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His Excellency Mr. Patricio Aylwin Azocar  
President  
Republic of Chile

Palacio de Chile

CL Santiago Chile

## World Energy Coalition and Global Energy Charter

Your Excellency, Aylwin Azocar

The **Global Energy Charter (GEC)** was finalized and approved by the **World Energy Coalition** at the **World Clean Energy Conference**, which took place from 4 - 7 November 1991 at the International Conference Center in Geneva. Many commentators called it an historic event. Please find enclosed a copy of the Charter.

Several hundred participants, including State Ministers, representatives of UN Agencies, Academia and the most important international Energy and Environment Organizations from 67 countries approved the Global Energy Charter, which will form a basis for the overdue **actions on sustainable and equitable energy policies**. The enclosed CMDC Newsletter tells you more about the events in Geneva.

Subcommittees and National Chapters of the **World Energy Coalition** under the Chairmanship of Dr. Hari Sharan will deal with further elaboration, dissemination and implementation of the eight points of the Charter. Participants of these committees come from the **government and the private sector** including experts on conventional and new energy, environment, external costing, fiscal, financial, industrial and educational issues. Recommendations of the subcommittees, formulated at Geneva, will be mailed to interested parties as soon as they have been edited.

You may participate yourself or nominate delegates to Coalition meetings or Subcommittees at national and/or international levels for the specialized subjects of the Global Energy Charter. To indicate your area of interest, just return the enclosed application form to our Central Secretariat. We will then send you an invitation to the next meetings of particular interest to you and details about the formation of local chapters.

You are also welcome to become a Member of CMDC. For those who are not yet Members, please find enclosed the application form.

If neither you nor colleagues of yours are interested in CMDC and Energy Coalition activities, please return the enclosed reply card for deleting your name from our mailing list.  
Thank you for your cooperation.

We look forward to hearing from you soon !

Very truly yours

Enclosures

Gustav R. Grob  
President  
CMDC

Dr. Hari Sharan  
Chairman  
World Energy Coalition



## GLOBAL ENERGY CHARTER SHOWS THE WAY TO A SUSTAINABLE WORLD ENERGY POLICY

Report from Geneva

Some participants and commentators called it a historic event - the **World Clean Energy Conference** - which gave birth to the **Global Energy Charter**. This CMDC-conference - the third in a row and the largest ever - was held from 4 - 7 November 1991 at the International Conference Center in Geneva, the cradle of the League of Nations, which was to become the United Nations. Across the road from where the World Clean Energy Conference was held is the "Palais des Nations" surrounded by over one hundred UN Specialized Agencies and International Non-Governmental Organizations ranging from the International Standards Institute ISO and the International Electrotechnical Commission IEC to the World Meteorological Organization WMO, the Red Cross, founded by Henri Dunant, the International Commission of Jurists, the World Council of Churches and the down-to-earth International Road Union IRU. In this inspiring international atmosphere ten-thousands of personalities and experts from every corner of this planet work on subjects covering technology, trade, weather, energy, health, labour, intellectual property, traffic, communications, disaster prevention, ethnical and refugee policy issues, giving Geneva the surname "Secret Capital of the World".

It was thus appropriate that the Global Energy Charter for sustainable and equitable energy policy should be finalized in Geneva. On 3 November 1991 the World Energy Coalition Committee met to discuss the first draft of the **Global Energy Charter**, which was created during the UNCED-PrepCom meetings in August 1991 at the United Nations, and to establish the mechanism for its further elaboration, dissemination and implementation. Eight subcommittees and a drafting committee were formed to work on the eight key issues and the objectives of the Charter. They worked intensively and presented the final document to the Plenary Assembly of the Energy Coalition on 6 November. The approved Charter was presented to the WCEC on the final day and accepted by the assembly.

Sixteen Ministers, fifty other high-level Government and UN-representatives, and nearly 400 scientists, engineers, environment lawyers and economists attended the WCEC. The Global Energy Charter was agreed by delegates coming from 67 nations from six continents including two lecturers from the fifth continent Australia and the Minister of Housing and Technical Affairs from the sixth continent (with nearly of the size of Europe) who gave a widely acclaimed speech on its vast hydropower resources - the longest proven and most economical of all clean energies.

