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LIMITED
E/CEPAL/Conf.73/R.1

29 March 1981

ENGLISH

C.1

ORIGINAL: SPANISH

CEPAL
Economic Commission for Latin America

Regional Preparatory Meeting for the United
Nations Conference on New and Renewable
Sources of Energy
Technical Level

Mexico City, 16-18 March 1981

DRAFT REPORT

I. ORGANIZATIONAL MATTERS

1. Place and date

1. The Regional Preparatory Meeting for the United Nations Conference on New and Renewable Sources of Energy, convoked by the Executive Secretary of CEPAL and co-sponsored by OLADE, was held in Mexico City, 16-20 March 1981. The meeting was divided into two stages, one at the technical and the other at the ministerial level; the first stage, which this report covers, was held 16-18 March.

2. Attendance

2. Representatives of the following member states of the Commission participated in the Meeting at the technical level: Argentina, Bolivia, Brazil, Canada, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, France, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Netherlands, Nicaragua, Panama, Peru, Spain, Suriname, Trinidad and Tobago, United Kingdom, United States, Uruguay and Venezuela.

3. Also represented at the Meeting as observers were the following agencies of the United Nations system: United Nations Conference on New and Renewable Sources of Energy, United Nations Centre for Human Settlements (HABITAT), United Nations Conference on Trade and Development (UNCTAD), United Nations Industrial Development Organization (UNIDO), United Nations Development Programme (UNDP), United Nations Environment Programme (UNEP), International Labour Organization (ILO), United Nations Educational, Scientific and Cultural Organization (UNESCO), and the World Bank.

4. Other organizations represented as observers at the Meeting were as follows: International Energy Agency (IEA), Inter-American Development Bank (IDB), Centre for Latin American Monetary Studies (CEMLA), European Communities Commission (ECC), Caribbean Community (CARICOM), Group of Latin American and Caribbean Sugar-Exporting Countries (CEPLACEA), Board of the Cartagena Agreement (JUNAC), the Central American Bank for Economic Integration (CABEI),

Permanent Secretariat of the General Treaty on Central American Economic Integration (SIECA), Latin American Economic System (SELA) and the Action Committee on Social Interest Housing and Buildings (CAVEIS).

5. Also attending the Meeting as observers were representatives of the following non governmental organizations: Centro Mesoamericano de Estudios sobre Tecnología Apropriada (CEMAT), Centre for Economic and Social Studies of the Third World (CEESTEM), World Energy Conference (WEC).

6. A complete list of participants in the Meeting is included in Annex 1 of this report.

3. Election of Officers

7. The following officers were elected at the opening meeting:
Chairman: Jorge Eduardo Navarrete (Mexico)
First Vice-Chairman: Sebastiao Do Rego Barros (Brazil)
Second Vice-Chairman: Luis Enrique Ortíz Pérez (Costa Rica)
Third Vice-Chairman: Bernard A. Crawford (Guyana)
Rapporteur: Alfredo Behrens (Uruguay)

4. Agenda

8. The Meeting considered and adopted the following agenda:

1. Election of officers
2. Adoption of the provisional agenda
3. Report by the Executive Secretariat on the preparatory work for the United Nations Conference on New and Renewable Sources of Energy.
4. Plan of Action on new and renewable sources of energy and their contribution to the global plan of action of the United Nations Conference on New and Renewable Sources of Energy.

5. Preparation of the Provisional Agenda of the Regional Preparatory Meeting - Ministerial Level.

6. Consideration and adoption of Final Report.

9. For their deliberations the participants had at their disposal the working document entitled "Regional Plan of Action on New and Renewable Sources of Energy" (E/CEPAL/Conf.73/1.2). They also had available 14 information documents on the present state and potential of various new and renewable sources of energy, which were prepared by consultants of CEPAL and by OLADE. A list of these documents will be found in Annex 2 of this report.

V. Opening Session

10. At the opening session, which was held on the morning of 16 March, the following persons spoke on the significance of the Meeting: Mr. Fernando Arlart, Mexican Under-Secretary of Mines and Energy; Mr. Gert Rosenthal, Director of the CEPAL Mexico Office, Mr. Francisco Montenegro, Technical Director of OLADE; and Mr. Louis Wiltshire, Executive Secretary of the United Nations Conference on New and Renewable Sources of Energy.

11. On behalf of the Government of Mexico, the Under-Secretary of Mines and Energy opened the session at the technical level. He declared that the Meeting represented a new stage in the efforts being carried out to strengthen co-operation in the energy field. He pointed out that in this process the changes that have been occurring in world energy production should be borne in mind. Lastly, he stressed the need to adopt planning systems and to develop co-operation mechanisms that would facilitate the transition between two eras in the use of energy: the present, with intensive use of hydrocarbons, and the future, in which alternative sources would have to be utilized.

12. The Director of the CEPAL Mexico Office welcomed the participants on behalf of the Executive Secretary of the Commission. He noted that the Meeting marked the first step in reordering energy sources and bore implications of great significance for the economic and social development of the countries of the region. He mentioned that the major topics dealt with in the preparatory work for the Meeting were hydroelectricity, solar energy, the uses of biomass, the energy potential of sugar cane, and the use of firewood and charcoal, whose attendant risks of deforestation were well known.

13. He noted that one of the most important aims pursued by the Meeting was the formulation of a Latin American programme for energy co-operation. Lastly, he mentioned that the results of the present Meeting would be submitted to the Nineteenth Session of CEPAL, to be held in Montevideo next May, during which a regional plan of action would be prepared to achieve the goals set by International Strategy for Development in the Decade of the 1980s.

14. The Technical Director of OLADE pointed out that the meeting was a demonstration of Latin America's ability to undertake actions that responded to changes in the world economy and its common problems, such as energy.

15. He noted that OLADE had assumed the role of the main instrument of co-operation and co-ordination in the field of energy, and acknowledged that the energy problem of Latin America consisted not only of the lack of resources but also of the type of energy that is used and the way in which it is used. He also stated that in its desire to reduce energy consumption, OLADE had directed its efforts towards the use of non-renewable sources of energy based on the development of methodology for massive utilization of non-conventional energy sources, and emphasized that the Regional Plan of Action had already achieved definite progress in some of these areas. Finally, he stated that the World Conference could constitute a vital element in establishing the New International Economic Order.

16. The Executive Secretary of the United Nations Conference on New and Renewable Sources of Energy stressed the importance of regional meetings as part of the worldwide co-operation that should be achieved in the field of energy. He also remarked on the importance of the meeting for identifying the Latin American position and for setting priorities in this field. Finally he acknowledged that the meeting was expected to make a valuable Latin American contribution to the United Nations Conference on New and Renewable Sources of Energy, as already shown in the draft plan of action submitted to the meeting by the secretariat of CEPAL.

17. At the first working session, the secretariat of CEPAL presented a brief report on preparatory efforts at the world level and on those that had been made in the region with a view to the forthcoming United Nations Conference on New and Renewable Sources of Energy. This included a description of the work done at technical meetings, the preparation of specialized regional documents, working meetings held by national groups in charge of preparation for the Conference, and technical assistance activities. The principal results of regional efforts, together with a number of recommendations emanating from regional meetings of experts were presented, and the document Regional Plan of Action on New and Renewable Sources of Energy was submitted to the consideration of the delegations. The main points covered by the different sections of the document were pointed out, together with their specific aspects. The delegations present were thus given ample opportunity to make both a general and a detailed examination of the Draft Plan of Action presented by the Secretariat.

18. During the above-mentioned plenary meetings, suggested amendments relating to general and specific aspects of the draft plan of action were discussed, and amendments to various paragraphs of the document were subsequently presented in writing by the delegations.

19. Two drafting committees at the Latin American level met to discuss the amendments presented and to begin the final draft.

20. The meetings of the Latin American Drafting Committee that drafted Chapters I and II of the Regional Plan of Action on New and Renewable Sources of Energy (E/CEPAL/Conf.73/L.2), were presided over by the Chairman of the Meeting.

21. Meetings of the Latin American drafting group formed to study Chapters III and IV of the document were chaired successively by the Vice-Chairmen.

22. Both groups met for two days, 17 and 18 March, to make a detailed study of the document and to draft a revised version for submission to the consideration of the Ministers.

LISTA DE PARTICIPANTES

Anexo I

COMISION ECONOMICA PARA AMERICA LATINA

REUNION REGIONAL PREPARATORIA SOBRE FUENTES
DE ENERGIA NUEVAS Y RENOVABLES

Ciudad de México, México, 16 al 20 de marzo de 1981

LISTA DE PARTICIPANTES

A. Estados miembros de la Comisión

ARGENTINA

Representante: Carlos E. Gómez Centurión, Embajador en México

Representante alterno: Mario Quadri Castillo, Subdirector
General de Ciencia y Tecnología

Miembros de la
delegación: Miguel Santiago Ussher, Raúl Humar, Alberto Héctor
Linãow, Héctor Rogelio Torres

BOLIVIA

Representante: Lessin Méndez Maldonado, Ministro Consejero,
Embajador en México

Miembro de la
delegación: Jorge Randelley

BRASIL

Representante: Sebastião De Rego Barros, Ministro Consejero,
Asesor Especial del Secretario General de
Relaciones Exteriores

Representante alterno: Carlos Campos, Asesor del Ministro de
Minas y Energía

Miembros de la
delegación: Clovis Walter Rodríguez, Sergio Ennes, Thais Rego

CANADA

Representante: J. Rusell McKinney, Asesor del Subsecretario de Estado para Asuntos Externos

Miembro de la delegación: John Thomas Brett

COLOMBIA

Representante: Mario Ortiz Ayala, Ministro Consejero, Embajada en México

Miembros de la delegación: Cecilia Aristizábal Gómez, Eutimio Becerra Reyes

COSTA RICA

Representante: Fernando Altmann, Ministro de Energía y Minas

Representante alternativo: Roberto Dobles, Gerente Exploración Petrolera, RECOPE

Miembros de la delegación: Luis Enrique Ortiz Pérez, César Augusto Díaz

CUBA

Representante: Héctor Rodríguez Llompart, Ministro-Presidente del Comité Estatal de Colaboración Económica

Representante alternativo: Eugenio Latour Mancilla, Director de Organismos Económicos Internacionales

Miembros de la delegación: Fernando Suárez-Murias, Omar García R., Rosa González Hernández

CHILE

Representante: Bruno Philippi, Secretario Ejecutivo, Comité Nacional de Energía

Miembro de la delegación: Patricio de Solminihac T.

ECUADOR

Representante: Fausto Guerrero, Subsecretario Técnico de Recursos Naturales

Miembros de la delegación: Ramiro Gordillo García, Franklin Chávez

EL SALVADOR

Representante: Guillermo Díaz Salazar, Ministro de Economía

Miembros de la delegación: Eric Casamiquela

ESPAÑA

Representante: Ignacio Bayón, Ministro de Industria y Energía

Representante alternativo: Enrique de Aldama, Subsecretario de Industria y Energía

Miembros de la delegación: Adriano García-Loygorri, Julián Ignacio Palacios, José Ignacio de las Llanderas, Ricardo Eguilve, Manuel Villavieja, Juan Antonio Ferrando

ESTADOS UNIDOS

Representante: James Stromayer, Coordinador para la Conferencia sobre Fuentes de Energía Nuevas y Renovables, Departamento de Estado

Miembros de la delegación: Robert H. Wilcox, John K. Atchley

FRANCIA

Representante: Henry Durand, Presidente del Comisariado de Energía Solar

GUATEMALA

Representante: José Antonio González C., Director General de Energía Nuclear

GUAYANA

Representante: Hubert Jack, Ministro de Energía y Minas

Miembros de la delegación: Bernard A. Crawford, Colin C.R. Heywood

HAITI

Representante: Jean R. Simon, Encargado de Negocios, Embajada en México

HONDURAS

Representante: Efraín Reonco Murillo, Ministro-Secretario Ejecutivo del Consejo Superior de Planificación Económica

Miembro de la delegación: Rafael Ochoa

JAMAICA

Representante: Basil A. Buck, Ministro de Estado, Ministerio de Minas y Energía

Miembros de la delegación: Henry Lowe, Louis Boothe

MEXICO

Representante: José Andrés Oteyza, Secretario de Patrimonio y Fomento Industrial

Delegados: Jorge Eduardo Navarrete, Fernando Hiriart Balderrama
Aarón Lajous Vargas, Carmen Moreno de Del Cueto

Delegados alternos: Ramón González Jameson, Jaime Corredor,
Javier Matus Pacheco, Salvador Arriola Barrenechea,
Roberto Dávila Gómez Palacio

Asesores: Carlos M. Piñero R., José Murat, Mauricio Valdés
Rodríguez, Gonzalo Sedas Rodríguez, Alfredo Ramírez
Araña, Juan Eibenshutz, Gustavo Mohar Betancourt,
Miguel Angel Toro, Roberta Lajous de Solana,
Luiss María Leal, Gil Gil Masa, Eduardo Morales,
Manuel Rodríguez Arriaga, Antonio Alonso, Manuel
Martínez, Sergio Mercado, Samuel Berkstein, Miguel
Boiz Cabañas Izquierdo, Sergio Rivas

NICARAGUA

Representante: Heberto Incer M., Viceministro-Director del Instituto Nicaragüense de Energía

Miembro de la delegación: Fernando J. Cuevas

PAISES BAJOS

Representante: Carmilio H. Statia, Ministro de Fomento

Miembros de la delegación: Henricus Gajentaan, Johan Rosheuvel F., Juan
Rafael Croes, H. Geerdink

PANAMA

Representante: Ramón O. Argote Ramos, Secretario Comisión Nacional de Energía

PERU

Representante: Luis del Castillo Rodríguez, Director General de Hidrocarburos

Miembros de la delegación: Jorge Pablo Fernandini, Máximo Núñez A.,
Luis Benjamín Chimoy

REINO UNIDO

Representante: Norman Cox, Embajador en México

Miembros de la delegación: Graham Minter, Ralph Murphy

REPUBLICA DOMINICANA

Representante: José Ramón Acosta, Secretario Ejecutivo, Comisión Nacional de Política Energética

Miembro de la delegación: Violeta Morrobel Vargas

SURINAME

Representante: Herman S. Adhin, Ministro de Desarrollo

Miembros de la delegación: Stanley B. Ramsaran, Lucien Refos, J.H. Abdul

TRINIDAD Y TABAGO

Representante: George Lumhee, División Planeación de Energía, Ministerio de Energía y de Industrias Basadas en la Energía

Miembro de la delegación: Carroll Gajraj

URUGUAY

Representante: Carlos A. Corra, Subsecretario de Energía

Miembros de la delegación: Alfredo Behrens, Carlos Gianelly, Antonio L. Camps

VENEZUELA

Representante: Pedro Sorensen, Ministro Consejero, Misión Permanente de Venezuela ante las Naciones Unidas

Miembros de la delegación: Luis Enrique Berrizleitia, María Luisa Chávez, Alberto Méndez Arocha, Luis A. Velázquez

B. Organismos de las Naciones Unidas

Centro de las Naciones Unidas para los Asentamientos Humanos (HABITAT)

Sergio Soza

Mauricio A. Rivelino

Conferencia de las Naciones Unidas sobre Comercio y Desarrollo (UNCTAD)

Helen Argalias, Oficial de Asuntos Económicos

Organización de las Naciones Unidas para el Desarrollo Industrial (ONUDI)

Fernando Fajnzylber, Asesor Principal en Desarrollo Industrial

Programa de las Naciones Unidas para el Desarrollo (PNUD)

Danilo Jiménez, Representante Residente de México

Programa de las Naciones Unidas para el Medio Ambiente (PNUMA)

José Lizárraga, Director, Oficina Regional para América Latina y del Caribe

Jaime Hurtubia, Representante Regional Adjunto

C. Organismos especializados

Organización Internacional del Trabajo (OIT)

Guillermo López, Guizar, Director Adjunto, Oficina México

Organización de las Naciones Unidas para la Agricultura y la Alimentación (FAO)

M. R. de Montalembert

Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura (UNESCO)

Gustavo Malek, Director Regional, Oficina de Ciencia y Tecnología para América Latina y El Caribe

Rómulo Ballesteros

Banco Mundial

Colin Warren

Programa Mundial de Alimentos

Gonzalo Ribó Diéguez, Representante Adjunto

D. Organismos intergubernamentales

Agencia Internacional de Energía

D. K. Melby

Banco Centroamericano de Integración Económica (BCIE)

Guillermo E. Valle, Oficial Técnico, Gerencia de Programación

Banco de Desarrollo del Caribe

Jeffrey W. Dellimore, Asistente del Director, Jefe de la Unidad de Tecnología y Energía

Banco Interamericano de Desarrollo (BID)

Jorge Ruiz-Lara, Subgerente de Estudios Económicos
y Sociales

Leonardo da Silva, Jefe Sección de Economía Industrial

Comisión de las Comunidades Europeas (CCE)

Dieter Uldeker

Comunidad del Caribe (CARICOM)

Cesare F. Granger, Jefe de la Unidad de Energía

Grupo de Países Latinoamericanos y del Caribe Exportadores
de Azúcar (GEPLACEA)

Enrique Estremadoyro, Secretario Ejecutivo

Federico Silva Cassó

Junta del Acuerdo de Cartagena (JUNAC)

Washington Herrera, Coordinador

Carlos Aguirre

Organización de Estados Americanos (OEA)

Kirk P. Rodgers, Director, Programa de Desarrollo Regional

Secretaría Permanente del Tratado General de Integración
Económica Centroamericana (SIECA)

Julio Obols, Subdirector de Integración Física

Sistema Económico Latinoamericano (SELA)

Marcos T. Kaplan

Comité de Acción sobre Viviendas y Edificaciones de
Interés Social (CAVEIS)

Remigio Agraz

Centro de Estudios Económicos y Sociales del
Tercer Mundo (CESTEX)

Julio Cortés H., Coordinador Área de Tecnología

Centro de Estudios Monetarios Latinoamericanos (CEMLA)

Fernando Rivera, Subdirector

Centro Mesamericano de Estudios sobre Tecnología
Apropiada (CEMAP)

Roberto Céceres Estrada

Conferencia Mundial de Energía

E. Linn Draper

F. Invitado especial

Makoto Taniguchi, Presidente de la Conferencia de las
Naciones Unidas sobre Fuentes Nuevas y Renovables

G. Secretaría de la Reunión

Conferencia de las Naciones Unidas sobre Fuentes Nuevas y
Renovables

Enrique Iglesias, Secretario General de la Conferencia
Louis Wilshire, Secretario Ejecutivo de la Conferencia
Zohreh Tabatabai

Comisión Económica para América Latina (CEPAL)

Enrique Iglesias, Secretario Ejecutivo
Gert Rosenthal, Director, CEPAL-México
Daniel Bétrán, Secretario de la Reunión
Gustavo Best, Secretario de la Reunión
Alfredo del Valle, Secretario de la Reunión
Ricardo Arosemena
Bernard Gibbs
Oleg Balachevsky
Ernesto Carranza
Pablo Serrano

Organización Latinoamericana de Energía (OLADE)

Francisco Monteverde, Director Técnico

Juan A. Legisa

ANNEX 2

LIST OF DOCUMENTS

<u>Document</u>	<u>Title</u>
E/CEPAL/Conf.73/L.1/Rev.1	Provisional Agenda
E/CEPAL/Conf.73/L.2	Regional Plan of Action on New and Renewable Sources of Energy
<u>Information Document No.</u>	
1	Report of the synthesis group of the United Nations Conference on New and Renewable Sources of Energy
2	Hydropower: Energy alternative and industrial and financial challenge for Latin America
2/Add.1	Conclusions of the regional Technical Meeting on Hydroenergy
3	Leña y carbón vegetal: su incorporación en la planificación y política energética
3/Add.1	Final report of the Regional Technical Meeting on Firewood and charcoal: Their incorporation into energy planning and decision making
4	Criteria for evaluation of research and investment projects for new and renewable sources of energy
5	Present state and potential of solar energy in Latin America
6	Energy potential of sugar cane (abstract)
7	Abstract on the Regional Programme of the Latin America Energy Organization on Geothermal Energy
8	Abstract on the Regional Programme of OLADE in small hydroelectric power
9	Abstract on the Regional Programme of OLADE on wind energy

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<u>Document</u>	<u>Title</u>
10	Abstract on the Regional Programme of OLADE in biogas
11	Perspectives for the utilization of peat in Latin America
12	Perspectives for the utilization of tar sands in Latin America
E/CEPAL/Conf.73/L.3/Rev.1	Ministerial Level Meeting Provisional Agenda