

IEA – Demand Side Management an introduction

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This presentation



- Why energy?
- MA family of logo's
- M Directions of solutions
- The way we organize IEA-DSM
- MHow can you contribute?
- More info



Why energy?



- There is more then enough energy to satisfy our needs...
 - ☑If we can get the right quantity at the right place at the right time...
 - If we don't spill huge quantities for production and transport
 - If we take care on how efficient we use it
 - If we don't poison the planet during the process

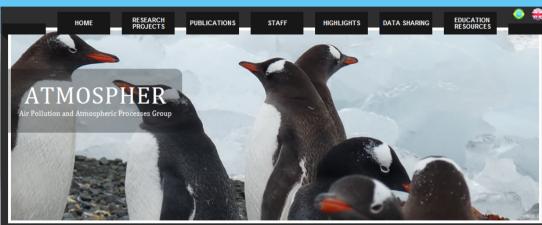
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A family of logo's







Current membership

>> Finland

» Australia	>> France	>> Korea	>> Slovenia
» Austria	>> Germany	>> Luxembourg	>> Spain
» Belgium	» Greece	>> Mexico	>> Sweden
>> Canada	>> Hungary	>> Netherlands	>> Switzerland
» Chile	>> Iceland	>> New Zealand	>> Turkey
» Czech Republic	>> Ireland	>> Norway	» United Kingdo
>> Denmark	» Israel	>> Poland	>> United States
» Estonia	» Italy	» Portugal	

>> Slovak Republic

Global temperature could rise up to 6 degrees, warns OECD



By the end of this century, global temperatures could rise between 3 and 6 degrees centigrade if current trends continue, warns the OEOD (Organization for Economic Cooperation and Development) on Thursday. But there is still time for this scenario with serious consequences to be avoided at a cost of limited actions.

This is the main content of a report on climate change released by the OECD on the eve of the Durban conference, which starts Monday (28) in Durban, South Africa. The ICRC calls on governments to engage around an international agreement.

"The economic costs and environmental consequences of the absence of political action on climate change are significant," warned the secretary, Angel Gurria, during the presentation of the study.

Specifically, measures to modify, especially the energy landscape is expected for 2050 and reducing greenhouse emissions by 70% would cost 5.5% of GDP (Gross Domestic Product) - a number that the authors of the report relativized in news conference to emphasize that mean that the world economic growth over the next four decades would be 3.3% per year instead of 3.5%, a cut of two-tenths.

The report highlighted that not changing current policies would lead to environmental damage that would affect the economy much more. The Stern report of 2006 had anticipated permanent losses of per capita consumption of over 14%.

The OECD warned that without new policies to contain emissions of greenhouse gases, fossil fuels will follow current while maintaining their relative weight, 85% of the total, which would lead to a volume of atmospheric concentrations of 685 parts of carbon dioxide (CO2) or equivalent per million, far from the 450 that scientists believe that would limit global warming to two degrees Celsius.

For the body, an important point is to establish "a significant price" of CO2 emissions to induce technological change but also setting targets for emissions are reductions, "clear, credible and more restrictive" with which "all major emitters, sectors and countries" need to compromise.

More info: Folha.com - Ambiente

IEA DSM - An Introduction

>> Japan





The basic aims of the IEA are



- To promote rational energy policies in a global context through co-operative relations with non-member countries, industry and international organizations;
- To operate a permanent information system on the international oil market;
- ☑To improve the world's energy supply and demand structure by developing
- ☑ alternative energy sources and increasing the efficiency of energy use;
- ▼ To assist in the integration of environmental and energy policies.









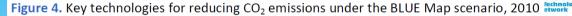


International Energy Agency



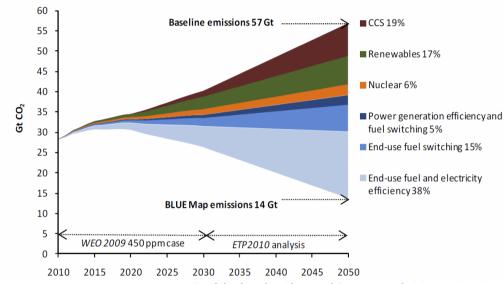


Directions of solutions



- ☑ Breakthrough technology
 - **W** Fusion
 - Next generation nuclear
 - Carbon Capture & Storage
 - **W**
- - Renewables in general
 - M Off shore wind
 - Concentrated solar power
 - Supercritical Coal-Fired Power Plants
 - **W**
- ☑ Drastic energy efficiency improvement
 - **X** Equipment
 - Appliances
 - **M** Transport
 - **W**

IEA DSM – An Introduction



Build Absolutely Nothing Anywhere Near Anyone



Not in my back yard

iea**dsm**



Vision & Mission

- Programme Vision: In order to create more reliable and more sustainable energy systems and markets, demand side measures should be the first considered and actively incorporated into energy policies and business strategies.
- Programme Mission: To deliver to our stakeholders useful information and effective guidance for crafting and implementing DSM policies and measures, as well as technologies and applications that facilitate energy system operations or needed market transformations.

