

1. Record Nr.	UNINA9910798401203321
Titolo	The Bhutan electric vehicle initiative : scenarios, charging infrastructure and economic impact // prepared by the Bhutan Green Transport and Electric Vehicle Initiative Technical Assistance Task Team
Pubbl/distr/stampa	Washington, DC : , : World Bank, , [2016]
ISBN	1-4648-0755-8
Descrizione fisica	1 online resource (pages cm)
Collana	Technical note
Disciplina	338.4/76292293095498
Soggetti	Electric vehicle industry Electric vehicles - Bhutan Urban transportation - Bhutan Economic development - Bhutan
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Front Cover; Contents; Preface; Acknowledgments; Executive Summary; Abbreviations; Chapter 1 Introduction; The Bhutan Electric Vehicle Initiative in Context; Chapter 2 Background; Key Messages; Bhutan's Macroeconomic Situation, Development Objectives, and Key Sectors; Global EV Initiatives and the Context of the Bhutan EV Initiative; Notes; References; Chapter 3 Scenarios for Electric Vehicle Uptake in Bhutan; Key Messages; Global EV Penetration; Influencing Factors for EV Adoption; Potential Market Segments in Bhutan; Three Scenarios for EV Uptake in Bhutan; Notes; References Chapter 4 Electric Vehicle Market and Technology DevelopmentKey Messages; Global EV Market Development; Types of EVs: Plug-In Hybrids and Full Electric Vehicles; Factors Influencing Driving Range; An "Average Ride" in Bhutan; International User Experience with EVs; Battery Performance and Battery Second Life; Notes; References; Chapter 5 Fiscal and Economic Incentives; Key Messages; International Experience with Incentive Programs; Analysis of Incentives and Total Cost of Ownership in Bhutan; Notes; References; Chapter 6 Charging Infrastructure and Network Planning; Key Messages Importance of Charging InfrastructureTypes of EV Charging and Available Standards; EV Charging Options in Bhutan; Charging

Infrastructure Requirements by Uptake Scenario and National Rollout; Market Models for Ownership and Operation of Charging Infrastructure; Costs and Financing Arrangements; Grid Impact and Power Quality; Notes; References; Chapter 7 Policy and Economic Analysis; Key Messages; Overview of the Policy and Economic Analysis; EV Program Investment Requirements; Fiscal Impact; Fuel Import Benefits; Impact on Trade Balance; Environmental Benefits; Note; References Chapter 8 Stakeholders and Public Transport Key Messages; Stakeholder Analysis; EV in a Broader Context: The Role of Public Transport in Green Mobility; Note; Reference; Appendix A Background Information on Urban Transport in Bhutan; Bus Services and Taxi Use; Private Cars; Appendix B Examples of International Incentive Programs; China; Japan; Norway; The United Kingdom; The United States; Appendix C Total Cost of Ownership Analysis for Bhutan; Introduction to the Total Cost of Ownership Analysis; Assumptions for the TCO Analysis; Results of TCO Analysis for Private Vehicles
