



**WORLD BIOENERGY
ASSOCIATION**

Annual report 2013



www.worldbioenergy.org

ANNUAL REPORT FOR THE FINANCIAL YEAR 2013

The Board presents the following annual report.

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ADMINISTRATION REPORT

1. LETTER FROM THE PRESIDENT

WBA HAS THE PLEASURE TO PRESENT ITS ANNUAL REPORT FOR 2013. The year 2013 brought WBA a continuous growth in terms of members and activities. I welcome all new members and I thank all sponsors, donors and members for their support in the year 2013.

The year 2013 brought some controversial developments for bioenergy. Bioenergy is moving forward fast in many parts of the world. On the other hand critical voices against bioenergy became stronger. This led to some uncertainty about the future framework conditions for bioenergy, especially in Europe. In the USA the formulation of a new farm bill will rather stimulate bioenergy in the future.

The year 2013 also brought the publication of the first Part of the new IPCC report. This report underlines the importance of a fast growth of renewable energies to reduce CO₂ emissions within a 2°C climate policy; and biomass is, and will remain, the most important sector of renewable energies.

In cooperation with other renewable association, under the umbrella of REN Alliance, WBA published a paper about the needed development of all Renewables in order to comply with the climate targets. This paper was presented at a side event during the UN climate conference in Warsaw – it underlines the important role of bioenergy in the transformation of the energy system. The participation of WBA at an IRENA workshop on the REMAP study came to a similar conclusions about the decisive role of bioenergy in the future.

In 2013 the board of WBA had the chance to have its annual meeting in Brazil and to learn, during a study tour, about the dynamic development of bioenergy in this part of the world.

The rapid deployment of sustainable biomass for energy is a key challenge within the global climate and energy policy. WBA supports this development and invites companies and individuals to join us in our effort. The small staff of WBA did again a tremendous work in 2013 and I would like to thank particularly our executive director Karin Haara for her work.

*Heinz Kopetz,
President, World Bioenergy Association*



A handwritten signature in black ink, appearing to read 'H. Kopetz', written in a cursive style.

Heinz Kopetz,
President, World Bioenergy
Association

“The purpose of the WBA is to increase the use of bioenergy worldwide in a sustainable way”

2. SUMMARY OF ACTIVITIES

World Bioenergy Association is the leading global bioenergy expert dedicated to supporting various actors in the bioenergy sector with the aim of promoting bioenergy as the premier renewable solution. The members of WBA include individuals, researchers, companies as well as national and international organizations.

Since its inception in 2008, WBA has expanded in terms of members and collaborations in the bioenergy sector. A brief review of the activities of WBA during 2013 are summarized:

- » At the end of 2013 WBA has 121 members out of which 18 are full members, 40 associate members and 63 individuals.
- » In 2013, we had 11 690 visitors on our website with more than 70% being new visitors. We are active in social media with our LinkedIn group having 600 members and Facebook page having more than 100 likes.
- » To promote the Bioenergy Connect platform, we have had media collaboration with Bioenergy Insight.
- » We released two factsheets and one bioenergy magazine no 5. The factsheets were on:
 - Biofuels for transport
 - Biogas – an important renewable energy source
- » An article written by our President, Heinz Kopetz, was published in the Nature magazine ('Build a biomass energy market', Nature, Volume 494, pp. 494: 2013).
- » World Bioenergy Association acted as moderator in a bioenergy conference in Lusaka, Zambia.
- » The Sustainable Energy Week took place in Abu Dhabi. WBA was represented by Heinz Kopetz as an observer at IRENA General Assembly, as participant and session leader at ADIREC, as member at the meeting of the steering committee of REN21.
- » WBA became a founding partner of Global 100% Renewable Energy.
- » WBA is the chair organisation of the REN Alliance.
- » A significant milestone for WBA was the signing of a contract in Novi Sad, Vojvodina, on development of a Bioenergy action plan for the region.
- » WBA has launched the concept of Dining Clubs – a service for companies to promote products and services directly to senior decision makers.
- » WBA has started inviting country experts to send contribution for the bimonthly newsletter. Contributions from Bangladesh, Sri Lanka and the Philippines have already been received.
- » WBA undertook a study tour in Brazil and also held its annual meeting in Brasilia.
- » WBA attended the COP19 meeting in Warsaw. We distributed our bioenergy magazine no 5 and fact sheets. We organized a side event with REN Alliance on 100% renewables which was attended by more than 100 people. WBA participated at a steering committee meeting of REN21 and REN Alliance. Karin and Heinz gave interviews on topics of bioenergy on conference TV.
- » WBA has been able to sign letter of cooperation between the REN Alliance and IRENA to enable us to reflect our industry areas in this forum.
- » Heinz Kopetz commented on the biomass chapter of the REMAP 2030 study of IRENA.
- » Heinz Kopetz also delivered a speech at Renewable Energy Forum in Moscow and met with local business leaders and policy makers.
- » WBA met with 39 Embassies in Stockholm in December for promotion of the World Bioenergy Conference 2014.
- » We are proud to announce AGRANA as our third silver supporter this year. At the end of the year we had one official supporter and three silver supporters.