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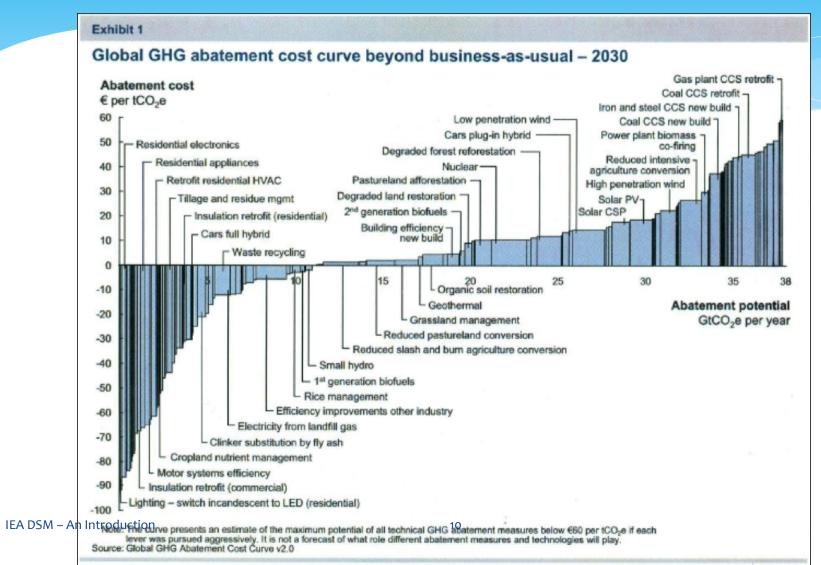
- ▼ The Programme's work is organised into two clusters:
- The load shape cluster, and
- The load level cluster.

 IEA DSM An Introduction





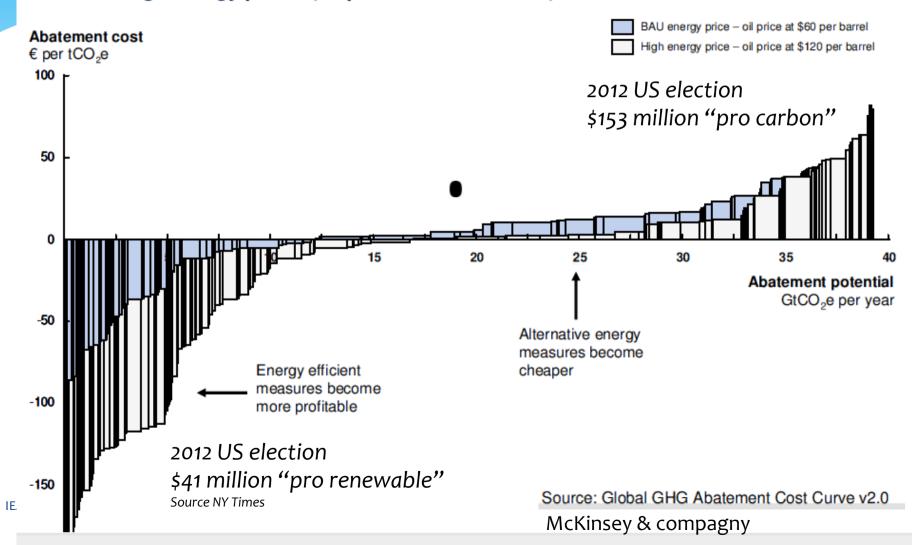
Directions of solutions







Effect of high energy prices (oil price at \$120 a barrel)



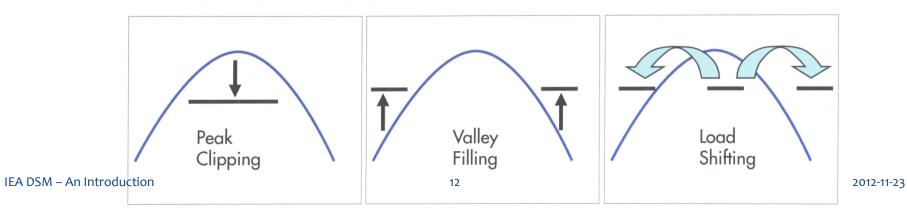




Directions of solutions

- M Demand Side Management
 - **™**load management,
 - Menergy efficiency,
 - Istrategic conservation and related activities.

Figure 1: Load Shape changes. (Adapted from Clark Gellings, speech made 1982)⁵

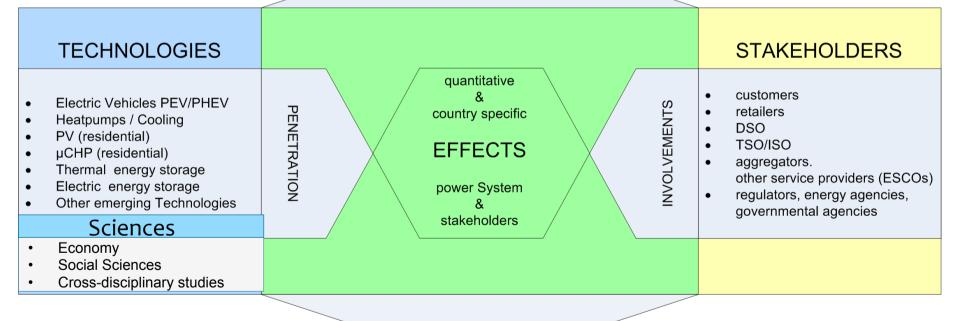




Load Management: the model to work in IEA-DSM



BENEFITS



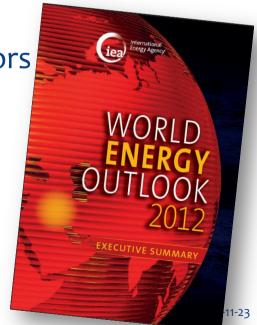
COSTS

The way we organize IEA-DSM





- 👿 Five year workplan
- In collaboration with other implementing agreements and IEA secretariat.
- Tasks with interested members and sponsors
- ■Operating agent per task
- Bi-annual Executive Committee
- Lots and lots of phone calls







How can you contribute?

- M Contact us, or your national ExCo member
 - MBy social media
 - **⋈** By our website
 - MAnd in the upcoming presentations.







Q&A

