

"2013, Año de la Lealtad Institucional y Centenario del Ejército Mexicano"

INDIVIDUAL FINAL REVIEW EDITOR REPORT

To whom it may concern:

At this point, with 90% of the total new comments expected, in the review's second phase, I am comfortable and totally agree with the insertion of such reviewed comments, in the final version of the Working Group III Technical Summary for the IPCC Fifth Assessment Report.

I have no additional comments, suggestions or disagreements to the TS.

Full name: Tomás Hernández-Tejeda

Affiliation: INIFAP (Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias), SAGARPA. MÉXICO.

Review editor: Technical Summary of the AR5.

Confirmation: I confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

Comments: I want to express my gratitude and respect to the AR5 Working Group 3, for the hard work done. This was a very wonderful job, with the leadership of the TSU. Congratulations !

[Signature removed]

México, D. F. November 19, 2013.

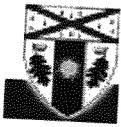
Report on the IPCC AR5 WG3 Technical Summary
Roberta Quadrelli, 24 March 2014

The December version of the TS changed very substantially as compared to the version that had been reviewed earlier in the year, towards a much clearer final version.

This report is to state that all substantive expert and government review comments received on the previous version have been afforded appropriate consideration by the writing team in accordance with IPCC procedures. My analysis of individual comments may have been limited by the lack of mapping of how individual figures, tables, boxes and paragraphs have moved around or have been replaced/deleted and how new material was inserted as compared to the earlier version.

As for key messages, I trust that the final selection of key TS messages finds the consensus across the various chapters' authors, and that TS findings are consistent with those of chapters. I also trust that significant differences of opinion of any scientific issues that arose during the drafting and review processes were addressed properly and reconciled.

[Signature removed]



Yale University
School of Forestry
& Environmental Studies

Arnulf Grubler
Professor in the Field of
Energy and Technology
195 Prospect Street
New Haven, CT 06511
203.432.0060 Telephone
203.432.5556 Facsimile
arnulf.grubler@yale.edu

December 10, 2013

IPCC WGIII Co-Chairs
c/o PIK
PO Box 601203
D-14412 Potsdam
Germany

Reference: Review Editor sign-off WGIII Chapter 1

As Review Editor of WGII Chapter 1 I hereby provide my official endorsement and sign-off as testimony of approval of the excellent work done by the writing team of Chapter 1. The writing team has done an outstanding job in responding to all review comments in both the expert and government review rounds in a fair, appropriate, and scientifically sound manner. The work underlying WGII Chapter 1 has been performed at the highest level standards in terms of scientific practice, fair and balanced representation of current knowledge, controversies and uncertainties, as well as in full compliance with IPCC procedures.

An outline of the genesis of Chapter 1 and of the issues that have emerged in the review processes is summarized in greater detail in the final report of Chapter's 1 Co-Review Editor Alick Muvundika, dated November 21, 2013, an assessment which this Review Editor fully supports and endorses. I wish to add particular recognition to the professional manner and beyond usual effort awarded by the writing team and above all its CLA David Victor in cooperation with WGIII TSU in resolving the last outstanding issue of representing uncertainties in GHG emissions and trends that has been raised in the governmental review process and in the Addis Ababa meeting.

Sincerely yours [Signature removed]

Arnulf Grubler, mp (electronic signature)

National Institute for Scientific and Industrial Research (NISIR)
P.O.Box 310158
Chelstone,
10101 Lusaka, Zambia

21 November 2013

The WG III Co-Chairs
C/o Potsdam Institute for Climate Impact Research (PIK)
P.O.Box 601203, 14412 Potsdam, Germany

Re: WGIII - CHAPTER 1 REVIEW EDITOR'S FINAL REPORT

I refer to the above subject matter.

Firstly, I would like to thank the IPCC for according me this rare opportunity of being a Review Editor for the AR5 process. Secondly, I would like to commend WGIII –Chapter 1 writing team led by Coordinating Lead Author (CLA) David Victor for the hard work and commitment shown throughout the writing process. During the First Order Draft (FOD) and prior to the Vigo meeting (LAM 3), the main areas of concern raised in the review comments included:

- a. Context of the chapter: that consideration should have been given to outline explicitly the chapter's objectives and how it related to other chapters of AR5.
- b. What was new since the AR4 report including:
 - b.1 macro developments since AR4: 2008 financial crisis and emergence of the "green growth" policy discourse.
 - b.2 emission trends, and climate policy highlights.
 - b.3 evolution of climate mitigation literature.
 - b.4 trends in areas important for mitigation such as technology trends.
- c. Issue of "balancing"; recurrent comments dealt with balance of issues in particular between:
 - c1. Energy vs non-energy sector options.
 - c2. CO₂ vs other GHGs (inc. short-lived forcing agents)
 - c3. Energy efficiency vs energy supply
 - c4. Currently or near-term available options vs future "backstops" such as geo-engineering.
 - c5. Mitigation vs adaptation (trade-offs and synergies)
- d. Lack of uncertainty discussion in emission inventories, emission trends, and aggregation of different GHGs.
- e. Technical issues such as legibility of graphs, terms & acronyms, and FAQ (with the latter requiring a common strategy across all chapters in AR5).

The writing team did a commendable job by addressing most of the comments in the FOD when updating it into a Second Order Draft (SOD). The reduction in the number of review comments by almost 50% for the SOD following its update from the FOD was evidence of this hard work. The main issues raised during the SOD related to:

- a. Lack of uncertainty discussion in emission inventories, emission trends, and aggregation of different GHGs.
- b. The use of different groupings/categorization for nations throughout the chapter.
- c. Concerns about the use of likelihood statements.
- d. Concerns about “geo-engineering”. Many comments were of the view that it be dropped altogether since it was not a response to any national priority.
- e. Information presented in some figures.

Prior to and during the Addis meeting (LAM4), the writing team recognised all the comments received in the SOD and identified those that required their attention and those that required the TSU’s attention. During and after the LAM4 meeting, the writing team critically discussed the underlying sub-sections and beefed up the chapter based on the review comments. They continued doing this work via email (and were copying Review Editors on what they were doing). The main outstanding issue in the chapter after the LAM4 meeting was the inclusion of uncertainty discussion. The writing team have since produced figures that now include an active discussion about where and how the figures show uncertainties. Further, Chapter 1 responded promptly and effectively to remedy all issues highlighted by the iThenticate report.

