



**WORLD BIOENERGY
ASSOCIATION**



Annual report 2009

World Bioenergy Association
Corporate Identity Number 802444-7958

Annual report for the financial year 2009-02-01--2009-12-31

The Board of Directors presents the following annual report.

Contents

1. Letter from the President
2. WBA Summary of Achievements
3. Membership Report
4. Communication and Networking
5. Research, policy & Analysis
6. Board of Directors
7. Members
8. Funding

1. Letter from the President

Dear WBA members:

The World Bioenergy Association (WBA) came into being as a global organisation in May 2008 and in its relatively short life can already lay claim to be one of five industry organisation representing sustainable energy sources in the International Renewable Energy (REN) Alliance. Beside biomass there are geothermal, hydropower, solar and wind.

And even though WBA remains in a start up phase, we received an overwhelming response to our first position paper: “Global Potential of Sustainable Biomass for Energy”, which was presented in conjunction with the COP 15 climate negotiations in Copenhagen December 2009.

The purpose of WBA is to promote the increasing utilisation of bioenergy globally in an efficient, sustainable, economic and environmentally friendly way. One prominent item in the WBA Action Plan is to “Initiate and promote a study of the potential of biomass for energy built on already presented research. Consequences for food and forest industry must be seriously treated and analysed”.

The results of another important WBA initiative, a project called “Certification Criteria for Sustainable Biomass for Energy”, will make it easier for both buyers and sellers to make business on a bioenergy market, both internationally and national.

The third WBA position paper also in conjunction with and based on a report from the Swedish University of Agricultural Sciences, Department of Energy and Technology, called “Biomass for Energy versus Food and Feed, Land Use Analyses and Water Supply”, will be a clarification in the ongoing debate and an explanation that sustainable biomass for energy is no threat to people or environment.

WBA also has a very competent interim board, representing a number of different geographical areas as well as a wide-array of specialities within the global bioenergy industry. Nevertheless, we hope to add one more representative from South America in the coming year, preferably with expertise in transport fuels. Through its board members, WBA has gained recognition and approval around the world and through its work has been able to further spread their efforts across WBA’s wide network.

Our collaboration with the REN Alliance has also led to a very promising relationship with the International Renewable Energy Agency (IRENA) an intergovernmental organisation with 142 member states. REN Alliance and IRENA have agreed to work together in order to speed up the utilisation of renewable energy sources worldwide. The fields of co-operation will be: Carbon funds for renewable energy, Sustainability assessment, Potentials for renewables and Renewable energy scenarios.

Looking ahead to the remainder of 2010 and beyond, WBA also plans to devote more energy to building up its membership base, something which is vital to the organisation's future.

Today we have 30 members, which is a good start indeed, but a number we hope to see grow substantially in the near future. In addition to extending our reach by adding individual organisations and associations to our ranks, WBA also hopes to add more transnational members, similar to early supporter and current member Aebiom, the European Bioenergy Association, which indirectly brings roughly 4,000 members into the WBA network.

As we continue to intensify our work in the coming year, we're confident that more organisations and businesses will come to see the benefits of the WBA network and its potential to affect policy and facilitate commercial opportunities for its members.

WBA also plans to work harder to help create new national bioenergy organisations around the world which we expect will play important roles as umbrella organisation in their respective countries similar to the way that WBA does on a global scale.

In addition, WBA will continue to make progress on its previously accepted Action Plan.

It is also important to get started on the development of a Business and Research Platform, which could function as a global marketplace and networking centre for companies, researchers, and others.

The platform, which will function primarily as a part of the WBS website, will serve as an important tool for helping businesses collaborate with one another. As such, it must be made to function globally as a compliment to WBA's other activities, facilitating the creation of networks between relevant actors on the bioenergy market.

A preliminary version of the tool already exists in the WBA website's "Events" sections. But in order to help the Business and Research Platform reach its full potential, we must assemble the necessary funding to support its further development.

Ultimately, the WBA website will become a window of opportunities for member companies, ideally making it easier for them to do business with one another. The fully-equipped WBA website could then also serve as model for other bioenergy associations looking to mirror WBA's approach to strengthening its member network.

WBA will also be working hard to shine a light on market barriers and to present opportunities in international markets to its members.

A practical example of these efforts is the matter of standards developed by the North American standards organisation AMSE which prevent European biomass boilers from being sold on the North American market.

Upon learning of the issue, WBA wrote letters to the Canadian government and raised the matter within the International Standards Organisation (ISO), as well as working to get the issue on the agenda of trade barrier discussions between Canada and the European Union.

The results of WBA's work have been spread to members and subscribers through our newsletter and website but also via our attendance at major conferences and exhibitions.

Launching WBA has attracted lots of attention in the international media, as did our joining the REN Alliance. WBA was also at centre stage during the September 2009 announcement in Stockholm that the REN Alliance and IRENA were launching a collaborative effort to speed up the utilisation of renewable energy sources worldwide.

WBA has also tried to spread its message further through the publication of two issues of our Bioenergy magazine as well as our report on the global potential of sustainable biomass for energy. Launching the website, starting our newsletter, and developing a membership brochure have also been important tools for disseminating important information related to bioenergy and in our efforts to recruit more members.

We look forward to a what we expect will be a successful 2010, filled with more exciting developments for WBA in terms of expanding and strengthening our network, as well as raising our profile on the international stage.

We thank those who serve in our Board of Directors and secretariat. We thank you members for your support.

Kent Nyström
President WBA

2. WBA Summary of Achievements

The World Bioenergy Association (WBA) is the global organisation dedicated to supporting and representing the wide range of actors in the bioenergy sector. Its members include national and regional bioenergy organisations, institutions and companies.

Since its foundation in 2008, the WBA has been working to address a number of pressing issues including certification, sustainability, standardisation, bioenergy promotion, and the debates about bioenergy's impact on food, land-use and water supplies.

The WBA's vision is to:

- Ensure a fair distribution of the world's biomass for energy resources;
- Drive initiatives that encourage environmentally friendly and sustainable bioenergy production;
- Demonstrate the potential of bioenergy as a strategic renewable resource

During the 2008 World Bioenergy conference, held in Jönköping, Sweden 27-29 May, the constitution of World Bioenergy Association (WBA) was made. The first interim board meeting was held May 28, 2008.

The purpose of the World Bioenergy Association (WBA) is to promote the increasing utilisation of bioenergy globally in an efficient, sustainable, economic and environmentally friendly way.

Within three years, WBA expects to be self-financed by member fees from national and regional bioenergy associations, organisations, and companies from the bioenergy sector around the world. Since its inception, WBA has been supported by the Swedish National Energy Agency, Swedish Agency for Economic and Regional Growth and the Swedish Board of Agriculture.

The results of the work completed through 31 December 2009 can be summarised as follows:

1. An action plan has been adopted
2. A Secretariat has been established in Stockholm, Sweden.
3. Statutes, rules of procedure and other official documents are developed.
4. A plan for WBA's work with a global system on certifying all kinds of biofuels has been adopted by the WBA board: "Certification Criteria, Sustainability Criteria & Bioenergy versus Food, Land-use, and Water Supply" has been initiated by the WBA Interim Board.

5. The first WBA Position Paper: “Global Potential of Sustainable Biomass for Energy” has been released at the COP 15 climate negotiations in Copenhagen December 2009.
6. The research on the WBA initiative of two projects called “Certification Criteria for Sustainable Biomass for Energy” and “Biomass for Energy versus Food and Feed, Land Use Analyses and Water Supply” is ongoing and will be base for the next two WBA position papers
7. The WBA website, www.worldbioenergy.org, is up and running.
8. The publication of a newsletter for members and others who are interested. We have about 200 subscribers.
9. The publication of two issues of Bioenergy magazine
10. The accumulation of 30 WBA members
11. The launch of an initial version of a business and research platform, which will be further developed when additional financing becomes available.
12. A workshop entitled “International Forum of WBA Bioenergy” was held in Beijing, China on June 12, 2009.
13. A WBA Bioenergy Workshop was held in conjunction with World Bioenergy Clean Vehicles & Fuels in Stockholm, Sweden under the title “Global potential for sustainable bioenergy – WBA offer to COP 15”, on September 17, 2009. WBA was a supporting partner to the conference.
14. Having WBA be chosen as the organization representing the bioenergy sector as a member of the International Renewable Energy Alliance (REN Alliance). This membership led to WBA hosting a meeting in Stockholm between REN Alliance and the recently inaugurated International Renewable Energy Agency (IRENA), where cooperation between REN Alliance and IRENA in four areas was agreed upon.
15. WBA was represented at the COP 15 meeting in December as a member of the REN Alliance. The Alliance had a stand at the venue, held a press conference and gave some interviews, one for every energy resource, on the site. A paper on financing of renewables was released: “Scaling up for a renewable future – Reforming existing mechanisms and shaping new approaches post 2012.”
16. The board have had 4 board meetings: 2009. Telephone meeting in March, Beijing in June, Stockholm in September and telephone meeting December.

3. Membership Report

The purpose and goal

World Bioenergy Association's purpose is to influence global development using bioenergy in an effective, responsible, and environmentally friendly way.

The Association aims to be an international, independent forum where all questions related to the topic will be given a hearing, which will develop a certification process for raw bio-material, and which will facilitate business development for purveyors of biomass- and bioenergy-related equipment and supplies. WBA will conduct discussions about competition between biomass for food supplies, the raw-material industry, and energy. Taken together, WBA's activities should help lead to a sustainable energy system. Our work, then, will be to create contacts in order to provide opportunities to do business.

Join the NEW INTERNATIONAL VOICE OF BIOENERGY.

World Bioenergy Association will:

- Become a strong voice representing the global bioenergy actors such as associations, industry and researchers
- Develop and promote certification and standardisation programmes,
- Demonstrate the potential of bioenergy as a strategic renewable resource,
- Take an active role in the influencing of public opinion,
- Initiate and promote a study of potentials of biomass for energy,
- Clearly state the need for steering instruments.

Build a strong future for bioenergy by joining together!

We invite all national and regional organizations, institutions and companies involved with bioenergy to join WBA to help to make a more sustainable and productive world. Whether you are looking for the latest industry developments, information on appropriate technology and equipment, business partners all over the world, new markets, the World Bioenergy Association will make it happen. Don't hesitate and be a member who will earn all this opportunities.

MEMBER FEES FOR 2009

FULL MEMBERS

Affiliation as a Full Member is open to different kinds of bioenergy associations dealing with a single fuel or a broader field.

Full Members are mainly non-profit organizations. The fee is based on the economic strength

and the establishment status of the association: from new and/or weak, to old and/or strong.

1. New and/or financially weak 300 €/year
2. 600 €/year
3. 1,000 €/year
4. 2,000 €/year
5. Old and/or financially strong 3,000 €/year

ASSOCIATED MEMBERS

Affiliation as an Associated Member is open to different enterprises and organizations including, but not limited to, producers of bio-fuels (solid, liquid and gas), processors, traders, handling and transport entrepreneurs, farmers, consumers and equipment manufacturers as well as those engaged in research, education, training, consulting, certifying, promoting and advocacy related to bio-fuels and bioenergy.

Thus, Associated Members are mainly companies and other profit-making organizations which have an appropriate membership fee depending on the economic strength of the organization. Basically, the fee is based on an organization's bioenergy-related turnover and/or interest in make contacts with business, research and other partners.

1. Small enterprises/organizations 500 €/year
2. 1,000 €/year
3. 2,000 €/year
4. 4,000 €/year
5. Large enterprises/organizations 8,000 €/year

SUPPORTERS

Individuals may join WBA as Supporters.
The fee is: 50 €/year

Furthermore, WBA is supported both by national and international bioenergy associations which are interested to promote it and join with the world's solar, wind, geothermal and hydro associations on the global level in the REN-Alliance.

Finally, the WBA's members will include the bioenergy or biomass associations of almost all countries of the world and as a matter of fact it has already had support pledged by industries and NGOs. As such WBA will have members within both the manufacture and use of bioenergy plants and equipment, but also in the demand for biomass and bio-fuels. These members see it as imperative that the development of sustainability criteria is implemented as a first priority.

4. Communication and Networking

A secretariat has been established in Stockholm

A secretariat has been established and has its functions in basic level such as elaboration of regulation and “Rules of Procedure”. These documents were admitted by the board of the directors and approved by the Swedish fiscal authorities. This made possible the registration of the association obtaining the association number 802444-7958 and registration proof. A bank account was opened; membership application and fee forms were prepared which were accepted, as well, by the board of the directors.

WBA has been undergoing rapid expansion during its first year. This should count as a positive impress. However, the association requires more human and monetary resources. We consider that the process of recruiting members needs more efforts in order to keep growing . Thus, the board of the directors keeps working to achieve all planed activities. Until now, the WBA has an interim board of directors, a president, an executive assistant and a media responsible/webmaster. All of them work half time, except the interim board.

A business-research platform is in our website

This meeting place is available in our website and the possibilities to develop this are many. The board has decided that ”WBA will introduce two **web-meeting platforms** whose members will also get the opportunity to meet face to face at some large international events. The platforms will be called:

Business platform, where sellers and buyers of bioenergy equipment, systems and fuels can meet and hopefully even investors can be stakeholders as well.

Research platform, where researchers can ask for assistance, missing information or seek project cooperation. This platform is a meeting point not only for researchers but also for bioenergy innovators and developers.”

Website launch, www.worldbioenergy.org <<http://www.worldbioenergy.org>>

WBA has launched the website www.worldbioenergy.org <<http://www.worldbioenergy.org>> having a supervision of how many people have visited it and where in the world they were connected. From April to December , 2009 the website counted with 100,000 visits from about 100 different countries. This proves the necessity to keep updating this media.

A constant updating of news to WBA´s members

A constant newsletter will be available in our website but also for our members, offering them special codes. Moreover, other of our products is a magazine that has been published twice. About 200 subscribers are addressed.

Bioenergy workshop with 50 participants in Beijing

In June 2009 was imparted a workshop called “International Forum of WBA Bioenergy”. This was possible in co-operation with the Chinese company Dragon Power. The forum was made in order to exchange experience. You can find information about this event at our website.

Bioenergy workshop in Stockholm during the World Bioenergy Clean Vehicle & Fuels conference in Stockholm 2009 arranged by WBA on September 17th.

COP 15 press conference together with the REN Alliance

REN Alliance has arranged a press conference and a stand during the COP 15 in Copenhagen. REN-Alliance is composed by the International Geothermal Association (IGA), the International Hydropower Association (IHA), the International Solar Energy Society (ISES), the World Wind Energy Association (WWEA) and the World Bioenergy Association (WBA).

5. Research, policy & Analysis

Global Potential for Bioenergy Sufficient to meet Global Energy Demand

A position paper by World Bioenergy Association (WBA) based on a report by the Department of Energy and Technology at the Swedish University of Agricultural Sciences (SLU) shows that the global potential to produce biomass for energy in a sustainable way is sufficient to meet global energy demand.

According to various scientific studies, the estimated potential for bioenergy production is 1 135 – 1 548 EJ (ExaJoule) in 2050, based on different scientific studies. The global energy consumption is 490 EJ today, and could reach well over 1 000 EJ in 2050, according to IEA projections.

This first WBA Position paper was called “Global Potential of Sustainable Biomass for Energy”.

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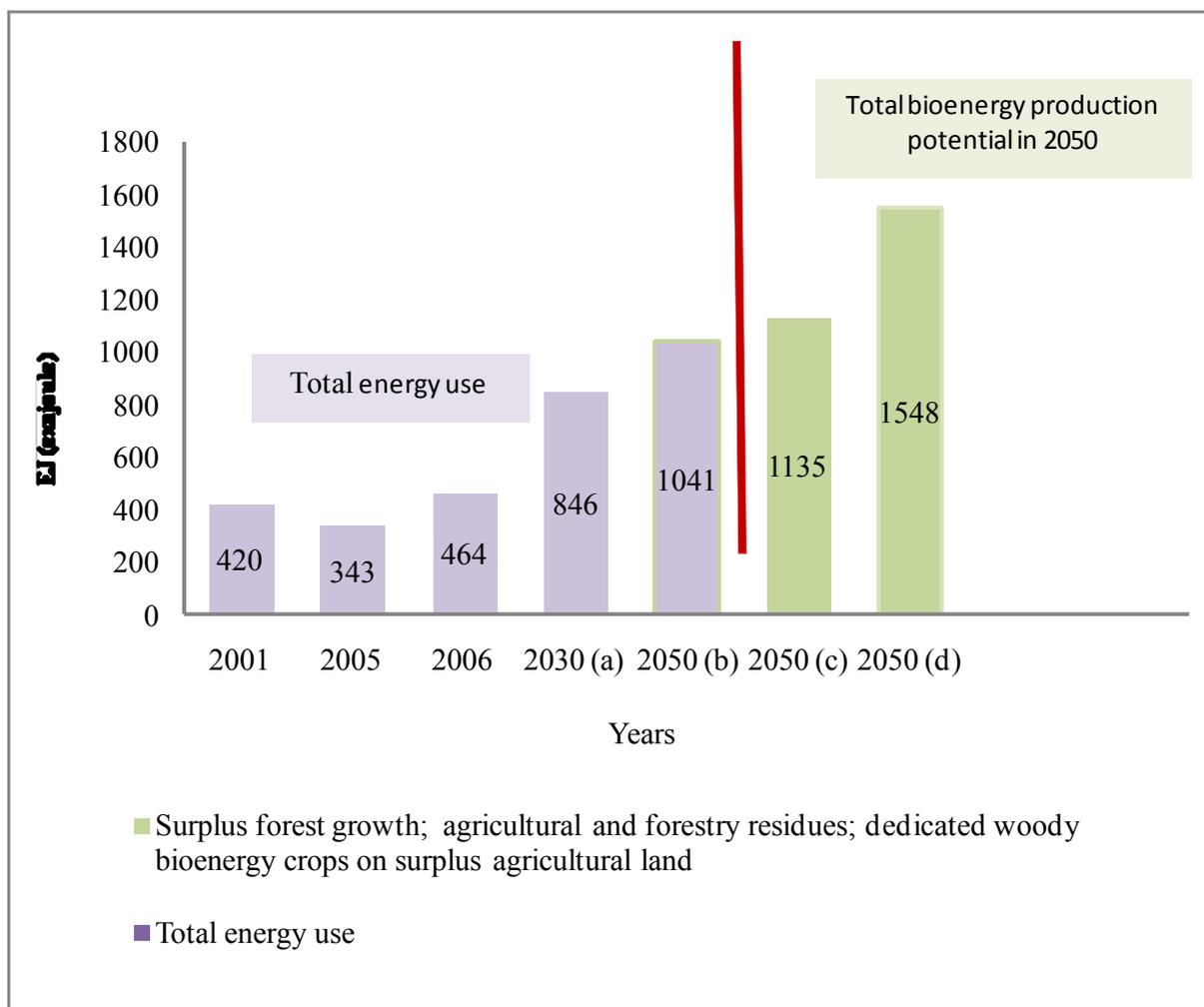
Concluding the three World Bioenergy Association Position Papers are:

- WBA Position Paper no 1: Global Potential of Sustainable Biomass for Energy (Report 013, ISSN 1654-9406, Swedish University of Agricultural Sciences)
- WBA Position Paper no 2: Certification Criteria for Sustainable Biomass for Energy
- WBA Position Paper no 3: Biomass for Energy versus Food and Feed, Land Use Analyses and Water Supply

The first position paper is summarized below and illustrated of the graph.

Conclusions

- The world's bioenergy potential is large enough to meet the global energy demand in 2050. There are no technical problems in shifting the energy mix from fossil fuels to bioenergy.
- In the past decade, the number of countries exploiting biomass opportunities for the provision of energy has increased rapidly. The global use of biomass for energy increases continuously and has doubled in the last 40 years.
- Bioenergy provides an effective option for the provision of energy services from a technical point of view. In addition, the benefits accrued go beyond energy provision, creating unique opportunities for regional development. Bioenergy can be the solution to economic, national, environmental and political security.
- Biomass can be used to produce different forms of energy such as power, fuels, heating and cooling, thus providing all the energy services required in a modern society.
- The future potential for energy from biomass depends to a great extent on land availability. Currently, the amount of land devoted to growing biofuels is only 25 million hectares or 0.19% of the world's total land area.
- Sustainable development of biomass is the major challenge in increasing the production of biomass. Bioenergy is based on resources that can be utilized on a sustainable basis all around the world.
- Certification is judged to be the most suitable instrument for the development of sustainable bioenergy systems.



- Notes:
- 1) The total energy use for years 2001, 2005, 2006 are from IEA 2003, IEA 2005 and IEA 2007a respectively
 - 2) The total energy use in 2030 (a) is equivalent to power generation plus other energy sector plus total final consumption and does not include ambient heat from heat pumps nor electricity trade (Source: IEA 2008)
 - 3) The total energy use in 2050 (b) is based on the high consumption scenario (Smeets et al., 2004).
 - 4) The total geographical potential of biomass energy in 2050 (c) is based on an upper limit of the amount of biomass that can come available as (primary) energy supply without affecting the supply for food crops. (Source: Hoogwijk et al., 2003).
 - 5) The total global bioenergy production potential in 2050 (d) (1548 EJ) is based on scenario 4 in the source, where a type of agricultural management applied is similar to the best available technology in the industrialized regions (Source: Smeets et al., 2006).