3. ADMINISTRATIVE REPORT

3.1 Membership report

As of December 2013, WBA had 121 members worldwide, out of which 18 are full members. Additionally, we also have 40 associate members and 63 individuals who are interested in contributing to the development of WBA. In the beginning of the year we had 90 members so we were able to get 31 more members during the year.

The members are actively involved in creating forums in bioenergy sectors, discussing bioenergy issues and initiating conversation among their own networks. They come from five different continents and many countries worldwide. Since implementation of a supporter system during the launch of the organization, we have one official supporter and three silver supporters.

The structure of membership

WBA currently has three membership categories on offer for bioenergy professionals:

Type	Category of members	Membership fee
Full	National and international bioenergy associations	300 – 5 000 €/year
Associate	Companies, consultants, energy agencies, research institutes etc.	300 – 5 000 €/year
Individual	Individual persons	50 €/year

Why should you become a member?

WBA values your membership as it can help us achieve our mission. We are the leading bioenergy expert in the international level consisting of professionals from various countries, specializations and level of experience. We aim to promote bioenergy as a crucial sector in achieving the renewable energy goals.

As we grow, so does our influence. Becoming a member would enable you to have exclusive access to information about bioenergy from leading experts worldwide. It opens up opportunities for possible cooperating among projects and working groups.

Add your voice to the global bioenergy movement!

Supporters and Donors

AGRANA – New Silver supporter of WBA

We are proud to announce AGRANA as our third silver supporter. The supporters will be published on the WBA website and there is space for a total of 20 silver supporters. If you are interested or know companies or organisations that you think would benefit as supporter, please contact the WBA secretariat.

3.2 Communication and Activities

Secretariat

The secretariat of WBA is located in Stockholm, Sweden. The office space also includes Svebio and other leading bioenergy organizations. However, we are still in the lookout for human and financial resources to keep improving our work. Currently, WBA has a Board, a Nominating Committee, a President, an employed Executive Director, and a contracted Director of Communications. The President works fulltime voluntarily. The Executive Director and Director of Communications work on a fulltime basis whereas the Board works on behalf of the organization.

Website

WBA has an official website, worldbioenergy.org. Firstly, the details of the association including its origins, the current activities, and future outlook are presented. Various fact sheets, press releases, case studies are uploaded on to the website. Links to past, current and future energy conferences are also presented.

According to Google analytics, 11 690 visitors visited our website 2013, with more than 70% of them being new visitors. Most of the visits were from United States, United Kingdom, Sweden, India and Germany. Visitors from Brazil and China are also prominent which indicates our growing reputation in developing countries.

January, April and June are the most active period for visits with more than 1000 hits. Analysing the reasons, we had WBA attending conferences in Abu Dhabi, Kiev and Brazil during these months.

Compared to 2012, there has been a slight decrease in the number of visits. One of the major reasons could be the World Bioenergy Award in 2012. Hence, we expect an increased traffic this year due to the same in June 2014.