As Review Editor for the chapter, I am satisfied with the overall work done by the writing team. I therefore, wish to confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

Sincerely,

[Signature removed]

.....

Alick Muvundika
REVIEW EDITOR-WGIII – CHAPTER 1

November 7, 2013

AR5 WGIII Co-Chairs

Ottmar Edenhofer, Ramon Pichs-Madruga and Youba Sokona

Dear Ottmar, Ramon and Youba,

As Review Editor of Chapter 2 of the AR5 WGIII, I am happy to report that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures. There were no difference of opinion among the lead authors that could not be resolved during the writing process.

I would also like to acknowledge the excellent leadership, and the willingness of writing team to work towards assuring high scientific quality and creative thinking. It was a pleasure!

And many thanks to Steffen Brunner for providing great support to the Review Editors and the team.

Best,

[Signature removed]

JoAnne Bayer (Linnerooth)

Program Leader

Risk, Policy and Vulnerability (RPV)

International Institute for Applied Systems Analysis (IIASA)

A-2361 Laxenburg, Austria

Letter of Confirmation

To:-Co- Chairs of WG3 Professors :- Ottmar Edenhofer, Ramon Pichs-Madurga and Youba Sokona

C.C – Head TSU WG3

From: Mr. Ismail Elgizouli- Sudan [Signature removed]

Review Editor Chapter 2, Framing Issues

Dear Sirs

This is to confirm that the Coordinating Lead Authors and Lead Authors of Chapter Two, the Framing Issues of the Working Group Three Contribution to the Fifth Assessment Report AR5- Mitigation Report- have considered all comments received from experts and governments and treated all of them in a scientific way and spare a lot of time to discuss as a team the substantive and the most important ones that need collective understanding to react to them. I have been involved in the whole process and connected to their email network, so following the development of this chapter in light of the comments received.

To conclude I am satisfied that chapter two team has done their job in treating all comments in line with IPCC procedures. I believe that we have a good scientific balanced chapter.

Last but not least ,I have to congratulate you for the good job you are doing and the non-tiring efforts to have a solid scientific report and through you let me thank all chapter two team and congratulate them for well done chapter, I am honoured to work with them and I am lucky to learn a lot from them. Thanks once again

Buenos Aires, November 27, 2013

WG III Co-Chairs
Mr. Ottmar Adenhofer
Mr. Ramón Pichs-Madruga
Mr. Youba Sokona

Ref.: Daniel Hugo Bouille – Review Editor – Chapter III - “Social, Economic, and Ethical Concepts and Methods

Dear Sirs,

Hereby, I confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

At least from my point of view, two issues were critical during the revision process: intergenerational aspect and the economic paradigm to the subject, based on neo-classical theoretical framework.

It seems to me that both issues are good solved in the final version, showing an adequate equilibrium among the state of the art according to different bibliography.

Best regards

[Signature removed]

Daniel Hugo Bouille



Oslo Centre for Research on Environmentally friendly Energy



IPCC WG III Co-Chairs:
Ottmar Edenhofer, Ramon Pichs-Madruga
and Youba Sokona

Snorre Kverndokk
Senior Research Fellow, PhD
Frisch Centre - CREE
Gaustadalléen 21
0349 Oslo
Norway

Oslo: 22 November, 2013

Email: snorre.kverndokk@frisch.uio.no
Telephone: +47- 22 95 88 11
Telefax: +47-22 95 88 25

<http://www.frisch.uio.no/cree/>

Final Review Editor Report Chapter 3 WGIII

I have followed the review process for Chapter 3 WGIII for more than a year and have also written two review editor reports together with my co-Review Editor Daniel Bouille. After going through the final manuscript, I would like to confirm that in my opinion, all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

Yours sincerely

[Signature removed]

Snorre Kverndokk

To Youba Sokona
IPCC WGIII Co_Chair

From: Luiz Pinguelli Rosa
Director of COPPE - Federal University of Rio de Janeiro
Chapter 4 Review Editor

I agree that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

All comments on the final text are included in the previous report I have sent in December, 2013

With the best regards

[Signature removed]



Luiz Pinguelli Rosa
Diretor Pró Tempore
Matricula 7972334
COPPE/UF RJ



Northeastern

Matthias Ruth, Professor
School of Public and Urban Affairs *and* Department
of Civil and Environmental Engineering
310 Renaissance Park, Boston, MA 02115, USA
m.ruth@northeastern.edu

IPCC
WGIII AR5 Pre Final Draft
Chapter 4

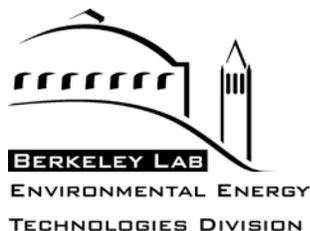
November 25, 2013

To Whom It May Concern:

With this message I confirm that, with the pre-final draft, all substantive expert and government review comments on Chapter 4 of the IPCC WGIII AR5 have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

[Signature removed]

Matthias Ruth



28 Nov. 2013

TO: WG III Co-Chairs:-- Ottmar Edenhofer, Ramon Pichs-Madruga and Youba Sokona

FROM: Jayant Sathaye, Review Editor

Review: Final review of IPCC WG-III FOD Chapter 4: Sustainable Development and Equity

Dear Ottmar, Ramon and Youba,

I am a Review Editor of the Chapter 4 noted above, and participated in reviewing three drafts of this chapter. The first draft was reviewed and submitted on 28 Sept. 2012, second one on 3 June 2013 and the third one recently on 25 November 2013.

I looked at the responses in the third draft to the comments that I had submitted at the meeting in Ethiopia. The authors had significantly improved their third draft responses to all the comments very nicely. The responses to the comments I had submitted were appropriate, and these were also included in the chapter text. The report size now matches the required 56 template pages, and the text includes a very good representation of sustainable development in other chapters.

Overall, the chapter now is satisfactory and in much better shape than the earlier drafts. All substantive expert and government review comments have been largely given appropriate consideration by the writing team in accordance with IPCC procedures.

Wish you a continued success at the final meeting with government representatives.

