



Energy Policy Needs Objective Information.



Objectivity Needs Independent Financing.

# Goals and Projects

## **Energy policy needs objective information.**

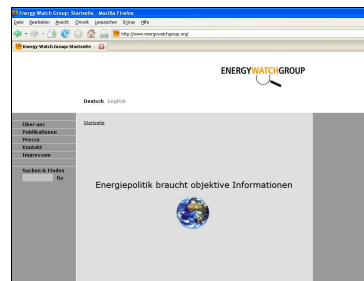
The Energy Watch Group project operates under the auspices of the Ludwig-Boelkow Foundation. It was initiated by Hans-Josef Fell, a member of the German Parliament (Deutscher Bundestag), in collaboration with other parliamentarians from both Germany and abroad. The goal was the creation of an information source for decisions related to energy policy that is independent of governmental influence.

Energy Watch Group is a non-partisan international network of scientists and parliamentarians whose work is independent of economic special interests. Its efforts are directed toward politics, business and industry, and – particularly in its media campaigns – toward the public. Major parts of the organizational and content-related tasks, especially those of the advisory board members, are performed on a volunteer basis.

The organization's scientists undertake studies about the actual worldwide availability of fossil and nuclear energy resources and the possibilities for development of renewable sources of energy. These studies serve as the foundation of a global energy scenario on the basis of geological, technological, and economic analyses.

## **In Brief:**

- Energy policy needs objective information: Other sources of information serve special political or economic interests.
- Independent information helps prevent managerial and economic mistakes, as well as investment errors whose consequences can run into billions.
- Transparency in information accelerates the implementation of sustainability-oriented innovation such as in the areas of energy efficiency and renewable energy.
- The Energy Watch Group neither purveys self-serving good news nor engages in scaremongering. It focuses on delivering a fact-oriented overview and actionable analysis.



**All studies and materials are free:**  
[www.energywatchgroup.org](http://www.energywatchgroup.org)

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## **Under the auspices of:**

Ludwig Boelkow Foundation  
Ottobrunn (Munich), Germany  
Executive Director Dr. Walter Kroy

**Objectivity needs independent financing.  
Please support the work of the Energy  
Watch Group now. Contributions are tax  
deductible.**

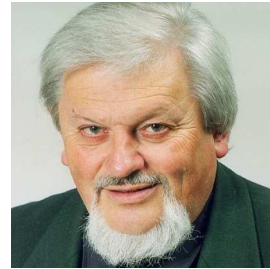
## **Energy Watch Group Bank Contact:**

Account owner: Ludwig Boelkow Foundation  
For: "Energy Watch Group"  
Account: 404 969 39  
German Bank Code: 700 202 70  
Hypovereinsbank Ottobrunn  
IBAN DE39700202700040496939  
SWIFT (BIC) HYVEDEMMXXX

## **Dr. Walter Kroy**

is Executive Director of the Ludwig Boelkow Foundation. He was Director of Research at Messerschmidt-Boelkow-Blohm, a firm that became part of the European Aeronautic Defence and Space Company (EADS).

The Foundation was established in 1983 by Ludwig Boelkow, an aeronautical engineer and entrepreneur who sought to make a contribution toward a sustainable energy supply.



## **Hans-Josef Fell**

has been a Member of the German Bundestag since 1998 and is the author of the Renewable Energy Law of 2000 (EEG, Feed-In-Tariff system). He is the founder of the Energy Watch Group and Chairman of the parliamentary advisory board.



## **Dr. Harry Lehmann**

leads the Energy Watch Group's scientific advisory board. He is a physicist and systems analyst and serves as head of the department of environmental planning and sustainability strategies at the German Federal Environment Agency in Dessau.



## **Thomas Seltmann**

is the Energy Watch Group project manager. He has been involved with sustainable energy issues for twenty years and has acquired experience in the energy and publishing fields as a project manager, speaker, and author (incl. German guidebook "Photovoltaik: Strom ohne Ende").



## June 2006

Hans-Josef Fell, MP, initiates the foundation of the Energy Watch Group, inviting independent scientists to undertake a realistic investigation of the availability of worldwide energy resources. The Ludwig Boelkow Foundation assumes operational responsibility.

## November 2006

A study about uranium is published, the first independent analysis about this raw material.

## April 2007

A study about coal is published that, for the first time in the framework of a comprehensive inventory, indicates a possible future shortage.

## June 2007

An analysis of the effects of the increasing uranium prices on nuclear power costs is published. Contrary to the prevailing opinion, it demonstrates that the raw material price does have an influence on electric power production costs.

## October 2007

In London, the EWG holds its first major press conference. Prominent international media provide coverage about the Crude Oil Study presented at the event on TV, radio, online, and in print. This breakthrough makes EWG a primary source for citable information.