Media comments ran from front page articles in China Daily to the Handelsblatt of Germany, from specialized technical reviews to provincial papers in Switzerland, from Russian TV to radio broadcasts in France, Germany and in the Italian language. A truly exciting event, where a dinner address by ex-Congressman and environmental pioneer, Law Professor Richard Ottinger from New York State was followed by a wise speech from USSR Vice-Minister of Aviation, Professor Anatol Bratuchin on the need for clean hydrogen airplanes. Energy Minister H.E. H.K.Kajura made a powerful appeal for the preservation of the biobalance and biodiversity in Africa and finally CMDC President Gustav R. Grob spoke on advancing global consensus on these crucial issues.

It was heartening that **consensus** was found on the controversial, extremely political and most complex cross-sectorial issue **ENERGY** ..... on which our future Health, Biosphere and Earth Climate depend. There can be little further doubt about this after the presentations of IPCC Chairman Professor Bert Bolin and Enquete Commission Member Professor Wilfried Bach and the warning voices of Professor G.O.P. Obasi, Secretary General of the World Meteorological Organization, and Professor Klaus Töpfer, Environment Minister of Germany.

The full proceedings of the Conference with the Global Energy Charter (620 pages A4 in glossy cover) and the Organizational Structure of the World Energy Coalition are available together with detailed conclusions of the WCEC from the CMDC Central Secretariat (use the order form).

## The World Energy Coalition

The World Energy Coalition was founded in August 1991 at the third Preparatory Conference of **UNCED** (the United Nation Conference on Environment and Development - often called the Earth Summit - the largest gathering of governments ever, scheduled to take place in Rio in June 1991). It is very much in line with the objectives and mandate of CMDC in trying to find **true consensus** and equitable solutions embracing the diverse interests of various countries, ministries, university faculties, UN agencies, competing industrial groups, trade associations and the common citizens.

Energy is **the most cross-sectorial** issue touching on virtually every single human activity directly by physical, biological or chemical activation, illumination or communication, or indirectly by its primary or secondary emissions, noise, pollution, warming, induction or radiation effects on health, biosphere and weather.

Energy is also **politically the most controversial** and **economically the most important** subject, causing wars, empowering the largest corporations of the world and alimending the most unscrupulous lobbies.

But, however, energy is the **backbone of economic and social development**. It gives billions of people the hope for food, health, warming and cooling comfort, employment, easy mobility and daily information.

To bring all these various interests, fears and hopes together and provide a **platform** for balancing diverse opinions and thrusts, the World Energy Coalition was formed in the spirit of the growing **consensus on survival issues and equitable solutions**.

It was most inspiring to see technical and scientific specialists covering the entire spectrum of views working together in the Subcommittees of the Energy Coalition, with Ministers, Parliamentarians, Civil Servants, UN-Experts, Deans, Lawyers, Economists and Environmentalists teaming up to look for solutions of the controversial energy issue in a really cooperative spirit.

Opinion leaders as opposed as Greenpeace and the "heavy weight" Industrial Energy Users Association, as apart as the richest and the poorest peoples, the hottest desert nations and the coolest regions on the globe, as diametrically positioned as coal mines and solar energy - all were wrestling to formulate a comprehensive **Energy Charter**, which at the end of the conference nobody opposed - a marvellous succes for the Chairman of the World Energy Coalition and Executive Board Member of CMDC, Dr. Hari Sharan - himself representing the wide spectrum from his small Indian village to the largest power equipment makers, growing up with Eastern cultural values and living in materialistic, high-tech Switzerland - and commuting between North and South, East and West regularly to make energy cleaner, more efficient and ultimately sustainable and available to everyone on this planet as a basic human right. Cheers to Dr. Sharan and his devoted energy coalition committee leaders from all over the world.