Social media

In the current tech savvy age, it is important to be active in social media. Recognizing this need of having a presence on social networking sites, WBA had created Facebook and LinkedIn profiles. Their inception had been a success with the number of members and Facebook likes increasing rapidly. We currently have more than 600 members on LinkedIn actively involved in discussions on bioenergy issues. Our Facebook page has more than 100 likes. We are currently exploring the possibilities of having a Twitter account as well. Though it is time intensive, such a presence enables us to communicate effectively and spread our mission.

Member letters and bi-monthly newsletters

To keep our members informed of the activities of WBA, we initiated preparing and sending member letters and bi-monthly newsletters in 2012. In 2013, we sent out six bi-monthly member letters. These included summaries of conferences attended by WBA, the meetings and speeches given, the fact sheets and press releases and new membership.

WBA has started inviting country experts to send contribution for the bimonthly newsletter. Contributions from Bangladesh, Sri Lanka and the Philippines have already been received.

Press releases

21st February: Sustainably managed forests can “save ten times the CO₂”

In collaboration with AEBIOM and the Austrian Biomass Association, WBA published a press release based on a research report. The objective was to apprise policy makers to include scientific results while formulating EU sustainability criteria and future bioenergy policies.

27th March: More biofuels needed in the transportation sector

The WBA fact sheet: Biofuels for transport – the renewable alternatives was launched with a press release in March. WBA supports an increase in production of conventional and advanced biofuels as a goal in improving fuel security, mitigating climate change and supporting rural development.

25th April: New Global Alliance calls for 100 Percent Renewable Energy

Global 100% Renewable Energy is a global alliance of civil society organizations, academics, business associations and policy makers with the aim of committing to 100% renewables in the power, heating & cooling and transportation sector. WBA is one of the founding members.

31st May: Biogas – an important renewable energy source

WBA presented its fifth factsheet on ‘Biogas – an important energy source’. The goal was to advocate the use of biogas as an important strategy for reducing greenhouse gas emissions and improve energy security.

18th October: WBA comments on IPCC’s 5th assessment report

Commenting on the release of IPCC 5th Assessment report summary for policymakers, WBA released a statement focussing on subjects of climate change, fossil fuel emissions, and renewable energy use in the context of bioenergy industry.

20th November: How to follow the IPCC mitigation scenario

In cooperation with REN Alliance, WBA released a press statement on how to follow the IPCC mitigation scenario and the urgent targets needed for 2035. The event was part of the UN Climate Change Conference COP19 in Warsaw.

Bioenergy magazine

Bioenergy magazine no 5 was released in 2013. The main content of the magazine were excerpts from the various fact sheets produced by WBA to inform the readers about the current discussions on bioenergy issues. Each fact sheet also offers a perspective of WBA. The topics included: biofuels for transport; biogas as an important energy source; carbon neutrality of forests; biomass combined heat and power; and small scale biomass heating.

Media collaboration

Bioenergy Insight

The WBA agreed with a premier Bioenergy news provider, Bioenergy Insight, to promote the BioenergyConnect networking platform.

Bioenergy International

The WBA and premier news publication Bioenergy International, continue to collaborate with reporting content in turn promoting their latest publication through links on the WBA website.

Fact sheets

Biofuels for transport, March 2013

Biofuels for transport are part of important strategies to improve fuel security, mitigate climate change and support rural development. In 2010, some 84 million tonnes of conventional biofuels based on crops containing starch, sugar or vegetable oil were delivered, that represents some 104 billion litres of fuels that address 2.7% of the global demand for transportation fuels.

Conventional biofuel production not only delivers ethanol and biodiesel but also protein feed, with the quantities of these both being produced on a similar scale. In 2010, the protein production associated with conventional biofuels based on corn, cereals, canola and soybeans delivered 79 million tonnes of protein feed corresponding to the protein production of 29 million ha soybeans, that is more than a quarter of the global demand for soybean cake. Hence, conventional biofuel production chains are a vital part of both global fuel and protein supplies.

Advanced biofuels based on cellulosic feedstock, various waste streams and algae have a large potential in the future. However, some of these are in early commercial phase in the market at present but most of these new technologies

remain in a precommercial phase. Investors need reliable long-term framework conditions to be created by governments to offset the huge capital expenditures required to start large-scale production and to offset the initially high production cost of these new fuels.