## May 2008

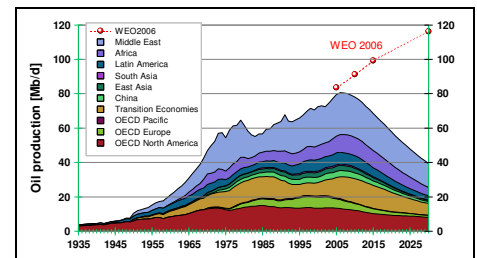
The updated German version of the Crude Oil Study receives extensive press coverage for weeks in almost all of the main media (TV, radio, daily papers, magazines and online). The Energy Watch Group is now also established in the German-speaking countries as a primary source of reliable information.

## November 2008

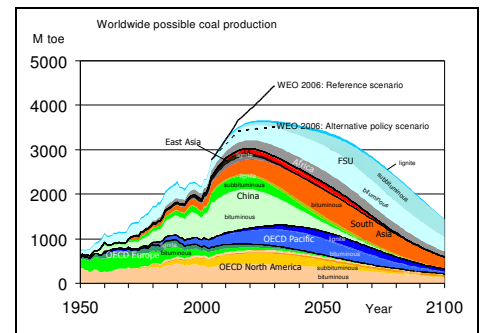
Publication of the first forward-looking scenario about Renewables, Renewable Energy Outlook 2030 (REO 2030). This report demonstrates that accelerated worldwide expansion of renewable energy is possible with relatively small investments and that faster expansion is even more economical in total than a slower course. In the face of the shortage of conventional energy resources, the primary considerations behind the necessity of this acceleration are economic.



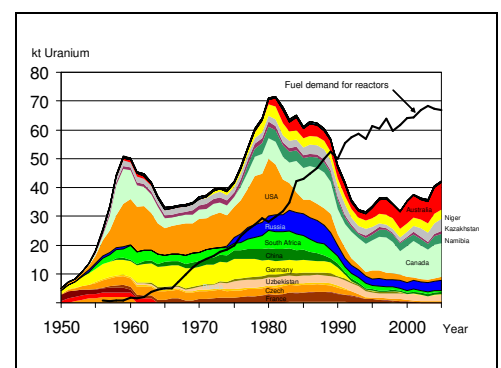
Crude Oil Report: Press conference in Berlin



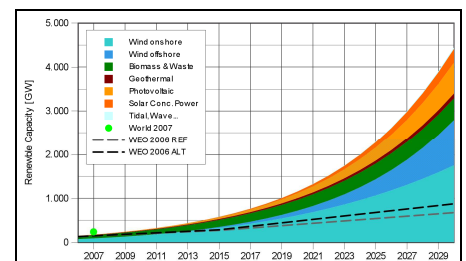
EWG-report: The worldwide crude oil production



EWG report: The worldwide coal production



EWG report: Worldwide uranium production



EWG report REO 2030: A possible worldwide expansion of renewable production of electricity and heat

# Chronicle

## 2008 / 2009 / 2010

Announcements of the Studies are made in numerous articles in the professional and popular media, in public lectures, and in presentations to decision makers from politics and business and industry, as well as in interviews on radio and television.

### January 2009

At a press conference in London, EWG advisory board member Dr. Rudolf Rechsteiner presents his detailed wind energy study: The worldwide development of wind energy expansion has surpassed even the most optimistic forecasts. In only a few years, wind energy could emerge as the primary source of electric power production and, in conjunction with other renewable energy sources, put an end to the generation of electricity with fossil and nuclear energies within a few decades.

### October 2009

Advance presentation of the research results of the Natural Gas Study, to be completed and published in 2010. As they did for the previously published studies on oil, coal, and uranium resources, for the Natural Gas Study, Energy Watch Group scientists are evaluating all the available data that has been compiled in meticulous research over the course of years - from information produced by industry and science to data about individual fields in the large producing areas.

### March 2010

EWG invites Stanford Professor Mark Jacobson to deliver a press conference about meeting the world's energy needs by means of renewable sources alone. In the study, done in collaboration with Professor Mark DeLucchi, the scientists demonstrate the technical feasibility of a changeover within twenty years and calculate costs of 100 trillion US dollars.

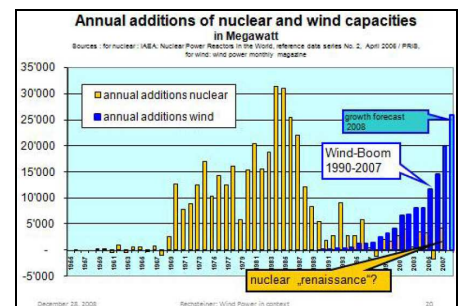
By comparison, according to an analysis published by the EWG on the same subject, the current sources of energy will cost 110 to 155 trillion US dollars in the same period, up to 50% more - and this is without the anticipated price increases.