Write to us, join CMDC, participate in meetings of the World Energy Coalition, form local Chapters and get involved in the challenging process of finding consensus on survival issues, vital to the future of our planet. Ask for more information from



# WORLD ENERGY COALITION

Chairman's Office: Birchstrasse 6, CH-8472 Seuzach  
Tel. +41-52-533500 - Fax 531442 - Tlx 896196 se ch



Central Secretariat: CMDC, Kellerweg 38, CH-8055 Zurich  
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## GLOBAL ENERGY CHARTER

The World Energy Coalition,

*Considering* the Crucial role which energy plays in world-wide economic and social development;

*Taking* into account the necessity to increase energy services particularly in developing countries;

*Wishing* to mitigate and prevent adverse local and global impacts of energy generation, transmission and use on human health and the environment, including all living species;

*Noting* especially the climate implications of increased atmospheric concentrations of greenhouse gases - as established by UNEP, WMO / IPCC and WHO;

*Noting* further the thrust of the INC's deliberations (A/AC.237/Misc 12);

*Proposes* that the Global Energy Charter be adopted at the United Nations Conference on Environment and Development (UNCED) in conjunction with the Earth Charter and Agenda 21;

*Proposes* further that international negotiations begin with an International Climate and Energy Convention.

The Global Energy Charter has four main objectives:

- a. to act as a framework for a world energy strategy aimed at concerted international, regional and national programs for harmonious and sustainable economic and social development to ensure the survival of living species;
- b. to urge governments to give rational use of energy, energy efficiency and renewable, clean, safe and sustainable energy technologies the highest priority in national, regional and international development and implementation programs on a scale comparable to the former US Man-to-the Moon program;
- c. to promote a plan of action to ensure that the services which energy can supply are adequately available to all human beings to satisfy their development needs;
- d. to propose the establishment of an international energy organisation dedicated to the achievement of the Charter's objectives, through amongst other measures, research, development and commercialisation of relevant technologies, information exchange, training, consultancy, program monitoring and mobilisation of adequate financial resources.

The Global Energy Charter for sustainable energy policies includes the following main points:

- 1 - The setting up of targets for energy related emission limits and performance standards for energy products and systems
- 2 - The establishment of guidelines and internationally standardised methodologies of calculation for determining external effects and lifecycle costs for all Energy systems, taking into account environmental, health and other damages caused by energy related activities.
- 3 - The establishment of global, regional, national and local strategies and plans for energy efficiency improvements, safety controls, waste management and emissions reductions in the production, storage, transportation and use of all types of energy
- 4 - The establishment of global, regional, national and local programmes for the substitution of polluting and exhaustible energy sources by environmentally less harmful, sustainable energy technologies
- 5 - Based on guidelines under point 2, the introduction of a system of full cost pricing coupled with a system for compensation of external damages from all energy related activities, not forgetting waste disposal and decommissioning, to reflect the total social and environmental cost
- 6 - The creation of dedicated energy funds, one to be called the Climate and Energy Fund, allocated from external cost levies and other sources, for the financing of energy efficiency improvements and best available environmentally sound energy technologies, with special arrangements for countries which would not otherwise be able to introduce such measures
- 7 - The promotion and monitoring of strategies and implementation programs under the Global Energy Charter and the development of new financial instruments and investment mechanisms, involving both the public and private sector in synergy with each other
- 8 - The promotion of exchange of technology, know-how, education, training programs, information, statistics and data on best available environmentally sound energy technologies, environment-conscious human behaviour, energy efficiency and energy saving, performance standards, safety codes as well as relative and absolute energy cost

These points will be further elaborated in an appendix.

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## Organisation and Working Procedures for the Global Energy Charter:

### Background and Purpose

The present exploitative, non-renewable energy systems need drastic change in order to counter the threat to Earth climate, Biosphere and the health of its inhabitants as well as to accelerate the development of the Poor World. Rapid improvements in efficiency and safety are needed side by side with their substitution by **sustainable, environmentally compatible energy systems**.

The **Global Energy Charter** was conceived by the **World Energy Coalition** in order to focus on internationally harmonised remedial action in cooperation between official agencies, the private and public sectors and committed individuals.

