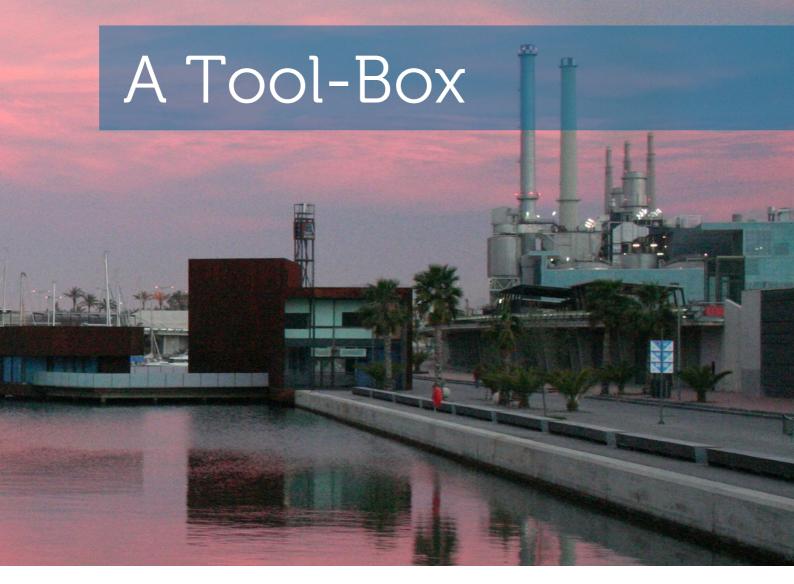


Green Industrial Policy and Trade























Copyright © United Nations Environment Programme, 2017, on behalf of PAGE

The report is published as part of the Partnership for Action on Green Economy (PAGE) – an initiative by the United Nations Environment Programme (UN Environment), the International Labour Organization (ILO), the United Nations Development Programme (UNDP), the United Nations Industrial Development Organization (UNIDO) and the United Nations Institute for Training and Research (UNITAR).

This publication may be reproduced in whole or in part and in any form for educational or non-profit purposes without special permission from the copyright holder, provided acknowledgement of the source is made. The PAGE Secretariat would appreciate receiving a copy of any publication that uses this publication as a source.

No use of this publication may be made for resale or for any other commercial purpose whatsoever without prior permission in writing from the PAGE Secretariat.

Citation

PAGE (2017), Green Industrial Policy and Trade: A Tool-Box

Disclaimer

This publication has been produced with the support of PAGE funding partners. The contents of this publication are the sole responsibility of PAGE and can in no way be taken to reflect the views of any Government. The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the PAGE partners including concerning the legal status of any country, territory, city or area or of its authorities, or concerning delimitation of its frontiers or boundaries.

The views expressed do not necessarily represent the decision or the stated policy of the PAGE partners, nor does citing of trade names or commercial processes constitute endorsement. Although great care has been taken to maintain the accuracy of information herein, neither UN Environment nor its Member States assume any responsibility for consequences which may arise from the use of the material.

Green Industrial Policy and Trade: A Tool-Box

The Environment and Trade Hub of UN Environment and UNIDO, under the Partnership for Action on Green Economy (PAGE), cooperate to undertake Green Economy Industry and Trade Assessments (GITA) in various PAGE partner countries, in collaboration with respective national partner institutes. To inform and guide the work of national partners, UN Environment and UNIDO have developed a tool-box discussing trade-related green industrial policies.

The Green Industrial Policy and Trade Tool-box serves as a 'how to' guide for national partners in considering different trade-related policy options to promote green industrial development. The tool-box provides a concise but encompassing overview of trade-related green industry policy tools and presents a methodology to assess the application of these tools. It is targeted primarily at national policy makers and green economy professionals that want to support green industrial development to transition to an inclusive green economy.

Acknowledgements

This publication was jointly developed by the Environment and Trade Hub (UN Environment) and the United Nations Industrial Development Organisation, under the Partnership for Action on Green Economy (PAGE).

The publication was authored by Jorge E. Viñuales (University of Cambridge), with support from Elena Antoni (UN Environment).

The overall process was managed by Elena Antoni (UN Environment) under the guidance of Anja von Moltke (UN Environment), and Konrad Ojeda (UNIDO) under the guidance of Claudia Linke Heep (UNIDO). The publication went through a number of review processes, including with PAGE partners, external experts, a review workshop held at The Graduate Institute, Geneva, on 28 August 2017, and a seminar at the International Labour Office, on 5 October 2017.

Contributions and suggestions from the following external and internal reviewers are gratefully acknowledged: Lorand Bartels, Verena Balke, Clara Brandi, Zoe Brennan, Elena Cima, Taylor Clayton, Liesbeth Casier, Neil Craik, Leslie-Anne Duvic-Paoli, Ilaria Espa, Markus Fischer, Florian Grisel, Moustapha Kamal Gueye, Steffen Kaeser, Ginevra Le Moli, Liang Guoyong, Tayutic Mena, Asad Naqvi, Maria Augusta Paim, Anna Pegels, Hector Pollitt, Anne Saab, Catherine Saget, Pablo Salas, James Salzman, Felipe Sandoval, Ronald Steenblik, Mahesh Sugathan, Junko Tayra, Vera Weick, Kerstin Wonka and Ying Zhang.