### May 2010

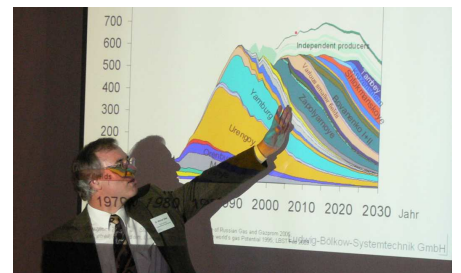
In a joint press conference in Berlin, the EWG and the scientist organization ASPO report on current studies about crude oil production. Dr. Werner Zittel presents a study on the production of unconventional natural gas that analyzes the potential, the costs of the production technology, and the damage to the environment and health of the residents in surrounding areas.



EWG project manager Thomas Seltmann in the interview at the economy news on N24-TV



Wind vigour report of Dr. Rechsteiner



Natural gas: Dr. Werner Zittel, senior Scientist of the LBST and scientist of EWG



Worldwide full supply of renewables: Prof. Mark Jacobson, Thomas Seltmann, MdB Hans-Josef Fell



Common press conference of EWG and ASPO in Berlin about crude oil and natural gas studies

## Selection regarding press conference London, 2007



EWG study author Jörg Schindler (left) and oil expert Mamdouh Salama on Al Jazeera TV at 27. Oktober 2007

### **The Guardian**

„Steep decline in oil production brings risk of war and unrest, says new study“

### **Handelsblatt.Com**

„Entziehungskur“

### **Berliner Zeitung**

„Versiegende Quellen, steigende Preise“

### **International Herald Tribune**

„Oil falls on poor Wall Street earnings“

### **Die Welt**

„Weltweit droht Öl-Engpass“

### **Le Figaro**

„Nouvel élan pour Kashagan / Le groupe scientifique Energy Watch Group a publié un rapport sur le niveau de production mondiale de pétrole, aujourd'hui lors d'une conférence à Londres“

### **tagesschau.de**

„Ölproduktion in Saudi-Arabien / Kostspielige Förderung im ‚leeren Viertel‘“

### **Islamic Republic News Agency IRNA**

„Meltdown in oil production risks war and unrest, study warns“

### **Le Monde**

„Selon une étude d'Energy Watch Group, l'extraction de l'or noir serait sur une pente déclinante / La moitié des réserves pétrolières seraient épuisées“

### **Tages-Anzeiger Zürich**

„Geht uns das Erdöl viel schneller aus als erwartet?“

### **Pakistan Daily Times**

„Global oil supply: 'Dramatic' decline to follow the all-time high“

### **VDI-Nachrichten**

„Keine Spur von einer Renaissance der Kernenergie“



# Media Review

## Selection regarding press conference Berlin, 2008



Amongst others MDRaktuell reported in their main news broadcast.

### **Berliner Zeitung**

„Warnung vor Ende des Ölzeitalters“  
...Unterstützung erhielt die EWG von der Deutschen Bank...

### **Süddeutsche Zeitung**

„Experten unter Ölschock“ + „Rekordjagd bei den Ölpreisen“  
...In einer neuen Studie warnen Experten der unabhängigen Organisation Energy Watch Group davor, dass Erdöl schon in den kommenden Jahren knapp werden könnte...

### **VDI-Nachrichten**

„Patient am Erdöl-Tropf“  
...„Die Positionen der EWG sind sehr unbequem, aber das ist auch gut so“, kommentiert Josef Auer von Deutsche Bank Research...

### **Frankfurter Rundschau**

„Wird das Öl knapp?“  
...Die Botschaft der Energy Watch Group ist eindeutig: „Peak-Oil ist jetzt“...

### **Der Tagesspiegel**

„Bis zum letzten Tropfen“  
...Dagegen schätzt die Energy Watch Group (EWG), eine Gruppe von Experten, die unabhängig von der Ölindustrie arbeitet, in einer neuen Studie, dass es nur 854 Milliarden Barrel sind...

### **Berliner Morgenpost**

„Energienmärkte kennen keine Grenzen mehr“  
...Zuletzt warnten Experten der Energy Watch Group, die weltweite Ölförderung könnte ihr Maximum (Peak Oil) bereits überschritten haben...

### **Die Tageszeitung**

„Von nun an sinkt die Ölförderung“  
...Die Warnungen der Energy Watch Group, eines internationalen Netzwerks zur Beurteilung der Verknappung fossiler Energieressourcen, erhielten am Mittwoch durch den aktuellen Ölpreis noch mehr Brisanz



**BLOOMBERG**



**DW-WORLD.DE**  
DEUTSCHE WELLE



Deutschlandfunk Deutschlandradio Kultur

**DIE WELT**

**Süddeutsche Zeitung**  
Deutschlands große Tageszeitung

**dpa** ● ● ●

**REUTERS**  
Deutschland

**AP** Associated Press