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## Economic Commission for Europe

### Committee on Sustainable Energy

#### Nineteenth session

Geneva, 24-26 November 2010

### Report of the Committee on Sustainable Energy on its nineteenth session

#### Contents

	<i>Paragraphs</i>	<i>Page</i>
I. Attendance.....	1–9	3
II. Adoption of the agenda (agenda item 1) .....	10	4
III. Election of officers (agenda item 2) .....	11	4
IV. Energy Security Dialogue: energy security and gas infrastructure (agenda item 3).....	12–17	4
V. Cooperation and coordination with other intergovernmental and non-governmental organizations (agenda item 4) .....	18	6
VI. Review of activities of the Subsidiary Bodies of the Committee (agenda item 5) ..	19–21	6
A. Working Party on Gas .....	22	7
B. Gas Centre .....	23	7
C. Steering Committee of the Energy Efficiency 21 Programme.....	24	8
D. Expert Group on Resource Classification .....	25	8
E. Group of Experts on Coal Mine Methane.....	26	10
F. Group of Experts on Cleaner Electricity Production from Coal And Other Fossil Fuels .....	27	10
VII. UNECE Regional Advisory Services Programme in the field of energy (agenda item 6)	28–29	11

VIII.	Cooperation and coordination with other sectoral committees of the Commission (agenda item 7) .....	30–31	11
IX.	Programme of work in the field of energy for 2011–2012 (agenda item 8) .....	32–36	12
X.	Other business (agenda item 9) .....	37	12
XI.	Adoption of the report of the meeting (agenda item 10) .....	38	12
Annex			
	Revised calendar of meeting of the Committee on Sustainable Energy and its implementing bodies in 2011 .....		13

## I. Attendance

1. The nineteenth session of the Committee on Sustainable Energy was held from 24 to 26 November 2010 with the participation of 130 representatives from the following 33 ECE member States: Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Canada, Croatia, Cyprus, Czech Republic, Estonia, France, Germany, Greece, Hungary, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine, United Kingdom of Great Britain and Northern Ireland, United States of America and Uzbekistan. A representative of Japan also participated.
2. Representatives of the United Nations Conference on Trade and Development (UNCTAD), United Nations Department of Economic and Social Affairs (UNDESA), International Atomic Energy Agency (IAEA), International Labour Office (ILO), International Sustainable Energy Development Centre (ISED), took part. Representative of the European Commission also participated.
3. The following intergovernmental and non-governmental organizations were in attendance: American Clean Skies Foundation, Atlantic Council, Energy Charter Secretariat, Energy Community Secretariat, International Energy Agency (IEA), International Emission Trading Association (IETA), International Sustainable Energy Organization (ISEO), Moscow International Petroleum Club, Organization for Security and Cooperation in Europe (OSCE), Regional Cooperation Council (RCC), World Energy Council (WEC) and World Trade Institute (WTI).
4. The Chairperson of the Committee for 2009–2010, Mr. Jean-Christophe Füg, opened the meeting, reminding the participants of the recent and positive development with respect to the supply of natural gas, but also of the challenges of managing well the ensuing change. This must be done in a period of financial instability. Gas resources and production management, market liberalization, protection of transnational investment and energy flows, and development of the electric grid to accommodate more and cleaner electricity are part of this challenge and therefore forms the background for the UNECE Energy week 2010.
5. The Executive Secretary, Mr. Jan Kubis, introduced the first day session on energy security and gas infrastructure paying particular attention to the potential role of unconventional gas in the UNECE region and to the primary role of agreements and institutional arrangements to enhance international energy security cooperation. He stressed the important role of the Economic Commission for Europe (ECE) in facilitating such cooperation, also beyond the ECE region.
6. The Executive Secretary expressed the hope for a progress in the energy security dialogue and for an even stronger commitment of major stakeholders towards international energy cooperation, with a clear guidance on further directions of UNECE work in the field of energy.
7. The Committee on Sustainable Energy focussed its energy security dialogue on gas resources and international energy cooperation with presentations from government officials, executives and strategic planners from major energy companies involved in gas resources and infrastructure, including unconventional gas resources. The discussion covered also issues of a possible development of new or modified agreements and institutional arrangements for international energy cooperation and the role of the Committee in the UNECE and the UN system in contributing to a more stable international cooperation to secure affordable and sustainable energy.
8. The Committee reviewed the cooperation and coordination with other relevant international organizations, the review of activities of the subsidiary bodies of the

Committee, the cooperation and coordination with other sectoral committees of the Commission, the regional advisory services programme in the field of energy, the programme of work in the field of energy for 2011–2012 and the assessment of the programme performance of the sustainable energy sub-programme.