Thank you to Aiora Zabala for the layout design. All photos are under a Creative Commons license.

PAGE gratefully acknowledges the support of all its funding partners: European Union, Germany, Finland, Norway, Republic of Korea, Sweden, Switzerland and the United Arab Emirates.

Table of contents

Summary for pol	icy makers	7
Chapter 1: Green	industrial policy and international trade	10
	1. Green industrial policy and trade	11
	2. The manual in the broader context of green industrial policy resources	17
	3. How to use this manual: Methodological framework	23
	Resources	27
Chapter 2: Border measures		29
	1. Overview	30
	2. The tool-box	33
	3. Case-studies	41
	Summary table	45
	Resources	46
Chapter 3: Suppo	ort schemes	47
	1. Overview	48
	2. The tool-box	51
	3. Case-study: Supporting renewable energy in South Africa	66
	Resources	69
Chapter 4: Stand	ards	70
	1. Overview	71
	2. The tool-box	73
	3. Case-studies	86
	Summary table	89
	Resources	90
Chapter 5: Sustainable public procurement and manufacturing		91
	1. Overview	92
	2. The tool-box	95
	3. Case-studies	105
	Summary table	107
	Resources	109
Chapter 6: Provis	tions in trade agreements reserving or promoting green industrial policy	110
	1. Overview	111
	2. The tool-box	113
	3. Case-study: the integration of renewable energy in FTAs	128
	Summary table	133
	Resources	135
Chapter 7: Employment-related schemes		136
	1. Overview	137
	2. The tool-box	140
	3. Case-studies	147
	Summary table	150
	Resources	151
Detailed table of	contents	152

Figures

Chanter 1		10
Chapter I	Figure 1: Methodology to guide trade-related green industrial policy	
Chamtau F	rigure 1. Metriodology to guide trade-related green industrial policy	
Chapter 5		
	Figure 1: Rationales and policy tools	
	Figure 2: UN Environment's approach to sustainable public procurement	
	Figure 3: Green manufacturing at different stages of the production cycle	
Chapter 6		110
	Figure 1: Trends in the use of renewable energy provisions in EU FTAs (ordered chronologically from 1992 (EEA) to 2016 (CETA))	
	Figure 2: Renewable energy provisions in EU FTAs	129
	Figure 3: Renewable energy provisions in US FTAs	130
Chapter 7		136
	Figure 1: Green Jobs	139
		
Tables		
Chapter 2		
	Summary table	45
Chapter 3		47
	Table 1: Trade-relevant support schemes for green industries	50
	Table 2: Taxonomy of local content requirements	58
	Summary table	68
Chapter 4		70
	Table 1: Standards and their design options	73
	Summary table	89
Chapter 5		91
	Summary table	107
Chapter 6		110
	Summary table	133
Chapter 7		136

Boxes

Chapter 2		29
	Box 1: Boosting green industries through border measures	32
	Box 2: Fuel Ethanol Tariff	35
	Box 3: The China – Raw Materials and China – Rare Earths rulings	40
Chapter 3		47
	Box 1: Fast-tracking green patent applications	52
	Box 2: China's Golden Sun Program	53
	Box 3: The experience of Germany and Brazil in developing a renewable energy industry	
	Box 4: The Canada – Renewables and India – Solar Cells rulings	61
	Box 5: The influence of EU organic requirements	
	Box 6: Ecuador's green exports strategy	64
Chapter 4		70
	Box 1: Boosting green industries through standards	72
	Box 2: ISO 14001 certification	75
	Box 3: Premium prices for Forest Stewardship Council-certified wood and produ	ıcts76
	Box 4: Exports of Nepalese organic tea	79
	Box 5: Leadership in Energy and Environmental Design (LEED)	81
	Box 6: Korea's standards for solar panels	83
Chapter 5		91
	Box 1: Hong Kong's procurement of LED traffic light retrofit	98
Chapter 6		110
	Box 1: The legal relevance of the WTO Agreement's preamble	116
	Box 2: Examples of provisions reserving environmental regulatory space	118
	Box 3: GATT Article XX - General Exceptions	120
	Box 4: Article II:2(a) of the GATT	121
	Box 5: Provisions in FTAs relating to trade in environmental goods and services.	122
	Box 6: TPP provisions relating to support schemes	123
	Box 7: Provisions specifically referring to standards	125
	Box 8: Examples of provisions reserving environmental regulatory space	126
Chapter 7		136
	Box 1: Job impact of the transition to a green economy	138
	Box 2 : Country assessments	142
	Box 3: Transitions in coal mining	143

Summary for policy makers

The green industrial policy turn

Emerging global threats arising from ecological tipping points and inequitable distribution of resources call for a new economic model capable of delivering enhanced prosperity and growing social equity, within the contours of a finite and fragile planet. This requires a structural change towards an economy that is low carbon, efficient and clean in production but also inclusive in consumption and outcomes. Industrial policy refers to government actions to alter the structure of an economy, encouraging resources to move into sectors that are perceived as desirable for future development. As such, lessons from industrial policy in the past can provide important guidance for countries transitioning to an Inclusive Green Economy. A green industrial policy can therefore be defined as an industrial policy that is meant to trigger and facilitate structural changes as entailed, or required, both to respond to environmental conditions or situations, and to develop a green, circular economy. As such, green industrial policy can be an important instrument to facilitate structural change. This is the case particularly in situations where so-called 'market failures', or imperfect market conditions, prevent the structural changes required to shift to an Inclusive Green Economy.

