

# Newsletter of PROMITHEAS Net on energy and climate change policy research issues



## General Info

This bimonthly newsletter of the PROMITHEAS Network is distributed **free of charge** to more than 23,000 recipients in one hundred seventy (170) countries. It includes information about the network activities, its members and events concerning energy and climate change research. Its content reflects the network views. **Sponsorships for its circulation are welcome.**

PROMITHEAS Network, the origin of which is the Project Development Fund of BSEC, aims to promote scientific cooperation on the energy and climate policy issues between the countries of BSEC and EU and thus to contribute in knowledge transfer to that region, as a basic precondition for the development of human potential that will materialize policies of cooperation.



## Messages

### Editorial note

by

Prof. Dimitrios MAVRAKIS  
Coordinator of  
PROMITHEAS Network



On Friday (06.03.2015) the Council of the European Union has adopted the submission to UNFCCC Secretariat of the Intended Nationally Determined Contribution (INDC) of the EU and its 28 member states according to which they are committed to a binding target of at least 40% domestic reduction in GHG emissions by 2030 compared to 1990.

This action came as a follow up to the “Energy Union package” (COM (2015) 80 final) under the title “A Framework Strategy for Resilient Energy Union with a Forward-Looking Climate Change policy” which is described, in the preamble, as “an ambitious climate policy at its core”.

Regardless of this statement, the key question is whether the proposed policy reflects the expected involvement of the EU, even in the frame of the COM (2015) final, to accomplish the constraint, set by UNFCCC, to keep the air temperature increase below of the 2°C or even 1.5°C compared to the preindustrial era.

In a smug introvert approach, the Union underlines the high percentage of its proposed GHG reductions but stays clear to underline that confronting the Climate Challenge is not a question of generous reductions, among its member states, but the implementation of a global legally binding protocol that will guarantee the development and early implementation of a global institutional regime, supported by the appropriate and sufficient funding and trading schemes.

### “IEE-NTUU”

by

Prof. Sergii P. DENYSIUK  
Managing director  
of the Institute of  
Energy Saving and  
Energy Management



**Institute of Energy Saving and Energy Management (IEE)** within the National Technical University of Ukraine “Kiev Polytechnic Institute” was established in 1997 as a result of a Joint Order by the State Committee for Energy Conservation and the Ukrainian Ministry of Education (No. 137/45, dated 07/05/1997). The State Committee defines IEE as a basic energy management educational and training institution in the country.

Nowadays IEE is a leading educational, training, R&D and consulting institution in the field of sustainable energy development, energy efficiency and energy management in Ukraine.

IEE trains professionals for electricity, fuel and energy complexes, building urban underground structures and the environment, which are capable of developing, design and operate the energy systems and systems to create modern energy management systems, operating on modern energy saving technologies, underground objects, items and systems of cities, to conduct monitoring of ecological condition of industrial enterprises on the basis of modern application of information and computer technologies. Specialists of IEE have high professional standards and have been trained at different courses and seminars, conducted by European and American experts in Ukraine.

Latest fundamental projects conducted by IEE:

## New

### Invitation

If you are established in one of the member states of the Black Sea Economic Cooperation Organization and you are engaged in Energy Efficiency and Renewable Energy Sources, join us in the “BSEC-Green Energy Network” and benefit from it. Contact: [epgsec@kepa.uoa.gr](mailto:epgsec@kepa.uoa.gr)

Notwithstanding the pledges of the developed countries and multilateral banks to develop sufficient financing tools and provide the means to developing countries to confront their needs to develop and implement mitigation and adaptation programs, the results remain provocatively insufficient.

Further to that, although there is no doubt that a low carbon economy needs a functioning World Emission Trade market, the issue is hardly mentioned while a slight reference is made to carbon taxes on marine and air transportation in most of the so far submitted INDCs.

It is a common practice that developed economies transfer their carbon polluting industries to developing and less developed countries. The issue of imposing carbon taxes to products with origin from these countries, with the active involvement of the World Trade Organization (WTO) will not even be tackled in the forthcoming COP21.