9. The work of the Committee was also presented on 26 November 2010 by the Chairman to the Executive Committee on the implementation of the sustainable energy programme of work for the past twelve months and major planned activities for the forthcoming twelve months. Decisions on matters related to the Committee on Sustainable Energy will be presented for endorsement to the Executive Committee on 4 March 2010 (ECE/EX/2011/L.7).

## **II. Adoption of the agenda (agenda item 1)**

*Documentation: ECE/ENERGY/83*

10. The agenda was adopted without modification.

## **III. Election of officers (agenda item 2)**

11. The elected officers were as follows: Chairperson: Mr. Sigurd Heiberg (Norway); Vice-Chairpersons: Mr. Renaud Abord-de-Chatillon (France), Mr. Jean-Christophe Füeg (Switzerland), Mr. Sergio Garribba (Italy), Mr. Yagshygeldi Kakayev (Turkmenistan), Ms. Barbara McKee (United States of America), Mr. Laszlo Molnar (Hungary), Mr. Evgeniy Nadezhdin (Russian Federation) and Mr. Nick Otter (United Kingdom).

## **IV. Energy security dialogue: energy security and gas infrastructure (agenda items 3, 5(a))**

*Documentation: ECE/ENERGY/80*

12. A special session on “Energy Security and Gas Infrastructure” examined the prospects of gas resources and infrastructure, including unconventional gas resources.

13. The session brought together key experts from Governments, energy industries, the financial community and relevant international organizations. Executives from major energy companies, such as Gazprom, Eni S.p.A. and Statoil ASA actively participated in the dialogue.

14. Delegations of Turkmenistan and the Russian Federation presented their proposals on developing a new legal mechanism on stable and reliable transit of energy resources and on enhancing international energy security.

15. The Chairman of the Energy Charter Strategy Group provided an overview of the Energy Charter Treaty and of the road map for the modernization of the Energy Charter process.

16. The Committee *concluded* that:

(a) The uncertainty on demand recovery and infrastructure investments due to the continuation of the financial and economic crisis affects the energy security in the region;

(b) The energy sector investments are closely related to the gas infrastructure development and to the role of gas in the energy mix;

(c) Gas demand is forecasted to increase in the long-term. It may take time to absorb swelling global gas supplies, that are due largely to the rapid development of North American shale gas and to liquefied natural gas production elsewhere;

(d) Natural gas is necessary for securing affordable and sustainable energy in the region as no other known energy resource can provide flexible load on the scale required at comparable cost. The environmental impact is low relative to other fossil fuels;

(e) In Europe, the development of unconventional gas is uncertain in the short and medium-term. Comparable resources have not been confirmed. If they are, environmental and legal issues (e.g. property rights) would need to be solved before a development similar to that in North America can take place;

(f) The deployment of gas at scale will enhance the value of intermittent energy such as wind and solar and of capital intensive energy sources such as electricity from coal with CCS and from nuclear facilities by being able to modulate supplies to match variations in demand at moderate costs;

(g) Renewable energy capacity will continue to grow, but it will take time. Considerable private and public investments need to be realized;

(h) Self-financing energy efficiency improvements can be achieved and need to be promoted to raise economic productivity, diminish fuel poverty, improve energy security, reduce environment pollution and mitigate climate change;

(i) In order to increase energy security and affordable energy supplies:

(i) Energy flows from source to consumer must be reliable;

(ii) The value of energy resources at the source must be sufficient to justify investments in the long term recovery and/or capture of economically marginal quantities;

(iii) The cost of risks associated with uncertainties in energy flows and return on investments must be as low as possible.

(j) In this increasing complexity of energy markets, energy companies have pursued corporate strategies to strengthen dialogue and cooperation with governments, intergovernmental processes and international organizations;

(k) International cooperation for producer, consumer and transit countries is a key element to ensure international energy security, stabilizing the transit of energy and implementing new processes for a more stable international cooperation system on energy;

(l) A relevant further step has been achieved through the Energy Security Dialogue with the accomplishment of specific commitments involving major stakeholders.

