis are produced together. STS scholars have labeled this association co-production—or the mutual creation of knowledge with visions of social order. 39 Comparative analysis can inadvertently hide ontological differences in how localities conceptualize “the environment,” its protection, their own responsibilities, etc. As an example of such

37. E.g., Dunlap and York 2008; GGBP 2014.
38. Steinberg and VanDeveer 2012, 30.
differences, the GEI has taken diverse national forms, but despite the claims of comparative analysis discussed in this paper, it remains unclear whether these countries adopted new global norms under the green economy banner, or merely presented pre-existing activities and policies to give that appearance.

To overcome these challenges, we proposed that comparative analysis needs to ask two additional questions: “What is” being compared? (Or, is the subject sufficiently mobile to be detachable from contexts?) And by assuming that something is mobile and comparable, are local contexts and their drivers being hidden? The civic epistemologies framework offers means to identify the local contexts, drivers and accountabilities whereby localities devise environmental norms. This framework also focuses more upon how environmental values and policies are contingently made, rather than simply circulate for adoption (or not). In this sense, we have argued that the analysis of circulation under actor network theory needs to be complemented by referencing co-production and civic epistemologies. Together, the analysis of how comparison contains tacit ontological assumptions, how localities appropriate global concepts and how researchers or other reporters portray localities as adopting global concepts represent tacit ontological politics. These questions warrant further investigation within the emerging field of comparative environmental analysis.

References