Best Regards,

[Signature removed]

Dr. Jayant Sathaye
Senior Scientist and Strategic Advisor
Founder, International Energy Studies Group

November 22nd, 2013

To: Dr. Ottmar Edenhofer, Dr. Ramon Pichs-Madruga and Dr. Youba Sokona

WG III Co-Chairs

Dear WG III Co-Chairs,

As Review Editor of Chapter 5 WG III, working together with Dr. Aviel Verbruggen, and after participating in the revision process for producing the final document, I can affirm that the writing team dedicated special attention in appropriately answering the comments received by the expert and government reviewers.

Considering the revision of the Second Order Draft of Chapter 5, there were almost nine hundred comments sent by the Experts Reviewers. At this date there are about twenty comments requiring further adjustments, and the Coordinating Lead Authors are working on it. This is the last task to be performed for completing the process of responding to the Expert Reviewers and the parallel revision of the text.

During the revision process I could not identify any great differences of opinion on scientific issues. Whenever differences arose, they were handled appropriately by the authors, providing adequate justifications and scientific evidence.

With respect to the final text of Chapter 5 WG III, my feeling is that it is well summarized, and at the same time provided the necessary scientific information on the topics which were covered. The authors put a lot of effort in condensing the text to the necessary limit of pages, making the required revisions and at the same time communicating the appropriate messages.

Some of the Expert Reviewers called the attention for cross cutting issues among different chapters of the WG III AR5. These comments were identified and communicated to the Coordinating Lead Authors. They handled them in the most comprehensive way as possible, but it is recommended that the Technical Support Unit provide a final check on these issues to assure that the various chapters are in consonance. These remarks are easily identifiable in the comment sheet.

During the revision process of the Second Order Draft, the major problems in my opinion were two: (a) we had no access to a substantial part of the final text when we first analyzed the Lead Authors answers to the Expert Reviewers, and (b) we had very little time to come back to those answers and compare the texts of the Second Order Draft and Final Draft to observe how the proposed alterations were implemented. In my opinion, as a suggestion, this is a point to be taken into account when preparing

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the time schedule for the next report. This would both save time in the revision process and allow for a more detailed evaluation of the final text.

Finally I should emphasize the willingness of the Coordinating Lead Authors and Lead Authors in preparing the best possible text for Chapter 5, their disposition for working hard, and the good interaction and easiness of communication we experienced during the revision process. I should also highlight the excellent collaboration and interaction I was able to enjoy with my partner Review Editor Dr Aviel Verbruggen.

Sincerely,

[Signature removed]

/Dr. Marcos Sebastião de Paula Gomes
Department of Mechanical Engineering
Pontifical Catholic University of Rio de Janeiro, Brazil
Review Editor for WG III Chapter 5

Update - Final comment, in March 27th, 2014

With this message I confirm that all substantive expert and government review comments on Chapter 5 of the IPCC WGIII AR5 have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

I have no additional comments or suggestions.

[Signature removed]

Dr. Marcos Sebastião de Paula Gomes



Universiteit Antwerpen

Faculteit Toegepaste Economische
Wetenschappen

Prof. dr. Aviel Verbruggen
University of Antwerp
Stadscampus
Prinsstraat 13
BE-2000 Antwerpen

T +32 (0)3 265 48 95

aviel.verbruggen@uantwerpen.be

To the WG III Co-Chairs:
Ottmar Edenhofer, Ramon Pichs-Madruga, Youba Sokona

Date: November 19, 2013

Dear Chairmen,

RE: Chapter 5 of IPCC AR5 WGIII

As a review editor I followed the work on chapter 5 during the second half of the preparation of the chapter text, and was present in the meetings at Vigo and at Addis Ababa.

Within the terms of the IPCC mandate and within the constraints of the IPCC procedures, the authors have responded to the comments received from external reviewers. The text has been significantly improved during the course of the writing and editing process.

Given the descriptive character of the chapter, there have been no major differences in opinion. Only a minor one on the the representation of GHG emissions as total quantities or as quantities per person. Alternatively using both metrics helped to balance the understanding of the role of various countries in the total emissions.

I hope the work by my colleague Marcos Gomez and myself has been helpful in obtaining a better chapter 6.

Sincerely,

[Signature removed]

Prof.dr. Aviel Verbruggen
University of Antwerp
www.avielverbruggen.be

清华大学



Tsinghua University

中国 北京 100084

Beijing 100084, China

Institute of Energy, Environment and Economy
Tsinghua University
Beijing 100084
China

December 15, 2013

Dear WGIII Co-chairs

As a Review Editor of the chapter 6 of the AR5, I am pleased to confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

Sincerely yours

[Signature removed]

Wenying/Chen
Deputy Director
Institute of Energy, Environment and Economy
Tsinghua University



John P. Weyant
Professor, Management Science and Engineering
Room 260, Huang Engineering Center
Stanford, California 94305-4026

Phone (650) 723-3506
Fax (650) 725-5362
Email weyant@stanford.edu

March 13, 2014

Professor Dr. Ottmar Edenhofer
Co-chair Working Group III, IPCC
Potsdam Institute for Climate Impact Research
Head of Research Domain III
P.O. 60 12 03
D-14412 Potsdam

Dear Prof. Dr. Edenhofer:

I am providing this letter in my role as IPCC WG III AR5 Chapter 6 Review Editor

I hereby certify that the work of the Chapter 6 author team has been in full compliance with IPCC regulations - all IPCC procedures have been properly followed and all technical and government review comments have been addressed in a careful and responsive manner. The writing team has responded to all review comments in both the expert and government review rounds in a fair, appropriate, and scientifically sound manner.

I hereby provide my endorsement and sign off here as testimony of approval of the work done by the writing team of Chapter 6.

Sincerely Yours,

[Signature removed]

John P. Weyant

DR. KIRIT S. PARIKH

CHAIRMAN, IRADe
Former Member, Planning Commission



Report of the Review Editor, final draft of Chapter 7 of WG III of AR5

Reviewer : Dr Kirit Shantilal Parikh

Chairman, Integrated Research and Action for Development (IRADe), New Delhi, India

To

Ottmar Edenhofer, Ramon Pichs-Madruga and Youba Sokona

WG III Co-Chairs, IPCC AR5

Dear Co-Chairs,

I have examined the final draft of Chapter 7 and find that **"all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures."**

In particular the scope of the chapter is clearly defined as an energy supply chapter, data on levels and per capita emissions have been provided to give a balanced picture and the treatment of CCS and Nuclear are given due but not unduly large space.

I am satisfied with the Chapter 7 final draft sent to me on November 27, 2013.