### Organisation

The **World Energy Coalition** was founded under the auspices of CMDC to allow all interested parties such as Legislators, Government Agencies, Regional Political and Economic Groupings, Academia, interest groups such as Companies, Professional and Trade Associations, and Concerned Private Citizens to participate in the truly global effort of saving the planet earth from irreparable decay. The Global Energy Charter was formulated at meetings and consultations covering a wide range of interest groups and nationalities.

The Charter, which has of necessity to be brief, highlights four major Objectives and lists eight points for future action. Using the model of working, updating and voting procedures of **ISO/IEC**, as well as their standards, as far as technical aspects are concerned, eight international Subcommittees (SC) and a drafting committee on the objectives were formed, consisting of volunteers representing themselves or their organisations, with a Chairperson and a Secretary. The SCs on the eight points

- (1) Targets for Emission Limits and Energy Performance Standards
- (2) Guidelines and Methodologies for Total Energy Costing
- (3) Energy Efficiency
- (4) Substitution and Renewable Energy Technologies
- (5) Full Cost Pricing and Levies
- (6) Dedicated Energy Fund and Financial Instruments
- (7) Programme Implementation and Monitoring
- (8) Cooperation and Exchange of Technology

prepared draft recommendations, which will be circulated to all Coalition Membres as soon as they have been edited. The Charter itself was unanimously approved by the Plenary Assembly of the Coalition on 6 November 1991 and by the Plenary Assembly of WCEC on 7 November 1991. A Central Secretariat of the World Energy Coalition was set up with CMDC. Further meetings will be called by the Chairpersons of The World Energy Coalition and it's SCs as and when required.

The results and recommendations of the World Energy Coalition shall be disseminated to relevant UN Agencies, Governments, Non-Governmental Organisations and interested individuals for action. It is intended to form national chapters of the Coalition so that implementation of agreed programmes can be individually and collectively monitored and fed back to national and global audience: government and international agencies, politicians, industrial organisations, Academia, concerned individuals and the silent masses through the media. These activities will continue after the Earth Summit.



## CONCLUSIONS OF THE WORLD CLEAN ENERGY CONFERENCE, GENEVA, 4 - 7 NOVEMBER 1991

At the World Clean Energy Conference, held in Geneva from November 4 to 7, His Excellency, Professor Klaus Töpfer, Minister of Environment, Germany, and His Excellency Chaudhry Nisar Ali Khan, Minister for Petroleum and Natural Resources, Government of Pakistan, both agreed that the major responsibility for climate change lay with industrialised countries. Scientific evidence for the unprecedented speed of global warming was confirmed, according to latest reports, by the Chairman of IPCC (Intergovernmental Panel on Climate Change), Professor Bert Bolin. Professor Wilfried Bach warned on behalf of the Enquete Commission of the German Parliament that corrective measures must be taken more urgently than most nations are willing to recognize.

Introductory remarks by the Secretary General of the World Meteorological Organization (WMO), Professor G.O.P. Obasi, confirmed the importance and urgency of taking action towards the production of carbon-free energies. Gustav R. Grob, President of the Cercle Mondial du Consensus CMDC, Derek Davies, Director General of the World Energy Council and MP Dr. Hermann Scheer, President of EUROSOLAR reviewed realistic implementation measures for effective reductions of greenhouse gases. Expert presentations about available solutions of improved and new energy technologies were made at the subsequent sessions, followed by discussions.

The Conference concluded that technical and scientific know-how clearly exists for cleaning up the energy systems of the world and for replacing them with cleaner, safer and environmentally sustainable technologies. Moreover, this is compatible with bringing better energy services within the reach of the majority of the world's population. However, what has been lacking until now has been a commitment by industrialised countries to cut down wasteful consumption, limit emissions from existing energy sources, set performance standards based on such agreed limits and to introduce clean energy technologies without further delay.

Participating Ministers and experts widely representing public and private sectors, welcomed the **GLOBAL ENERGY CHARTER**, initiated by the World Energy Coalition under the auspices of CMDC (Cercle Mondial du Consensus / World Circle of the Consensus), and His Excellency Nisar Ali Khan expressed the hope of all the members of the World Energy Coalition when he said that

"If (the Charter is) adopted at UNCED,  
it will bring within reach the aim of sustainable development."

