Record Nr. Autore Titolo	UNINA9910461955403321 Heinbach Christoph Dirty containers [[electronic resource]] : a measurement and cost estimation approach of atmospheric pollution in Hong Kong / / Christoph Heinbach
Pubbl/distr/stampa	Hamburg, : Diplomica Verlag, 2012
ISBN	3-8428-2827-6
Descrizione fisica	1 online resource (126 p.)
Disciplina	628.5 628.5/3
Soggetti	Air - Pollution Container ships - Environmental aspects Merchant marine - Environmental aspects Shipping - Environmental aspects Electronic books. Hong Kong (China) Economic conditions Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Dirty Containers: A Measurement and Cost Estimation Approach of Atmospheric Pollution in Hong Kong; PREFACE; LIST OF CONTENTS; APPENDICES; LIST OF TABLES; LIST OF ILLUSTRATIONS; ABBREVIATIONS; 1 INTRODUCTION; 1.1 APPROACH AND MOTIVATION; 1.2 OBJECTIVE AND METHODOLOGY; 2 SHIPPING AND AIR POLLUTION; 2.1 GLOBAL TRANSPORTATION AND CO2 EMISSIONS; 2.2 EFFECTS OF ATMOSPHERIC POLLUTION; 2.3 EMISSIONS PATHWAY IN TRANSPORTATION AND SHIPPING; 2.4 REGULATORY REQUIREMENTS TO GREENER SHIPPING; 3 ENVIRONMENTAL COSTS; 3.1 INTERNALIZATION OF EXTERNAL COSTS; 3.2 MONETARY VALUATION 3.3 ESTIMATION OF EMISSION COSTS IN SHIPPING3.3.1 TOP-DOWN APPROACH; 3.3.2 BOTTOM-UP APPROACH; 4 LITERATURE LINKED TO WEB-BASED CALCULATION METHODS OF EMISSIONS FOR INTERNATIONAL SHIPPING ACTIVITIES; 5 METHODOLOGY OF ECOTRANSIT WORLD: MEASUREMENT OF ENERGY CONSUMPTION AND EMISSIONS LINKED TO INTERNATIONAL SHIPPING; 5.1 BACKGROUND

1.

	AND ENVIRONMENTAL INDICATORS; 5.2 ENERGY CHAIN AND BASIC CALCULATION RULES; 5.2.1 ENERGY CHAIN AND UPSTREAM PROCESS; 5.2.2 BASIC CALCULATION RULES; 5.3 ENVIRONMENTAL DATA FOR CONTAINER VESSELS; 5.3.1 MARINE EMISSION FACTORS 5.3.2 CLASS AND TRADE-LANE SPECIFIC EMISSION FACTORS; 5.4 DATA METHODOLOGY ASSUMPTIONS AND SOURCES; 5.4.1 CONTAINER VESSEL ROUTING; 5.4.2 CONTAINER VESSEL CAPACITIES; 5.4.3 MAIN ENGINES AND AUXILIARY ENGINES; 5.4.4 OTHER ASSUMPTIONS FOR CALCULATING MARINE VESSEL EMISSIONFACTORS; 5.5 CONSIDERATIONS OF REDUCED VESSEL SPEED; 5.6 RELEVANT ONLINE DATA INPUT AND GENERATED OUTPUT; 5.7. UNCERTAINTIES 6 TRADE-LANE SPECIFIC ENERGY CONSUMPTION, GHG EMISSIONS, COSTS ESTIMATION AND KPIS OF HONG KONG CONTAINER TRADE ACTIVITIES6.1 HONG KONG ROLE AS CONTAINER (TRANSHIPMENT) HUB; 6.2 LADEN CONTAINER THROUGHPUT DEVELOPMENT; 6.3 INPUT BOUNDARIES; 6.3.2 ROUTING CONTROVERSIES; 6.4.3 SULPHUR OXIDA AND RULD; 6.4.1 TRADE-LANE SPECIFIC CONTAINER FACTORS; 6.4.2 PRIMARY ENERGY CONSUMPTION.; 6.4.3 SULPHUR OXIDE AND PARTICULATE MATTER; 6.4.4 CARBON DIOXIDE AND CARBON DIOXIDE EQUIVALENT; 6.5 COST ESTIMATION 6.6 KEY PERFORMANCE INDICATORS AND COMPARISON OF EMISSIONTRADE-LANE DATA6.1 KEY PERFORMANCE INDICATORS (KPIS); 6.6.2 COMPARISON OF EMISSION TRADE-LANE DATA6.1 KEY PERFORMANCE INDICATORS (KPIS); 6.6.2 COMPARISON OF EMISSION TRADE-LANE DATA6.2 (TRANSHIPMENT) HUD; 7.7 CONCLUSIONS; REFERENCES; APPENDIX 6:; APPENDIX 1:; APPENDIX 2:; 7.8 PENDIX 3:; APPENDIX 4:; APPENDIX 5:; APPENDIX 1:; APPENDIX 2:; 7.8 PENDIX 3:; APPENDIX 4:; APPENDIX 5:; APPENDIX 10:; APPENDIX 11; 7.5 (APPENDIX 17;; AUTHOR'S PROFILE
Sommario/riassunto	Hauptbeschreibung Globalization is regarded as the key driver of growing container trade activities due to economic development. With a technology relying heavily on the combustion of fuel, international shipping is responsible for 2.7 percent of total world emissions and ocean transportation is becoming increasingly linked to environmental problems. The concepts of sustainability and greener shipping are expected to be the prime focus of transportation in the coming decades, but the impending developments require a deep understanding of the emission impact and costs related to the