



Report on Global and Macroregional Key Trends and Scenarios

Milesecure 2050 Deliverable 1.2

Publication

[Report](#)

Citation

Cassen, Christophe et al. 2013: Deliverable 1.2 - Report on Global and Macroregional Key Trends and Scenarios. SMASH, Paris

Cassen, Christophe et al. 2013: Deliverable 1.2 – Report on Global and Macroregional Key Trends and Scenarios. SMASH, Paris

Language

English

Authorship

Max Grünig
Christophe Cassen (SMASH)
Meriem Hamdi-Chérif (SMASH)
Myriam Cherbib (SMASH)
Jean Charles Hourcade (SMASH)
Zygmunt Parczewski (IEN)
Adam Umer (EnergSys)
Gabriele Quinti (LSC)

Funding

European Commission, [Directorate-General Research & Innovation](#) (DG Research & Innovation), International

Published by

[Société de Mathématiques Appliquées et de Sciences Humaines](#) (SMASH), France

Year

2013

Dimension

118 pp.

Project

Project ID

[2721](#)

Table of contents

1. Executive summary
2. Introduction
3. Macro-economic scenarios: approach and methodology
 - 3.1 Presentation of the scenarios set and models
 - 3.1.1 Modeling exercises considered
 - 3.1.2 Types of models
 - 3.1.3 Structure of the scenarios
 - 3.2 Socio-Economic drivers
 - 3.2.1 Population growth
 - 3.2.2 Macro-economic development
 - 3.2.3 Energy Intensity
 - 3.3 Technical change: deployment of technologies
 - 3.4 Energy and carbon prices
 - 3.4.1 Oil reserves/resources
 - 3.4.2 Emission pathways
4. Features of the low carbon and energy transition given climate constraints (globally and by sector)
 - 4.1 The low carbon transition requires significant transformations of the energy system
 - 4.1.1 Global changes in the Energy mix
 - 4.1.2 Regional potentials of RES
 - 4.1.3 Sectoral changes in the Energy supply
 - 4.2 The LCS vision is achievable under modeling technological options
 - 4.3 A transition associated with moderate average global costs
 - 4.4 The three flexibilities
5. Regional perspectives

5.1 OECD countries

5.2 The “giants”: India and China

6. A basic vision of transition dynamics for assessing the interactions between climate policies and energy security issues?

6.1 A climate and technology-centric drift

6.2 Second best world or Second best policies?

6.3 Co-benefits and trade-offs between climate policies and energy security

7. Conclusions

8. Annexes

9. Abbreviations

10. References

Keywords

[Climate](#)

[Energy](#)

[EU](#)

[Governance](#)

Source URL: <https://www.ecologic.eu/12180>