Yours Sincerely

[Signature removed]

Kirit S Parikh

December 2, 2013

Integrated Research and Action for Development (IRADe)

2 December 2013

Prof Jim Skea CBE FEI FRSA HonFSE
Chair in Sustainable Energy

Ottmar Edenhofer
Ramon Pichs-Madruga
Youba Sokona
IPCC WG-III
c/o PIK Potsdam
PO Box 601203
14412 Potsdam, Germany

Dear Ottmar, Ramon, and Youba

IPCC WGIII 5th Assessment Report
Chapter 7: Energy Systems

I am writing to you in my role as Review Editor for Chapter 7.

It is my judgment that the authors' efforts have resulted in a text that is responsive to comments made at the expert and governmental review stage. All substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

The major issues identified in the Review Editors' joint report dated 24 June 2013 have been addressed. At this stage, many of the review comments are in contradiction with each other and the authors have done a fair job in steering a middle way between a number of conflicting, and sometimes subjective, views. Where reviewers comments have been rejected, robust justifications have been supplied. In a number of cases where comments have nominally been rejected, drafting changes have been made to the underlying text which has the effect of softening language on which reviewers had commented.

The remainder of this report documents how major issues raised by reviewers have been dealt with. The comments follow the sequence in the Review Editors' joint report of 24 June 2013.

GENERIC ISSUES

- Energy systems and the energy supply sector are now clearly defined.
- Unconventional oil and gas now appear to have been adequately covered in the text.
- The text is now much clearer about what has been added to the literature since AR4.
- There is a balance to be struck between bolder statements assigned a lower level of confidence and more cautious statements which have a high level of confidence. The authors have often chosen the bolder/lower confidence end of the spectrum and may be

asked to consider this in the approval session. However, all statements are formally correct and faithful to the underlying science.

- International agreements appear to be referred to accurately.
- A reading of the final draft does not reveal a Euro-centric tone.

SPECIFIC ISSUES

- The space devoted to CCS and BECCS appears to be appropriate and has been justified in response to review comments.
- The treatment of a number of subjective review comments about contentious issues such as the role of nuclear power and renewables is balanced and a neutral, non-policy-prescriptive tone has been struck.
- Comments on renewables integration have been responded to and the topic is covered in a neutral and scientific way.
- Fugitive emissions are now covered thoroughly.
- A suitable response has been made to criticisms about identifying individual countries and appropriate language has now been adopted when such references are required.
- Although “low-carbon” is not explicitly defined, the text now clearly indicates that nuclear, renewables and CCS are under discussion in the electricity sector.
- The distinction between costs that are projected and prices realised in markets is now clearly made in Figure 7.7.
- Embedded/life-cycle emissions are comprehensively covered.
- Significant revisions have now been made to the section 7.4.1 on fossil fuels, but there may still be some attention to the reserve/resource distinction in the approval session.
- The meaning of the technical potential of renewables is now laid out.
- ‘Smart grid’ concepts are no longer dismissed, though the coverage is still fairly brief.

Best wishes

[Signature removed]

Professor Jim Skea



DEPARTMENT OF CITY AND REGIONAL PLANNING
228 WURSTER HALL
BERKELEY CA 94720-1850

March 12, 2014

Timm Zwickel
Deputy Head, Technical Support Unit (TSU)
Intergovernmental Panel on Climate Change (IPCC)
Working Group III - Mitigation of Climate Change (WG III)
c/o Potsdam Institute for Climate Impact Research (PIK)
PO Box 60 12 03 | 14412 Potsdam | Germany

Via email: tim.zwickel@ipcc-wg3.de

At your request, I am again confirming the following on letterhead. As we have discussed, my comments and approval were sent to you months ago, but I am complying with your request for a more formal statement reiterating what I have already stated, to wit:

1- I am professor of City and Regional Planning and Urban Design and chair of the Berkeley Senate (faculty) at UC Berkeley. My address is listed above.

2_ I have provided you with comments in my position as IPCC WG IIIAR5 Ch.8 Review Editor

3- In my assessment, the process has been properly followed and comments have been adequately addressed. The writing team has responded to all review comments in both the expert and government review rounds in a fair, appropriate, and scientifically sound manner. Therefore, I conclude that the work of the Chapter 8 author team has been in full compliance with IPCC procedures.

I hereby provide my endorsement and sign-off as testimony of approval of the work done by the writing team of Chapter 8.

Sincerely,

[Signature removed]

Elizabeth Deakin
Professor of City and Regional Planning and Urban Design
Chair, Berkeley Academic Senate



Dear WG III Co-Chairs Ottmar Edenhofer, Ramon Pichs-Madruga and Youba Sokona

I, Suzana Kahn Ribeiro professor at Federal University of Rio de Janeiro and IPCC WGIII Vice Chair, reviewed the Transport Chapter (Chapter 8) of AR5 and I confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures. I would also like to add that all different opinions among the authors were dealt during the whole process in such a way that the final text could be accepted by the whole team.

Rio de Janeiro, 28th November, 2013

[Signature removed]

Prof. Suzana Kahn Ribeiro



November 25, 2013

Ottmar Edenhofer
Ramon Pichs-Madruga
Youba Sokona
IPCC Working Group III TSU
c/o Potsdam Institute for Climate Impact Research (PIK)
PO Box 60 12 03,
14412 Potsdam
GERMANY

Dear Co-Chairs of Working Group III:

I am writing to you in my capacity as the Review Editor for Chapter 9 of the AR5 Report.

In my SOD Review Editor Report submitted in June, 2013, I described four concerns that emerged from an evaluation of the reviewers' comments:

- Issues of balance and coverage especially with respect to coverage of developing countries and behavioral issues
- Stronger linkages across chapters and reports
- Need for minor editorial improvements and a few substantive corrections or qualifications
- Ways to consolidate and shorten the chapter

Each of these has now been effectively addressed. The coverage of developing nations issues is now much stronger, with a new section on policies in developing countries, Box 9.1 on least developed countries, and more emphasis on vernacular architecture. Behavioral issues are also treated effectively. There are stronger linkages across chapters and reports with numerous cross references. The minor editorial problems have now been addressed, although there is still a need for typographical and syntax corrections. And finally, a great deal of material is now effectively summarized in several synthesizing tables.

