

# Overview

- Theoretical potentials of energy efficiency - how close to thermo-dynamic limits? stair case effect?
- Present economic efficiency potentials – a snap-shot of present technology and energy price levels
- Major obstacles and unused constructive factors (within the energy using company)
  - the focus on risk, “robust” management rules (80/20%) , procurement by insufficiently specified tenders; motivation and responsibilities of machine/plant operators or apprentices
- Energy efficiency policy strategies – remind the innovation system (all actors)
  - along the supply chain for obstacles and motivations
  - decisions in Brussels and in capitals of Member Countries
- the implications for policy portfolios of energy efficiency policy



# Potentials And Policy Implications Of Energy And Material Efficiency Improvement

**Ottmar Edenhofer**



## **Potentials And Policy Implications Of Energy And Material Efficiency Improvement:**

Potentials and Policy Implications of Energy and Material Efficiency Improvement Ernst Worrell, United Nations. Department for Policy Coordination and Sustainable Development, 1997 There is a growing awareness of the serious problems associated with the provision of sufficient energy to meet human needs and to fuel economic growth world wide This has pointed to the need for energy and material efficiency which would reduce air water and thermal pollution as well as waste production Increasing energy and material efficiency also have the benefits of increased employment improved balance of imports and exports increased security of energy supply and adopting environmentally advantageous energy supply A large potential exists for energy savings through energy and material efficiency improvements Technologies are not now nor will they be in the foreseeable future the limiting factors with regard to continuing energy efficiency improvements There are serious barriers to energy efficiency improvement including unwillingness to invest lack of available and accessible information economic disincentives and organizational barriers A wide range of policy instruments as well as innovative approaches have been tried in some countries in order to achieve the desired energy efficiency approaches These include regulation and guidelines economic instruments and incentives voluntary agreements and actions information education and training and research development and demonstration An area that requires particular attention is that of improved international co operation to develop policy instruments and technologies to meet the needs of developing countries Material efficiency has not received the attention that it deserves Consequently there is a dearth of data on the qualities and quantities of final consumption thus making it difficult to formulate policies Available data however suggest that there is a large potential for improved use of many materials in industrialized countries **Малахитовая шкатулка**, 1954

*Potential for Industrial Energy-Efficiency Improvement in the Long Term* J. de Beer, 2013-06-29 This book does not give a prediction of what the efficiency will be of the energy use of industrial processes in the future However it does give an exploration of limits to the efficiency of current processes and an indication of what might be achieved if new technologies can be developed At the Department of Science Technology and Society of Utrecht University research had been done to the opportunities for improvement of the energy efficiency in the short term since the 1980 s This had resulted in a comprehensive database on energy efficient measures This database and a possible application are described in Chapter 3 of this book The use of the database induced new research themes around efficiency improvement e g concerning barriers for implementation of measures It was around 1993 that I did a preliminary study to the potential for efficiency improvement in the long term Historical analysis had shown us that the short term potential stayed constant over the years It seemed to be replenished by the introduction of new technologies This lead to the question whether there are limits to the efficiency taking into account both thermodynamic considerations and ideas on the development and dissemination of new technologies

*Climate Change 2001: Mitigation* Bert Metz, 2001-07-12 Climate Change 2001 Mitigation is the most comprehensive and

up to date scientific technical and economic assessment of options to mitigate climate change and their costs The report Makes clear there are strong inter linkages between climate change policy and policies towards sustainable development Assesses information on technological options to reduce greenhouse gas emissions or enhance their sinks Analyses technologies and practices available to achieve the targets of the Kyoto Protocol and stabilise atmospheric concentrations of greenhouse gases Evaluates barriers impeding implementation of these options and methods available to overcome them Summarises the economic literature on costs of climate change mitigation at global regional and national levels Evaluates the other benefits that climate policy can deliver or the climate benefits of other socio economic policies Assesses how this information can be used to support climate policy decision making acknowledging various decision making frameworks This latest IPCC assessment will again form the standard scientific reference for all concerned with climate change and who want to be informed of ways to address this important global problem including students and researchers in environmental and social sciences and policymakers and analysts in governmental and non governmental organisations and the private sector world wide

Energy for Sustainable Development Thomas B. Johansson, José Goldemberg, 2002 In the ten years since the Earth Summit in Rio the world has gained a more thorough understanding of the problems associated with energy use and of the actions that need to be taken Some countries have made enlightened energy policies a priority and many of their experiences are reflected in these pages This book sheds light on policy options that can support an equitable safe healthy and prosperous world using energy as an instrument for sustainable development

**Aanwinsten van de Centrale Bibliotheek (Queteletfonds)** Bibliothèque centrale (Fonds Quetelet), 1997

*Report on the ... Session* United Nations. Committee on New and Renewable Sources of Energy and on Energy for Development, 1996

**Macmillan Encyclopedia of Energy** John Zumerchik, 2001 Covers the broad field of energy in over 250 illustrated articles written by academics and experts in the field Includes biographies of people who made significant contributions to the science and technology of energy

**Climate Change 2014: Mitigation of Climate Change** Intergovernmental Panel on Climate Change, 2015-01-26 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy

**Official Records**, 1999

Climate Change 2014: Mitigation of Climate Change Ottmar Edenhofer, 2015-01-26 This latest Fifth Assessment Report of the IPCC will again form the standard reference for all those concerned with climate change and its consequences

**United Nations Publications**, 2005

*Climate Change 2022 - Mitigation of Climate Change* Intergovernmental Panel on Climate Change (IPCC), 2023-08-17 This Working Group III contribution to the IPCC Sixth Assessment Report provides a comprehensive and transparent assessment of the literature on climate change mitigation The report assesses progress in climate change mitigation options for reducing emissions and

enhancing sinks With greenhouse gas emissions at the highest levels in human history this report provides options to achieve net zero as pledged by many countries The report highlights for the first time the social and demand side aspects of climate mitigation and assesses the literature on human behaviour lifestyle and culture and its implications for mitigation action It brings a wide range of disciplines notably from the social sciences within the scope of the assessment IPCC reports are a trusted source for decision makers policymakers and stakeholders at all levels international regional national local and in all branches government businesses NGOs Available as Open Access on Cambridge Core

**Report on the ... Session** United Nations. Committee on Energy and Natural Resources for Development,1999

**Energy After Rio** Amulya K. N. Reddy,Robert H. Williams,Thomas B. Johansson,1997

**National Climate Policies and the Kyoto Protocol** Jan Corfee Morlot,Organisation for Economic Co-operation and Development,1999 This book provides an overview of recent developments in OECD countries and a framework for policy making in the context of Kyoto targets

**Vierteljahrshefte zur Wirtschaftsforschung** Deutsches Institut für Wirtschaftsforschung,1999

*Environmental Issues* United Nations Publications,1997

What OTA is, what OTA does, how OTA works United States. Congress. Office of Technology Assessment,1983

*A Small Price to Pay* ,1998

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