17. On the basis of the discussions, the Committee *recommended* that:

(a) Government delegations and international organizations continue jointly to organize the Energy Security Dialogue. Specific topics and modalities of organisation of the Energy Security Dialogue shall be determined by the Bureau of the Committee with the support of the Secretariat;

(b) The secretariat shall strengthen the cooperation with the other UN Regional Commissions and the UN system. In particular this should be done with UNDESA and through the UN-Energy process. Experience and best practice from the UNECE region should be conveyed to other regions of the world. This is instrumental to the commitments to reduce energy intensity and improve energy security through global processes;

(c) Government delegations, energy industry, financial sector and international organizations that have participated in the Delphi study on the assessment of perceptions of energy security risks and in the Analysis of how sustainable energy policies can enhance security continue with a comprehensive Energy Security Risks Perception Survey;

(d) The secretariat and the World Energy Council apply the developed energy vulnerability indicators to measure the vulnerability of ECE member States to energy crises and identify trends. The Energy Security Dialogue will be informed regularly;

(e) The secretariat, after having carried out a consultation of Member States, and in concertation with the Bureau, shall consider convening an informal intergovernmental group of experts, open to participation of UNECE and non-UNECE Member States and relevant international organizations, to study recent initiatives regarding the need for elaboration of new international legal mechanisms aimed at ensuring energy security, including through stable and reliable transit of energy materials and services, which would regulate in a mutually-beneficial way, rights and obligations of, and cooperation among the producer, consumer and transit countries. The group, if convened, in its deliberations may wish to take into account existing legal instruments such as the Energy Charter Treaty and relevant work carried out by other international organizations. Should a group be convened, its findings, including proposals on possible further steps could be presented to the Committee at its 20th Session.

## **V. Cooperation and coordination with other intergovernmental and non-governmental organizations (agenda item 4)**

*Documentation:* ECE/ENERGY/2009/2 and ECE/ENERGY/2010/5

18. The Committee was briefed on the activities of common interest on cooperation with other intergovernmental and non-governmental organizations, industry associations and the business community.

## **VI. Review of activities of the Subsidiary Bodies of the Committee (agenda item 5)**

*Documentation:* ECE/ENERGY/2010/1, ECE/ENERGY/WP.3/2010/2, ECE/ENERGY/WP.3/GE.5/2010/2, ECE/ENERGY/WP.4/2010/2, ECE/ENERGY/GE.3/2010.2, ECE/ENERGY/GE.4/2010/2 and ECE/ENERGY/GE.5/2010/4

19. The Committee requested the Secretariat that a recommendation be made to the Executive Committee of the UNECE to change the name of the Ad Hoc Group of Experts on Global Energy Efficiency 21 to the Group of Experts on Global Energy Efficiency 21, the Ad Hoc Group of Experts on Coal Mine Methane to the Group of Experts on Coal Mine Methane, the Ad Hoc Group of Experts on Cleaner Electricity Production from Coal and Other Fossil Fuels to the Group of Experts on Cleaner Electricity Production from Coal and Other Fossil Fuels, of the Ad Hoc Group of Experts on the Supply and Use of Gas to the Group of Experts on the Supply and Use of Gas.

20. The Committee endorsed the requests by the Group of Experts on Coal Mine Methane and the Group of Experts on Cleaner Electricity Production from Coal and other Fossil Fuels for the renewal of their mandates for a further two years.

21. The Committee received a succinct briefing on the activities and future programme of work of each of its subsidiary bodies:

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**A. Working Party on Gas (agenda item 5(b))**

22. The Committee:

(a) Took note with appreciation of the progress achieved in the implementation of the programme of work of the Working Party on Gas in 2009 and 2010 (ECE/ENERGY/WP.3/2010/2);

(b) Took note of the status of implementation of the ongoing studies carried by the Working Party on Gas: Update of its 1999 Study on underground gas storage (UGS) in Europe and Central Asia, Current state and prospects of liquefied natural gas (LNG) in the UNECE region, Impact of the liberalization of the natural gas markets on gas demand and prices in the UNECE region: gas saving to reduce natural gas demand and enhance energy security, Use of Gas in Transport and Development of Efficient Mechanisms of the Natural Gas Market Regulation in the UNECE Region;

(c) Requested the secretariat to accelerate the preparation of the liquefied natural gas (LNG) study with the view to present to the next session of the Working Party on Gas;

(d) Welcomed the contribution of a broad-based cooperation among the UNECE Governments and the energy companies in carrying out those five studies, which should together contribute to the better understanding of the energy security in the UNECE region and the ways to foster international cooperation in these key matters;

(e) Encouraged the Working Party on Gas to continue its efforts in gather all relevant gas market players for the UNECE region on its platform including the major hydrocarbon suppliers based outside of the UNECE region;

(f) Approved the programme of work of the Working Party for 2010–2013 (ECE/ENERGY/WP.3/2010/4);

(g) Approved that a recommendation be made to the Executive Committee of the UNECE to change the name of the Ad Hoc Group of Experts on the Supply and Use of Gas to the Group of Experts on the Supply and Use of Gas;

(h) Invited the secretariat to consider ways of mobilizing extra-budgetary resources to enable experts involved in the work of the Working Party on Gas to contribute more actively to its activities.

**B. Gas Centre (Agenda item 5(b))**

23. The Committee:

(a) Expressed its appreciation to the Work of the Gas Centre;

(b) Approved the programme of work of the Gas Centre which serves as a platform for discussions and exchange of information and experiences between natural gas companies where they share views on the development of natural gas market, its evolution towards a more integrated European gas market, and address other relevant issues such as: long term contracts, natural gas and climate change, liquefied natural gas development, trading and Transmission System Operators (TSOs) among others;

(c) Expressed the need to explore synergies between work of the Gas Centre and other relevant areas of work of Committee on Sustainable Energy;

(d) Emphasized the importance of broadening the outreach of the Gas Centre: to include more partners from the UNECE Region in particular CIS, as well as from other regions such as Middle East and North Africa;

(e) Expressed its appreciation to Member Companies of the Gas Centre which support the programme and its activities with funding and in-kind contributions.

### **C. Steering Committee of the Energy Efficiency 21 Programme (agenda item 5(c), 5(d))**

24. The Committee:

(a) Took note of the current status and progress achieved in implementation of the Energy Efficiency 21 Programme and of the sub-regional, country-oriented and inter-regional projects and interdivisional activities under the umbrella of the EE 21 Programme;

(b) Endorsed the decisions of the twenty-first session of the EE 21 Steering Committee;

(c) Noted with appreciation the results of the third year of operations of the Financing Energy Efficiency Investments for Climate Change Mitigation (FEEI) project;

(d) Welcomed identification by Conning Asset Management Limited – a Fund designer for the FEEI project, of a candidate lead investor and investment fund manager for the launch of the public-private partnership energy efficiency and renewable energy investment fund for the 12 countries of the project;

(e) Expressed appreciation to the National Participating Institutions and National Coordinators for their support in the implementation of the FEEI project activities, and in particular for implementation of activities under the Memoranda of Understanding with UNECE;

(f) Thanked the government of the Russian Federation for the financial support during three years of the following EE21 sub- projects: Increasing energy efficiency for secure energy supplies, Development of renewable energy sector in the Russian Federation and in countries of the Commonwealth of Independent States (CIS), and Global Energy Efficiency 21 (GEE21) on the cooperation between the United Nations Regional Commissions on Energy Efficiency for Climate Change Mitigation;

(g) Invited the government of the Russian Federation when considering further financial support to the UNECE activities in the field of energy to give priority to the GEE21 project, including cooperation in the field of renewable energy, as one of the key activities of the UN-Energy and an instrumental component in the UN approach to climate change mitigation and sustainable energy;

(h) Requested the secretariat to explore ways of enhancing the role of the GEE21 Project in coordinating work on energy efficiency carried out within the United Nations, inter alia through coordinating its work programme with the activities of the Energy Efficiency Cluster of UN-Energy and the International Partnership for Energy Efficiency Cooperation (IPEEC);

(i) Invited the Steering Committee of the EE 21 Programme to give due consideration to issues related to renewable energy sources.

### **D. Expert Group on Resource Classification (Agenda item 5(e))**

25. The Committee:

(a) Expressed appreciation to the Bureau and to members of the Expert Group on Resource Classification for their continuing activities in relation to implementation of ECOSOC Resolution 2004/233, which encourages Member States of the United Nations,

the United Nations regional commissions and international organizations to consider taking appropriate measures for ensuring worldwide application of the United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources (UNFC);

(b) Directed the Expert Group to reinforce its efforts to encourage testing and application of the UNFC as widely as possible and that feedback on this continue to be monitored and reviewed at least every two years;

(c) Noted with appreciation the document “Stakeholder Requirements for Specifications for the United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources 2009” (ECE/ENERGY/2010/8) prepared by the Specifications Task Force of the Expert Group in response to the request to identify and propose for the recommendation of the extended Bureau of the Committee on Sustainable Energy further specifications of the UNFC that are required for it to meet essential needs in international energy and minerals policy formulation, government resources management, industry business processes management and capital allocation;

(d) Requested the Expert Group to fully consider, in close collaboration with the Committee for Mineral Reserves International Reporting Standards and the Society of Petroleum Engineers, all the specification issues raised by stakeholders in ECE/ENERGY/2010/8 and identify those that are generic in nature and hence should be specified as an integral part of UNFC–2009. Further requested that the recommended draft text of the generic specifications for UNFC–2009 should be issued for public comment and the final text submitted to the Committee for endorsement, following which it should be issued as a United Nations publication in all official languages of the United Nations to facilitate further implementation of ECOSOC Resolution 2004/233 as a global classification system;

(e) Noted the progress made on establishing a Technical Advisory Group and requested that this continue to be pursued, including sources of extrabudgetary funding;

(f) Endorsed the programme of work of the Expert Group on Resource Classification for 2010–2011;

(g) Noted the establishment of the Communications Sub-Committee and directed it to develop and implement a communications and education strategy to ensure that UNFC–2009 is promoted globally;

(h) Requested the Expert Group to continue to liaise closely with the International Accounting Standards Board with regard to its consideration of whether an International Financial Reporting Standard (IFRS) for extractive activities should be added to its active agenda;

(i) Requested the Expert Group on Resource Classification to prepare appropriate documentation to support the programme of work for 2010–2011 that could include: (i) reports relating to specifications for UNFC–2009; (ii) case studies analyzing application of UNFC–2009; (iii) use of UNFC–2009 in classifying injection projects; (iv) functioning of the Technical Advisory Group and the Communications Sub-Committee, (v) updates on the potential IFRS for extractive activities and financial reporting;

(j) Directed the Expert Group on Resource Classification to invite and welcome cooperation and collaboration from all UNECE and non-UNECE member countries, other United Nations agencies and international organizations, intergovernmental bodies, interested and relevant professional associations, and the private sector.

**E. Group of Experts on Coal Mine Methane (Agenda item 5(f))**

26. The Committee:

(a) Took note with appreciation of the finalization of the UNECE-M2M publication “Best Practice Guidance for Effective Methane Drainage and Usage in Coal Mines” (ECE/ENERGY/73);

(b) Agreed to extend the mandate of the Ad Hoc Group of Expert on Coal Mine Methane for two years, until December 2012, with the current terms of reference, and approved that a recommendation be made to the Executive Committee of the UNECE to change its name to the Group of Experts on Coal Mine Methane;

(c) Welcomed the initiation of cooperation with UNFCCC on standards and methodologies related to underground coal mining;

(d) Expressed appreciation to the China Coal Information Institute and the State Administration on Coal Mine Safety for having co-organized the First UNECE “Best Practice Guidance” Workshop, in Beijing, in October 2010;

(e) Requested the Secretariat to explore the possibility of publishing “Best Practice Guidance for Effective Methane Drainage and Usage in Coal Mines” in the Chinese language;

(f) Mandated the Group of Expert on Coal Mine Methane to continue the identification of harmful regulatory clauses that could possibly inhibit innovations in methane capture and utilization;

(g) Requested the Group of Expert on Coal Mine Methane to continue its cooperation with other international and intergovernmental organizations, including IEA, ILO, UNDP, and M2M partnership.