Figure 7. The total global energy use for years 2001, 2005, 2006 and 2050 and total global bioenergy production potentials in 2050

Membership in REN Alliance

The International Renewable Energy Alliance (REN Alliance) consist of the International Geothermal Association (IGA), the International Hydropower Association (IHA), the International Solar Energy Society (ISES) and the World Wind Energy Association

(WWEA).

Since WBA joined REN Alliance "All the leading international renewable energy organisations are now part of the REN Alliance." The membership in REN Alliance have helped WBA to gain its position as the voice of the bioenergy industry. In addition, REN Alliance have decided on cooperation with IRENA within the following four areas

- Carbonfunds for renewable energy
- Sustainability assessments
- Potentials for renewables
- Renewable energy scenarios

6. Board of Directors

The interim board consists today of 10 persons with one vacancy. The board was appointed mainly after 2 criteria: geographical spread and different field of speciality or competence. They cover a wide experience base through following persons and their organisations:

1. Kent Nyström, President of WBA, former MD of Svebio, Swedish Bioenergy Association,
2. Sribas C. Bhattacharya, International Energy Initiative NGO, India,
3. Douglas R. Bradley, Climate Change Solutions and Canadian Bioenergy Association NGO,
4. Heinz Kopetz, European Biomass Association. Representing 32 national biomass organisations in Europe.
5. William Holmberg, ACORE, American Council of Renewable Energy Non-profit organization based in Washington, D.C,
6. Tetsunari Iida, ISEP, Institution for Sustainable Energy Policies. ISEP is an independent, non-profit research organization in Japan,
7. Judi W. Wakhungu, African Centre for Technology Studies (ACTS). ACTS is a Nairobi-based international intergovernmental science, technology and environmental policy think -tank that generates and disseminates new knowledge through policy analysis, capacity building and outreach,
8. Jennipher Handoondo, Zambia National Farmers Union's Oil Seed Commodity Unit. Promoting Jatropha on farm level in Zambia,
9. Andrew Lang, Chairman, SmartTimbers Cooperative, Australia,
10. Kai Johan Jiang, Dragon Power Group, Co., Ltd. Chairman of Dragon Power Group Co., Ltd, and National Bio Energy Group Co., Ltd and the economic advisor to Shandong provincial government

Secretariat: Karin Haara, Executive Assistant, Magnus Ånstrand, Communications, David Landes, Editor have been working on consultant basis for WBA.

7. Members

Full Members

Avebiom, Spain
Svebio, Sweden
Aebiom, Belgium
Canbio, Canada
Danbio, Denmark
proPellets Austria
Acore - Biomass Coordinating Council, US
Zambian Bioenergy Association, ZBA

O&D Quality International Farms Ltd, Ghana

Associated Members

First Bioenergy, Sweden
Elmia AB, Jakob Hirsmark, Sweden
EFO, Sweden
Rindi Energi AB, Sweden
Silvex Energy AB
Bandit Industries, INC, US
United Loggers Ltd
DP Cleantech
Dep of Science & Technology, State forest Admin P.R. China
North China Electric Power University

Supporter Members

Ohene Kwadwo Akoto, (Jatropha Africa), Ghana
Bothwell Batidzirai, Chinhoyi Univ, Zimbabwe
Joseph Kingue(SFID Groupe-Rougier, Cameroun)
Dirk Volkmann, Germany
Anders Rydåker, USA
Laercio Couto, Brasil
MNA Bhuiyan, Japan
Mukesh Tulsidas Pandya, India
Keshinro Michael Tanimola,(KZT Bus Ent) , Nigeria
Nana Sarfo Agyemang Derkyi, (CSIR), Ghana

8. Funding

World Bioenergy Association would like to gratefully acknowledge financing for the Project WBA facilitated through Swedish Bioenergy Association from the Swedish National Energy Agency, Swedish Agency for Economic and Regional Growth and the Swedish Board of Agriculture. This funding was until 2009-06-30.

After 1 July 2009 the funding is to WBA through the Swedish National Energy Agency and is intended to grow the amount of members and build the organisation further.

The Income Statement, Balance Sheet and notes to the accounts are available on request.

Washington 2010-02-02

Board members below have signed the Annual Report 2009.

Kent Nyström
President

Sribas C. Bhattacharya

Douglas R. Bradley

Heinz Kopetz

William Holmberg

Tetsunari Iida

Judi W. Wakhungu

Jennipher Handoondo

Andrew Lang

Kai Johan Jiang

My audit report has been submitted and signed 2010-02-03.

Heléne Ragnarsson
Authorized public accountant