I confirm that all substantive, expert and government review comments have been afforded appropriate consideration by the reviewing team in accordance with IPCC procedures

Georgia Institute of Technology
Atlanta, Georgia 30332 U.S.A.
PHONE 404-385-0303

A Unit of the University System of Georgia

An Equal Education and Employment Opportunity Institution

Please do not hesitate to contact me if you have any questions about this report and thank you for your leadership.

Sincerely,

[Signature removed]

Dr. Marilyn A. Brown, Professor
Georgia Institute of Technology
School of Public Policy
DM Smith Building
685 Cherry Street, Room 312
Atlanta, GA 30332-0345

and Visiting Distinguished Scientist
Oak Ridge National Laboratory

Cc: Kristin Seyboth (IPCC/TSU)
Timm Zwickel (IPCC/TSU)

13 December 2013

Co-chairs of Working Group III of the Intergovernmental Panel on Climate Change
c/o Potsdam Institute for Climate Impact Research (PIK)
PO Box 60 12 03
14412 Potsdam
Germany

Review Editor's Report on IPCC Working Group III, Chapter 10: INDUSTRY

I confirm that all substantive expert and government review comments on Chapter 10 of the Working Group III report have been afforded appropriate consideration by the writing team, in accordance with IPCC procedures.

Consensus was achieved on the overall conclusions from the Chapter, although there was discussion on how far the clarity and value of the chapter could have been improved by adopting a structure grounded more firmly in the paradigm of industrial ecology. As a specific example, this approach would have enabled waste management to be presented as an integral part of resource management rather than as an appendix to the chapter and an afterthought to consumption.

Yours sincerely

[Signature removed]

Professor Roland Clift CBE FREng FICHEM HonFCIWEM FRSA
Emeritus Professor of Environmental Technology
Centre for Environmental Strategy
University of Surrey

Executive Director of the International Society for Industrial Ecology



THE QUEEN'S
ANNIVERSARY PRIZES
FOR HIGHER AND FURTHER EDUCATION

2011

Full name and affiliation

Valentin Nenov

Professor in Burgas Asen Zlatarov University, Bulgaria;

The chapter of the AR5 for which I am a Review Editor

Chapter 10;

My confirmation

All substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures;

My Comments

It has been found the proper way to discuss the waste generation and reuse within an Appendix (The sub-chapter Waste, 10.14). I would mention that the team of authors with the support of Review Editors elaborated successfully the hierarchy of waste management (Fig. 10.1), based on the main groups of waste hierarchy classification.

I appreciate much the professionalism of the team of authors, led by Manfred Fishedick and Joyashree Roy. During the editing procedure I was pleased to work with Prof. Roland Clift.

Signature [Signature removed]

Date Nov. 22. 2013

To the IPCC Working Group III Co-Chairs

From: Thelma Krug, National Institute for Space Research - INPE, Brazil

Final Report from Review Editor of IPCC WGIII AR5, Chapter 11 – Agriculture, Forestry and Other Land Use

I have participated as Review Editor in the last Lead Authors' Meetings. The first one, held in Vigo, Spain (05-09 November 2012), addressed the comments received from experts, leading to the Second Order Draft sent to governments. The second meeting, held in Addis Ababa, Ethiopia (01-05 July 2013), duly considered the comments received from governments. At both meetings, the Coordinating Lead Authors (CLAs) and Lead Authors (LAs) jointly considered the comments of overarching importance to the entire chapter and agreed on the way forward. The more specific issues were treated by the LAs of the corresponding sections and sub-sections. My assessment is that all the comments have been treated with consideration and the appropriate changes have been introduced in the final draft.

Having read both the First and the Second Order Drafts and all comments received, I agreed that all the contentious issues have been addressed in the Final Draft. In particular, as Review Editor I have noted in the reports of the earlier drafts the need to provide a more balanced text to reflect different scientific views. This unbalance may have resulted from an insufficient number of references analyzed. Some contentious issues, for example, were addressed with the indication of a single source, giving the impression of insufficient scientific coverage. A quick assessment of the SOD indicated that more than half of the references were single ones, and many originated from the own authors of the chapter. Reviewers have suggested several references in an attempt to better balance the chapter. This concern has been addressed by the LAs in the Final Draft, which now presents a more balanced and comprehensive text. The number of references have increased by approximately 50% since the SOD.

Other concerns raised by reviewers and review editors regarded the definitions provided in the SOD text, most of the time not consistent with definitions provided elsewhere by the IPCC or not correct. The Final Draft does not include definitions, which have been collected in the Glossary, thus helping to increase the internal consistency of the report.

One controversial issue raised by governments concerned the need for a specific Appendix on Bioenergy, in particular due to the recent release of the IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation in 2011 (SREEN). The authors responsible for the Appendix agreed that substantive changes would be required in the SOD order to address the more than 530 comments received on this issue from governments and experts. The Appendix in the Final Draft has improved since the SOD and presents a much more balanced approach to the issues. In particular, it provides a justification for the Appendix and its attachment to Chapter 11. Of the total number of references cited in the Appendix, 42 per cent is post-SREN (2012 and 2013) and it would be helpful if the Appendix could indicate more clearly where changes since the SREN have occurred. Finally, different terminology and definitions used in the SREN and the Appendix can lead to potential confusion (e.g. regarding terminology: technical potential (SREN) x technical bioenergy potential or technical primary biomass potential (Appendix)); e.g. regarding definition: technical bioenergy potential in the Appendix is "the fraction of the theoretical potential available with current technology"; and in

the SREN, “technical potential is the amount of RE output obtainable by full implementation of demonstrated technologies or practices”.

As a reviewer, I have followed more closely the internal discussions of the Chapter 11 text, and was impressed by the seriousness and commitment of the writing group, and the full engagement of the CLAs, in all phases. For the Appendix, as previously mentioned, the consideration of the comments by governments led to substantive changes in the SOD which reflect a more balanced approach to the theme.

[Signature removed]

Thelma Krug

Senior Researcher, National Institute for Space Research

Brazil



P.O. Box 47 | 6700AA Wageningen | The Netherlands

IPCC Working Group III TSU
c/o Potsdam Institute for Climate Impact Research (PIK)
PO Box 60 12 03
14412 Potsdam, Germany

Dears,

During the process of writing of the IPCC Fifth Assessment Report, Working Group III, I have acted as review editor for the AFOLU chapter (11).

I hereby state that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures. The chapter team has taken due consideration of all comments, discussed them in Lead Author meetings, and kept track of following up actual responses through the comment sheets.

