

# Taxing Energy

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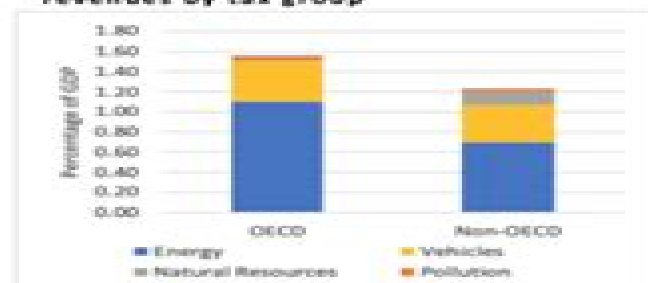
## 1. Introduction

Energy makes possible the investments and innovation that generate jobs, inclusive growth and shared prosperity for entire economies. Fossil fuels are the main source of energy across the globe and thus the energy sector is a major contributor to climate change, responsible for two-thirds of greenhouse gas (GHG) emissions. Currently, the sector is witnessing a major transformation, with renewable energy playing an increasingly vital role in helping countries develop modern and resilient energy systems. Given the global imperative to address climate change, there is a need to both broaden the base of existing energy taxes to cover all fossil fuel use and to rationalize energy tax rates to fully internalize those fuels' environmental costs. There is also often scope for significant fiscal savings (and environmental protection) from eliminating pre-tax subsidies and tax expenditures that promote fossil fuel consumption.

This note provides guidance on how to assess a country's current level of energy taxation and formulate a policy framework for its rationalization and expansion. Section 2 provides an overview of global energy taxes, including a description of the various instruments used, their revenue raising capabilities, and how external costs are included in their formulation. Section 3 discusses policy considerations for achieving an efficient level of energy taxes such as the choice of tax base and rates, revenue potentials, and other major policy concerns. Section 4 summarizes key policy advice and Annex I provides a distributional analysis of energy taxes.

## 2. Overview

► **FIGURE 1: Environmental tax revenues by tax group**



Source: OECD Pise Database

Energy taxes, which comprise fuel excise taxes as well as carbon and electricity consumption taxes<sup>2</sup>, are the largest source of environmental tax revenue worldwide. Among OECD countries, energy taxes on average account for 72% of total environmental revenues. By contrast, among non-OECD countries, some of which generate significant revenue from natural resource taxes, energy taxes account for an average of 52 percent of environmental tax revenues (Figure 1). The share of energy taxes in environmental revenues is also more variable in the developing world. Among OECD countries, the share of energy taxes ranges from about 50 percent for countries such as Iceland and New Zealand to more than 90% for countries such as Poland

<sup>2</sup> This paper is part of a World Bank project, led by Miria Pigato (Lead economist) on "Securing a Sustainable Recovery: A Guide to Green Taxes and Spending", under the supervision of Chiara Bronchi (practice manager) and Marcello Estevao (Global Director) in the Macroeconomics, Trade and Investment Global Practice of the World Bank. The project includes seven technical Notes in response to a growing demand from client countries for insights on green spending policies and tax instruments to help support a sustainable recovery from the Covid-19 induced recession. Financial support from the Just-in Time COVID 19 Support Window for DPFs is gratefully acknowledged.

<sup>3</sup> For an in-depth review of energy taxes, see OECD (2019).

# Taxing Energy Why And How

**Victor M. Corman**



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## **Table of Contents Taxing Energy Why And How**

1. Understanding the eBook Taxing Energy Why And How
  - The Rise of Digital Reading Taxing Energy Why And How
  - Advantages of eBooks Over Traditional Books
2. Identifying Taxing Energy Why And How
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Taxing Energy Why And How
  - User-Friendly Interface
4. Exploring eBook Recommendations from Taxing Energy Why And How
  - Personalized Recommendations
  - Taxing Energy Why And How User Reviews and Ratings
  - Taxing Energy Why And How and Bestseller Lists
5. Accessing Taxing Energy Why And How Free and Paid eBooks
  - Taxing Energy Why And How Public Domain eBooks
  - Taxing Energy Why And How eBook Subscription Services
  - Taxing Energy Why And How Budget-Friendly Options
6. Navigating Taxing Energy Why And How eBook Formats

- ePub, PDF, MOBI, and More
- Taxing Energy Why And How Compatibility with Devices
- Taxing Energy Why And How Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Taxing Energy Why And How
  - Highlighting and Note-Taking Taxing Energy Why And How
  - Interactive Elements Taxing Energy Why And How
- 8. Staying Engaged with Taxing Energy Why And How
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Taxing Energy Why And How
- 9. Balancing eBooks and Physical Books Taxing Energy Why And How
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Taxing Energy Why And How
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Taxing Energy Why And How
  - Setting Reading Goals Taxing Energy Why And How
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Taxing Energy Why And How
  - Fact-Checking eBook Content of Taxing Energy Why And How
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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