

Marsden (see) - (3-7-08) (2)

A new Paradigm.

Market economy

20 Century: Democracy; Growth; Social public policies; Welfare State

21 Century. Toward an Emission Neutral Society.

① Renewable sources of energy. - Solar, Wind, Hydro, geo-thermal, ocean waves; biomass; High oil & gas prices + better technologies

European
Budget
800 mill. Euro
per year
Annual turnover in
Germany 21 mill. €
70% electricity in
Europe

Global I in renewable
148 billion USD
60% in 2016

② Building + Cars as sources of or storage of energy; Buildings not only neutral, but generator of energy. -

Not to have
Production costs
New
a social mix
you produce your
own energy.
Berkeley

This is a revolution; Cars can storage with Hydrogen

- Building as a power plant. Carbon neutral or free.
- Bonuses + office complex generates from dedicated and will sell. Recycle garbage.

③ Hydrogen Storage: Renewable produce electricity.

This electricity is used to separate H from O from water through electrolysis...

We store electricity in the form of Hydrogen
- EU established a Hydrogen Technology Platform.

Germany forecast 500 mill. € in R + D. to lead in this field.

④ Reconfiguration of a European Power Grid ...

IPCC findings.

- ① It's the human factor stupid!
- ② No se puede δ + de 2°C .
- ③ Wealth + Carbon debt.

We make decisions
climate change if we
W.S don't emit
Germany
Australia

Transition emission reduction is technically feasible and economically affordable.

Drivers for CO_2 Population
GDP/per capita
Energy intensity
Carbon intensity

3 Parts: 1) Listen well & think tanks. Human face of climate.
2) Q + Answer.

Simon Anderson. Help in negotiations.
Adaptation.

Adele Arendse: (South Africa)

Drexhage (Canada) Biodvelopment.

* Adaptation tools.

Micro financing + adaptation.

Mitigation + adaptation can go on.

Carbon Market.

Comparative Studies is important

Jean-Luc Maurer Climate change + desertification in Africa.

EADI (150 institutes) Annual Conference this year.

* - International Migration

- Europe des Cooperatives + EADI: 2020

Research to invest to climate change.

Maxwell (UK)

Policies to Mitigate climate change

is the principal risk for the poor.

* Adaptation: Poor countries will become middle income.
Global inequality:

Rahmstorf (Germany) Climate Change + Justice.

German Advisory Council on Climate Change.

Right to pollute??

Jeffrey Sachs Earth Institute

Indicators & challenges of sustainable development.

- Modeling a day future. -
- Large companies + mitigation.

* " " " " and a day future.

Peter Walker Tufts University

Agenda 21 focus on a focus on cooperation

Watkinson Tyndall Center

Studies hurricanes; flooding etc.

- Change on island tourism??
- Small island states sea level rise.
- Individual answer.

* - Living with environmental change??

Wiemers (German development institute)

- Mitigation in emerging countries (China) House building.
- (Ch, India, Indonesia, Mexico etc)

Climate Ch. & global security.

14 presentations of where we are in research. -

Judith Rodin Rockefeller Foundation 4 areas.

Survival.

Agricultural

Environmental degradation

Climate Change: * Practical Solutions

Building resilience