I wish you good luck with the final stages of the report.

With kind regards,

[Signature removed]

 Gert-Jan Nabuurs
Lead Scientist European Forests
Alterra, Wageningen University and Research

DATE
December 6, 2013

POSTAL ADDRESS
P.O. Box 47
6700AA Wageningen
The Netherlands

VISITORS' ADDRESS
Droevendaalsesteeg 3
Wageningen

INTERNET
www.wageningenUR.nl/alterra

CoC NUMBER
09098104

HANDLED BY
Gert-Jan Nabuurs

TELEPHONE
+31 6 10559433

EMAIL
gert-jan.nabuurs@wur.nl

Wageningen UR (Wageningen University and various research institutes) is specialised in the domain of healthy food and living environment.

Alterra, part of Wageningen UR, is the research institute for our green living environment

December 8, 2013

To: WG III Co-Chairs (Ottmar Edenhofer, Ramon Pichs-Madruga and Youba Sokona).

From: Julio Torres Martinez; CUBASOLAR's Public Relations Deputy President;
Robert Cervero, University of California, Berkeley, Professor

Subject: Review Editors Final Report on AR5 Chapter 12

We are of the view that the latest version of Chapter 12 -- "Ch12_v01-clean-2013NOV15.doc" version received from the WGIII TSU on November 29th -- is a substantial improvement over earlier versions and in our opinion adequately responds to and addresses the most critical comments and issues raised by external reviewers regarding earlier drafts of this chapter. The latest version has been altered so much that most of the substantive comments raised about specific passages of the earlier draft are no longer relevant. We confirm that all substantive expert and government review comments have been carefully considered and afforded appropriate consideration by the Chapter 12 writing team in accordance with IPCC procedures. Some of the comments received on omissions and limited empirical evidence were satisfactorily addressed in the latest version of Chapter 12 by expanding the panel of contributing authors to include new individuals who provided new disciplinary knowledge and a wider perspective on urban development and spatial planning.

We noted that the chapter's treatment of low-Carbon technologies and measures was expanded meaningfully to include Zero- and/or No-Carbon possibilities. Spatial planning and urban policy strategies that improve social equality and help the poor through inclusive urban and infrastructure development are also more clearly addressed in the revised document. The exposition on how built environments and spatial development pattern affect emissions and energy consumption across a range of urban settings is also clearer and more compelling. For these and other reasons, we are confident that the revised Chapter 12 makes a useful contribution to our understanding of how spatial planning and infrastructure development influences climate change and thus merits inclusion in the Fifth Assessment.

Sincerely,

Julio Torres Martinez, [Signature removed]

Robert Cervero [Signature removed]



UNIVERSIDAD AUTÓNOMA DE BAJA CALIFORNIA SUR
Área de Conocimiento de Ciencias Sociales y
Humanidades

Apartado Postal 19-B

November 28, 2013

CUERPO ACADÉMICO
"Estudios Regionales y del Pacífico"

Dr. Ottmar Edenhoffer
Dr. Ramón Pichs Madruga
Dr. Youba Sokona
Co-Chairs WG III of the IPCC

Dear Co-chairs of WG III,

As review editor for chapter 13 "International Cooperation: Agreements & Instruments" of the IPCC Fifth Assessment Report (AR5) I am pleased to confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC Procedures.

The chapter is quite excellent now and its' quality has improved considerable since the first order draft. The text presents very good cohesion and coherence, and is policy relevant but not policy prescriptive.

Finally, I would like to offer my congratulations to all authors on excellent teamwork, and especially to CLAs on efficient and timely coordination.

Please find attached the most important comments handled in the final versions of this chapter.

Sincere best wishes:

[Signature removed]

Dr. Antonina Ivanova Boncheva
Director Graduate Program on Sustainable Development and Globalization
Universidad Autónoma de Baja California Sur (UABCS)
Review Editor, Chapter 13, AR5 of the IPCC

[C.c.p. Archive](#)

ANNEX 1.

RE COMMENTS CH.13 JUNE 2013

“...the comments on your respective chapter that are most critical to address in the writing of the Final Draft.”

- 1) There continues to be a concern about a lack of balance and southern perspectives. More comprehensive literature, including from developing countries, needs to be added.
 - This was recognized by the LAs and CLAs. Additional literature to be included
- 2) A number of reviewers noted the lack of policy relevant information that is useful for policymakers, without being policy prescriptive. Linked to this is the need for a clear narrative for the chapter.
 - The group spent time discussing the storyline for the chapter as well as the key findings. These two steps should address this comment which occurred regularly and will be a key item to check for in the FOD.
- 3) The text needs to include a greater discussion of equity as well as consistently use different terms (e.g. fairness).
 - Discussion occurred with Chapter 4. Decision in the group to include the relevant findings from chapter 4 into chapter 13 in appropriate places in the text. This builds on the equity lunch which occurred during the meeting.
- 4) In many places the chapter is missing the distinction of developed and developing countries that is very important for international cooperation, financial assistance, technology transfer and capacity building.
 - Discussed and responses agreed upon.
- 5) A greater discussion of other regimes, and lessons for the climate regime, especially the Montreal Protocol, is still needed.
 - Not discussed as it was not flagged as an issue where the two responding LAs disagreed. Will need to check final text.
- 6) Insufficient discussion on technology transfer and how to make technology agreements effective.
 - Discussed with the group. LAs requested to make this section more policy relevant.
- 7) Reviewers still have problems with the framing of the private sector. Include a greater discussion of the other players, including the public sector.
 - Discussed. Responses agreed.
- 8) Reviewers remain concerned about the discussion on carbon markets—a greater emphasis is needed on the negative aspects.
 - Discussed. Responses agreed.
- 9) Many reviewers continue to question the inclusion of geo-engineering in this section.
 - Discussed. Responses agreed i.e. why this is included in this chapter.
- 10) The text still has not sufficiently addressed trade sanctions and their potential role in the regime.
 - Discussed. Responses agreed which address these comments.