In order to achieve compliance with emission targets set to slow global warming and to improve the security of energy supply, an increased contribution from both conventional and advanced biofuels will be needed in the coming years. The protein production has to be seen as an important part of the social, economic and environmental aspects of the biofuel industry.

Many studies have shown there is enough land available to produce more food, more feed and more biofuels. However, the available land has to be used in a better way. In recent years more than 200 Mha land has been set aside around the globe and not used at all! Therefore a priority for all governments and international organizations must be to improve agricultural and forestry production methods worldwide in a sustainable and socially acceptable way. In addition, conventional biofuel production could become part of a global strategy to compensate for the strong variations of harvests coming along with climate change.

Biogas – an important renewable energy source, May 2013

Biogas is a gas produced by anaerobic fermentation of different forms of organic matter and is composed mainly of methane (CH₄) and carbon dioxide (CO₂). Typical feedstocks for biogas production are manure and sewage, residues of crop production (i.e., straw), the organic fraction of the waste from households and industry, as well as energy crops including maize and grass silage.

Biogas is supplied to a variety of uses or markets, including electricity, heat and transportation fuels. In many countries using the gas for direct combustion in household stoves and gas lamps is increasingly common, producing electricity from biogas is still relatively rare in most developing countries. In industrialized countries, power generation is the main purpose of most biogas plants; conversion of biogas to electricity has become a standard technology. To improve overall efficiency of biogas utilization, combined heat and power plants are often used, with part of

the heat utilized for maintaining reactor temperature and sometimes for heat treatment of the incoming material.

A biogas plant on a farm, for example, has a number of different elements, such as the liquid manure store, the receiving and mixing area, the digester or reactor, the gas storage tank and storage for digester residue. In the case of a combined heat and power (CHP) application, there also needs to be grid connection for the electricity and a connection to the heat user. The cost of investment per kW installed electric capacity is about 5 000 Euro for an installation of about 150 kW in size; the specific investment cost/kW or MW capacity is higher for smaller plants and lower for bigger plants. The global potential of biogas is large enough to provide a substantial share of future gas demand; estimations show that biogas could cover around 6% of the global primary energy supply, or one quarter of the present consumption of natural gas (fossil methane gas).

Each country should develop and implement an integrated biogas concept in order to promote the increased production of biogas. The big advantages of such a strategy would include better progress in mitigating climate change by reducing national GHG emissions, improving national energy security, and creating new employment in rural regions. International organizations should support these national efforts.

Special Internal Report – Torrefaction

The torrefaction of biomass materials is considered to be an interesting technology for promotion of large scale implementation of bioenergy. With this survey, WBA has found different views from the stakeholders on how the field is developing in the short and medium long term. Some informants have shown a strong belief in the technology and the possibility to overcome technological and market related problems in the medium long term but there are also informants who are not confident with the reported tests of for example, the torrefied product and competition with 'white pellets'.

The preliminary results prove that there are big variations in opinion on exactly how the opportunities for this new technology are conceived on different continents.

Build a strong future for modern sustainable bioenergy by joining WBA!

The importance of modern bioenergy and the huge unexploited amounts of sustainable biomass for energy available must be communicated to politicians and other decision makers, investors and the public. World Bioenergy Association is working to spread knowledge about the benefits that efficient use of sustainable biomass for energy gives all over the world.

worldbioenergy.org »

3.3 Reports, workshops and other initiatives

WBA on Jatropha

WBA board member Andrew Lang and Dr. Hazir Farouk Abdelraheem Elhaj from Aeronautical Research Centre, Khartoum, Sudan have produced a general report focussed on Jatropha oil production for biodiesel and other products – a study of issues involved in production at large scale. A summary of the paper is presented below:

This report examines the potential for establishment and management on a large-scale of the oil-seed producing plant jatropha (*Jatropha curcas*), primarily for production of biodiesel. In reading over the extensive literature on jatropha it has been very obvious that too often many of the real issues critical to achieving a viable jatropha business have been obscured by wishful thinking or by a worrying level of ignorance of the fundamental requirements of any larger scale agricultural or horticultural production.

Too often some ideological viewpoint has confused investment decisions. Too often unimproved seed was provided to out growers without apparent awareness that this would inevitably result in a variable and usually low yield. So in this review we have largely ignored reports or publications that appeared not to be based on a sound approach. We have steered well clear of any study that promised yields or returns to investment that were clearly wildly optimistic. Instead we have where possible relied on basic principles of production, of agronomy and site assessment, and looked to establish detail and projections of actual economics and logistics.

Global 100

WBA became a founding partner of Global 100% Renewable Energy which is a first global initiative that advocates 100% renewable energy. It connects the fragmented dots of renewable energy advocates to build a global alliance, proving that being powered by 100% sustainable renewable energy is urgent and achievable. This unique campaign builds on projects that are already taking place on national, regional and local levels and steers the global discourse on renewable energy towards 100% RE as the new normal. The goal is to initiate dialogue about 100% RE, build capacity and educate policymakers about the opportunities, case studies and stories that are happening all over the world. For this purpose the campaign aims to establish a global network of 100% RE regions.

Along with WBA, there are 10 other founding partners for the campaign: World Future Council; World Wind Energy Association; International Geothermal Association; International Solar Energy Society; World Council for Renewable Energy; Fraunhofer Institute for Solar Energy Systems; deENet; Climate Alliance of European Cities with Indigenous Rainforest Peoples; Renewables 100 Policy Institute; and Institute for Sustainable Energy Policies.

Special report: The Ren Alliance programme for 50 percent renewable energy by 2035

The IPCC's 5th Assessment report states that human influence is extremely likely to be the dominant cause of global warming. To reduce GHG emissions by 2100 to current levels, increasing transition to renewables with enhanced energy efficiency is necessary. Such a transition would also stimulate economy by creating more jobs and ensuring energy security. REN Alliance members supports reports as the REN21's Renewable Global Futures Report (2013) which demonstrates 50% renewables is achievable by 2035.

The REN Alliance believes that a 50% renewable energy supply by 2035, (and 100% soon thereafter), requires progress. To achieve this objective, there should be strong institutional support to various policy initiatives: energy demand reduction by behavioural changes and efficiency; continued growth of renewables; and decentralized energy generation with efficient energy storage. Such initiatives can be realized by following measures:

- » Creation of level playing field by removing fossil subsidies and investments along with realistic carbon pricing.
- » Enhancing supply reliability by investment in smart grids and energy storage systems.
- » Encouraging innovation in emerging technologies by continued investment in R&D and education in renewable energy so as to achieve cost competitiveness.
- » Promoting energy conservation and climate change awareness.
- » Promoting a global dialogue by supporting decision making agencies like IRENA and SE4All.

Vojvodina project

A significant milestone for WBA was signing of a contract in Novi Sad, Vojvodina, on development of a Bioenergy action plan for the region. Karin Haara and Heinz Kopetz visited Novi Sad and met the Provincial Secretary for Energy and Mines Natasa Bajic, to sign a protocol of cooperation. WBA will develop a Bioenergy action plan for Vojvodina within 12 months.

Dining Club

The WBA is now offering a new service for companies wishing to promote their products and services directly to senior decision makers. These are exclusive, invitation only events, designed to attract CEO's and business leaders across all industry sectors to meet each other over dinner and have access to a leading industry analyst.

- » Held at the best restaurants / private members clubs all over the world.

- » Industry leading analyst provides key insights into market forecast.
- » Dining Club is sponsored by relevant company offering solution.
- » Dining Club is free for all attendee's.
- » Opportunity for peer to peer networking.

The idea behind these dining events is to bring senior decision makers together over a meal to discuss the most important subjects in the bioenergy industry as recognised by appointed WBA experts.

If you are interested in utilising our network of senior bioenergy individuals and to collaborate with the WBA in organising a dining club, or if you would like to suggest a topic for a future dining club, please email: Andrew Potter, WBA Director of Communications, andrew.potter@world-bioenergy.org

World Bioenergy Award 2014

The work with the World Bioenergy Award started in 2013 and will be presented in Jönköping, Sweden on the 3rd June 2014 at the opening session of the World Bioenergy Conference and exhibition at Elmia. The award will comprise of a statuette and a diploma. The process for nominating leading individuals in the field of science, business or politics has already started.

A jury consisting of the board members of the WBA and the exhibition manager of World Bioenergy will decide which nominees will be competing for the award. These competing nominees will be announced on 18th April at the two organizers' webpages (www.worldbioenergy.com and www.worldbioenergy.org). A final winner will be announced on the 3rd June 2014, on the opening day of World Bioenergy.

COP19

WBA set many activities in favour of bioenergy during COP19 at Warsaw such as

- » Distribution of our bioenergy magazine no 5
- » Organizing a side event together with REN Alliance on 100% renewables. The side event was attended by more than 100 people
- » Press conference together with REN Alliance on 100% Renewable Energy
- » Participation at steering committee meeting of REN21 and REN Alliance
- » Interviews on the conference TV on bioenergy by Karin and Heinz
- » Distribution of material on bioenergy at the WBA booth
- » Information and discussion with participants of CO19
- » In addition, many important people could be met and interesting side events attached!

REN Alliance Cooperation

Presidency of REN Alliance 2013

In 2013, the WBA was the chair organisation of the REN Alliance, the global network of the industry association for Renewable Energy (hydro, wind, solar, geothermal and biomass). This year, along with the coordinating functions, the REN Alliance prepared a report "The road towards 100% renewable energies" and presented this at the UNFCCC climate conference COP19 in Warsaw 2013.

WBA has been able to sign a letter of cooperation between the REN Alliance and IRENA. This letter of cooperation gives us the formal possibility to reflect our industry areas in this forum.

3.4 WBA meetings

Board Meetings

- » Feb 14: Board meeting over telephone.
- » June 10-16: General Assembly, Steering Committee and Board meeting at CAN in Brasilia, Brazil
- » Sept 10: Board meeting on telephone
- » Dec 3: Board meeting over telephone

Conferences and other meetings

WBA representatives were involved in various conferences, summits and workshops dealing with bioenergy. They were guest speakers in most of these events. It was an opportunity to release fact sheets and magazines and increase our network.

January

- » 13 – 18: Abu Dhabi World Energy Submit
From 13th to 17th January 2013, the Sustainable Energy Week took place in Abu Dhabi. The WBA was represented at these events by Heinz Kopetz as an observer at the IRENA General Assembly, as participant and session leader at ADIREC, as member at the meeting of the steering committee of REN21. The events offered the opportunity for many contacts with representatives of governments, IRENA, IEA, REN21, REN Alliance, companies and representatives from ACORE, Brazil, UNIDO, the City Bank, the World Bank and many other countries.
- » 21 – 22: Biofuel Conference, Berlin
- » 25: Bioenergy 2020+ Workshop, Graz

February

- » 11 – 12: Bioenergy workshop, Lusaka
A bioenergy workshop was organised in Lusaka by Business Sweden to assess these potentials and opportunities. World Bioenergy Association acted as moderator, represented by Pär Oscarsson, expert on agriculture and biofuels in Africa. Zambian Bioenergy Association, with our board members Billy Katontoka and Jennipher Handoondo, helped assembling the leading actors from the business community, the ministries and from the scientific community.
- » 26 – 28: European pellet conference

April

- » 09: Svebio annual meeting
- » 16: Pathways to 100% renewables, San Francisco
- » 16 – 17: 21st OSCE conference on renewable energy, Kiev
- » 21 – 27: Bioenergy conferences, Shanghai and Nanjing
22: Keynote speech on global bioenergy markets, Shanghai
25: Keynote speech on bioenergy in a climate compatible energy system

May

- » 21 – 22: Nordic Baltic Bioenergy Conference 2013.
WBA is a supporter of the event. Speech by Karin Haara on small scale heating and about WBA. Chair of a session on bioenergy and CO₂ neutrality.
- » 21 – 24: IHA 2013, World Congress, Sarawak

June

- » 3 – 5: WWEC 2013, Cuba
- » 3 – 7: 21st EU BC&E Conference and Exhibition, Copenhagen
- » 7 – 16: Visit to Brazil. Study Tour. Brasilia, Bele Horizonte, Ouro Preto
11: Bioenergy Workshop, Ouro Preto, with Gorceix
12: Bioenergy Work-Shop in Bela Horizonte hosted by FAEMG
From the 9th to 15th June 2013 WBA undertook a study tour in Brazil and also held its annual meetings in Brasilia. The main purpose of this study tour was: “To get information about the newest developments in the bioenergy sector of Brazil and to improve the contacts of WBA to the Brazilian Bioenergy community.” The

study tour was organized by WBA board member Dr Laercio Couto and RENABIO (the Brazilian Network of Biomass for Energy). CNA (the Brazilian Confederation of Agriculture and Livestock) supported this study tour and made it possible.

The study tour involved various activities. On 11th June, there was a conference on global bioenergy and short rotation forests in Brazil. On 12th June, a workshop on bioenergy in Brazil was organized by CAN, WBA and RENABIO, supported by FAEMG. The visit also included visits to Duratex plant, eucalyptus forests, pellet plant near Lins and a sugarcane farm used for ethanol production.

In conclusion, the potential for biomass is huge, but a big part will be used to replace fossil fuels within the country. Activities to reduce the logistic costs – pellets, charcoal, torrefaction and pyrolysis oil might grow in importance. The land near the coast is getting more expensive and hence the cost of biomass production in the centre of Brazil is cheaper than near the coast. Brazil seems to be the leading country in the use of biomass for industry. Market forces mainly drive biomass development, as the structures are very efficient. The integration of small landowners in the biomass development could not be studied.

- » 17 – 19: European Bioenergy Conference, Brussels
- » 27 – 29: IRENEC 100% Renewables conference, Istanbul

September

- » 4 – 5: Bioenergy 2013, Jyvaskyla
- » 6: Croatian Bioenergy Conference, Nasice

November

- » 13: 2nd International Renewable Energy Forum, Moscow.
Whilst attending the Renewable Energy Forum, Moscow, Russia, between 12th and 13th of November, Heinz Kopetz delivered a speech and met with local business leaders and policy makers. Heinz remarked on the overall event: “The conference showed a great interest from companies in the development of Russia. However, the low prices of gas and oil in the region, combined with the public perception about an abundant supply of fossil fuels makes it very hard to develop RE in Russia”.
- » 11 – 22: Warsaw climate conference and different meetings and events. COP19 including different meetings, side events, business climate summit, REN Alliance meeting, interview Climate Change Television
- » 18 - 19: REN21 SC meeting. REN ALLIANCE side event

- » 25 – 27: Bioenergy Australia 2013, New Castle
- » 29: Workshop IRENA; REMAP 2030, Brussels
IRENA is preparing a study for the UN initiative Sustainable Energy for All “SE 4 All”. The title of this IRENA study: “Global Energy Projects: Roadmap for a Doubling Renewables in the Global Energy Mix – REMAP 2030”. Different experts were invited to the workshop to comment on the REMAP paper. Heinz Kopetz was invited to comment on the biomass chapter of the study, especially with regards to costs and potentials. In the end, Heinz summarized five points to be included in the report: Energy planning, Country criteria, Targets, Electro mobility, Cost issues

December

- » 4: WBA meeting with 39 Embassies in Stockholm on the 4th of December for promotion of the World Bioenergy Conference 2014. Stockholm
WBA met with representatives from 39 embassies and trade offices from around the world in Stockholm on the 4th of December for promotion of the World Bioenergy Conference 2014. It was the traditional get-together held by Elmia and Swedish Bioenergy Association Svebio to focus on the latest news and innovations in bioenergy.
- » 17: Bioenergy Workshop in Istanbul
- » 19: Workshop about sustainable forestry with the World Resource Institute representative, Stockholm
- »

3.5 WBA Board and Members

As of January 2014, WBA consists of 20 board members out of which 9 are alternates.

