



THE ADAPTATION GAP

A
Preliminary
Assessment
REPORT



Published by the United Nations Environment Programme (UNEP), November 2014

Copyright © UNEP 2014

Publication: Adaptation Gap Report

ISBN: 978-92-807-3428-7

Job Number: DEW/1865/NA

This publication may be reproduced in whole or in part and in any form for educational or non-profit services without special permission from the copyright holder, provided acknowledgement of the source is made. UNEP would appreciate receiving a copy of any publication that uses this publication as a source.

No use of this publication may be made for resale or any other commercial purpose whatsoever without prior permission in writing from the United Nations Environment Programme. Applications for such permission, with a statement of the purpose and extent of the reproduction, should be addressed to the Director, DCPI, UNEP, P. O. Box 30552, Nairobi 00100, Kenya.

DISCLAIMERS

Mention of a commercial company or product in this document does not imply endorsement by UNEP or the authors. The use of information from this document for publicity or advertising is not permitted. Trademark names and symbols are used in an editorial fashion with no intention on infringement of trademark or copyright laws.

We regret any errors or omissions that may have been unwittingly made.

© Images and illustrations as specified.

CITATION

This document may be cited as:

UNEP 2014. The Adaptation Gap Report 2014. United Nations Environment Programme (UNEP), Nairobi

A digital copy of this report along with supporting appendices are available at

<http://www.unep.org/climatechange/adaptation/gapreport2014/>

This report has been funded by the International Climate Initiative. The Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety supports this initiative on the basis of a decision adopted by the German Bundestag.

Supported by:



**Federal Ministry for the
Environment, Nature Conservation,
Building and Nuclear Safety**

based on a decision of the German Bundestag

UNEP promotes environmentally sound practices globally and in its own activities. This publication is printed on 100% recycled paper, using vegetable-based inks and other eco-friendly practices. Our distribution policy aims to reduce UNEP's carbon footprint.



THE ADAPTATION GAP

**A
Preliminary
Assessment**

REPORT

ACKNOWLEDGEMENTS

The United Nations Environment Programme (UNEP) would like to thank the steering committee members, the lead and contributing authors, and the project coordination team for their contribution to the development of this report. The following individuals have provided input to the report. Authors and reviewers contributed to this report in their individual capacity and their organizations are only mentioned for identification purposes.

PROJECT STEERING COMMITTEE

Keith Alverson (UNEP), Fatima Denton (African Climate Policy Centre), Saleemul Huq (International Institute for Environment and Development /Global Programme of Research on Climate Change Vulnerability, Impacts and Adaptation), Richard Klein (Stockholm Environment Institute /Global Programme of Research on Climate Change Vulnerability, Impacts and Adaptation), Anil Markandya (Basque Centre for Climate Change), Youssef Nassef (United Nations Framework Convention on Climate Change)

CHAPTER 1

Lead author: Anne Olhoff (UNEP DTU Partnership)

CHAPTER 2

Lead authors: Ian Noble (Notre Dame Global Adaptation Index and Monash Sustainability Institute), Anne Olhoff (UNEP DTU Partnership)

Contributing authors: Emma A. Igual (UNEP DTU Partnership), Reinhard Mechler (International Institute for Applied Systems Analysis), Diana Reckien (University of Twente)

CHAPTER 3

Lead authors: Paul Watkiss (Paul Watkiss Associates/ Stockholm Environment Institute/Environmental Change Institute), Florent Baarsch (Climate Analytics), Chiara Trabacchi (Climate Policy Initiative Europe), Alice Caravani (Overseas Development Institute)

Contributing authors: Kelly de Bruin (Centre for Environmental and Resource Economics), Juan Casado-Asensio (Organisation for Economic Co-operation and Development), Michael Mullan (Organisation for Economic Co-operation and Development), Stephanie Ockenden (Organisation for Economic Co-operation and Development), Martin Stadelmann (Climate Policy Initiative Europe)

CHAPTER 4

Lead author: Sara Trærup (UNEP DTU Partnership)

Contributing authors: Prakash Deenapanray (ELIA – Ecological Living in Action Ltd), Anil Markandya (Basque Centre for Climate Change), Indoomatee Ramma (Food and Agricultural Research and Extension Institute — FAREI), Katharine Vincent (Kulima Integrated Development Solutions)

CHAPTER 5

Lead authors: Monalisa Chatterjee (Carnegie Institution for Science), Anna Kontorov (UNEP)

Contributing authors: Maurine Ambani (CARE), Kristie Ebi (University of Washington), Nicolina Lamhauge (Organisation for Economic Co-operation and Development), Anne Olhoff (UNEP DTU Partnership), Jon Padgham (START – Global Change System for Analysis, Research and Training), Felice van der Plaat (UNEP)

EDITORIAL TEAM

Anne Olhoff (UNEP DTU Partnership), Keith Alverson (UNEP), Daniel Puig (UNEP DTU Partnership)

PROJECT COORDINATION

Anne Olhoff (UNEP DTU Partnership), Musonda Mumba (UNEP), Daniel Puig (UNEP DTU Partnership), Anna Kontorov (UNEP), Emma A. Igual (UNEP DTU Partnership), Lene Thorsted (UNEP DTU Partnership)

MEDIA SUPPORT

Mette Annelie Rasmussen (UNEP DTU Partnership), Shereen Zorba (UNEP), Fanina Kodre (UNEP)

