

Nations Environment Programme

United



Climate Change Adaptation and Mitigation in the Tourism Sector:

Frameworks, Tools and Practices







Copyright © United Nations Environment Programme, 2008

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

No use of this publication may be made for resale or for any other commercial purpose whatsoever without prior permission in writing from the United Nations Environment Programme.

Disclaimer

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the United Nations Environment Programme concerning the legal status of any country, territory, city area or authorities, or concerning delimitation of its frontiers or boundaries. Moreover, the views expressed do not necessarily represent the decision or the stated policy of the United Nations Environment Programme, nor does citing of trade names or commercial processes constitute endorsement.

ISBN - 978-92-807-2921-5

This publication is to be cited as follows:

Simpson, M.C., Gössling, S., Scott, D., Hall, C.M. and Gladin, E. (2008) *Climate Change Adaptation and Mitigation in the Tourism Sector: Frameworks, Tools and Practices.* UNEP, University of Oxford, UNWTO, WMO: Paris, France.

Layout and design: Oxuniprint, Oxford University Press.

UNEP romotes enviro

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

Climate Change Adaptation and Mitigation in the Tourism Sector:

Frameworks, Tools and Practices



UNEP DTIE
Sustainable Consumption and Production Branch
15 rue de Milan
75441 Paris Cedex 09, France
Tel: +33 1 44 37 14 50

Fax: +33 1 44 37 14 74 Email: unep.tie@unep.fr www.unep.fr/scp



University of Oxford Centre for the Environment South Parks Road Oxford OX1 3QY Tel: +44 (0)1865 285070

Fax: +44 (0)1865 285070 Fax: +44 (0)1865 275885 www.ouce.ox.ac.uk



World Tourism Organization Capitán Haya 42 28020 Madrid, Spain Tel +34 91 567 81 00 Fax +34 91 571 37 33 omt@unwto.org www.unwto.org



World Meteorological Organization 7 bis avenue de la Paix Case postale No. 2300 CH-1211 Geneva 2 Switzerland

Tel.: + 41(0) 22 730 81 11 Fax: + 41(0) 22 730 81 81



Foreword

The tourism industry has a key role to play in confronting the challenges of climate change. The spectacular growth of tourism provides both a challenge and an opportunity. The tourist community itself has responded to this challenge over the past few years and visibly stepped up its response to climate change. There is now a clear understanding that the industry can be part of the solution to climate change, by reducing its green house gas emissions as well as by helping the communities where tourism represents a major economic source to prepare for and adapt to the changing climate.

Building on the results of the 2nd International Conference on Climate Change and Tourism (October 2007) and the "Davos Declaration" this publication responds to an urgent request expressed by many governments, businesses and NGOs: "to provide practical guidance and capacity building for climate change adaptation and mitigation practices in the tourism sector".

This publication, combined with a comprehensive series of international and regional seminars, is designed to provide a pragmatic platform to strengthen the capacity of professionals to understand and respond effectively to the global challenges of climate change in tourism destinations. It is a critical part of the wider UN response to climate change.

We hope that this publication will support efforts to mainstream climate change considerations into tourism planning and management. We further believe that the tourism sector, through its major contribution to global development, can influence other sectors by sending important signals to governments, industries and the public that climate mitigation and adaptation measures are not only vital for our future, but also make economic sense

Sylvie Lemmet Director

United Nations Environment Programme - DTIE

Professor Gordon Clark Director

Oxford University Centre for the Environment

Luigi Cabrini

Director Sustainable Developement

Mi Gun

of TourismDepartment

United Nations World Tourism Organization

Dr Buruhani Nyenzi

Director Climate and Adaptation Branch Climate and Water Department

World Meteorological Organization

Acknowledgements

This document forms part of the UNEP "Practical Manuals on Sustainable Tourism" publication series. Dr. Stefanos Fotiou (UNEP) was responsible for the conception, technical editing and coordination of the publication. Dr. Murray C. Simpson (Oxford University Centre for the Environment) supervised the authors' team and the reviewing process in cooperation with Helena Rey de Assis from UNEP, Luigi Cabrini and Gabor Vereczi from UNWTO, and Leslie Malone and Dr. Kumar Kolli from WMO.

Authored by:

Dr. Murray C. Simpson, Oxford University Centre for the Environment, England

Dr. Stefan Gossling, Western Norway Research Institute, Norway

Dr. Daniel Scott, University of Waterloo, Canada

Professor C. Michael Hall, University of Canterbury, New Zealand

Ms. Elizabeth Gladin, University of Kent Canterbury, England

We are also grateful to the following people for their assistance in the development of this publication:

Charles Arden-Clarke Jan Burke Melissa Bonneton Catalina Etcheverry Martina Otto Clare Perritan Niclas Svenningsen Dr. Anna Spenceley Sue Blackshaw Corie Law



Wind Turbines Credit: UNEP

Table of Contents

For	eword		V
Ack	nowle	edgements/Editorial	V
Table of Contents			
List of Figures			Х
List	of Tal	oles	X
List	of Bo	xes	X
		ronyms	хi
1.	Introduction		2
	1.1	Objectives	3
	1.2	Audience	4
	1.3	User's Guide	4
2.	Climate Change and Tourism: Background to the Issues		9
	2.1	Introduction	10
	2.2	Climate Change	11
	2.3	Tourism	11
	2.4	Climate Change Impacts on Tourism	12
	2.5	Contribution of Tourism to Climate Change	15
	2.6	Climate Change Adaptation in Tourism	16
	2.7	Mitigation of the Carbon Emissions Created by Tourism	19
	2.8	Adaptation and Mitigation	19
3.		Knowledge Gaps Related to Developing Countries and	
	Sma	all Island States	21
4.	Ada	ptation	29
	1.1	Introduction	30
	1.2	The Process of Climate Change Adaptation	31
	1.3	Developing and Implementing a Climate Change Adaptation Process	35
		<u> </u>	

5览已结束,完整报告链接和二维码如下:



