



WORLD ENERGY COUNCIL

CONSEIL MONDIAL DE L'ÉNERGIE

For sustainable energy.

ROMANIAN MEMBER COMMITTEE

***THE ROMANIAN ENERGY COMMITTEE
OF THE WORLD ENERGY COUNCIL***

***Monograph -90 Years of Romanian Brand in the Energy
Community-***

Executive Summary



Bucharest-Romania, 2014



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(Founder of WEC)*



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(Founder of WEC Romanian National Committee)*

FOREWORD

When having to make an assessment and express a personal opinion on a thing to be done, man often asks himself: "Is this really useful to me? Why? Can I live without it?"



***W**ater, air, food.... All these are things without which our lives would be impossible to live.*

***E**ven from the birth of humanity, man has created things and tools through his own skills, brain and hands in order to ease his life, leaving however enough time for enjoying his short living on this Earth.*

***E**nergy is one of the most vital elements in our lives, like water, air and food. Energy is the one that puts everything into motion and which has been developed such as to meet man's needs and curiosity. The most usual form of energy is electricity, which, through a simple bunch of wires, gets into our houses bringing us our comfort. Along centuries, electric energy has raised many a global questions with respect to its sources, generation, distribution, transmission, environmental impact.*

The success of an activity does primarily depend on the good organization of man's ideas. This is why we have to praise that day of July 15, 1924, when several great-minded people from 40 countries on the globe, Romania also included, gathered together at a World Power Conference organized in London, in order to search for the best solutions related to energy of all forms and to forward their ideas to the whole mankind. This was actually the birth of the today organization – the World Energy Council-.

***E**ven from the very year of the World Energy Council birth (1924), Romania made a notable contribution within its activities, at a global and regional level and particularly at home.*

*The present Monograph **"90 Years of Romanian Brand in the Energy Community"** is meant to point out the 90 years of Romania's membership to the World Energy Council, to briefly resume its history, reveal the contribution of Romanian energy experts, underline the importance of gathering together the best experts under the same ideas and leave a document, a message and a model follow to the future generations of energy professionals. The book pays a homage to all those who have*

believed in and fought for their ideas and who have managed to implement those ideas for the development and welfare of the society we live in.

Our thanks and gratitude have to go to the WEC Romanian National Committee for its having continuously kept us abreast with the latest global energy information and activities, to the Romanian experts who have devoted their lives to create, develop and strengthen the Romanian power industry, to the authors of this Monograph for their initiative and dedication, to the AGIR Publishing House for its promoting the engineering achievements and for the support it provides to educational publications in this field.

I would never forget a profound visionary of this world, the greatest Romanian poet, Mihai Eminescu, who, in his "Satire I" says:

***"Suddenly, a dot starts moving - the primeval, lonely Other...
It becomes the Father potent, of the void it makes the mother.
Weaker than a drop of water, this small dot that moves and bounds
Is the unrestricted Ruler of the world's unbounded bounds"***

(Mihai Eminescu- Literary Conversations – February 1881)

*We shall never be able to create that dot. However, **It** can guide our path to the future.*

Acad. Marius Sabin Peculea, Ph.D

MESSAGE FROM THE CHAIR



At the anniversary of the WEC Energy Community in Romania „**90 Years of Romanian Brand in the Energy Community**”, the Romanian National Committee of the World Energy Council (RNC-WEC) is already known as a solid and well structured organization, enjoying a wide national and international recognition and a strong and prestigious voice in the Romanian energy community.

As a Founding Member of the World Energy Council ever since its creation in 1924, by its multiple

activities, programmes and studies at national and international level developed over these years, the WEC Romanian National Committee was directly and actively involved in the development of the Romanian Power Sector by a coherent and unitary approach of all energy sources (coal, oil, gas, alternative sources) and of the activities in the power sector (electricity, oil, gas and coal generation, distribution, transmission, dispatching).

The WEC Romanian MC is the largest national network of energy leaders and experts aimed at facilitating a permanent dialogue among its members and the other Romanian NGOs in the field, for shaping a sustainable energy system to the benefit of all.

Over the last 90 years, the Romanian National Committee of the WEC has passed through several organization structures, has been headed by several noteworthy Romanian experts in the energy field, has adapted its activities to all social and economic changes of the country, while also being continuously connected to the development and challenges of the global energy industry. It has been now recognized by the World Energy Council as an active Member Committee, particularly at the CEE regional level.

The Monograph includes several historical information on the WEC Romanian Committee, reveals its main studies, programmes and events organized over these 90 years, brings forward memories of several active participants in the life of the association and presents evocations of some of the personalities highlighting Romanian energy.

I am convinced that all information, data, documents and opinions published in this volume will also constitute a reference book and a model to be followed by the future generations of specialists

We have also to bring a homage to the Romanian forerunners who founded this association and to all those who have jointly vibrated with the development of the most dynamic sector of society: energy in all its forms of existence and expression.

We are further on committed to keep WEC Romania's energy history alive, to share it with the young generation of energy professional who might be the future leaders of tomorrow

I am deeply honored to convey my sincerest and heartfelt congratulations and thanks to all the collective and individual members of the WEC Romanian National Committee, to our staff and team of specialists for their work and beautiful results and also wish them the same outstanding achievements in the years to come.

Dr. Iulian Iancu

Chair


Romanian National Committee of the World Energy Council

MESSAGE FROM THE DIRECTOR GENERAL EXECUTIVE

As the main governmental and multi-energy organization in Romania, the Romanian National Committee of the World Energy Council has striving throughout its 90 years of its existence to meet **two major goals**:



- be a platform for a transparent and fair dialogue among all operators in the Romanian energy market, meant to analyze and go in-depth current and future problems of the energy industry in Romania within the international background
- be a platform able to best represent the interests of the Romanian energy community, both at the World Energy Council level and at the level of

Romanian top executives.

The implementation of these two goals is a great responsibility of the WEC Romania's executives and the following objectives should be considered in this respect:

- WEC Romanian National Committee has to be recognized as a representative energy organization in Romania, being committed to further on attract new members (legal entities) from all sectors of the field energy: electric power, oil, gas, coal, renewable sources of energy, IT, communications, banking, insurance, law firms
- WEC Romanian National Committee has to be a structure made up of energy industry companies, research centers, universities, Romanian Academy.

Creating a collaboration platform with the other NGOs in the energy field, such as to represent an unique voice in relation to state officials, is also one of our prerequisites.

Another important objective for us is to continuously enhancing the activities and visibility of the WEC Romanian National Committee, by organizing scientific meetings, events and exhibitions on the most representative and current issues concerning the Romanian energy field in the regional and European context, by drawing up studies and works and by developing partnerships with universities, professional associations in the areas of electricity, oil, gas, coal, environment, trade unions, state agencies that have responsibilities in education, energy, environment.

Every two years since 1990, the WEC Romanian National Committee has been organizing the *Regional Energy Forum (FOREN)*, one of the major

technical and scientific events in the Central and Eastern European region, that has been recently recognized as the official regional event of the World Energy Council, which also appreciates WEC Romania's creative capability to participate at the events organized under the auspices of WEC: Global Studies, Executive Meetings, Congresses of World Energy, World Energy Leaders Summit, regional Forums Global partners etc.

We are fully committed to develop and strengthen the Romanian Member Committee of the WEC such as it may become one of the most active and best organized committees, to promote, implement and disseminate the national energy achievements at national, regional and international levels.

All these goals can be achieved only if the Romanian economic and policy decision makers and the WEC Romania's members can fully understand the place and role that the WEC Romanian National Committee plays in the national power industry.

Dr. Gheorghe Bălan



Director General Executive

Romanian National Committee of the World Energy Council

RATIONALE - Why a Monograph of the WEC Romanian National Committee?

As the Romanian National Committee of the World Energy Council is the main and largest non-governmental Energy Association in Romania, the authors of this Monograph have considered as a honorary duty to make an thorough retrospective analysis over the last 90 years of the Committee's existence, reveal its role in the development of energy- environment sectors in the country, while also highlighting the most important achievements and contributions in the energy community, at the national and global level, by attracting in its structures the most notable personalities of the Romanian science and technology who have played an overwhelming role in the economic development of the country.

The idea of such a Monograph was advanced ever since 10 years ago by **Călin Andrei Mihăileanu** who was the Secretary General of the WEC Romanian National Committee for 30 years and who made a great contribution not only to promote the Romanian Committee's activities worldwide, but also to point out the Romanian energy sector development and the work of its specialists. Following Călin Mihaileanu's retirement, the WEC Romanian National Committee was successively run by Messrs. **Mihai Pop, Jean Constantinescu, Vasile Rugină and Gheorghe Bălan** - as Secretaries General. All of them have much contributed to the development and consolidation of the WEC Romanian National Committee and to its global recognition, as one of the most active and well-structured associations in the the CEE region.

The continuous moral and financial support offered by the Ministry of Electric Energy was extremely important in fostering and developing the Committee's activities, from 1924 until 1996, when the organization became an autonomous entity with legal personality, all the more than all Romanian ministers of electric energy during that period were also assigned- by tradition – the Chairmanship position of the WEC Romanian National Committee.

It was in 1996, when the WEC Romanian National Committee turned into a non-governmental and non-profit professional Association and became a strategic partner for other important Romanian organizations, associations and foundations in the field of energy and environment.

At the WEC Romanian National Committee's anniversary of **90 Years of Romanian Brand in Energy Community**, the authors of this Monograph are much pleased to share the whole story of the association, paying equal attention to:

- honouring the memory of the forerunners who participated in the creation and development of the Romanian energy field, as a milestone for the foundation of the material and spiritual life of society
- proving that a profession which is practiced with passion, sense of duty, patriotism and love always leads to remarkable results
- offering a model of a superior organization to our contemporaries and to our future energy generations of specialists.

The book is also meant to increase the awareness of the Romanian top executives and policy makers in giving full importance to such an elite structure as the WEC Romanian National Committee, which has proved along the years its capability of bringing together at the "same table" the most advanced spiritual values in the academic, research, material production and market orientation areas in order to provide valuable energy solutions tailored to the Romanian society realities and to the technological global advances.

The Authors

WORLD ENERGY COUNCIL HISTORY IN A NUTSHELL

What is WEC?

"The World Energy Council (WEC) is the main impartial network of leaders and practitioners promoting an affordable, stable and environmentally sensitive energy system for the greatest benefit of all. Formed in 1923, WEC is the UN-accredited global energy body, representing the entire energy spectrum, with more than 3000 member organisations located in over 90 countries and drawn from governments, private and state corporations, academia, NGOs and energy-related stakeholders. WEC informs global, regional and national energy strategies by hosting high-level events, publishing authoritative studies, and working through its extensive member network to facilitate the world's energy policy dialogue. Today, WEC has Member Committees established in over 90 countries, which represent over 3000 member organizations including governments, industry and expert institutions. WEC covers all energy resources and technologies of energy supply and demand" (Source: World Energy Council).

Every three years, The World Energy Council hosts the World Energy Congress, which is the world's largest and most influential event covering all aspects of the energy agenda and providing a platform for energy leaders and experts to address the challenges and opportunities facing energy suppliers and users.

WEC Creation and its first steps

The World Energy Council was created as a must and was actually required by life itself.

In the first decades of the 20th century, there were tumultuous and restless years which made almost impossible an official and statal coagulation. Regional developments, primarily influenced by the resources of each state and by the technological gains in the area of steady energy production parameters and in transmission and distribution systems were not coherent. This was mainly due to the political and social instability prevailing those years in most European and Asian countries and to the tendencies of the powerful developed states to conquer new territories such as to control as many resource-rich areas as possible.

Obviously, the conflicts of interests once exacerbated, they have led to a world war which has brutally disrupted the economic, technological and social development of half of the European countries.

As early as in 1923, after the First World War, the Scottish visionary **Daniel Nicol Dunlop**, who worked in the British electricity industry, brought together 40 countries from the world at a power conference, in the idea to create a multi-national „*think tank*“ of noteworthy energy experts and to approach current and emerging subjects that global energy industry was faced with at that time.

Daniel Dunlop had the inspiration to create national initiative committees in several countries of the world and to prepare a world energy conference on energy problems.



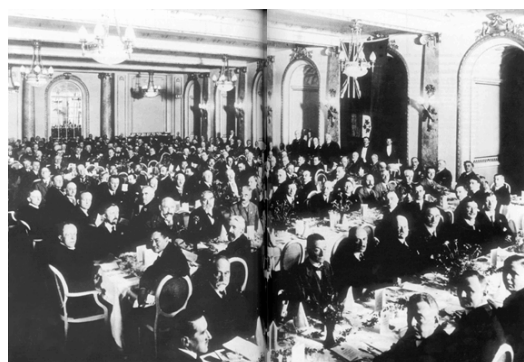
As a result, the first World Power Conference was organized in 1924 at Wembley-London and it was focused on „*Global energy resources and their use to the benefit of mankind*”.

(Photo: **Daniel N. Dunlop**. source: World Energy Council)

Over 1700 participants from 40 countries - among whom Romania as well - participated in the event.

Spoken in three languages (German, English and French), the World Energy Conference opened a new page with respect to the cooperation and friendship all over the world.

As energy was one of the most topical subjects for every country in the world, particularly after the upheaval of the First World War, the Conference had such a success, that all participants jointly decided and agreed to found



a permanent organization with the aim to keeping on the dialogue started at the Conference.

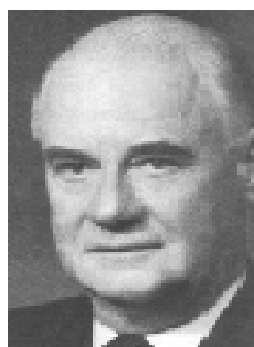
(Photo: the official dinner at the 1st World Power Conference, London 1924. Source: World Energy Council)

Therefore, a permanent organization was formally created on July 11th, 1924, under the name of **World Power Conference (WPC)**.

Following the WPC conference, an **International Executive Council** (IEC) was set up as a ruling body. IEC first met in 1925 in London to set out the guidelines and draft the Statute of the new created organization. The Council, which became the authoritative power within the WPC, was to meet annually. Every National Committee of the countries affiliated to the WPC had to elect its own representatives in the International Executive Council in order to represent the energy interests of their states. The Chairman was to be elected every three years by the International Executive Council at a plenary Meeting and the vice-chairs were appointed similarly.

In 1924, **Daniel Dunlop** was appointed as Chair of the WPC. The decision was also made that the Central Office of the new created organization be headquartered in London. Its role was to exchange information among

countries on all issues regarding all forms of energy. Each National Committee had to contribute with a subscription to the WPC budget to run the Central Office.



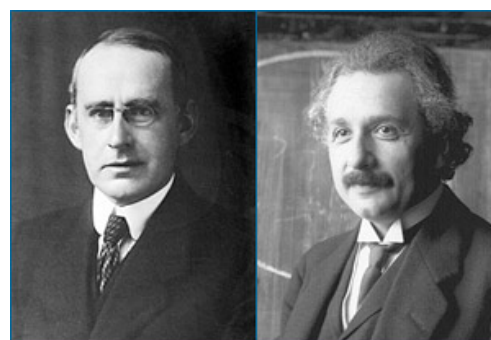
În 1928, **Charles Gray** became Secretary of the WPC Executive International Council for 40 years, until 1965.

(Photo: **Charles Gray**. Source: World Energy Council)

The World Power Conferences were held every three years. At the Berlin Congress in 1930, the WPC had a particularly notable set of key speakers, among whom: **Albert Einstein** who lectured on *"The Space, Field and Ether Problem in Physics"* and **Sir Arthur Eddington**-a distinguished astrophysicist-who first explained Einstein's theory of relativity in English and led the first expedition to confirm it.

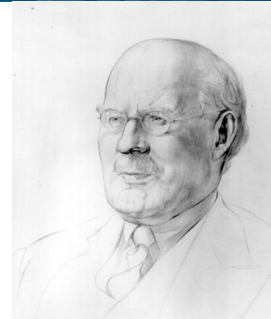
In his address, Eddington said, among other interesting things, that in the future, *"subatomic energy would provide the plain diet for engines previously pampered with delicacies like coal and oil"*.

(Photo right: **Sir Arthur Eddington** and **Albert Einstein**. Source: World Energy Council)



In 1935, Daniel Dunlop passed away. He was succeeded as Chairman by **Sir Harold Hartley**.

(Photo right: **Sir Harold Hartley**. Source Wikipedia)



The 3rd World Power Conference took place in 1936 at Washington D.C. In his opening address to the event, president **Franklin Delano Roosevelt**, pointed out the privilege of the USA to host the 3rd World Power Conference and the Second Congress of the International Commission on Large Dams and underlined *"It is one of the achievements of our generation that business men, engineers, lawyers, social workers and other people of affairs should meet in international assemblies not merely for promotion of the abstract sciences and techniques in which they may respectively be engaged, but for exploration of the application of these to national welfare and betterment of the conditions of human life."*

There are very special reasons why we in the United States prize the opportunity to provide the forum for discussion of the problems which are being presented to your Conference. We are relatively a young Nation, facing now the problems of matured national life. Many among you represent Nations of far longer experience. We have a strong conviction that any success we may have in organizing the household of this Nation, now come of age, will depend in large measure on the degree to which and the



manner in which we make available the natural energies which have been given us in great abundance. We shall therefore study the records of your proceedings with painstaking care. It is for such reasons that your deliberations are of significance to me, and will be followed with minute attention.

(Photo: Franklin D. Roosevelt. Source: Wikipedia)

Your scientific and engineering genius is destroying one world—the world of relative scarcity—but has it yet undertaken to create the new world of abundance which is potential in your command over natural energies? Is creation of greater abundance dependent on further scientific and engineering achievements so much as on suitably organizing and utilizing the engineering already incorporated into your technique?" These two questions, more simply stated, resolve themselves into this: Are you and I paying enough attention to "human engineering"?

(Source: The American Presidency Project <http://www.presidency.ucsb.edu/>)

In-between the two World Wars and further on, the organization witnessed several changes, from geopolitical and economic deep changes to a complete shift in the way people understood and use energy. It has had to adapt to a changing world without ever straying from the initial concept of an impartial, objective and realistic organization aimed at acting to promote a sustainable energy for all.

From a forum designated to energy suppliers which had been actually dedicated to electric energy, the organization became a multi-energy organisation, covering all forms of energy. From an organization particularly focused on the technical progress, it developed into a body able to analyse the energy issues with a special emphasis on the social, economic and environmental issues.

During the Second World War the activities of the World Power Conference remained almost inactive. No events took place and no annual reports or other works were published. The communication among the National Committees of the WPC became rather difficult.

There were however some attempts of organizing a WPC meeting in London. Although Harold Hartley (the then Chairman of the IEC) underlined the importance of the WPC in a report submitted to the Foreign Office, the decision was definitely made that the meeting would be organised after the War.

Post-War activities of the World Energy Council (1945-1968)

Unfortunately, the war disrupted the WPC's work on both global and national levels. Its activities were resumed in the first post-war conference which took place in 1947, two years after the war had ended. The WPC's role was then to draw up another set of post-war rebuilding projects, and to also deal with the emergence of "atomic energy" demonstrated by the power of the atomic bomb.

In the meeting of the International Executive Council which took place in 1945 in London, the key issue on the agenda was the reestablishment of the WPC Member Committees, the organization of WPC Central Office and setting up a post-war budget. All participants in that meeting discussed upon and agreed that the WPC had to draw up the booklet called "*National Committees and Representations*", meant to put again all National Committees in touch with each other, such as to resume their activities which had been halted during the War.

In 1947 the United Nations granted the World Power Conference the consultancy status. At the IEC meeting held at Hague in 1947, Harold Hartley forwarded the idea that WPC member countries be permitted to make up national committees and forwarded an amendment on the basis of which National Committees be again reformed. Further to this amendment, several countries began asking the admission into WPC. A number of 40 countries were already admitted by 1951.

In the London WEC Congress which took place in 1950, **Sir Harold Hartley**, was elected as President of the World Power Conference and **Sir Vincent de Ferranti** was designated as Chairman of the WPC International Executive Committee. This Congress was also the first one to address natural gas and atomic energy as potential energy resources, due to the concerns over security of oil supply.

In 1956 the „*Objects*” of the WPC Constitution were revised. Along with the consideration of the potential resources of each country in hydropower, oil and coal, the focus was also laid upon the „*potential resources and all the means of production of energy in all their aspects*,” (WPC Annual Report, 1956).



In 1965, **Eric Ruttle**, was assigned as the Secretary of the international Executive Committee. He had been an Assistant Chief Representative to the Iraq Petroleum Company, who served in this post for 21 years, until 1986.

(Photo left: **Eric Ruttle**. Source: WEC Romanian National Committee)

Activities of the World Energy Council (1968 - present)

The participants in the World Power Conference which took place in 1968 in Moscow decided to change the name of the organization into the **World Energy Conference**, such as to better express its broad concerns over the whole field of energy and energy related aspects. Soon after that, the International Executive Committee made the decision that the annual meeting of the World Energy Conference (WEC) became known as the **"World Energy Congress"**. Thus, the annual event could be differentiated from the parent organization.

During its first 50 years of existence, the World Energy Council had to face several major challenges, among which: conflicts among the main private and public players in the energy industry, great tensions among big or small, rich or poor countries, different visions of its member states concerning energy policies, various ways of addressing the energy and energy-related aspects by each country, different political changes of nations.

In 1978, the WEC *Conservation Commission* published the report „*World Energy: Looking Ahead to 2020*“, a comprehensive work which thoroughly analysed the global energy scene, with due consideration to market economy countries, centrally planned economies and developing countries.

In the 1980 WEC Congress which took place in Munich- Germany, it was for the first time when the event was compared to the Olympic Games. While talking about competition among states regarding energy resources and about the success or failure seen in terms of national survival, the Mayor of Munich called the WEC Congress as "*Energy Olympics*"

The 13th WEC Congress took place in 1986 in Cannes-France. The Cannes WEC Congress inaugurated the first **WEC Technical Exhibition**, which was organized with a view to better promoting the energy supply equipment of the participating countries. The WEC Exhibition enjoyed a great success and since then it has become a regular part of following Congresses.



At the 1986 Congress of Cannes, Eric Ruttley resigned as Secretary General of WEC after having steered the organisation through 20 years of extraordinary changes.

(Photo: **Ian Lindsay**. Source: WEC Romanian National Committee)

He was succeeded by **Ian Lindsay**, who had over 30 years experience in the oil industry. Ian Lindsay successfully continued Eric Ruttley's activities for ten years as Secretary General and managed to keep on increasing WEC's membership, authority, and influence.

In 1989, WEC published the report, „*Global Energy Perspectives 2000-2020*”, a helpful document for decision and policymakers, as well as the study “*Energy for Tomorrow’s World- Acting Now*” which enjoyed a great success worldwide.

In the Madrid WEC Congress of 1992 , **the organization changed again its name to the World Energy Council, and the International Executive Council was renamed the Executive Assembly.**



(Photo: **Gerald Doucet**. Source: WEC Romanian National Committee)

In April 1997, Ian Lindsay, the WEC Secretary General passed away unexpectedly. He had served the organization for 12 years and made a great contribution to WEC’s growth and its increasing importance on the global energy scene.

At the Houston Congress which took place in 1998, **Gerald Doucet**, President and CEO of the Canadian Gas Association, was selected as WEC’s new Secretary General. Gerald Doucet led WEC for ten years, during which several important and remarkable changes in the organization occurred. All of them led to increasing its visibility at the global level and WEC became a strong voice of the energy industry.

In 2000, The World Energy Council published another important report: „*Energy for Tomorrow’s World – Acting Now!*”, which re-analysed the premises and conclusions of the 1993 *Energy for Tomorrow’s World*.

In October, 2008, Gerald Doucet passed away and the new Secretary General of the WEC was appointed in the person of **Dr. Christoph Frei**, formerly with the World Economic Forum. Dr. Frei has been leading the Association since 2008 and has brought a new and fresh vision of the World Energy Council, a new and modern way of approaching global issues of energy.



(Photo: **Dr. Cristoph Frei**. Source: WC Romanian National Committee)

He is making a great contribution at strengthening the cooperation among all countries of the globe, which are members of the World Energy Council.

World Energy Council looks ahead with confidence

“At present The World Energy Council consists of two separate but related legal entities: The World Energy Council, which is a UK registered charity

and a UK company incorporated under the laws of England and Wales and WEC Services Limited ("WSL"). The World Energy Council's wholly owned trading subsidiary and a separately registered UK company incorporated under the laws of England and Wales. WEC is an officially accredited UN partner organization has links to a number of sectoral, IGO and NGO organisations worldwide. WEC's activities are coordinated through the WEC Secretariat at its headquarters in London. Membership of the World Energy Council (WEC) is vested in autonomous country Member Committees whose members reflect a range of government entities, private sector companies and expert organisations. WEC's goals are pursued in a collaborative, democratic structure involving the Executive Assembly, the Officers, Standing Committees and a number of task forces, study groups and technical committees supported by volunteer experts from WEC Member Committees governments, universities and international institutions. The WEC operates under a publicly available Articles of Association which govern its structure and work "(Source: World Energy Council).

The World Energy Council develops its activities in a comprehensive way, by equally considering a wide range of topics: energy in its various forms, energy policy decision, environment, geopolitics, economics and trade, water security and technological development. New approaches on energy subjects and new concepts have been developed, all the more than the all power systems over the world have also undergone several changes, since 1924. Energy sustainability is now the main word that governs the global energy sector as a whole, making a balance among the three issues of the energy "trilemma". Balancing the three main vectors of sustainable development (*security of supply, social equity and environmental impact mitigation*) is one major goal for the World Energy Council, also corroborated with WEC's willingness to better use its network of members, its objective and realistic view, its collective knowledge and its influence, all of them aimed towards a better world and sustainable energy future.

ROMANIA- A FOUNDING STATE OF THE WORLD ENERGY COUNCIL

Birth of the WEC Romanian National Committee

As it was already mentioned before, the first World Power Conference took place in July 1924 at the Palace of Engineering on the site of the Empire Exhibition at Wembley, further to the invitations launched by Daniel Dunlop to several countries in the world ever since 1923. The subject of the Conference was „*The Resources of the World in Power and Fuel and their Use of the Greatest Possible Advantage*".

The opening speech to the event was delivered given by king **Edward VIII**, at that time Prince of Wales.

Photo right: **Eduard the 8th**. Source –wikipedia)



At that time, Romania was a well-known Eastern European country, particularly given to the development of its oil industry (1.860.000 tons of products in 1924). Therefore, Romania was one of the countries invited to participate in the first World Power Conference and was represented in the WPC by two noteworthy Romanian energy experts: professors **Constantin D. Bușilă and Constantin I. Budeanu**.

All countries that participated in the first World Power Conference received the statute of Founding Members and the Romanian representatives registered Romania as a founding member of the World Power Conference. Thus, **Romania is one of the Founding State of the World Power Conference which was to become, 70 years, later the World Energy Council**.



(Photo: **Constantin Bușilă**. Source WEC Romanian National Committee)

Getting back in Romania, Professors Bușilă and Budeanu presented the outcomes and goals of the Wembley WPC Conference to the Romanian liberal Government of those years and suggested the involvement of the professional organizations in the development of a national plan which had to cover all forms of energy.

Being the head of the Romanian team participating in the first World Power Conference at London, Professor **Constantin Bușilă is considered to be the first Chairman of the WEC Romanian National Committee**.



Taking advantage of the new issued "Law for legal persons, association and foundations" (Law No. 21 published in Official Gazette No. 027 of 02/06/1924-called „Marzescu Law”), **King Ferdinand I of Romania** enacted in the autumn of 1924 the legislative proposal of setting up "The Romanian professional association for cooperation and research in energy and electric engineering industry".

The new created Association had no legal personality and functioned as a voluntary entity beside the then Romanian governmental structure that managed the electricity and natural gas sectors. The Association began

developing good collaborations with companies of oil, coal, hydro, and other energy sources.

(Photo right: **King Ferdinand I** of Romania. Source: wikipedia)

WEC Romanian National Committee (1924 – 1950)

Within the background of Romania's political and economic turmoil, in line with the devastating events brought about by the First World War in Europe, the new created Romanian Association within the World Power Conference could no more keep on developing as an organised structure and, therefore, could not have its own programmes on present and future economic and spiritual needs of a modern society. Having no legal personality, the Romanian Association, which was to be later on called „**The Romanian National Committee of the World Energy Conference (RNC-WEC)**” functioned since 1924 until 1998 under the authority of the Ministry of Electric Energy, which used to regularly pay the annual national subscription to WEC London Office.



Consequently, the Romanian Minister of Electric Energy used to be traditionally assigned the function of Chairman of the WEC Romanian National Committee.

The first 26 years (1924-1950) of the WEC Romanian National Committee are less clear. Unfortunately rather poor information could be found in the WEC Romanian MC's archives with regard to the Romanian participation in WEC Congresses II, III and IV (1930, 1936, 1950). Romania had lagged behind not only due to the severe economic crisis and the Second World War, but also due to the further communist regime installation which was devastating and which isolated the country behind the „Iron Curtain”.

The global economic crisis at the end of the 3rd decade and the beginning of the 4th decade of the 20th century had a negative impact upon people's life. Unemployment increased, economy went down and the moral crisis got deepen, culminating with the outbreak of the Second World War. However, even in those critical and severe years, the elite members of the Romanian Academic environment kept on researching the present and future of the energy.

As of 1948, further to the radical change of the ownership principles and of the production mode, Romania moved towards an economy based on a "planned development" and the energy sector became the most important one. Thus, after the creation of the Council for Mutual Economic Assistance, CMEA, (1949-1991), an economic organization under the leadership of the Soviet Union that comprised the countries of the Eastern Bloc along with a

number of other socialist states, Romania was actively involved in CMEA's scientific and technical structures. Even in those severe times, Romania did manage to maintain its participation in international organizations: the World Energy Conference (WEC) and the International Council for Large Electric Systems (CIGRE), both of them having been founded thanks to professor Constantin Bușilă.

The activities within the WEC Romanian National Committee were developed within the engineering professional associations such as the General Association of Romanian Engineeres (AGIR).

WEC Romanian National Committee (1950-1998)

In 1955, further to the initiative of The Romanian Science Association of Engineers and Technicians, the Romanian Committee for Participation in International Energy Conferences was created. Within this newly established body, specialized committees for large international organisations were set up, among which a Committee specially designed for participation in WEC activities. The chairman of this new created committee was professor **Constantin Dinculescu**, a great Romanian personality in the technical-scientific field and its secretary general was professor **Ioan D. Stăncescu**.

Starting with 1956, The Romanian National Committee resumed its activity within the WEC, at the beginning as a Working Group within the Romanian Gas and Energy Authority and afterwards as a Committee under the authority of Energy Ministries that followed (RENEL, CONEL etc).

There are no records of Romanian participation in the first four WEC Congresses, but for the participation of the great energy scientist **Nicolae Caranfil**, who was at that time director general of the General Gas and Electricity Society

The Romanian team made up of **Constantin Dinculescu**, the then Chair of the WEC Romania and by Professor **Cristea Mateescu**, member of Romanian Academy participated in the 6th World Power Conference "*World Energy Resources in the Light of recent Technical and Economic Developments*" hosted by Vienna in 1956. Since then, Romania has participated in all WEC Congresses that followed.

The most longeval Secretary General of WEC Romanian National Committee was **Călin Andrei Mihăileanu**, one of the best energy expert in the country. He run the Romanian Committee for 30 years. Under his leadership, WEC Romanian National Committee knew a successful development, as Călin Mihăileanu was actively involved in WEC's activities. He was a member in several WEC Commissions and Task Forces (*Energy Conservation Commission, Oil Substitution Task Force* etc).

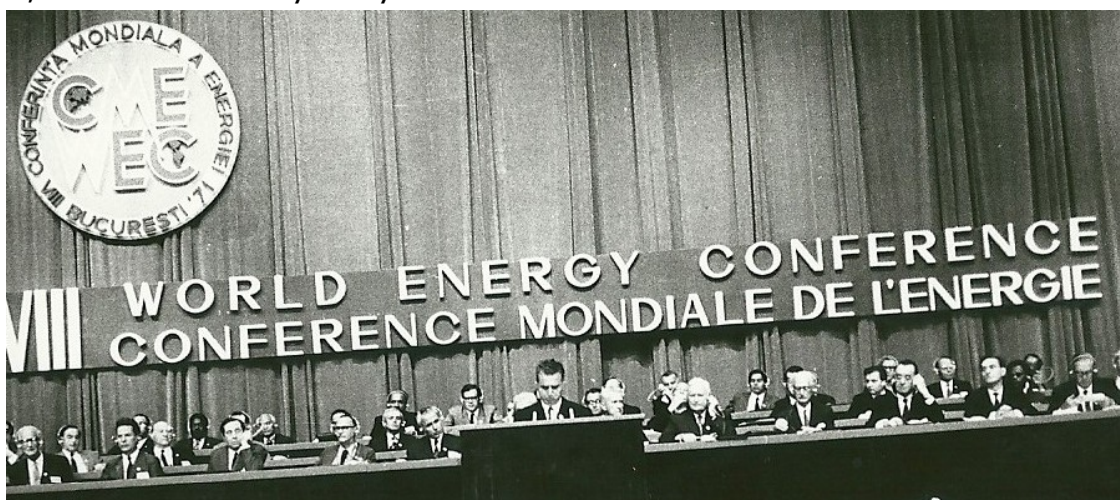
In 1971, Bucharest-Romania was the host of the the 8th WEC Congress "Improving the Utilisation of Energy, with Special reference to Complex Uses".

Călin Mihăileanu who was the Secretary of the WEC Romanian (and also Director General of the Energy Research and Modernising Institute – ICEMENERG) was the coordinator of the event which was developed under the auspices of the Ministry for Electric Energy and under the patronage of the Romanian Government.

*(Photo right: **Calin Andrei Mihaileanu**-Secretary General, WEC Romanian MC – 1958-1988)*



One of the important decisions made during the 1971 WEC Congress in Bucharest-Romania was that each WEC Congress be organised every three years, instead of every six years as it was since then.



(Photo: Opening Session of the 8th WEC Congress, Bucharest-Romania, 1971. Source: WEC Romanian National Committee)

In 1986, further to the initiative of Călin Mihăileanu, the WEC "Oil Substitution Task Force" meeting was organized in Bucharest – Romania as well, another important event organized under the aegis of the World Energy Council. Mention should be made that it was extremely difficult in those communist years for a Romanian association to organize international events. Therefore, the efforts undertaken to this purpose by Călin Mihăileanu, with the support of the then Ministry for Electric Energy, are to be really highlighted and appreciated.

As of 1986, under the then communist regime there took place the bankruptcy of industrialization and collectivization of agriculture (an initiative sought to bring about a thorough transformation in the property regime and organisation of labour in agriculture).

Consequently, Romania passed to the construction of huge energy intensive industrial projects, totally disregarding the availability of resources or of advanced technologies, market requirements and the opinions of specialists. Under those circumstances, Romania's activities within WEC witnessed serious difficulties.

The WEC Romanian National Committee was no longer allocated financial resources to pay the annual subscription contributions to the WEC, because foreign currency payments for international affiliations were completely forbidden out of political decisions made by the then communist leaders. No individual participation of Romanian specialists was allowed to international meetings, symposia and Congresses, due to the lack of financial resources and to the total blockage of free circulation of ideas and people, in spite of the fact that Romania was a co-signatory country of the Final Act of the Organisation for Security and Cooperation in Europe (OSCE) in Helsinki.

No contacts and meetings with foreign specialists could take place without the special approvals from the then „*Securitate*” (the Romanian secrete police), no foreign books, articles, magazines were allowed to be introduced in the country. Under those circumstances, Romania became almost isolated from the other states. There were hard times and all the above mentioned ones represent a real history with ups and downs, a history which covers almost a century.

As no foreign currency payment were allowed to international organizations, the WEC Romanian National Committee could no more pay its annual subscription to WEC London Office for three years. As a result, in 1988 the WEC Romanian National Committee was excluded from the WEC's structures.

Late in 1990, following the Romanian Revolution of 1989 that resulted in the fall of communism in Romania – likewise in all communist countries of Central and Eastern Europe-, the Romanian National Committee of the World Energy Council, with the support of the Romanian Electricity Authority-RENEL - (the successor of the Romanian Ministry of Energy) and of its



President, **Mr. Aureliu Leca**, managed to pay to the WEC Central Office the arrears for the previous three years and also the subscription for the current year (1990).

(Photo: **Aureliu Leca**, Chair of WEC Romanian MC [1990-1993, 1995-2004])

Therefore, in 1990 Romania was again received as a full member state in WEC's structures. At the 1990 WEC Executive Assembly, Ian Lidsay, the WEC Secretary General made the official announcement of Romania's reintegration within the World Energy Council as a National Member Committee. Mr. **Aureliu**

Leca became the Chair of WEC Romanian National Committee and Mr. **Jean Constatinescu** became the Secretary General.



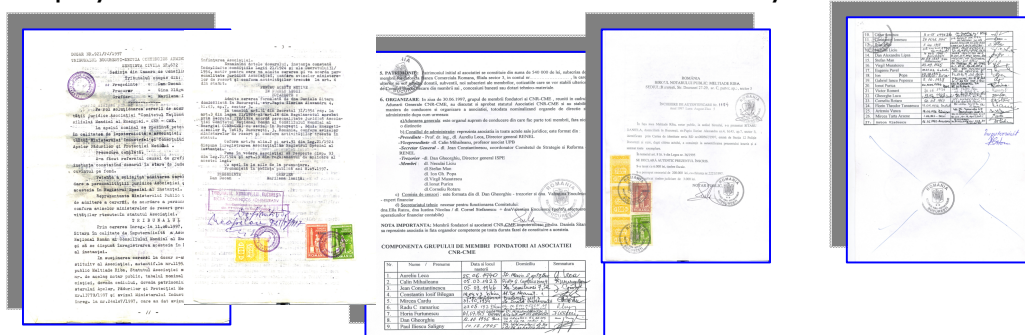
Mr. Leca chaired the Romanian National Committee of the WEC from 1990-1993 and then from 1995 until 2004. In between 1993-1995, the chairmanship of WEC Romania belonged to Mr. **Victor Vaida** who had been also appointed as President of RENEL.

(Photo: **Victor Vaida**, Chair of WEC Romanian MC, 1993-1995)

In 1996 Mr. Jean Constantinescu resigned from the position of Secretary General of the WEC Romanian National Committee. His successor was Mr. **Vasile Rugină** who run the Committee for ten years. In 2006 Mr. **Gheorghe Bălan** was nominated as the Director General Executive of the Association „Romanian National Committee of the World Energy Council” and he has been successfully running the Executive Secretariat of the WEC Romanian MC ever since.

There followed a period of great developments in the activities of the WEC Romanian Member Committee which was actively involved in WEC’s structures, in its Study and Programme Committees, Working Groups. Its members participated with studies and papers in all the events organized under the umbrella of WEC MCs and Romania itself began organising a series of important conferences, symposia and workshops.

1998, the WEC Romanian National Committee became an independent association with legal personality and starting from that years it pays its activities and fees to WEC London by its own sources.



(Photos above: Copies of the Constitutive Act and the Legal Decision of WEC Romania legal registration 672/1997)

Mr. Aureliu Leca successfully chaired the WEC Romanian National Committee for 12 years and under his chairmanship the Romanian organization was broaden, increased membership and authority.



At the 2004 General Assembly of WEC Romania, Mr. **Iulian Iancu** was elected as the new Chair of the WEC Romanian National Committee and he is still chairing it.

*(Photo : **Iulian Iancu**, Chair of WEC Romanian MC, 2004-present)*



*(Photo above: Secretaries General of the WEC Romanian National Committee as of 1990. From left to right: dr. **Jean Constantinescu**, dr. **Vasile Rugina**, dr. **Gheorghe Balan**)*

ROLE AND PLACE OF THE WEC ROMANIAN NATIONAL COMMITTEE IN THE ENERGY SECTOR OF ROMANIA

WEC Romanian MC's Mission, Vision, Objectives and Activities

The Romanian National Committee of the World Energy Council (RNC-WEC) is a nongovernmental association and the main multienergy organisation in Romania. It is a non-profit, legal and strategic partner for other Romanian organizations, associations and foundations in energy and energy-related fields, having access to information, skills and deep knowledge through its professional contacts worldwide.

❖ Vision

Facilitate the dialogue among representatives of Romanian energy industry for shaping a sustainable future in the energy field.

❖ Mission :

Promote the sustainable energy development and efficient use of all forms of energy to the benefit of all.

❖ Goal:

Carry out studies, programmes and events in order to promote, implement and disseminate the accomplishments of Romanian energy

experts at national and regional level, while also integrating the energy policies within global options and trends such as to meet the purpose and objectives of the World Energy Council.

❖ **Objectives:**

- Draw up studies, research works, technical reports in the energy and environment area, by gathering, processing and publishing data on primary energy resources and the associated technologies
- Undertake all necessary actions, organize conferences, workshops and seminars to facilitate the access to the latest information in the field and offer a networking platform among energy experts and economic and political decision makers
- Collaborate with other organizations with similar compatible goals in the energy sector
- Approach and analyse the most topical energy issues and best practices in the Romanian and CEE region energy sector
- Exchange of knowledge, experience and opinions on the developments, expectations and challenges of the Romanian power industry
- Set up national and regional partnerships
- Strengthen the collaboration and communication among WEC Romania's members and the WEC Regional Member Committees
- Representing the interests of all its members.

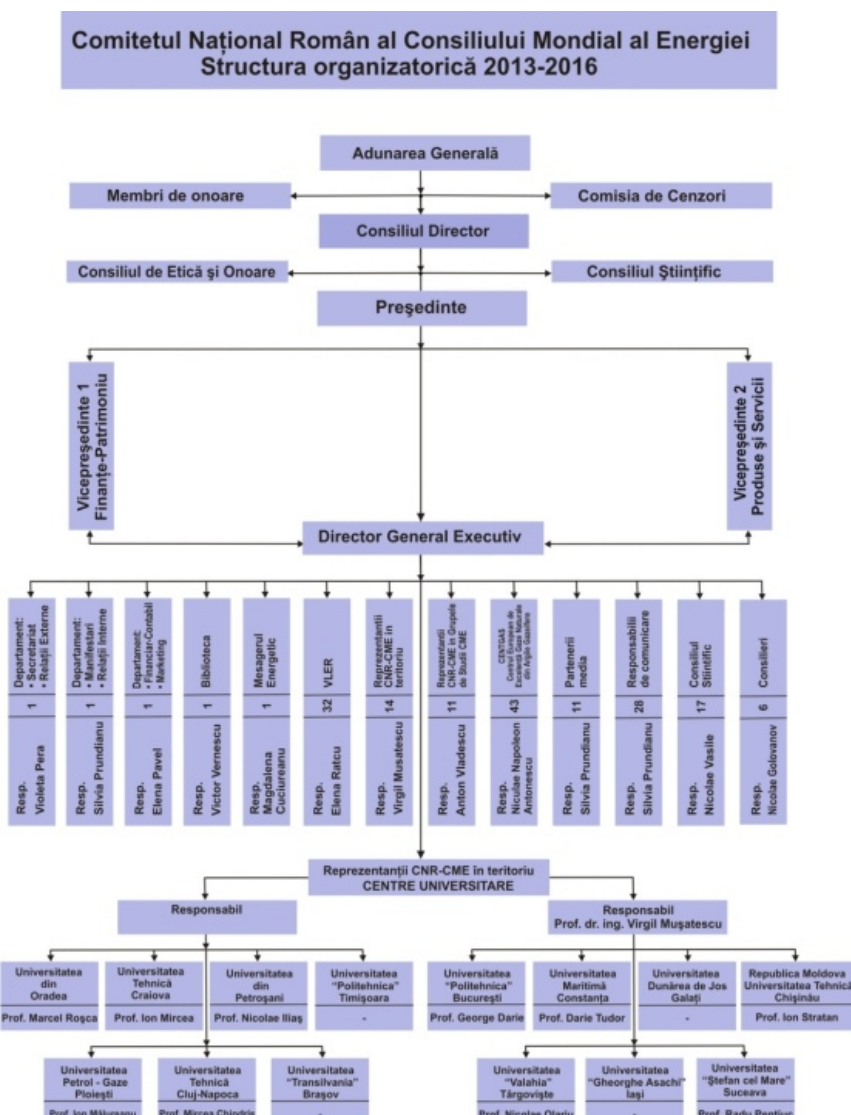
❖ **Activities :**

- Participation in the decisions made at global level, through the Romanian representatives in WEC's Study Groups
- Organise technical and scientific events, to support the energy industry, research-development-innovation activities, review the most topical energy issues and trends and offer pertinent recommendations to governmental, corporate and academic decision makers towards a sustainable future for the whole world
- Organise, every two years, since 1992, FOREN confereces which represent WEC Romania's flagship events, attended by almost 1000 participants
- Get together all Romanian non-governmental organizations in the energy field under a collaboration platform such as to jointly address the most important energy issues and make up a common and unique voice to be heard at the governmental level
- Develop Position Papers on Romanian energy policies and strategies
- Offer availability to WEC Romanian MC library.

WEC Romanian MC's structure

The Romanian National Committee of the World Energy Council is coordinated by the Executive Secretariat, headquartered in Bucharest, Romania, under the direction of an elected Chairman and a Director General

Executive who report to WEC Romania's Board of Directors and to the WEC Office in London.



(The WEC Romanian National Committee's Organigram (2013))

The General Assembly (GE): is the main coordinating body of the WEC-RNC and is made up of its all collective and individual members. It meets once a year and its members have full authority in the governance of WEC Romania, as provided in its Statute. GE's main responsibilities are to:

- elect the chair, co-chairs and and the members of its Board
- review and approve the organization's activities, working programme and annual budget
- approve new members and withdraw membership if necessary
- establish the committees to carry out the work programme.

Board of Directors (BD): consists of WEC Chair, Director General Executive, body of advisors and top executives of the main state-owned and private companies, academic and industry representatives, energy operators, R&D institutes. Their task is to agree strategic direction of the Committee, manage WEC Romania's business affairs and property and to support the development of all the activities undertaken by the Committee. BD is entrusted by the General Assembly with the operative and effective management of the WEC Romanian National Committee and is elected by the GE for a period of three years. BD is made up of 25 members.

The Scientific Advisory Council: It is run by a Chairman, is made up of 17 Working Groups covering all energy and energy related fields and offers consultancy to the Executive Secretariat of WEC Romania for all the scientific, technical and exhibitional events.

The Council for Ethics: promotes an ethical behaviour to all the Committees members, based on the Ethic Code of WEC Romania.

The Body of Advisors: is made up of noteworthy experts in the energy field and represent the working group of the Director General Executive.

The Publication Department: edits WEC Romania's bulletins, reviews, studies, catalogues etc

Future Energy Leaders Department: It is specially initiated and coordinated by WEC Romania, as a part of WEC Future Energy Leaders Group of WEC to give full support to the Romanian young energy professionals such as they may take advantage of the great opportunities lying before them and become the future energy leaders of tomorrow

The Association „Romanian National Committee of the World Energy Council” is at present a well-structured and organised body, with a large national and international recognition and a strong and prestigious voice in the Romanian Energy Community.

FLAGSHIP EVENTS AND TOPICS HIGHLIGHTED BY THE WEC ROMANIAN NATIONAL COMMITTEE

In line with the increasing focus laid by all the countries in the world upon the transformative changes faced by their power systems, the WEC Romanian National Committee has thoroughly addressed in its events and studies the major issues of the today challenges: power system sustainable development, implementation of smart grid technologies, improving energy efficiency, development of renewable energy sources and unconventional gas resources, implementation of market coupling (involving the Czech, Slovak, Hungarian and Romanian day-ahead electricity markets the 4M

Market Coupling)), decarbonation of the power sector, electricity security of supply a.s.o.

The Romanian power system has undergone major changes after 2000, when the generation sector was unbundled from the transmission and distribution sectors. The Romanian National Committee of the WEC has continuously played a substantial role in promoting, developing and implementing sustainable energy policies and in gathering together the major decision makers and the best energy professionals to find out the most suitable ways of approaching the current topics. The Committee has become a strong voice in the Romanian energy community and its activities are huge, regular and very well managed, having a high reputation and recognition not only at the national level, but also among all the WEC member committees and WEC-London headquarters as well.

The main topics debated over the last years by the WEC Romanian National Committee in its events, studies, programmes and publications aimed at addressing the energy policy framework set up by the World Energy Council, while also focusing on the WEC triple challenge of the energy trilemma: energy security of supply, environmental sustainability and energy equity (access and pricing).

A special attention was also paid to the challenges staying ahead the Romanian power industry, which have to be properly approached by the Romanian policy makers and energy experts, such as to identify, develop and implement the best viable solutions, while further on promoting only those able to meet public acceptance.

The main messages resulted from the latest national and regional events organized by the WEC Romanian National Committee mainly referred to:

- Finding out the best solutions for security of supply by promoting renewable energy sources, endorsing efforts to explore shale gas, improving energy efficiency and mitigating greenhouse gas emissions
- Developing an adequate gas infrastructure, particularly in the South-Eastern region
- Highlighting the efforts made towards achieving the national targets of EU member states and cooperation mechanisms such as to meet the "20-20-20 Targets" set by the EU package "Energy-Climate Change"
- Implementing the third EU legislative package electricity and gas markets at a national level, aiming at electricity markets liberalization by 2014 by setting up a single European market
- Pursuing market reforms in energy sector while also securing reliability of electricity markets
- Developing a low-carbon economy and measures to mitigate environmental pollution of coal power plants
- Keeping on the concerns of changing the behavior of energy users, developing smart grids (with due consideration of Romanian

Academy's role in such matters), accessing EU cohesion funds for energy investments

- Dissociating the politics issues (generally meant for the short-run term) from the energy issues (meant for medium and long-run term) should be a must in order to meet a predictable development of actions, consistent with the long term strategy of energy sector
- The world energy trilemma must find an appropriate solution to ensure a sustainable development of human society. Although the issues of access to modern energy are known, the developed countries have made efforts to limit the social inequalities and mitigate environmental pollution. Energy trilemma requires concrete solutions to avoid disastrous consequences (population migrations, climate disasters, social unrest, food crises, armed conflicts). Promoting renewable energy sources can be a solution to limit conflicts for energy resources. Choice of energy mix should be country-specific and can be determined based on existing resources and given public acceptability
- Shale gas can be also an important contribution to achieving the necessary resources of tomorrow and ensure the sustainable development of Romania
- Conveying messages to political, technical, economical, educational decision makers such as to increase public awareness on the best utilisation of energy.

The Romanian Energy Committee of the World Energy Council is actively involved in the activities of WEC London and also in creating and supporting several own activities meant to be supportive to all its members

Each year the WEC Romanian MC sets up an ambitious plan of about 20-30 events (conference, symposia, round tables and workshops) organized by itself or in collaboration with some other major players in the Romanian power industry. All of them proved to be a success in the last 15 years.

FOREN Conferences

The Regional Energy Forum - FOREN is organized in Romania every two years by WEC Romanian National Committee and has already become a key traditional event for the Romanian and European energy community and an ideal platform for the decision makers in the region to address the region's energy issues and identify the right policy frameworks for securing economic growth and sustainable energy supply. Through FOREN Conferences, the World Energy Council can play a complementary role in promoting the sustainability values for the benefit of electricity markets in this region. Given the participation of a large number of policy makers and energy experts from the CEE region, FOREN conferences represent a strong dialogue, communication and interaction platform among the CEE countries, aimed at reviewing the most topical energy issues and trends and offering

pertinent recommendations to governmental, corporate and academic decision makers, towards a sustainable future for the whole world. Every two years, the volume of FOREN conclusions and recommendations is drawn up, published and disseminated in Romania and abroad.



Collaboration Platform of the Romanian NGOs, Member to the WEC Romanian National Committee

Further to the initiative of WEC Romania, a Collaboration Platform of the most important Romanian NGOs in the energy field, which are also members to WEC Romanian National Committee, is being developed by WEC Romania. Considering the topical issues debated at present by the policy makers at the regional and world level for a sustainable future, the WEC Romanian MC forwarded the idea that Romanian energy NGOs should gather together and harmonize their actions and opinions in order to be a stronger and more convincing voice in the Romanian electricity market and to convey coherent messages to the Romanian economic and political decision makers, governmental and administrative authorities, regulators. The project is under way.

Future Energy Leaders Programme in Romania (FELPR)

As a part of WEC Future Energy Leaders Group of WEC, in 2010 the WEC Romanian National Committee initiated and has been coordinating ever since **the Future Energy Leaders Programme in Romania – FELPR**, being committed to give full support to the Romanian young energy professionals, such as they may take advantage of the great opportunities lying before them and become the future energy leaders of tomorrow. Being aware that the young people of today are the future energy leaders of tomorrow, the WEC Romanian Member Committee recognizes the importance of attracting, integrating and keeping the Romanian energy youth in its structures and encourages them to develop their capabilities and skills, promote their achievements, enable their participation in WEC Romania's decisional process on topical issues and also supports them in

interacting with the FEL members in the world energy community. The activities developed under Romanian FEL Programme (workshops, studies, position papers, articles and papers written by young energy professionals for reviews and newspapers, technical visits, formal and informal meetings between them and the energy seniors or between them and the top executives of the WEC Romanian Board) represent several success stories and prove that the energy sector will be in good hands in the future.



(Photo FEL Romania meeting with WEC Romanian MC executives February, 2014)

European Center of Excellence in Gas from Gas-making Clays - CENTGAZ

Located in the core of national concerns on ensuring and using energy sources and based on the efforts of sustainable development of energy-environment field, the Romanian National Committee of the World Energy Council has set up a **"Center of Excellence in Gas from Shale Gas-CENTGAZ"**. Admitting that exploitation of natural gas from nonconventional ores will significantly contribute to minimizing Romania's dependence on imported gas with good social and economic impacts, while also observing the European legislation on environmental protection in the field, CENTGAZ is a new and challenging project created to provide a better understanding of the potential of gas-making clays and gas exploration status in Romania versus the European background. CENTGAZ is made up of the best experts with national and international recognition, representatives of academia, prestigious technical specialists with significant practical and scientific experience, in areas such as geology, mineralogy and petrography, geology, petroleum geophysics, technology and equipment, environmental protection and has a permanent dialogue with local and governmental representatives and with the public through the studies it carries on and the activities it develops.

Mesagerul Energetic - Energy Messenger

"Mesagerul Energetic" is the monthly published bulletin of WEC Romanian National Committee, issued in 500 copies and sent free of charge to all its members, governmental authorities, academia, universities, R&D institutes etc. Comprising about 50-60 pages, the bulletin presents the latest news in the Romanian and foreign power industry, and the most important events developed by WEC Romanian MC.

Awards and medals

At the end of each year, awards and medals are offered by the Romanian National Committee of WEC to the most prominent personalities in the Romanian power industry, for the most representative papers and reports presented at conferences and symposia and for the youth activities within FELPR.

Annual Report

Starting with 2012, the WEC Romanian National Committee has been publishing its Annual Report revealing with the most significant achievements of the Committee.

Over its 90 years of existence, the Romanian National Committee of the World Energy Council (RNC-WEC) has become a solid and well structured organisation, a strong and prestigious voice in the Romanian energy community, enjoying a wide national and international recognition.

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Photos from the activity of the WEC Romanian National Committee





WEC ROMANIAN NATIONAL COMMITTEE LOOKS AHEAD WITH CONFIDENCE

All the technical and scientific activities of the Romanian National Committee of the World Energy Council over these 90 years could be accomplished thanks to the visionary thoughts of our forerunners, to the active involvement of our collective and individual members, to the support offered by the Romanian top executives, to the good cooperation with WEC London Office, WEC Members Committees and with the national and international professional associations in the field.

Energy issues should be now more sensibly addressed than ever and strengthening a further cooperation among the countries is a prerequisite. Only thus, subjects like the development of new and smart technologies towards ensuring energy security of supply, environmental sustainability and energy equity can be successfully met.

The Romanian National Committee of the World Energy Council is committed to further on play the role of a realistic and reliable collaboration organisation for its collective and individual members, its partners and governmental and local authorities, as well as for the Romanian NGOs in the field. It will strengthen its role in promoting the best policies and strategies in a fair and equidistant way and will keep on facilitating the dialogue among representatives of Romanian energy industry for shaping a sustainable future in the energy field, by promoting the sustainable energy development and the efficient use of all forms of energy to the benefit of all. Attracting the young energy professionals in its structures is a must for the WEC Romanian National Committee, such as they may take advantage of the great opportunities lying before them and become the future energy leaders of tomorrow.



(Photo: Future Energy Leaders of WEC Romania at the WEC Daegu Congress, October 2013)

THE PHOENIX BIRD – WEC ROMANIAN NATIONAL COMMITTEE

*by Elena Ratcu, Adviser to the WEC Romanian MC
Manager of WEC FEL Romania*

January, 2011

*It is January, 28, 2011. I am attending the General Assembly meeting of the WEC Romanian National Committee. Mr. **Iulian Iancu**, Chair of the Romanian Committee has just ended his Report of the Board for 2010. Now he is awarding WEC Romania's diplomas and medals to the nominated Honorary Members of the Committee. One of them, Mr. **Vasile Rugină**,*

director at ICEMENERG has just received the diploma and medal and takes the floor. He seems to be very excited while evoking old memories.

*For almost 10 years Mr. Rugină had been one of the former Secretaries General of the WEC Romania. However he does not mention this. He also says nothing about the accomplishments he achieved during his mandate of Secretary General. While he is speaking, I recall the date when Mr. Rugină he took over this position from the former Secretary General, Mr. **Jean Constantinescu** in 1997. At that time WEC Romania had been already known worldwide given the intense activity of the Committee and thanks its members involvement in World Energy Council programs and management structures. The level of the WEC Romanian MC involvement in WEC's activities had been already raised very high by his predecessor and Mr Rugină had to keep it as high. He had successfully managed to do it. However, from too much modesty he did not mention any of these things while he is speaking now. Instead, he mentions the people he had collaborated with in those ten years.*

Much to my surprise, he has just pronounced my name. Mr. Rugină is speaking of the beautiful years we worked together. I had been working with the WEC Romanian Secretariat from the very beginning of my career and I had a beautiful collaboration with Mr. Vasile Rugină, likewise with all the executives of the WEC Romanian National Committee along the years. Mr. Rugină has ended his address thanked the Chair and audience and sat down.

Suddenly my thoughts are flying 21 years ago.....

Summer, 1990

.....It was mid 1990. The Romanian anticommunist revolution had already taken place in December 1989 and the communist regime had fallen. All of us were living euphoric moments and were strongly marked by the new, so unexpected and bewildering feeling, not yet enough digested, of the freedom we had won and paid with too much blood shed. The public opinion abroad was most favourable to us and all the countries were conveying us greetings, congratulations and encouraging messages. Having lived so many years in the black communist years, we were gradually learning what democracy meant. We wished fervently to have all the democratic rights we had been deprived from for about 50 decades.

The boss of the Department I worked with had retired and, through the vote of my colleagues, I was elected as the head of International Relations Department within ICEMENERG (Energy Research and Modernizing Institute). In the early '90s, a general euphoria prevailed in all institutes, companies, schools: people were electing their chiefs, chiefs elected their directors who on their turn elected ministers and students chose their teachers. It was like a total madness!

I was as happy as everybody else in Romania of those times. However I was feeling a regret: in 1987, the Romanian National Committee of World Energy Council had been excluded from the World Energy Council structures. Due to the then financial restrictions, a State Decree issued in 1986 on the orders of the then Romanian communist leader, Nicolae Ceausescu, forbade ministries and institutes to be affiliated to international professional bodies and organizations to which annual subscriptions or fees had to be paid in foreign currency. Therefore, the WEC Romanian National Committee could not afford anymore to pay its annual membership subscriptions to the World Energy Council and Romania was excluded from the organization.

*Romania is one of the founding states of the World Energy Council, set up in London in 1924. By tradition, the Ministry of Electric Energy held Chairmanship of the WEC Romanian National Chairman and therefore, the Romanian Minister of Energy was nominated as WEC Romania's Chair, while and the general manager of ICEMENERG was by tradition nominated as the Secretary General of WEC Romania. Thus, Mr. **Călin Mihăileanu** who had been director general of ICEMENERG for 30 years, had also been the Secretary General of the WEC Romania's Committee for the same period of time. After his retirement, the new general manager of ICEMENERG became obviously the Secretary General of WEC Romania. Under the coordination of Mr. Mihăileanu, the Romanian Committee of WEC had an extremely dynamic activity and participated in several studies jointly developed with WEC, in all meetings of WEC committees and study groups abroad.*



(Photo: WEC Oil Substitution Task Force meeting, Bucharest, 1986- E. Ruttlely, E. Ratcu, T.Cocarla. Source: WEC Romanian MC)

One of the greatest events, was The 8th World Energy Conference which was organized and hosted in Bucharest –Romania in 1971, followed by several other important international meetings of WEC working groups and study committees, among which WEC's "Oil Substitution Task Force", organized in Bucharest in 1986, under the coordination of Călin Mihăileanu, with the participation of several representatives of WEC Member Committtes in Europe, headed by Mr. Eric Ruttlely, Secretary General of WEC and the Romanian Minister for Energy, Mr. Trandafir Cocârlă .

Even from the very begining of my professional career at ICEMENERG, in 1975, I was actively involved in WEC Romania's activity, being in charge with its Technical Secretariat. I can say that WEC Romanian MC is one of my dearest children.

I recall with pleasure all those interesting and useful activities developed by the Romanian National Committee which placed Romania among the active countries within the World Energy Council.

Unfortunately, all of them had fallen into obscurity in 1986, when all activities developed within international organizations and profesional associations were suddenly and brutally forbidden by the then communist leader Nicolae Ceausescu.

In 1990, when Romania had gained our right to democracy, I was willing to resume our work under WEC Romanian National Committee and reintegrate the Romanian Committee into WEC structures.

*Therefore, I proposed Mr. Mihăileanu who, although retired, was still a member of the Bord of the Directors of the newly established RENEL (successor to the former Ministry of Electricity), to send a letter to the then Secretary General of the World Energy Council, Mr. **Ian Lindsey**, on behalf of Professor **Aureliu Leca**, President of RENEL to explain the new conditions of freedom and democracy won by Romania in 1990 and our desire to reintegrate the Romanian National Committee into WEC structures.*

Mr. Mihăileanu was very doubtful on the success of such an attempt and, with his unforgettable tone phrasing, told me:

- Ella, dear, your idea of sending a letter to WEC London in order to reintgrate WEC Romania into WEC structures and your enthusiasm are to be really appreciated. I would not like you to meet some disilusions, but, honestly, I can hardly believe we can be successful in such an attempt, my dear.

Being a bit disappointed hearing his opinion, I asked him:

- Why, Mr. Mihaileanu? I cannot understand you at all! Now, when so many Western countries have sent us their symtpathy messages, when all press agencies from abroad are writing so beautifully about Romania, when finally we are free to express our opinions, why not make at least an attempt?

I really could not understand why he did not share my enthusiasm. At last, after thinking a bit, he told me:

- Well, dear, you have convinced me. But tell me, how do you think we can manage to do it?

- Simply, I answered him quickly. We shall send a beautiful and explanatory letter to Mr. Ian Lindsey, telling him the new political and social situation of Romania after the 1989 anticommunist Revolution and I am pretty sure we shall manage to convince him to reintegrate the Romanian National Committee within WEC structures, I said enthusiastically. It seemed so easy to me....

- And who will sign the letter?

- The President of RENEL, of course, I answered.

Well, the problem was that I did not know the President at all, and I had no idea on how he would react to such a proposal. However I did not give in.

Mr. Mihăileanu gave me a free hand in acting, promising me his support in case I would face any difficulties

The next issue to solve, was to ask for a meeting with the RENEL's president, explain him what it was about and try to convince him. Fortunately, president Aureliu Leca who was a clever and very open-minded person, immediately understood the cause we were fighting for and the importance of Romanian Committee's reintegration to WEC structures. Therefore, he signed the letter addressed to Mr. Lindsey and wished us good luck.

The answer from WEC London came soon. Mr Lindsey said in his letter something like that: "The World Energy Council congratulates Romania for having won freedom and democracy and would be most happy to accept Romania's reintegration in WEC structures, on the condition of its paying the three years arrears and all the dues for the current year, according to the rules in WEC's Statute".

The amount to pay was not small at all: 24,000 GBP. In our enthusiasm, none of us thought about this! However, I was not discouraged and I was confident that I would find a solution anyway.

As the Romanian National Committee had no legal personality, all financial contributions in foreign currency to WEC London Office had been always paid by the former Ministry of Electric Energy, which, after the Romanian revolution became RENEL (Romanian Electricity Authority). Now, the big problem which arose, was to convince RENEL's Board of Directors to agree to pay such a big amount of money, Romania being scarce of foreign currency in those years.

Me, together with the then director general of ICEMENERG who held WEC Romania's Secretariat, with Mr. Calin Mihăileanu and Mr. Aureliu Leca took all necessary steps to persuade RENEL's Board of Directors to agree with the payments of the due arrears for four years. Meanwhile, we had an intense exchange of letters with Mr. Ian Lindsey explaining him what it was about. Finally, thanks to the support offered by RENEL's Board, we managed to pay the outstanding fees and to reintegrate the Romanian National Committee into the World Energy Council structures.

In the 1991 WEC Executive Assembly at Budapest-Hungary, Mr. Ian Lindsey officially announced the decision of reintegrating the Romanian National Committee into WEC structures. Mr. Aureliu Leca, who was present in the

meeting, was most pleased to receive Mr. Lindsey's congratulations and also the greetings of all the other WEC MCs present in that meeting

We could not believe! We did it! We had managed to win the fight and the victory was so sweet!

Therefore, early in 1991, once with reintegration within the World Energy Council, the Romanian National Committee reborn from its own ashes, like the Phoenix Bird.

1991-1997

*Starting with 1991, the WEC Romanian MC began functioning as before and was chaired for 14 years by Mr. Aureliu Leca. Over this period, the Secretaries General of WEC Romanian MC were on turn, Messrs. **Radu Enache, Jean Constantinescu and Vasile Rugină**. The first visit of Mr. Ian Lindsey in Romania took place in 1992. In response to the invitation conveyed by Professor Aureliu Leca, Ian Lindsay participated in the first National Energy Conference which took place in Neptun-Romania, as a homage brought to the WEC Romanian Committee for the effort of reintegrating in WEC structures and for the activities developed by our Committee.*

There followed beautiful years with many achievements. In 1994, in conjunction with the National Energy Conference and under the coordination of Mr. Klaus Brendow and Jean Constantinescu, the then Secretary General of WEC Romania, we organized the first Regional Forum of WEC. The event took place under the patronage of the WEC, enjoyed the participation of representatives from 15 WEC Member Committees and proved to be a success.

1996-1997

RENEL made great efforts to pay the annual subscription to WEC London. We were afraid not to be again excluded from the WEC. Therefore, we had to find another solution for paying our fees by our own efforts. The only viable solution was that the WEC Romanian MC may turn into an association with legal personality, able to live through the subscriptions of its own members. Together with Mr. Jean Constantinescu, the then Secretary General of the Committee, we made all necessary endeavours to register WEC as a non-profit and non governmental organization (NGO). In 1996 it was not as easy in Romania to set up a NGO and public notaries were very few. However, we finally managed to find a good notary who explained us every step to follow in order to register the association as a legal personality entity. We

set up an initiative group of experts who became the founding members of the WEC Romanian National Committee and together with them we elaborated the Statute of the Association, following the model of the Statute and Rules of Operation of the World Energy Council. In 1997, the WEC Romanian National Committee became an independent association capable to pay its the fees to WEC London from its own financial sources. Another effort, another success story of the WEC Romanian National Committee!

2000-2011

In 2000, further to the unbundling process of the Romanian Electricity Sector and the separation of electricity generation, distribution, transmission and dispatching as independent activities, the restructuring of RENEL /CONEL took place and Transelectrica was set up as the Romanian Transmission and System Operator. I chose to develop my activity in Transelectrica, as Director for Communication and International Relations. As my activities in Transelectrica absorbed me completely, I realized that I could no more have time to get involved in WEC Romania's activities. I did love to run WEC Romania's Technical Secretariat from 1980 to 2000.

*In the year 2000, the leadership of WEC Romania's Executive Seretariate was taken over by Mr. **Gheorge Bălan**, who is now the Executive General Director of WEC Romanian National Committee. With great determination, professionalism and dedication, Mr. Bălan has developed the Committee to an unimaginable in level.*

*In 2004, Mr. **Iulian Iancu** was elected as the new Chair of the Romanian Committee and he is still having this position*

Therefore the Phoenix bird has not only reborn from its own ashes, but it has grown up and developed extremely beautifully and successfully.

*
* *

And here I am in February 2011, at WEC Romania's General Aseembly recalling old stories. WEC Romanian National Committee is a really success stories and I do love it and its peiple who are in a way part of my family.

*
* *

"FROM THE HISTORY OF THE WORLD ENERGY COUNCIL"

Excerpts from the book written by Marcel Croitoru

Thanks to the book written by the Romanian engineer Marcel Croitoru "From the history of the World Energy Council", based on the information gathered

from WEC's website and published in Romanian in 2006 by AGIR Publishing House -with a foreword from its director, dr. Ion Ganea, some excerpts from the book will be presented below: "WEC concerns cover a wide range of subjects of all forms of energy (coal, oil, natural gas, electricity, hydraulic energy, nuclear energy and all renewable sources of energy). All these subjects are approached by deeply analysing energy efficiency, energy conservation, electricity markets restructuring, financing energy systems, energy tariffs etc. Aspecial attention is also paid to the lack of energy in poor or developing countries, to the latest technologies, norms and standards in the field. WEC regularly draws up reports, reviews, case studies, strategies, outlooks and forecasts on medium and long-run term, striving to influence the main political decisions at global level, elaborate reasonable conclusions and recommendations from the political and strategic standpoint. The outcomes of WEC activities represent useful information to the decision makers and business people in adopting decisions on energy sector forecasts. In 1978 a special Commission of the WEC published the report **„World Energy: Looking Ahead to 2020”**, a comprehensive analysis of the world energy in market economy countries, centrally planned countries and developing countries. This document represented a valuable starting point for several other reports, studies and activities further on elaborated by WEC. In 1989 the report **„Global Energy Perspectives 2000-2020”** was published by the WEC, which marked an important consensus on two global energy scenarios, a moderate and a more conservative one. The report was world-wide disseminated and was really useful to many policy and decision-makers in their shaping the energy future. At the 1989 Montreal Congress, WEC decided to draw up another new ambitious study **„Energy for Tomorrow's World -Acting Now”**, drawn up and published in 1993 by the effort of a team of high-level energy specialists from five Member Committees. The new study would serve as the main focus and underpinning for the 1992 Congress in Madrid. The report enjoyed a great success and was issued in 20,000 copies and distributed to all WEC members, decision makers, government, mass-media. WEC Romanian National Committee translated the report into Romanian language, published it into 1000 copies and disseminated it to all top executives in Romanian Power Industry, government representatives, academia R&D institutes etc. Speaking of the organisation of the WEC, Mr. Croitoru says: „The main leading body of the WEC is the Executive Assembly (EA), made up of representatives of the WEC National Member Committees. The EA is chaired by a Chair, five vice-chairs and four honorary chairs. Each World Energy Congress elects one chair of WEC, who takes over his function at the closure of the respective congress. There are also elected seven Honorary Chairs. The current activity is coordinated by a Secretary General. In- between 1928-1965 the position of WEC Secretary general was held for over 40 years by Charles Gray. The next Secretary General was Eric Ruttley for 20 years. In 1986 followed Ian Lindsay since 1997 when Gerald Doucet took over the position of Secretary General. The present Secretary General of the WEC is Mr. Christoph Frei. The permanent bodies of WEC are made up of a Deputy Secretary General,