As May 2015 fades out, only thirty five (35) UN parties have submitted their INDCs, so far, and apart from the quality and the level of their "ambition" they profoundly fail to convince not only that they converge in meeting the 2.0°C or 1.5°C targets but even that they have taken into account the executive summaries of the latest UNFCCC reports.

We have already lost the likely chance of implementing "Least cost 2010 scenarios" based on the assumption that country pledges concerning GHG reductions would be fully implemented in 2020. We consider now that the delayed action of "Least cost 2020 scenarios" is consistent with the expectations that the negotiations in COP21 will deliver a global climate agreement. As the emerging extreme weather phenomena already increase destabilizing our economies and societies we cannot afford of one more failure and if so it is time to start thinking of a new, more efficient COP22 driving to real global commitments and actions.

### HERON Project

The HERON project funded by Horizon 2020 aims at facilitating policy makers of multi-level governance in EU, to develop and monitor energy efficiency policies in building and transport sectors, through forward-looking socio-economic research in 7 EU and 1 candidate countries in diverse contexts and at different stages of development.

The innovative core element of the proposed project is the incorporation of non-economic and non-market elements, such as social, educational and cultural, into energy modeling for reflecting the end-user behavior towards energy efficiency in the two aforementioned sectors.

The Energy Policy and Development Centre of the National and Kapodistrian University of Athens (Greece) will be the Project Coordinator. Partners are: Università Commerciale "Luigi Bocconi" (Italy); Sdruzhenie Chernomorski Izsledovatel'ski Energien Tsentar (Bulgaria); Oxford Brookes University (United Kingdom); Universiteit Antwerpen (Belgium); Wuppertal Institut Fur Klima, Umwelt, Energie GMBH (Germany); University of Belgrade-Faculty of Mining and Geology (Serbia); Estonian Institute For Sustainable Development, Stockholm Environment Institute Tallinn Centre (Estonia).

The project will start on May 2015.

- Modeling and management of integrated power systems and energy efficiency Control (2011 – 2012)
- Intelligent energy efficient houses with integrated usage of renewable and nonrenewable energy sources (2011– 2013)
- Technology of integrated energy efficient power plants with integrated usage of distributed generation facilities and SMART-technologies (2012– 2013)
- Development of methodological principles of intellectualization process for energy generation and distribution in integrated systems with active consumers (prosumers) (2013 – 2014)

Main scientific directions of IEE:

1. Scenarios of development of energy sectors of the country and regions according to requirements of sustainable development (energy and ecological restrictions).
2. Energy markets and energy use control; energy efficiency management by electricity market tools.
3. Energy efficiency policy, regulatory, legislation and methodological support; technological upgrade of economy sectors.
4. The increase of levels of ability of energy supply in regions by domestic resources; integrated energy technologies and energy systems.
5. Innovative energy-efficient technologies and project management.
6. Energy management system according to requirements of ISO 50001; multi-agent control system.
7. Smart power supply systems and networks (under the concept of Smart Grid), including Smart Metering, Smart houses, Smart City; Smart technologies for monitoring and control in power systems.
8. Power supply systems with the integration of distributed energy sources and prosumer, including Micro Grid and Virtual Power Plant.

**Prof. Sergii DENYSIUK** (Male) - Director of Institute for Energy saving and Energy management of NTUU "KPI" (**IEE-KPI**). Mr. Sergii Denysiuk graduated from NTUU "Kyiv Polytechnic Institute" (the KPI University), Ukraine, in 1981 and acquired the Industrial Electronics' Diploma with qualification as an engineer in the field of electronic engineering. He possessed Ph.D. degree in 1984, and has been Doctor of Science since January 28, 2002. In 1991 was qualified with the degree of Senior Scientist for Semiconductor Converters (special rank in Ukrainian Academy). Currently he is acting as leading Professor in the field of electric Power Supply in NTUU "KPI", since January 2013. In 2004 Prof. Sergii Denysiuk has accomplished the training program «Environmental Protection Strategies for Sustainable Development» in the US and became a Certified leading auditor according to "Energy Management Systems Auditor / Lider Auditor Training Course" (Bureau Veritas Certificate Serial # EnMS / 13 / UA / 113, 08.07.2013). Prof. Sergii Denysiuk was awarded with diplomas of the Ministry of Energy of Ukraine, the NTSEU State Committee of Ukraine and National Technical University of Ukraine "Kyiv Polytechnic Institute". Prof. Sergii Denysiuk is a member of: Entrepreneurs' Board under the Commerce and Industrial Chamber of Ukraine and Committee of Energy Efficiency at the Chamber of Ukraine, the Section at Scientific and Technical Council of the Ministry of Education and Science; Specialized Scientific Committee: D 26.002.19 (NTUU "KPI"); D 26.002.20 (NTUU "KPI"); editorial Boards of scientific magazines. Prof. Sergii Denysiuk is an author of over 300 publications, including 28 monographs, 4 manuals (including 2 labeled by MES), 22 patents for inventions (the Certificates of the USSR, formerly). In 2011 Prof. Sergii Denysiuk was nominated with award named by S. Lebedev of the National Academy of Sciences of Ukraine for a series of publications devoted to the "Control and Stability Problems for National Interconnected Power System driven with liberalized Market Concept".

**EU:** The Environment Council approved the EU's Intended Nationally Determined Contribution (INDC) to achieve an at least 40% domestic reduction in greenhouse gas emissions compared to 1990 levels by 2030.

(DG Climate Action, 6-3-2015) – Details at: [http://ec.europa.eu/clima/news/articles/news\\_2015030601\\_en.htm](http://ec.europa.eu/clima/news/articles/news_2015030601_en.htm) and [http://unfccc.int/focus/indc\\_portal/items/8766.php](http://unfccc.int/focus/indc_portal/items/8766.php)

Energy from renewable sources met 15% of gross energy consumption in the EU in 2013, according to the EU's statistical office, Eurostat.

(Eurostat, 10-3-2015) – Details at: <http://ec.europa.eu/eurostat/web/products-press-releases/-/8-10032015-AP>

The EU leaders met on 19 March to set out the first steps of an Energy Union. The European Council strengthened their commitment for affordable, secure and sustainable energy within the EU. The discussion focused on energy security and transparency in gas contracts which must be in line with EU law. EU leaders also agreed to: i) develop innovative strategies for a new generation of renewable energies and increase energy efficiency; ii) step-up the EU climate diplomacy for a successful Paris climate summit in December 2015.

(DG Energy, 20-3-2015) – Details at: <http://ec.europa.eu/energy/en/news/eu-leaders-confirm-commitment-energy-union>

The European Commission launched two parallel consultations on the development of 2030 climate and energy policies in the sectors not covered by the EU Emissions Trading System: 1. Consultation on the preparation of a legislative proposal for the Effort Sharing Decision in a 2030 perspective. 2. Consultation on the integration of agriculture, forestry and other land use into the 2030 EU climate and energy policy framework.

(DG Climate Action, 25-3-2015) – Details at: [http://ec.europa.eu/clima/news/articles/news\\_2015040101\\_en.htm](http://ec.europa.eu/clima/news/articles/news_2015040101_en.htm)

The European Commission (EC) referred Hungary to the European Court of Justice for failing to transpose the EU's Energy Efficiency Directive into national law. Also, EC launched procedures against all EU member States except Malta for failure to notify the Commission on the national transposition measures of the same directive.

(EC, 26-3-2015) – Details at: [http://europa.eu/rapid/press-release\\_IP-15-4668\\_en.htm](http://europa.eu/rapid/press-release_IP-15-4668_en.htm)

Representatives from 30 European capitals and major cities met on 26 March 2015, in Paris, France to express and formalize their commitment to address climate change, emphasizing the role major urban centers play in this field.

(Paris, 27-3-2015) – Details at: [http://www.paris.fr/english/english/european-mayors-gather-in-paris-to-pledge-joint-action-in-the-fight-against-climate-change/rub\\_8118\\_actu\\_154619\\_port\\_19237](http://www.paris.fr/english/english/european-mayors-gather-in-paris-to-pledge-joint-action-in-the-fight-against-climate-change/rub_8118_actu_154619_port_19237)

The EU, its Member States and Iceland have signed the agreement necessary for the joint fulfilment of the second commitment period of the Kyoto Protocol.

(DG Climate Action, 1-4-2015) – Details at: [http://ec.europa.eu/clima/news/articles/news\\_2015040101\\_en.htm](http://ec.europa.eu/clima/news/articles/news_2015040101_en.htm)

The European Environmental Agency (EEA) released the technical report “*Analysis of national responses under Article 21 of the EU ETS Directive in 2014*”.

(EEA, 29-4-2015) – Details at: <http://www.eea.europa.eu/publications/application-of-the-eu-emissions>

**International:** According to data from the International Energy Agency (IEA), global energy-related carbon dioxide (CO<sub>2</sub>) emissions remained at 2013 levels in 2014, while the global economy grew

by 3%. The agency attributes the decoupling of emissions from economic growth to climate change mitigation efforts in China and countries of the Organisation of Economic Co-operation and Development (OECD).

(IEA, 13-3-2015) – Details at: <http://www.iea.org/newsroomandevents/news/2015/march/global-energy-related-emissions-of-carbon-dioxide-stalled-in-2014.html>

The UNFCCC Secretariat announced that the negotiating text for the anticipated 2015 climate change agreement has been translated into the six official UN languages and formally communicated to governments. The text was agreed as the basis for negotiations by the Ad Hoc Working Group on the Durban Platform for Enhanced Action (ADP) at the eighth part of its second session in February 2015.

(UNFCCC, 19-3-2015) – Details at: <http://newsroom.unfccc.int/unfccc-newsroom/un-communicates-negotiating-text-for-climate-agreement-to-capitals/>

The Food and Agriculture Organization of the UN (FAO) and the Government of Norway reached an US\$4.5 million partnership agreement to aid developing countries in their monitoring and reporting of changes to forest resources.

(FAO, 13-4-2015) – Details at: <http://www.fao.org/news/story/en/item/283188/icode/>

The Environment Ministers of Brazil, Russia, India, China and South Africa (BRICS) had their first official meeting on April 22, 2015, in Moscow, to discuss green economy development and cooperation in tackling climate change. They decided to: i) establish a Working Group on environment to identify and discuss priority areas of cooperation; ii) explore the potential of the BRICS New Development Bank for funding environmental projects; iii) explore the possibility of establishing a collaborative platform of the BRICS countries, intended to share best environmental practices and facilitate the exchange of environmentally sound technologies and know-how with participation of public and private stakeholders; and iv) hold regular meetings of Environment Ministers of BRICS.

(UNEP, 22-4-2015) – Details at: <http://www.unep.org/newscentre/Default.aspx?DocumentID=26811&ArticleID=34980&I=en>

During the 26th ASEAN Summit in Kuala Lumpur, Malaysia, on 27 April 2015, the Heads of State and Government of the Association of Southeast Asian Nations (ASEAN) signed the “*Declaration on Institutionalizing the Resilience of ASEAN and Its Communities and Peoples to Disasters and Climate Change*”. They committed to adopt economic, social, cultural, physical and environmental measures for reducing vulnerability to disaster and climate-related risks. The signatories pledge their intention to systematically mainstream disaster risk management (DRM) and climate change adaptation into policy making at the local, national and regional levels through multi-stakeholder engagement.

(ASEAN, 27-4-2015) – Details at: [http://www.asean.org/news/asean-secretariat-news/item/asean-leaders-meet-in-malaysia-for-the-26th-asean-summit?category\\_id=27](http://www.asean.org/news/asean-secretariat-news/item/asean-leaders-meet-in-malaysia-for-the-26th-asean-summit?category_id=27)

The UNFCCC Secretariat published a report on the progress made in implementing activities under the Nairobi work programme on impacts, vulnerability and adaptation to climate change (NWP) ahead of the 42<sup>nd</sup> session of the Subsidiary Body for Scientific and Technological Advice, scheduled to take place in Bonn, Germany, during 1-11 June 2015.

(UNFCCC, 30-4-2015) – Details at: <http://unfccc.int/resource/docs/2015/sbsta/eng/inf02.pdf>

**May**

**2<sup>nd</sup> Annual United Nations Sustainable Energy for all Forum**, 17-21 May 2015, United Nations Headquarters, New York-USA, <http://www.se4all.org/se4all-forum/>

**6<sup>th</sup> Petersberg Climate Dialogue**, 18-19 May 2015, Axica Congress and Conference Centre, Berlin-Germany, <http://www.bmub.bund.de/en/topics/climate-energy/climate/international-climate-policy/petersberg-climate-dialogue/>

**World Hydropower Congress**, 19-21 May 2015, Beijing-China, <http://www.hydropower.org/congress/home>

**IRENA-CNREC Inception Workshop - Renewable Energy Costing and Policy Impact Assessment**, 19 May 2015 Beijing, China, <http://www.irena.org/menu/index.aspx?mnu=cat&PriMenuID=30&CatID=142>

**Climate Finance Day, Paris 2015**, 22 May 2015, UNESCO Headquarters, Paris, France, [http://www.eib.org/attachments/general/events/20150522\\_climate\\_finance\\_paris\\_save\\_the\\_date\\_en.pdf](http://www.eib.org/attachments/general/events/20150522_climate_finance_paris_save_the_date_en.pdf)

**Carbon Expo Barcelona 2015**, 26-28 May 2015, DownTown MontJuic Venue, <http://www.carbonexpo.com/>

**June**

**2015 International Energy Workshop**, 3-5 June 2015, Abu Dhabi, United Arab Emirates, <http://www.internationalenergyworkshop.org/meetings-8.html>

**Resilient Cities 2015**, 8-10 June 2015, Bonn, Germany, <http://resilientcities2015.iclei.org/>

**EU Sustainable Energy Week 2015**, 15-19 June 2015, Brussels – Belgium, <http://www.eusew.eu/>

**8<sup>th</sup> International Conference on Sustainable Water Resources Management**, 15-17 June 2015, A Coruña, Spain, <http://www.wessex.ac.uk/15-conferences/water-resources-management-2015.html>

**Asia Clean Energy Forum 2015**, 16-20 June 2015, ADB Headquarters Manila – Philippines, <http://asialeds.org/events/asia-clean-energy-forum-2015>

**Vienna Energy Forum 2015**, 18-20 June, Hofburg Palace, Vienna-Austria, <http://www.viennaenergyforum.org/background-and-general-information>

**July**

**International Conference on Coastal Cities and their Sustainable Future**, 7-9 July 2015, New Forest, UK, <http://www.wessex.ac.uk/15-conferences/coastal-cities-2015.html>

**Our Common Future under Climate Change, International Scientific Conference**, 7-10 July 2015, Paris-France, <http://www.commonfuture-paris2015.org/>

**Climate and Sustainable Energy Finance Summer Academy 2015**, 19-24 July 2015, FS-UNEP Collaborating Centre for Climate and Sustainable Energy Finance, Frankfurt – Germany, <http://fs-unep-centre.org/events/climate-sustainable-energy-finance-summer-academy-0>

**International Renewable Energy Agency (IRENA) Internship Programme.** Deadline: **Open**. Details at: [http://www.irena.org/Jobs/Internship\\_desc.aspx?JobID=33&PriMenuID=13&CatID=58&SubCatID=0&mnu=Pri](http://www.irena.org/Jobs/Internship_desc.aspx?JobID=33&PriMenuID=13&CatID=58&SubCatID=0&mnu=Pri)

**UNFCCC's Internship Programme**, Deadline: Generally around 2 months before the start of the internship period. Mid-October; deadline for Spring internships (mid-January to mid-March). Mid-March; deadline for Summer internships (early June to early August). Mid-June; deadline for Fall internships (mid-September to mid November). Details at: [https://unfccc.int/secretariat/internship\\_programme/items/2653.php](https://unfccc.int/secretariat/internship_programme/items/2653.php)

**McKinsey&Company**, Position: Electric Power/Utilities (Junior) Research Analyst – EEMA – Moscow. Deadline: **Not mentioned**. Details at: [https://mckinsey.secure.force.com/EP/job\\_details?jid=a0xA000006nyvRIAQ](https://mckinsey.secure.force.com/EP/job_details?jid=a0xA000006nyvRIAQ)

**Ecofys International**, Position: Senior Consultant Sustainable Energy for Unit Built Environment Utrecht. Deadline: **Not mentioned**. Details at: <http://www.ecofys.com/en/career/senior-consultant-sustainable-energy-in-the-built-environment/>

**Potsdam Institute for Climate Impact Research (PIK)**, Position: 1 Post-doc (Earth system scientist / physicist / social systems scientist) for "The role of social agents in Earth system dynamics". Deadline: **None, until the position is filled**. Details at: <https://www.pik-potsdam.de/aktuelles/stellen/postdoc-positions/1-post-doc-position-role-of-social-agents-in-earth-system-dynamics-earth-league2014>

**Radbound University**, Position: Junior Researcher: Climate Change Mitigation and Innovation. Deadline: **21 June 2015**. Details at: <http://www.ru.nl/english/working/job-opportunities/details/job/?taal=uk&recid=555259&pad=%2fenglish>

**Stockholm Environment Institute**, Position: Project manager – Climate Policy. Deadline: **31 May 2015**. Details at: <http://www.sei-international.org/working-for-sei/current-recruitments/3089>

**Stockholm Environment Institute**, Position: Modeller and Researcher: Energy and Climate. Deadline: **Ongoing**. Details

at: <http://www.sei-international.org/working-for-sei/current-recruitments/3004>

**Joint Research Centre, Institute for Energy and Transport**, Research Project Title - CO2 emissions from road vehicles. Position: Trainee. Deadline: **9 June 2015**. Details at: <http://recruitment.jrc.ec.europa.eu/>

**KTH Royal Institute of Technology**, Position: PhD Student Position in Electrical Engineering. Deadline: **15 June 2015**. Details at: <https://www.kth.se/en/om/work-at-kth/lediga-jobb/what:job/jobID:63249/where:4/>

**Technische Universität Berlin - Faculty III - Process Sciences - Institute of Environmental Engineering**, Position: University Professor for the chair "Environmental Chemistry and Air Quality Control". Deadline: **10 July 2015**. Details at: [http://www.personalabteilung.tu-berlin.de/fileadmin/abt6/archiv/Stellenausschreibungen/externe\\_Stellenausschreibungen/Professur/5787305.05.2015\\_Fac\\_III\\_Inst\\_of\\_Environmental\\_Engineering\\_Environmental\\_Chemistry\\_and\\_Air\\_Quality\\_Control.pdf](http://www.personalabteilung.tu-berlin.de/fileadmin/abt6/archiv/Stellenausschreibungen/externe_Stellenausschreibungen/Professur/5787305.05.2015_Fac_III_Inst_of_Environmental_Engineering_Environmental_Chemistry_and_Air_Quality_Control.pdf)

**University of Geneva, Institute for Environmental Sciences, Energy Group**. Position: Four Vacancies for PhD students Researchers and one vacancy for Senior Research and Teaching Assistant (maître assistant) on energy efficiency improvement in buildings and industry. Deadline: **Open until qualified candidates have been found**. Details at: [http://www.unige.ch/efficiency/files/5614/2899/0790/Vacancy\\_announcement\\_Researcher\\_-\\_Energy\\_Efficiency.pdf](http://www.unige.ch/efficiency/files/5614/2899/0790/Vacancy_announcement_Researcher_-_Energy_Efficiency.pdf)

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