Trade-related green industrial policy tools

This tool-box aims to guide policy makers in the use of green industrial policy instruments that can be employed to improve a country's economic competitiveness while advancing environmental protection and social inclusiveness. In doing so, this tool-box focuses on a sub-set of green industrial policies, namely trade policies that can be harnessed to promote green industries and green industrial policies that are of particular relevance from an international trade perspective. This is important because, firstly, trade is a highly regulated area of international law and policy makers must ensure that their policy choices are aligned with their obligations in global, regional and bilateral frameworks.

Secondly, trade has increasingly been recognized by the international community as an important driving force for sustainable development. This tool-box therefore aims to provide policy makers with guidance on how to navigate the complex interface between trade and green industrial policy, while realizing the potential that trade has to offer for the global shift towards an Inclusive Green Economy.

How to use this tool-box

This tool-box is intended as a practical and policy-relevant manual, targeted at national policy makers concerned with industrial, trade or environmental policies, as well as negotiators of trade and investment agreements. It therefore aims to provide a 'menu for choice' of the trade-related green industrial policy tools available and clarify their structure and operation, while outlining their implications with regard to trade policy. In doing so, the tool-box refers to some of the most relevant examples, successful but also unsuccessful. It also points to more specific resources for those that want to explore a particular tool further.

This tool-box can be used in two main ways: firstly, it can be used as a stand-alone resource by decision-makers who want to consider a wide range of trade-related policy options to advance certain pre-set goals. Secondly, when a State is still in the process of exploring whether or not to implement a green industrial policy and no general or specific goals have been set, a broader strategic process is necessary. In this case, this tool-box can be used as a complement to UNIDO's *Practitioner's Guide to Strategic Green Industrial Policy*.

The policy tools discussed in this tool-box

Within the broad spectrum of green industrial policies, this tool-box focuses on trade-related policy options that are made up of two categories of policies: the first category includes typical trade policies, such as tariffs and other border measures or provisions in trade agreements. These can be

used to conduct green industrial policy or to secure policy space for domestic instruments that promote green industrial policy. The second category encompasses policy instruments, such as subsidies and other support schemes, standards and public procurement, which due to their influence on trade, are highly regulated in international trade law. This category also covers employment-related policies, because trade normally entails major structural adjustments which, together with the transitional dimension of the move to a green economy, call for adequate employment and social policies. These policy tools are presented in individual chapters. Each chapter discusses the policy rationales for using the tool, the main varieties of the tool and their implications, and some representative examples. A summary table places the tool within an overarching methodology to guide trade-related green industrial policy. Furthermore, each toolchapter is accompanied by a list of carefully selected resources to go further in the understanding and implementation of the tool.

Chapter 2 discusses a variety of border measures that can be used by either importing or exporting countries as a tool of green industrial policy. These include tariff adjustments, carbon equalization measures, trade remedies and export restrictions. Tariffs adjustments, for example, may take the form of tariff increases or coordinated tariff reductions. The manual outlines a country's option to increase tariffs on certain goods, which may, in particular circumstances, help to shield infant green industries and realize a latent comparative advantage. However, the manual also draws attention to the complex considerations

operationalization of liberalizing environmental goods at international level and the different avenues chosen by States to implement this approach within their national tariff schedules.

Chapter 3 discusses a wide variety of support schemes, organised under two broad headings, socalled 'soft' and 'hard' green industrial policies. 'Soft' policies include investment in infrastructure, research and development, as well as the reduction or removal of distortive subsidies to brown economy sectors. The enactment of a conducive regulatory framework and innovation policies, such as green patent fast-tracking, are also vital to create an enabling environment. One form of specific, or 'hard' green industrial policies include various forms of targeted financial subsidies. The chapter focuses on two tools that are more specifically related to trade, namely the use of local content requirements and exportrelated support. The chapter surveys their wide use in practice and alerts policy makers to the diverging views that exist on the use of these policy tools. The chapter closes with a case study on the experience of South Africa that switched from a feed-in-tariff to a competitive bidding system for renewable energy generation. The case study illustrates the South African experience of promoting renewable energy capacity while, at the same time, advancing economic development through a criteria-based bidding system linked to local content requirements.

Chapter 4 discusses standards which are broadly understood in this manual to include technical regulations, voluntary standards and conformity assessment procedures. The chapter illustrates

预览已结束, 完整报告链接和二维码如下:

https://www.yunbaogao.cn/report/index/report?reportId=5 14516