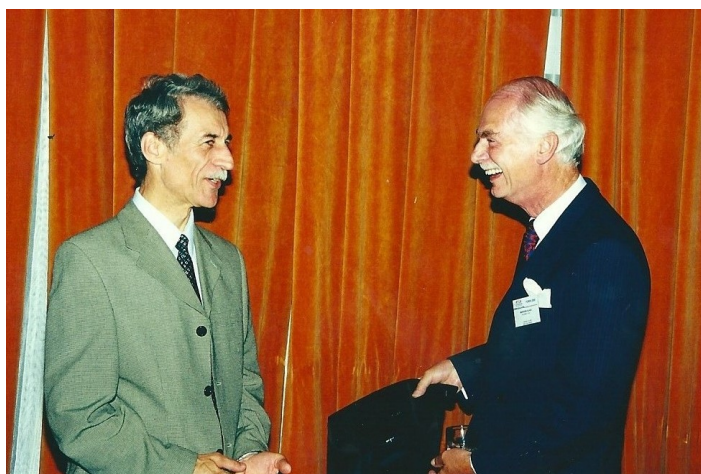
four regional coordinators (for Asia, Central and Eastern Europe, Africa and latin America-Caraibe) and three Permanent Committees (administrative, programmes and studies) with 11-16 members each, led by a Chair, two vice-chairs and two secretaries. Within WEC there also function ad-hoc committees, technical commissions, working and study groups. The Executive Assembly meets annually in each country on turn, and consists of discussions, meetings, technical visits, exhibition and a special day dedicated to the energy industry of the hosting country. The technical commissions, working and study groups meet periodically and draw up studies, statistics, technical programmes and reports, some of them to be published. Various events (simposia, regional fora and meeting in various countries) are organized by WEC or under the WEC umbrella).

In 1998 the **Global Energy Information System (GEIS)** was carried out by the WEC, which proved to be of an enormous help to WEC community, both as a useful interactive communication network among WEC Member Committees and as a means of better promoting Wec's activities and members at a global level.

At present the World Energy Council is mainly focused on the priority issues depicted during its congresses and is recognized as the main non-governmental and non-commercial. Organization having 92 national member committees, among whom governments, businesses and expert organisations. The World Energy Congress held over 20 times since the WEC's foundation and is recognised as the world's premier energy organisation .

The WEC continues to grow and expand, building on its long and stable history as one of the key players on the global energy scene. The World Energy Council (WEC) is the principal impartial network of leaders and practitioners promoting an affordable, stable and environmentally sensitive energy system for the greatest benefit of all. WEC is the UN-accredited global energy body, representing the entire energy spectrum, with more than 3000 member organisations located in over 90 countries and drawn from governments, private and state corporations, academia, NGOs and energy-related stakeholders. WEC informs global, regional and national energy strategies by hosting high-level events, publishing authoritative studies, and working through its extensive member network to facilitate the world's energy policy dialogue.

Photos from the activity of the WEC Romanian National Committee







APPENDIX 1

Founding members of the World Power Conference, London 1924 (source *World Energy Council*)

1. Australia
2. Austria
3. Belgium
4. British Guyana
5. Canada
6. Chile
7. China
8. Colombia
9. Czechoslovakia
10. Denmark
11. Dutch East Indies
12. Finland
13. France
14. Germany
15. Gold Coast
16. Great Britain
17. Greece
18. Hungary
19. India
20. Ireland
21. Italy
22. Japan
23. Kenya
24. Latvia
25. Luxemburg
26. Mexico
27. Netherlands
28. New Zealand
29. Norway
30. Nyasaland
31. Peru
32. Poland
33. Romania
34. South Africa
35. Southern Rhodesia
36. Soviet Union
37. Spain
38. Sweden
39. Switzerland
40. United States of America
41. Yugoslavia

APPENDIX 2**Member Committees of the World Energy Council (2013) (Source: World Energy Council)**

- | | |
|---------------------------------|---------------------------|
| 1. Albania | 47. Lebanon |
| 2. Algeria | 48. Libya |
| 3. Argentina | 49. Lithuania |
| 4. Austria | 50. Luxembourg |
| 5. Bahrain | 51. Macedonia (Republic) |
| 6. Belgium | 52. Mexico |
| 7. Bolivia | 53. Monaco |
| 8. Botswana | 54. Morocco |
| 9. Brazil | 55. Namibia |
| 10. Bulgaria | 56. Nepal |
| 11. Cameroon | 57. Netherlands |
| 12. Canada | 58. New Zealand |
| 13. Chad | 59. Niger |
| 14. China | 60. Nigeria |
| 15. Colombia | 61. Pakistan |
| 16. Congo (Democratic Republic) | 62. Paraguay |
| 17. Cote d'Ivoire | 63. Peru |
| 18. Croatia | 64. Philippines |
| 19. Cyprus | 65. Poland |
| 20. Czech Republic | 66. Qatar |
| 21. Denmark | 67. Romania |
| 22. Egypt (Arab Republic) | 68. Russian Federation |
| 23. Estonia | 69. Saudi Arabia |
| 24. Ethiopia | 70. Senegal |
| 25. Finland | 71. Serbia |
| 26. France | 72. Slovakia |
| 27. Gabon | 73. Slovenia |
| 28. Germany | 74. South Africa |
| 29. Ghana | 75. Spain |
| 30. Greece | 76. Sri Lanka |
| 31. Hong Kong, China | 77. Swaziland |
| 32. Hungary | 78. Sweden |
| 33. Iceland | 79. Switzerland |
| 34. India | 80. Syria (Arab Republic) |
| 35. Indonesia | 81. Taiwan, China |
| 36. Iran (Islamic Republic) | 82. Tanzania |
| 37. Ireland | 83. Thailand |
| 38. Israel | 84. Trinidad & Tobago |
| 39. Italy | 85. Tunisia |
| 40. Japan | 86. Turkey |
| 41. Jordan | 87. Ukraine |
| 42. Kazakhstan | 88. United Arab Emirates |
| 43. Kenya | 89. United Kingdom |
| 44. Korea (Republic) | 90. United States |
| 45. Kuwait | 91. Uruguay |
| 46. Latvia | 92. Zimbabwe |

APPENDIX 3

Conferences and Congresses of World Power Conference and World Energy Council (Source: World Energy Council, 2013)

<i>The 1st World Power Conference</i>	<i>London, 1924</i>	<i>„The Resources of the World in Power and Fuel and their use of the Greatest Possible Advantage”</i>
<i>The 2nd World Power Conference</i>	<i>Berlin, 1930</i>	<i>„The Power Problem from Every Point of View”</i>
<i>The 3rd World Power Conference</i>	<i>Washington 1938</i>	<i>„The National Power Economy”</i>
<i>The 4th World Power Conference</i>	<i>London, 1950</i>	<i>„World Energy Resources and the Production of Power”</i>
<i>The 5th World Power Conference</i>	<i>Vienna, 1956</i>	<i>„World Energy Resources in the Light of Recent Technical and Economic Developments”</i>
<i>The 6th World Power Conference</i>	<i>Melbourne, 1962</i>	<i>„The Changing Pattern of Power”</i>
<i>The 7th World Energy Conference</i>	<i>Moscow, 1968</i>	<i>„The World’s Resources of Energy and their Utilisation to the Profit of Mankind”.</i>
<i>The 8th World Energy Conference</i>	<i>Bucharest, 1971</i>	<i>„Improving the Utilisation of Energy, with Special Reference to Complex Uses”</i>
<i>The 9th World Energy Conference</i>	<i>Detroit, 1974</i>	<i>„The Economic and Environmental Challenges of Future Energy Requirements”</i>
<i>The 10th World Energy Conference</i>	<i>Istanbul, 1977</i>	<i>„Energy Resources, Availability and Rational Use”</i>
<i>The 11th World Energy Conference</i>	<i>Munich, 1980</i>	<i>„Energy for our World: Energy, Society, Environment”</i>
<i>The 12th Congress of the World Energy Conference</i>	<i>New Delhi, 1983</i>	<i>„Energy Development, Quality of Life”.</i>
<i>The 13th Congress of the World Energy Conference</i>	<i>Cannes, 1986</i>	<i>„Energy Needs and Expectations”</i>
<i>The 14th Congress of the World Energy Conference</i>	<i>Montreal, 1989</i>	<i>„Energy for Tomorrow”</i>
<i>The 15th Congress of the World Energy Conference,</i>	<i>Madrid, 1992</i>	<i>„Energy and Life”</i>
<i>The 16th Congress of the World Energy Council</i>	<i>Tokyo, 1995</i>	<i>„Energy for our Common World – What will the FutureAsk for US?”</i>
<i>The 17th Congress of the World Energy Council</i>	<i>Houston, 1998</i>	<i>„Energy and Technology: Sustaining World Development into the Next Milenium”</i>
<i>The 18th Congress of the World Energy Council</i>	<i>Buenos Aires, 2001</i>	<i>„Energy Markets The Challenges of the New Millenium”</i>
<i>The 19th Congress of the World Energy Council</i>	<i>Sydney, 2004</i>	<i>„Delivering Sustainability: Challenges and Opportunities for the Energy Industry”</i>
<i>The 20th Congress of the World Energy Council'</i>	<i>Rome, 2007</i>	<i>„The Energy Future in an Interdependent World”</i>
<i>The 21st Congress of the World Energy Council</i>	<i>Montreal, 2010</i>	<i>„Responding now to Global Challenges – Energy in Transition for a Living Planet”</i>
<i>The 22nd Congress of the World Energy Council</i>	<i>Daegu-Koreea, 2013</i>	<i>„Securing Tomorrow's Energy Today”</i>



(WEC Congresses Chart - Surce : World Energy Council)

Acknowledgement

The authors of this Executive Summary of the WEC Romanian MC's Monograph, drawn up to mark the celebration of 90 years of the Romanian National Committee membership within the World Energy Council, are most pleased to extend their thanks to dr. Gheorghe Balan, director general executive of the WEC Romanian National Committee and to the WEC Romanian MC's staff for the support in writing the book.

We gathered our information in writing this booklet from the documents issued by the World Energy Council (web page, history, annual reports) and from the documents existing in the library of the Romanian National Committee of the World Energy Council.

May it happen that any information needs be updated, we shall have to be notified and will be pleased to make the necessary ammendments.

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