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Bavaria - Accelerator for a Roadmap towards a Sustainable World Economy

Abstract

Arctic sea ice retreat in summer 2011 was at a record high:

- The Arctic sea ice lost 40% of its average 20th century volume.
- The ice layer thickness went down to less than 100 cm
- 80-90% of the ice consisted of one-year old ice
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If the trend continues ice free summers are possible within this decade!

It is almost impossible to predict the consequences of an ice free Arctic summer. The only thing that we know is, that the climate of the Northern hemisphere will radically change. This change will effect especially Russia, Siberia and North America. The devastating heat waves and wild fires of 2010 in Russia and 2011 in North America are only a vague picture of what lies ahead.

The speedy climate change in the Arctic region calls for immediate action. There is no time for postponing a post Kyoto Protocol into the next decade. In addition, we must make strong efforts to implement a project and technology based roadmap towards a timely turnaround to a low carbon world economy.

Over the past two decades road2sustainability a Bavaria based leadership thinktank has developed and promoted a roadmap along with other entrepreneurial climate protection initiatives such as Vattenfall.s Combat Climate Change Initiative. Our common goal is to implement clear landmarks for key technologies and key markets to exit carbon based industries and implement low carbon and carbon neutral technologies in key markets a.s.a.p.

The Roadmap of road2sustainability was honored by the International Schumpeter Award University St. Gallen as „highly commended“.

One of the roll models for this turnaround scenario is the American Apollo project, which generated a long-lasting and sustainable innovation cycle within the US and beyond.

E.g. Apollo turned an experimental technology into an affordable mass market product within one decade of research and development:

Solar Energy

Our analysis shows that a contemporised 21st century Apollo framework with a global approach would boost the global turnaround towards a sustainable world economy by the factor 1: 10.

The most sought of solution for a carbon and nuclear energy exit is already in its experimental state:

High Efficiency Photovoltaic Systems with an energy efficiency of 40% and up

road2sustainability analysed that a joint effort to apply this new generation of photovoltaic systems both terrestrial and in orbital solar power stations, along with energy efficiency and the application of other renewable energies would guarantee the major producers of CO₂ a safe and reliable turnaround and exit with a sustained decrease of CO₂ output during the next decades.

As part of a large scale Sustainability Initiative by the Government of the State of Bavaria, road2sustainability is preparing a round table with representatives of the Bavarian Government, Universities, Science Labs and Industries along with European Space Agency ESA to outline the specific requirements of this roadmap.

We also invite all interested parties to join this panel.

The roadmap covers specific turnaround scenarios for energy, mobility and urban development.

Its architecture is directly linked to the G 8 and G 20 summits as well as the more regulatory framework of the IPCC and Kyoto and post Kyoto protocol.

Its main purpose is to call for immediate action with a special focus to align the United States and BRIC States.

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