1. Record Nr. UNINA9910787282103321 Autore Meier Peter <1942-> **Titolo** The design and sustainability of renewable energy incentives: an economic analysis / / Peter Meier, Maria Vagliasindi and Mudassar Imran; with contributions from Anton Eberhard and Tilak Siyambalapitiya Washington, DC:,: The World Bank,, [2014] Pubbl/distr/stampa **ISBN** 1-4648-0315-3 Descrizione fisica 1 online resource (pages cm) Collana Directions in development 333.79/4091724 Disciplina Renewable energy sources - Developing countries Soggetti Energy policy - Developing countries Sustainable development Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references. Nota di contenuto ""Front Cover""; ""Contents""; ""Acknowledgments""; ""Executive Summary""; ""Abbreviations""; ""Chapter 1 Introduction""; ""Background"": ""Key Issues"": ""Objectives"": ""Why Is Renewable Energy Important for Poor Countries?""; ""Taxonomy of Financial Incentive Mechanisms""; ""Economic vs. Financial Incentives""; ""Organization of the Rest of the Report""; ""Notes""; ""Bibliography""; ""Chapter 2 The Economic Rationale for Renewable Energy""; ""Analytical Framework""; ""Local Environmental Damage Costs""; ""Discount Rate""; ""The Social Cost of Carbon""; ""Fossil-Fuel Price Subsidies"" ""Renewable Energy and Employment""""Specific Questions for the Case Studies""; ""Methodology""; ""Notes""; ""Bibliography""; ""Chapter 3 Case Study: Vietnam""; ""Sector Background""; ""Power Sector Development""; ""Renewable Energy Development""; ""Renewable Energy Resource Endowment: The Supply Curve""; ""Production Costs""; ""The Avoided Social Cost of Thermal Generation""; ""Carbon Accounting and the Clean Development Mechanism (CDM)""; ""Renewable Energy Targets""; ""Design of Incentive Schemes""; ""Incremental Costs and Their Recovery""

""Impact of Renewable Energy Tariffs on the Consumer""""Decreasing

the Consumer Cost with International Assistance"": ""The Cost of Fossil-Fuel Subsidies""; ""Conclusions""; ""Notes""; ""Bibliography""; ""Chapter 4 Case Study: Sri Lanka""; ""Sector Background""; ""Renewable Energy Development""; ""Renewable Energy Resource Endowment and the Renewable Energy Supply Curve"; ""Capital Costs""; ""The Avoided Social Cost of Thermal Generation""; ""Carbon Accounting and CDM""; ""Renewable Energy Targets""; ""Design of Incentive Schemes""; ""Incremental Costs and Their Recovery"" ""Impact of Renewable Energy Tariffs on the Consumer"""The Cost of Fossil-Fuel Subsidies""; ""Financing New and Renewable Energy""; ""Conclusions""; ""Notes""; ""Bibliography""; ""Chapter 5 Case Study: Indonesia""; ""Sector Background""; ""Renewable Energy Development and the Resource Endowment""; ""Renewable Energy Targets""; ""Production Costs""; ""Geothermal Development Policy Issues""; ""The Renewable Energy Supply Curve""; ""Carbon Accounting and CDM""; ""Design of Incentive Schemes""; ""Detailed Design of the Geothermal Feed-In Tariff""; ""Incremental Costs and Their Recovery"" ""Potential Impact of Incremental Costs on the Consumer"""Buying Down the Price of Renewable Energy with International Assistance"": ""The Environmental Costs of the Electricity Subsidy""; ""Conclusions""; ""Notes""; ""Bibliography""; ""Chapter 6 Case Study: South Africa""; ""Sector Background""; ""Renewable Energy Development""; ""Renewable Energy Targets""; ""Design of Incentive Schemes""; ""Impact of Renewable Energy Tariffs on the Consumer""; ""Conclusions""; ""Note""; ""Bibliography""; ""Chapter 7 Case Study: Tanzania""; ""Sector Background""; ""Renewable Energy Development"" ""Renewable Energy Targets""

## Sommario/riassunto

The novelty of this work is the fact that it introduces a rigorous and objective economic perspective of current renewable energy support mechanisms and an empirical analysis of the strengths and weaknesses of these mechanisms, which is much needed in a debate often dominated by widespread misconceptions. The economic rationale for renewable energy is straightforward: the optimum amount of renewable energy for grid-connected generation is given by the intersection of the renewable energy supply curve with the avoided cost of thermal electricity generation. The proposed analytical framework: (i