

GREEN INDUSTRIAL POLICY

PROMOTING COMPETITIVENESS AND STRUCTURAL TRANSFORMATION

COURSE SYLLABUS



BACKGROUND

Over two and a half centuries, the model of economic development based on wide-spread industrialization has given rise to both unprecedented prosperity and global ecological threats. Climate change, environmental pollution, biodiversity loss and ubiquitous waste accumulation are severely undermining the material conditions on which continued progress relies. Conventional industrial policy has been a major ingredient of human development as much as it has contributed to environmental risks through unsustainable resource consumption and linear production models.

It is abundantly clear today that a new model of economic development is urgently needed – one that can deliver prosperity, withstand economic shocks, and sustain a healthy environment within the contours of a finite planet. Green industrial policy can be part of the answer by addressing market failures and advancing structural change in those components of the economy that account for a large share of resource use and waste production on the one hand, and infrastructure, technological development and employment on the other.

The diagnosis of rapidly degrading ecosystems is known, and the policy instruments to address the situation are available. One major practical challenge lies in building a critical mass of change agents – and those that inform and educate them – to tip policy action from business-as-usual towards a new paradigm. Responding to the challenge, the United Nations Environment Programme (UNEP), United Nations Industrial Development Organisation (UNIDO) and United Nations Institute for Training and Research (UNITAR) developed this course under the Partnership for Action on Green Economy (PAGE). The course sets out to provide trainers, educators and policymakers with a scientifically sound foundation, didactic instruments and learning material to gain a thorough understanding of the main tenets of green industrial policy and their application around the world.

TARGET AUDIENCE

The course features a distinct design to support trainers and lecturers in advancing learning on green industrial policy at a high technical level. A suite of didactic instruments is offered for integration or tailoring into existing instructional activities. Users are also welcome to peruse the course materials for self-study, since the material is presented in the format of a stand-alone online course. Those with a robust pre-existing understanding of the wider topic are expected to benefit the most. The course should be of particular interest to the following audiences:

1. **Training institutions and universities**, e.g. those entities educating the current and next generation of decision makers in public and private sectors;

2. **Policymakers and planners**, e.g. those working on the design, implementation and/or evaluation of contemporary industrial policy;
3. **Civil society**, e.g. non-governmental organizations, advocacy groups and industrial associations.

LEARNING OBJECTIVES

Building upon the trilogy of reports on green industrial policy¹ developed under PAGE, this course aims to build capacities among its target audience with respect to the following areas:

- Explain the rationale for advancing green industry
- Differentiate the main concepts related to green industrial policy
- Highlight relevant empirical evidence in support of policy reform
- Distinguish policy instruments to foster structural change
- Appraise strategic considerations during policy design, implementation and evaluation
- Outline the relationship between green industrial policy and trade

METHODOLOGY

The methodology of the course enables users to choose a custom learning path from a suite of different materials. These entail short video lectures, curated readings, factsheets, podcasts and assessments. Course elements can be chosen in a modular way to be integrated into existing instructional activities, such as workshops, lectures or seminars, blending online and in-presence formats. The course is also suitable for self-study, and the materials are composed and presented to allow a coherent flow for individual online learners.

Each module is divided into a core which we deem essential to understanding the topic at hand, and additional resources for those that seek an in-depth discussion on more specific aspects and applications of green industrial policy. The course modules follow a logical sequence, charting a path from conceptual understanding towards practical application. However, the course materials can be consulted without restriction in any order, according to the learner's preference.

Learning progress is assessed by means of module-specific questions as well as a final quiz based on the course's core materials. Only the final quiz is graded. Information on certification is provided below.

¹ To access the publications, visit <https://www.un-page.org/greenindustrialpolicy>.

STRUCTURE AND CONTENTS

To help reach the learning objectives, the course is divided into five modules. The core materials for each module takes approximately five hours to finish. Each module starts off with a short video lecture, followed by core readings of approximately 30-50 pages and a factsheet to summarize the main discussion points. The core materials are mandatory for individual learners completing the stand-alone online course. The additional resources contain extended readings and multimedia sources, providing more depth and data. The following table illustrates the module structure:

Core materials
Video lecture
Core readings
Podcast
Factsheet
Module test questions
Final quiz
Additional resources
Suggested in-depth readings
Multimedia resources

The course sets out to provide a wide panorama of the main conceptual and empirical considerations within the current global green industrial policy debate, along five modules with each addressing a specific set of questions. The module outlines are illustrated in the table at the bottom of this page.

CERTIFICATION

Users who pass the final quiz obtain a certificate of completion. The quiz is successfully passed at a score of 70% or higher. Once the certification criteria are met, users can download the certificate from the course's webpage.

TECHNICAL REQUIREMENTS

Browser:

- The course works best with Firefox 50 or higher
- The course is also compatible with Google Chrome and Internet Explorer
- JavaScript & Cookies must be enabled

Platform: 2000, NT, ME, XP or superior; MacOS 9 or MacOS X

Hardware: 64 MB of RAM, 1 GB of free disk space

Modem: 128 K

MODULE 1	MODULE 2	MODULE 3	MODULE 4	MODULE 5
INDUSTRIAL POLICY: CHALLENGES AND OPPORTUNITIES	GREEN INDUSTRIAL POLICY: CONCEPTUAL FOUNDATIONS	STRATEGIC DEVELOPMENT OF GREEN INDUSTRIAL POLICY	GREEN INDUSTRIAL POLICY INSTRUMENTS	GREEN INDUSTRIAL POLICY AND TRADE
What is industrial policy, and why is it justified? What opportunities can industrial policy generate? What specific challenges do developing countries face?	What are the key environmental challenges at a global level? What is green industrial policy, and what are its characteristics? How can green industrial policy support developing countries?	What are the main elements in strategic green industrial policymaking? Who are the key stakeholders that drive green industrial policymaking? What cross-cutting issues should policymakers consider?	Which types of instruments can be employed in green industrial policymaking? What are the main advantages and disadvantages of each type? Which instruments would be most effective in a developing country context?	What is the nexus between green industrial policy and trade? How can international trade law advance green industrial policy? How can trade promote structural transformation in developing countries?

FOR GENERAL INFORMATION ABOUT PAGE

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