ANNEX 2

RE COMMENTS CH. 13, NOVEMBER 2013

- The CLAs and LAs have done an excellent job of responding to reviewer comments in the Final Order Draft.
- Based on the comments of the WG III Co-chairs and the TSU for Chapter 13 to be ‘policy relevant’, and further comments by reviewers we do have some questions regarding the treatment or non-treatment of issues in the Executive Summary. While it is clearly challenging to identify which issues deserve attention in the ES, it is important that there is a balanced treatment of subjects in respect to the interests of different Parties and reviewers. At this point, it does seem like there is a greater emphasis on issues of importance to developed countries and less to developing countries. A reference to developing countries is only included in regard to their commitment with mitigation actions. On the latter, those topics would include issues like equity, human rights, finance, technology transfer that are not treated at all. In addition, there are a few other issues that would seem to be highly policy-relevant and thus be more important to highlight in the ES than others. The main examples of these instances is included below:
 1. Equity is not treated at all in the ES at this time. There were numerous comments on drafts regarding the importance of equity in international cooperation. While those comments were responded to in the chapter, there is practically no treatment of this issue in the ES
 - Line 11, page 5 notes the ‘differences among nations...’ but does not reference the ‘inequalities’
 - Line 28 page 6 includes equity and the related principles of distributive justice and CBDR/RC – but does not state anything further.
 - Mention of distribution on line 37 page 7, but no real treatment
 2. Legal form is of great policy relevance to going negotiations but is not included in the ES. Table 13.1 includes useful information.
 3. The ES does not include any text on figure 13.5 that has strong policy relevance.
 4. The ES includes text on solar radiation management (SRM) which indicates a high priority – yet the vast majority of the comments were questioning its inclusion in the chapter at all. This would not warrant inclusion in the ES.

In addition, we do find the chapter, in a number of places, to have a slight imbalance. One example is the text at the bottom of page 26 in 13.4.2.4 where it focuses on the changes in emissions and wealth over time only and not a broader perspective on what has changed or not changed. Another is in the first paragraph of the executive summary, line 11, where “differences” are mentioned but not “inequalities.” Another is on page 63 line 24, and the interpretation of the Durban Action Plan. These are small but important points that add up to the overall balancing of the chapter. We would be keen to hear your assessment of this point as you, of course, have been looking at these balance issues as well. It may be helpful to refer back to the comments from developing countries or from the LAs from developing countries to provide some guidance on this.

All comments considered in final draft.



WORLD
RESOURCES
INSTITUTE

10 G Street, NE Suite 800 Washington, DC 20002 USA (PH) +1 (202) 729-7600 (FAX) +1 (202) 729-7610 www.WRI.org

Dr. Ottmar Edenhofer
Dr. Ramón Pichs Madruga
Dr. Youba Sokona
Co-Chairs WG III of the IPCC

December 2nd, 2013

Dear Co-Chairs of WG III,

As review editor for chapter 13 “International Cooperation: Agreements & Instruments” of the IPCC Fifth Assessment Report (AR5) I am pleased to confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC Procedures.

The chapter is quite excellent now and its’ quality has improved considerably since the first order draft. The text presents very good cohesion and coherence, and is policy relevant but not policy prescriptive. Finally, I would like to offer my congratulations to all authors on excellent teamwork, and especially to CLAs on efficient and timely coordination.

Please find attached the most important comments handled in the final versions of this chapter.

Sincerely,

[Signature removed]

Jennifer L. Morgan
Director, Climate and Energy Program
World Resources Institute

ANNEX 1

RE COMMENTS CH.13 JUNE 2013

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ANNEX 2

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All comments considered in final draft.

Nairobi, 23 December 2013

Dr. Volodymyr Demkine
Programme Officer
Division of Early Warning and Assessment (DEWA)
United Nations Environment Programme
P.O.Box 30552, Nairobi 00100, Kenya (official)
P.O.Box 47074, Nairobi 00100, Kenya (personal)
Tel: (254-20) 7624566
Fax: (254-20) 7623944
Email: Volodymyr.Demkine@unep.org
Web: www.unep.org
Skype: vdemkine

Dear IPCC Working Group III Co-Chairs,

Subject: IPCC AR5 Chapter 14: Review Editor's Report

Please find enclosed the Review Editor Sign-off Letter and the subject report.

Yours sincerely,

[Signature removed]

Volodymyr Demkine
Programme Officer
Division of Early Warning and Assessment (DEWA)
United Nations Environment Programme

Ottmar Edenhofer, Ramon Pichs-Madruga and Youba Sokona
c/o IPCC WG III Technical Support Unit
c/o Potsdam Institute for Climate Impact Research (PIK)
PO Box 60 12 03
14412 Potsdam
Germany

IPCC AR5 Chapter 14: Regional Development and Cooperation

I, Volodymyr Demkine, the Review Editor of Chapter 14 *Regional Development and Cooperation*, confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with the IPCC procedures and I now accordingly agree to sign-off on the chapter.

[Signature removed]

Signed: _____ Date: 23/12/ 2013

Review Editor's Report on Chapter 14

My apologies for reporting late. I had an accident and I was not able to write/type anything for about three weeks. Fortunately I was fully in position to read the chapter and comments and I should confirm that, as a whole, the authors have made a very good job in addressing the review comments. I should also emphasize that I was only involved as a review editor since the SOD review stage therefore my report may not necessarily be comprehensive enough.

Reviewers provided over 300 comments on the Chapter SOD. Selected, although not exhaustive, integrative comments included shortcomings such as follows:

- Revert the chapter outline back to the version agreed by the 35th Plenary Session of the IPCC.
- Lack of clarity in the storyline, lack of focus, inconsistency between sections: Reviewers pointed out that the chapter lacked consistency in financial analysis and interpretation of some fundamental things, for example "leap-frogging"; integration through sectors and regions; clear conclusions on what works and what does not work. The chapter seemed not to have a consistent storyline. This might be a reason why some reviewers stated that they would like to see more clear conclusions, esp. with regard to trans-national regional collaboration and opportunities that stem from that collaboration. Though a positive impression of the need and value of regional cooperation could be formed more evidence was required to conclude that regional cooperation created conditions favourable to address mitigation/adaptation.
- There was obvious bias towards the EU ETS pointed out by many reviewers. Some stated that extensive analysis of the EU ETS and CDM (the latter to a lesser extent, though) was not much relevant to this chapter. For example, the discussion of the CDM should have a regional focus and only complement the discussion in Chapters 13 and 16. Therefore there was potential for reduction of the volume of the text while the space saved could, in particular, be used to analyze promising regional initiatives.
- Repetitions and redundancies: Reviewers pointed out that sometimes the text was repetitive with other chapters esp. Chapters 5, 6 and 7. Reviewers also pointed out the pieces that would better fit other chapters.
- Some sections were long and verbose while others did not properly elaborate on the topic. Therefore reviewers recommended reducing the length of those sections.