It was the enthusiasm and commitment of the members of the World Energy Coalition under the Chairmanship of Dr. Hari Sharan, which ensured that the Global Energy Charter became the comprehensive document it turned out to be. Its four objectives and the eight principles on which they are based were elaborated by subcommittees of the World Energy Coalition during the Conference and were unanimously approved at the Plenary Session of the World Clean Energy Conference on the final day.

The Conference further came to the conclusion that when the **total life cycle** and **external costs** of energy generation, distribution and use are taken into account, clean, environmentally sustainable and safe energy systems are economically competitive. It also noted that a commitment by governments to cost energy systems, based on this principle and on agreed emission limits could be negotiated through an international Climate and Energy Convention. A **Climate and Energy Energy Fund** financed from levies on wasteful and high consumption of energy and on emissions above agreed limits would facilitate investments in such systems world-wide. Funds should be allocated on an equitable basis, especially to those who are unable to finance them from their own resources.

Sixteen Ministers, fifty other high-level Government and UN-representatives, and nearly 400 scientists and engineers from sixty-seven countries endorsed these findings. WMO Secretary General, Prof. G.O.P. Obasi, Their Excellencies Professor K. Töpfer, Nisar Ali Khan, Kuupik Kleist, H.K. Kajura and many other eminent personalities from five continents agreed that the way forward globally was for the world to adopt equitable solutions to these problems in the interest of future generations, and thus ensure that this planet can continue to sustain life.

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## Application Form for Participation in the World Energy Coalition

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Please enrol me in following Subcommittee (-s) for the further elaboration of the Global Energy Charter:

- SC1 - Targets for Emission Limits and Energy Performance Standards
- SC2 - Guidelines and Methodologies for Total Energy Costing
- SC3 - Energy Efficiency
- SC4 - Substitution and Renewable Energy Technologies
- SC5 - Full Cost Pricing and Levies
- SC6 - Dedicated Energy Funds and Financial Instruments
- SC7 - Programme Implementation and Monitoring
- SC8 - Cooperation and Exchange of Technology

I am interested in participation in:

- National Energy Coalition Group and SC Meetings
- International Meetings

I am interested in joining CMDC as an

- Individual member
- Corporate or government member

### Address Data

Family Name: \_\_\_\_\_

First Name: \_\_\_\_\_ Middle Initial: \_\_\_\_\_

Function/Title: \_\_\_\_\_ Profession: \_\_\_\_\_

Nationality: \_\_\_\_\_ Sex: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

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Telephone: \_\_\_\_\_ Telefax: \_\_\_\_\_

Remarks:

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

Thank you for returning this form to above address. We will pass your request to the Chairman of the World Energy Coalition and to the appropriate National Committees, who will contact you.

GEC-applic



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Petition for elaboration, dissemination and implementation of

## The Global Energy Charter

\*\*\*\*\*

We the undersigned support the World Energy Coalition in their efforts to promote the Global Energy Charter and we urge the United Nations to ratify the Charter. We urge all governments to support the Global Energy Charter in the interest of a sustainable and equitable clean energy policy for all.

Name                      Organization:                      Address:                      Nation:                      Signature:

Please return to:

World Energy Coalition, c/o CMDC Central Secretariat, Kellerweg 38, CH-8055 Zurich, Fax +41-1-463 02 52



**Application for Membership**

We thank you for your interest in CMDC. The following list contains the categories from which you can chose your membership.

Desired Membership category: (please tick one):

- |                          |                                      |           |          |
|--------------------------|--------------------------------------|-----------|----------|
| <input type="checkbox"/> | Companion                            | SFr.      | 200.--   |
| <input type="checkbox"/> | Junior Associate                     | SFr.      | 100.--   |
| <input type="checkbox"/> | Passive Member                       | SFr.      | 80.--    |
| <input type="checkbox"/> | Student / Pensioner / reduced income | SFr.      | 40.--    |
| <input type="checkbox"/> | Company or Community sponsorship     | min. SFr. | 500.--   |
| <input type="checkbox"/> | Life Membership                      | min. SFr. | 2'000.-- |
| <input type="checkbox"/> | Additional donation                  | SFr.      | .....    |

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I am interested in the following activities: local or central involvement / new local Chapter / editorial contributions / current project work / new project proposals

Remarks:

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

Thank you for your prompt reply !