REVIEWERS

Mozaharul Alam (UNEP), Keith Alverson (UNEP), Magnus Benzie (Stockholm Environment Institute), Sally Brooks (Institute of Development Studies), Jacinto Buenfil (UNEP), Ian Burton (Independent Public Policy Professional), Stuart Crane (UNEP), Felix Fallasch (Climate Analytics), Sam Fankhauser (London School of Economics), Sandra Freitas (Climate Analytics), Hilary French (UNEP), Matti Goldberg (UNFCCC), William Hare (Climate Analytics), Tiffany Hodgson (UNFCCC), Livia Hollins (UNFCCC), Saleemul Huq (International Institute for Environment and Development / Global Programme of Research on Climate Change Vulnerability, Impacts and Adaptation), Silvia Kreibiehl (Frankfurt School), Pradeep Kurukulasuriya (UNEP), Rojina Manandhar (UNFCCC), Richard Munang (UNEP), Sergio Margulis (Secretariat of Strategic Affairs of the Presidency of the Republic of Brazil), Anil Markandya (Basque Centre for Climate Change), Robert Munroe (UNEP World Conservation Monitoring Centre), Youssef Nassef (UNFCCC), Xolisa Ngwadla (Centre for Scientific and Industrial Research), Dan Olago (University of Nairobi), Maggie Opondo (University of Nairobi), Martin Parry (Imperial College London), Janak Pathak (UNEP), Anand Patwardhan (University of Maryland), Joy Pereira (Universiti Kebangsaan Malaysia), Olga Pilifosova (UNFCCC), Jason Spensley (UNEP), Natalie Unterstell (Secretariat of Strategic Affairs of the Presidency of the Republic of Brazil), Bert Van der Plas (United Nations Framework Convention on Climate Change), Yolando Velasco (UNFCCC), Katharine Vincent (Kulima Integrated Development Solutions), Korinna Von Teichman (UNFCCC)

UNEP would also like to thank the following individuals from around the world for their valuable comments, editorial support, provision of data and valuable advice:

Rosina Bierbaum (University of Michigan), Nella Canales-Trujillo (Overseas Development Institute - ODI), Ermira Fida (UNEP), Surabhi Goswami (UNEP DTU Partnership), Seraphine Haeussling (UNEP), Stéphane Hallegatte (World Bank), Anne Hammill (International Institute for Sustainable Development), Pradeep Kurukulasuriya (UNEP), Cecilie Larsen (UNEP DTU Partnership), Gareth James Lloyd (UNEP-DHI Partnership), Jacqueline McGlade (UNEP), Rose Mwebaza (Special Advisor to the African Union Chairperson), Smita Nakhooda (ODI), Prakriti Naswa (UNEP DTU Partnership), Marcia Rocha (Climate Analytics), Joeri Rogelj (International Institute for Applied Systems Analysis), Michiel Schaeffer (Climate Analytics), Fabio Sferra (Climate Analytics), Eric Usher (UNEP), Florin Vladu (UNFCCC), Merlyn Van Voore (UNEP), Zinta Zommers (UNEP)

COPY EDITOR

Catherine Bond

DESIGN, LAYOUT AND PRINTING

Phoenix Design Aid

CONTENTS

Glossary.....	vii
Acronyms	ix
Foreword	x
Executive summary	xii
CHAPTER 1	
Introduction	1
CHAPTER 2	
A framework for identifying and measuring adaptation gaps.....	5
2.1 Introduction.....	6
2.2 From emissions gaps to adaptation gaps.....	6
2.3 A generic framework for identifying adaptation gaps.....	8
2.4 Regional and context specific dimensions of adaptation gaps.....	10
2.5 Key methodological considerations for measuring adaptation gaps.....	11
2.5.1 Setting adaptation targets.....	11
2.5.2 Identifying appropriate metrics.....	14
2.6 Summary.....	15
Chapter 1 and Chapter 2 references	16
CHAPTER 3	
The adaptation funding gap	19
3.1 Framing the adaptation funding gap.....	20
3.2 Estimates of the costs of adaptation.....	20
3.2.1 Global estimates.....	22
3.2.2 National and sector estimates.....	23
3.2.3 Discussion of estimates.....	25
3.3 Current adaptation finance flows	26
3.3.1 Estimates of public adaptation finance	26
3.3.2 The private sector	30
3.4 Indicative findings on the adaptation funding gap and options to bridge it.....	31
References.....	34

CHAPTER 4

Technology gaps	39
4.1 Introduction	40
4.2 Defining technologies for adaptation.....	41
4.3 The role of technologies in reducing risks.....	42
4.4 Current landscape of adaptation technology gaps	44
4.4.1 Sectors and types of technologies prioritized by countries	45
4.4.2 Gaps in technology transfer, diffusion and innovation.....	46
4.4.3 Gaps in technology by sector and technology maturity.....	47
4.5 Barriers and enabling frameworks.....	48
4.6 Possible targets for adaptation technologies.....	49
4.7 Conclusions	50
References.....	51

CHAPTER 5

Knowledge gaps in adaptation	55
5.1 Introduction.....	56
5.2 Knowledge production.....	57
5.2.1 Assessing adaptation approaches	58
5.2.2 Addressing uncertainty.....	59
5.2.3 Responding to user needs.....	60
5.3 Knowledge integration	61
5.3.1 Connecting different bodies of knowledge	61
5.4 Knowledge transfer and uptake	62

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_8873