**F. Group of Experts on Cleaner Electricity Production from Coal and Other Fossil Fuels (Agenda item 5(g))**

27. The Committee:

(a) Invited the secretariat to expedite implementation of the UN Development Account project on “Mitigating climate change through attracting foreign direct investment in advanced fossil fuels technologies”;

(b) Took note with appreciation of the established strategic cooperation with e8, European Bank for Reconstruction and Development and World Energy Council on fostering investment in cleaner electricity production and in particular:

(i) The High-level dialogue on Fostering Investment in Electricity Generation in Central and Eastern Europe and Central Asia (World Energy Congress, Montreal, Canada, 14 September 2010);

(ii) The Clean Electricity Production Forum: Fostering Investment in Electricity Generation in Central and Eastern Europe and Central Asia, (Geneva, 22–24 November 2010, report of the sixth session of the Ad Hoc Group of Experts);

(c) Agreed to extend the mandate of the Group of Experts for two years, until December 2012, with the current terms of reference and programme of work, and invited the Bureau to review, in consultation with the participating countries, its programme of work for 2011–2012 with a view of presenting it in a more balanced way reflecting the mandate given to the Group of Experts in its Terms of Reference;

(d) Welcomed continuing cooperation with other international organisations active in the Group of expert's areas of work, and in particular with the IEA and EU;

(e) Approved that a recommendation be made to the Executive Committee of the UNECE to change the name of the UNECE Ad Hoc Group of Experts on Cleaner Electricity Production from Coal and Other Fossil Fuels to the UNECE Group of Experts on Cleaner Electricity Production from Coal and Other Fossil Fuels, with the same Terms of Reference; and approved its extension for the next two years.

## **VII. UNECE Regional Advisory Services Programme in the field of energy (agenda item 6)**

*Documentation:* ECE/ENERGY/2010/4

28. The secretariat provided an update on the Regional Advisory Services, including subregional activities, in the field of energy.

29. The Committee:

(a) Took note with appreciation of the Regional Advisory services during the reported period;

(b) Took note of the contribution of Regional Advisory services to the activities under the Committee's energy security dialogue;

(c) Took note of the contribution of Regional Advisory services to the activities of AHGE on Cleaner Electricity Production from Coal and other Fossil Fuels, and recommended the Regional Adviser to take active part in implementation of the project "Mitigating climate change through attracting foreign direct investment in advanced fossil fuels technologies" financed by the Development Account;

(d) Approved the Regional Adviser's work orientation for the year 2011.

## **VIII. Cooperation and coordination with other sectoral committees of the commission (agenda item 7)**

30. The Committee was briefed on the activities of common interest of other Sectoral Committees and on cooperation with other intergovernmental and non-governmental organizations, industry associations and the business community.

31. The Committee *welcomed* its cooperation with the:

(a) *Environmental, Housing and Land Management Division*

(i) Within the context of the Seventh Ministerial Conference "Environment for Europe" Astana (Kazakhstan), 21–23 September 2011 to address environmental priorities and promote broad horizontal cooperation, and a regional pillar of sustainable development.

(b) *Economic and Cooperation Division*

(i) To review Training module on PPPs in Energy Sector;

(ii) To look out for governments capable of hosting specialist centres in the efficient energy sector.

(c) *Statistical Division*

(i) To the assessment of energy efficiency indicators;

- (ii) To the assessment of indicators of energy vulnerability.
- (d) *Transport Division*
  - (i) In developing a possible strategy for climate change mitigation within the transport sector;
  - (ii) In support of the challenge for the automotive industry to mitigate climate change which could result, for the transport sector, from the attention to fuel quality and related CO<sub>2</sub> reduction.
- (e) *Timber Section*
  - (i) On the use of wood as a source of renewable energy with reference to the cooperation between the Timber Committee/ Food and Agriculture Organization of the United Nations and the Committee on Sustainable Energy, in particular to explore possible joint activities on modern and sustainable heat and power from woody biomass in South-Eastern Europe;
  - (ii) Within the framework of the Energy Efficiency 21 Programme and the Financing energy efficiency investments for climate change mitigation project.

## **IX. Programme of work in the field of energy for 2011–2012 (agenda item 8)**

*Documentation:* ECE/ENERGY/2010/6 and ECE/ENERGY/2010/7

- 32. The Committee reviewed and adopted its programme of work for 2011–2012;
- 33. Within the context of the preparation of the United Nations programme budget cycle, the programme narrative 2012–2013 and assessment of the programme performance of the sustainable energy subprogramme were also considered;
- 34. A questionnaire for the Programme Performance Assessment 2010–2011 was distributed during the session. The questionnaire will be also posted on the ECE website during 2011;
- 35. The Committee approved the provisional calendar of meetings for 2011;
- 36. The delegation of the Russian Federation expressed the view that the work of the Secretariat should be focused on providing a platform for intergovernmental deliberations, elaboration of policy recommendations, exchange of best practices and implementation of technical cooperation projects.

## **X. Other business (agenda item 9)**

- 37. No issues were tabled for discussion under this item.

## **XI. Adoption of the report of the meeting (agenda item 10)**

- 38. The Committee agreed that the report be drafted in consultation with members of the Bureau, approved by the Bureau and then circulated to countries.

## Annex

### Revised calendar of meetings of the Committee on Sustainable Energy and its implementing bodies in 2011

The Committee on Sustainable Energy requests that it be provided at each session with a provisional calendar of meetings for the ensuing calendar year.

#### Committee on Sustainable Energy

1. Advisory Board of the UNECE-UNDA Project on cleaner electricity production, second meeting, 21 January, Geneva
2. Group of Experts on Coal Mine Methane Workshop, 1 March, Geneva
3. Expert Group on Resource Classification, second session, 6–8 April, Geneva
4. Group of Experts on Cleaner Electricity Production from Coal and Other Fossil Fuels, seventh session, 10–11 May, Geneva
5. Advisory Board of the UNECE-UNDA Project on cleaner electricity production, third meeting, 10 October, Geneva
6. Group of Experts on Coal Mine Methane, seventh session, 12–13 October, Geneva
7. Group of Experts on Cleaner Electricity Production from Coal and other Fossil Fuels, eight session, 14–15 November, Geneva
8. Committee on Sustainable Energy, twentieth session, 16–18 November, Geneva

#### Steering Committee of the Energy Efficiency 21 Project

1. Group of Experts on Global Energy Efficiency, second meeting, 18 April, Geneva
2. Group of Experts on Energy Efficiency Investments for Climate Change Mitigation, seventeenth session, 19–20 April, Geneva
3. Steering Committee of the Energy Efficiency 21 (EE21) Programme, twenty-second session, 21 April, Geneva
4. Group of Experts on Global Energy Efficiency, third meeting, 17-18 October, Geneva
5. Group of Experts on Energy Efficiency Investments for Climate Change Mitigation, eighteenth session, 19–21 October, Geneva

#### Working Party on Gas

1. Working Party on Gas, twenty-first session, 18–19 January, Geneva
2. Group of Experts on Supply and Use of Gas, twelfth session, 20 January, Geneva
3. Group of Experts on update of the UNECE Study on the Underground Gas Storage (UGS) in Europe and Central Asia, thirteenth meeting, 2 March, Geneva
4. Group of Experts on the UNECE Study on the Efficient Gas Market Regulation, second meeting, 3 March, Geneva

5. Group of Experts on update of the UNECE Study on Use of Gas in Transport, second meeting, 4 March, Geneva
6. Group of Experts on current status and prospects for Liquefied Natural Gas (LNG) in the UNECE region, seventh meeting, 26 May, Geneva
7. Group of Experts on update of the UNECE Study on the Underground Gas Storage (UGS) in Europe and Central Asia, fourteenth meeting, 11 October, Geneva
8. Group of Experts on current status and prospects for Liquefied Natural Gas (LNG) in the UNECE region, eighth meeting, 14 October, Geneva
9. Group of Experts on the UNECE Study on the Efficient Gas Market Regulation, third meeting, 17 October, Geneva
10. Group of Experts on the UNECE Study on the UNECE Study on Use of Gas in Transport, third meeting, 18 October, Geneva

### **Gas Centre**

1. Executive Board, sixteenth session, 17 January, Geneva
  2. Gas Center Task Force on Supply, Infrastructure and Markets (SIM), fourth session, Spring
  3. Gas Center Task Force on Implementation of EU Gas Directives, twenty-second, Spring
  4. Gas Centre Database Technical Committee, twenty-second session, May/June, Geneva
  5. High Level Conference of the Gas Centre, seventeenth session, June
  6. Gas Center Task Force on Supply, Infrastructure and Markets (SIM), fifth session, Autumn
  7. Gas Centre Bureau Meeting, October/ November, Geneva
  8. Gas Centre Task Force on Implementation of EU Gas Directives, twenty-third session, November/December
  9. Gas Center Database Technical Committee, twenty-third session, November, Geneva
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