Having compared the final draft with the SOD I can conclude that all the review concerns on Chapter 14 have been satisfactorily addressed by the authors. All the above issues may now be considered as solved. Most of the comments that the authors have rejected dealt with editorial matters and requested for corrections that would not have affected the chapter findings if implemented. In some cases, the authors were not able to benefit much from reviewers' recommendations as the information was not available in the peer reviewed literature. Those knowledge gaps were correctly summarized by the authors in section 14.6 of the chapter.

Final Review Editor Report, IPCC WGIII AR5, Chapter 14

**Kirsten Halsnæs, Professor, The technical University of Denmark, DTU Risø Campus,
Building 110, DK-4000 Roskilde Denmark**

I hereby declare that all review comments included in the expert and government review have been considered carefully and substantive suggestions have appropriately been taken into consideration.

Signature

[Signature removed]

17/12 2013

Dear Ottmar Edenhofer

Dear Ramon Pichs-Madruga

Dear Youba Sokona

Subject: Final Review Editor Report of Chapter 15

I have performed the final check of the revised version of Chapter 15 text and the sheet comments replied by the authors. The responses to comments from government and expert reviews are adequate and have been appropriately implemented in the chapter text. The author team used the following positive wording in their responses to the government and expert review comments:

Accepted, taken into account, text modified, well taken, replaced, addressed, rectified and noted.

Some responses have been rejected or not have a positive reply to specific comments. These are based on reasonable justification. e.g. Assessment of specific contributions of developing countries in terms of domestic voluntary actions and global efforts to address climate change, are not enough to cover due to lack of literature from developing countries. Other comments have only been noted due to limitations of space and to abide by AR5 Guidelines. Only minor comments have been rejected without presenting a reason for rejection.

Finally, I will say that the chapter has been well improved and cleared.

To conclude I will emphasize that all the substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC Procedure. Therefore, please accept my blessings to the report.

Thanks and Regards

[Signature removed]

Dr. Nadir Mohamed Awad

Chapter 15 Review Editor



Chapter 15: Review Editor Report

1. General assessment.

The text has been significantly improved: The executive summary now includes the main results. The framing is better. The empirical evidence is broader (although roadmaps of climate mitigation based on best practice may still be missed). The instruments are described and discussed in a more balanced way. The evaluation applies not only the economic criteria but also the other of the four criteria that have been accepted. There is now a more balanced discussion of controversial issues (e.g. the cost issue). Additional expertise has been mobilised.

The majority of comments have responses with explanations (i.e. more than „noted“ or „taken into account“). There are by far more points accepted than rejected. Several parts of the text that have been criticized have been defended convincingly (e.g. 124, 136, 250, 430). Disputed tables/figures have been removed (401ff, 547, 629ff). Many technical comments have been accepted.

2. Selected issues.

The discussion on instruments which was criticized several times of being „too theoretical“ and having an „economic bias“, is now more balanced. The role of regulation has found an adequate place. The instrument of voluntary agreements (with many critical comments from reviewers) now finds a differentiated description. The discussion on ETS is more differentiated, including rectifying measures in case of oversupply (494). The instrument analysis of the sectoral chapters has been integrated.

„Capacity building“ was a strongly criticized section (559ff.). Now there is a broader basis in the existing literature. The important aspect of multi-level governance has found a broader empirical basis. Other points such as the role of lobbying have been accentuated.

More developing country cases have been included in the chapter, as several reviewers have recommended. Nevertheless, there remains a significant weakness, mainly due to scarce empirical studies.

4. Conclusion

I come to the final conclusion that all substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures. I would also say, that the reviewers did a really important job and made an essential contribution to the improvement of the chapter.

[Signature removed]

(Prof. Dr. Martin Janicke)

To:

WG III Co-Chairs

Ottmar Edenhofer

Ramon Pichs-Madruga

Youba Sokona

From:

Review Editor - Chapter 15

Ronaldo Seroa da Motta

Affiliation: State University of Rio de Janeiro (UERJ), Professor

Subject: Final RE Report

Dear Co-Chairs

I confirm that all substantive expert and government review comments have been afforded appropriate consideration by the writing team of Chapter 15 in accordance with IPCC procedure. I do also inform that no further issues are pending, i.e., that all issues have been solved.

It was a great honor to be part of this Assessment Report and a pleasure to work with you, the TCU, Chapter authors and my Review Editor colleagues.

My best regards.

[Signature removed]

Ronaldo Seroa da Motta

Rio de Janeiro, 29th November 2013



Università
Ca' Foscari
Venezia

Il Rettore

Venice, December 3, 2013

To: Co-Chairs, IPCC WG III

—

Ca' Foscari
Dorsoduro 3246
30123 Venezia

T 0412348211
F 0412348321
rettore@unive.it

Dear Ottmar, Ramon and Youba,

let me first congratulate for the excellent work done by the CLAs and LAs of AR5 Ch. 16. The chapter has greatly improved and the last version is largely acceptable.

Definitions are now clear, the chapter has a sound logic structure and well summarizes the existing literature. In particular, the quantitative dimension, although still perfectible, is now significant and provides important insights on the needs for relevant investments for mitigation and adaptation to climate change.

All substantive expert and government review comments have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

With very best wishes

[Signature removed]

Carlo Carraro
President, Ca' Foscari University of Venice
Review Editor, AR 5 Ch 16

Working Group III

Mohammed-Said KARROUK

Review Editor for Chapter 16

Report on the SOD

November 21th, 2013

The final report "131028_WGIII_AR5_Draft3_Ch16" carefully reviewed the observations and recommendations of the authors and governments contained in chapter 16 of the WG III AR5. These comments were taken into consideration by the writing team accordance with the procedures of the IPCC.

Sincerely

[Signature removed]

Mohammed-Said KARROUK

Review Editor WG III Chapter 16

Name: Ignacio Pérez-Arriaga
Affiliation: Comillas University, Madrid, Spain
Review Editor for: Chapter 16

With this message I confirm that all substantive expert and government review comments on Chapter 16 of the IPCC WGIII AR5 have been afforded appropriate consideration by the writing team in accordance with IPCC procedures.

I have no additional comments or suggestions.

Sincerely

[Signature removed]