Board Members

Sribas Bhattacharya, International Energy Initiative, IEI, India
Albert Binger, Caribbean Community Climate Change Centre, Jamaica
Douglas Bradley, Climate Change Solutions, Canada
Laercio Couto, Brazilian Network of Biomass for Energy, RENABIO, Brazil
Jennipher Handoondo, Zambian Bioenergy Association, ZBA, Zambia
Heinz Kopetz, World Bioenergy Association, WBA, Austria
Andrew Lang, Wood Energy Group, Australia
Kai Johan Jiang, National Bioenergy, Peoples Republic of China
Michael J McAdams, Advanced Biofuels Association, USA
Tanay Sidki Uyar, Eurosolar Turkey
Judi Wakhungu, Ministry of environment, water and natural resources, Kenya (Before African Centre for Technology Studies ACTS, Kenya)

Alternate Board Members

Katia Abreu, The Confederation of Agricultural and Livestock and plantation CNA, Brazil
Shota Furuya, Institute for Sustainable Energy Policies ISEP, Japan
Wan Asma Ibrahim, Forest Research Inst. FRIM, Malaysia
Jean-Marc Jossart, Aebiom, Belgium
Billy Katontoka, Zambian Bioenergy Association, ZBA
Remigijus Lapinskas, Lithuanian biomass energy association LITBIOMA, Lithuania
Benard Muok, African Centre for Technology Studies ACTS, Kenya
Philip Peck, The International Institute for Industrial environmental economics IIIIEE, Sweden/Australia
Vivian Zheng, National Bioenergy, Peoples Republic of China

Nominating Committee

Five members from the global bioenergy community made up the Steering Committee. The first member and convenor of the committee is: Bo Hektor, IEA Bioenergy Task 40, First bioenergy AB. However, after the unfortunate demise of Prof. Abeeku Brew Hammond in 2013, the SC currently consists of four members.

Bo Hektor, First Bioenergy, Sweden, Convenor
Jessie Elauria, University of the Philippines Los Baños, Philippines,
Miguel Trossero, Bioenergy Strategies, Argentina,
Ralph Sims, Massey University, New Zealand

Secretariat

Karin Haara, Executive Director WBA
Andrew Potter, Director of Communications
Marcus Rostamkhani, Trainee, May 2012 – February 2013

Members

Members of Honour

Kent Nyström, Sweden

Full Members

Avebiom, Spain
Svebio, Sweden
Aebiom, Belgium
CanBio, Canada
proPellets, Austria
ZBA, Zambia
The Wood Energy Group, Australia
Energigården – Center for Bioenergy, Norway
Czech Bioenergy Association, Czech Republic
Climate Change Network, Nigeria
Eurosolar, Turkey
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BDI – BioEnergy International AG, Austria

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Ohene Kwadwo Akoto, Ghana
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Silver Supporter

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4. FUNDING

WBA would like to acknowledge the continued support of financing from the Austrian Government and from our Official Supporter Andritz our Silver supporter of WBA, Viking Heat Engine, Agrana and KWB and donations from Raiffeisen Klimainitiative, BioWärme, and LKO.

It is a continued challenge to build a world organization, especially in the financing. With sustained support from current supporters and members, the possibilities of new funding partners would enable WBA to be in a stronger position in 2014.

The financial report with figures is available on request, info@worldbioenergy.org.

WBA'S MAIN PURPOSES:

1. Spread information about the possibilities being available by utilization of the great amount of biomass resources. Visualise how these possibilities could be realized by showing different models suitable for different growing conditions and different socio economic conditions, etc.

2. Develop sustainability criteria that guarantee that bioenergy could be supplied without threatening food and feed supply, water supply, rainforest and biodiversity and economic growth.

3. Spread knowledge and technology

Capacity building and technology transfer by BioenergyConnect a web-based communication and business platform.

To learn more and apply for membership, please visit:

worldbioenergy.org »

Stockholm 2014-02-04

Board members below have signed the Annual Report for 2013.

Heinz Kopetz,
President

Sribas C. Bhattacharya

Douglas R. Bradley

Albert Binger

Judi W. Wakhungu

Jennipher Handoondo

Andrew Lang

Kai Johan Jiang

Laércio Couto

Tanay Sidki Uyar

Michael J. McAdams

My audit report has been submitted and signed 2014-04-02

Heléne Ragnarsson,

Authorized public accountant