• **WORLD CIRCLE OF THE CONSENSUS** •  
• **CERCLE MONDIAL DU CONSENSUS** • **WELTKREIS DES KONSENS** •

- **Founded 1983** in Geneva, Switzerland as an International Non-Governmental, Not-for-Profit Organization. FIIG member.
- **Objectives:** Development and promotion of ecologically acceptable, sustainable clean energy concepts by means of:
  - organizing the **World Clean Energy Conference (WCEC)**
  - initiating and monitoring of bodies serving the purpose of clean energy and sustainable development, such as the **World Energy Coalition** for the creation of the **Global Energy Charter**, the International Clean Energy Consortium **ICEC** and **ISO/TC197** (Hydrogen Energy Technologies)
  - implementing CMDC/ICEC projects in the framework of **SHEE-TREE** (Safe Hydrogen & Electric Energy Trans European Enterprise) and the **Asian-Pacific Clean Energy Development Plan:**
    - Solar and hydrogen pilot plants in Africa, Asia and Australia
    - Deepwell Hot-Dry-Rock Geothermal Projects
    - Hydropower Developments
    - Sahara Clean Energy Consortium
- **Central Secretariat** since 1987 in Zurich, Switzerland
- Individual, institutional, public and corporate members, companions, fellows and associates from **industrialized and developing nations**.
- **Financed by** Membership fees, donations, symposia, publications, studies, institutional and governmental contributions.
- **Liaisons** with relevant UN Agencies, NGO's and other multilateral organizations, such as UNCED, UNEP, UNESCO, ECOSOC, UNU, CSTD, ISO, IEC, WEC, UNIPEDE, CIGRE, IAHE, OECD/IEA, ICC/IEB and with Government Bodies, such as "ENERGY 2000", DOE, EPA etc.

Newsletters, studies and public appeals are issued in several languages.

Further enquiries can be addressed to the Central Secretariat:

**CMDC, Kellerweg 38, CH-8055 Zurich, Switzerland**

Phone ..41-1-463 02 26      Fax ..41-1-463 02 52



# Publications Order Form

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# Order Form for the Proceedings, Video and Audio Tapes of the World Clean Energy Conference (WCEC) 4 - 7 November 1991, Geneva

## Cleaner Energy for Sustainable Development

A review of the causes of climate change with the latest scientific evidence and the many solutions for remedial action by means of economically and technically feasible cleaner energy systems presented by some of the world's leading experts. Presentation of the Global Energy Charter.

610 pages A4 - English with 281 exhibits

Contents: see enclosed table of contents

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With the Proceedings we will send you a free copy of the finalized **Global Energy Charter**, the **Organizational Structure** of the **World Energy Coalition** and the **Conclusions of WCEC**.

**Delivery is made immediately after receipt of payment.**

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## CMDC-Information and Newsletters

We have more than 10'000 addresses in our database at the moment. Our quarterly mailings to all these addresses all over the world costs a lot of money and time. Unfortunately we are not able to send our information free of charge any more. To be able to update our database we kindly ask you to complete and return this form to us. Comments are welcome.

- I am interested in the CMDC work and I would like to receive the CMDC Information and Newsletter. I therefore want to become a CMDC Member and would like to receive your statutes, annual report etc.
- I would like to receive the CMDC-Information and Newsletter and pay the expences of SFr. 30.-- yearly.
- I'm not interested in the CMDC Information and Newsletter.

Name:..... Surname: .....

Titel: .....

Organization: .....

Street: .....

P.O. Box: .....

Code: ..... Place: ..... Country: .....

Telephone: ..... Telefax: .....

Please send this card by 15 February 1992 to: **CMDC, Central Secretariat, Kellerweg 38, POB 928, CH-8055 Zürich.**



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