

Minutes of
The 3/2009 Joint Meeting of Council and Associates of
Thailand Business Council for Sustainable Development (TBCSD)
Wednesday December 23rd, 2009. 14:00 – 16:30 hrs
Venue: Room 201, Governor Building, EGAT, Nonthaburi

The meeting begins at 14.00 hrs.

I. Chairman's Remarks

Prof. Dr. Phaichitr Uathavikul, the Honorary Advisor of TBCSD, on the behalf of the chairman welcomed all council and associate members to the meeting and began to proceed the meeting, while Dr. Anusorn Sangnimnuan, the Chairman of TBCSD, was providing interview answers to the press,.

Dr. Anusorn Sangnimnuan, the Chairman began to chair the meeting at 14.40 hrs. Firstly, the chairman thanked Mr. Wirach Kanchanaphibul, Deputy Governor - Corporate Social Responsibility, from Electricity Generating Authority of Thailand (EGAT) for hosting the meeting. Dr. Anusorn congratulated Dr. Wichit Surapongchai, Executive Administrator of Siam Commercial Bank Public Company Limited, and Mr. Banthoon Lumsum, Executive Administrator of Kasikorn Bank Public Company Limited, on receiving honorary award as the Financier of the Year 2009 from the Money and Banking Magazine. Dr. Anusorn also congratulated Mrs. Kannikar Chalitaporn, President of Siam Commercial Bank Public Company Limited, on receiving the honorary award as the Best CEO Awards 2009 from the Stock Exchange of Thailand and Money and Banking Magazine. Additionally, Dr. Anusorn congratulated to Mr. Pramote Insawang for receiving the Outstanding Engineer Award of EGAT.

Dr. Anusorn notified to all members that he and members from PTT PCL and Siam Cement Group joined the WBCSD meeting in October 2009 at Washington DC., United States of America. Dr. Anusorn thought that the meeting was very interesting and climate change was raised at the meeting as a serious issue. The chairman further mentioned that China has worked on climate change seriously and Shanghai would host a seminar and expo on clean energy in 2010, of which TBCSD members should join.

Resolution: All council and associate members were welcomed and acknowledged the chairman remarks.

II. Business Session

Prof. Dr. Phaichitr began the business session by introducing new members of TBCSD.

(2.1) Introduction of new members

Prof. Dr. Phaichitr introduced Asia Cement Public Company Limited as a new member and asked the representative from the company to introduce the company to all members. Additionally, a new public relation working group from ThaiNamthip Limited was introduced to all members.

Resolution: The participants acknowledged and warmly welcomed the new members and new council members, associate members and PR working group. The member from Asia Cement Public Company Limited informed the meeting on the company's profile.

(2.2) Review of the agenda

Prof. Dr. Phaichitr asked members to consider the agenda of the 3/2009 Joint Meeting of the Council and Associates of TBCSD for amendments.

Resolution: The agenda was reviewed by the members.

(2.3) Review and approve of the minutes of the 2/2009 Joint Meeting of the Council and Associates of TBCSD

Prof. Dr. Phaichitr asked all members to consider the minutes for amendments.

Resolution: The members reviewed the minutes of the 2/2009 Joint Meeting of Council and Associate of TBCSD.

(2.4) Progress Report 2009

Prof. Dr. Phaichitr asked TBCSD secretariat office to inform the progress of projects and activities according to the 2009 work plan. Dr. Qwanruedee Chotichanathawewong, Executive Director, reported the progress of the work in 2009 to all members. The details of work were categorized into 5 programmes as following:

Programme 1: Policy Development in Thailand

- ***Low Carbon Society***

The background information of VER project was briefly mentioned including the purposes of creating VER project, which were intended to improve the water quality in one river basin and to have a win-win situation for environment and society. However, the idea of TBCSD's VER to create a CDM project from pig farms was realised later that the World Bank had already started a similar CDM project on pig farms. The TBCSD's CDM project was terminated. Instead, TBCSD will monitor the implementation of the World Bank's project and will develop VER project for forest with the cooperation of Thailand Greenhouse Gas Management Organization (Public Organization).

Low Carbon Society Committee was formulated in order to facilitate the work of TBCSD. The committee comprised of relevant people from non-member organizations. Low Carbon Society Committee has Mr. Wirash Kanchanapibul as a committee chair, who agrees to do open burning reduction in agricultural activities as a next activity.

- ***Natural Disaster***

The brainstorming meeting on natural disaster was held to identify gaps that TBCSD could fulfill in supporting the Thai government. 2 areas were identified as gaps. The first aspect is the prevention of impacts from natural disasters in risk areas and the other one is education on natural disasters for local people in risk areas.

The Natural Disaster Committee consequently arranged for a meeting and agreed to implement activities on natural disaster prevention and mitigation at Phufa Development Project, Bor Kleau, Nan province.

- ***Water Security***

The brainstorming meeting also identified that raising awareness, building small reservoirs, groundwater boring and building check dams in drought stricken areas are activities that could be carried out by TBCSD.

During the Natural Disaster Committee meeting, Dr. Saksit Tridech, Permanent Secretary of the Ministry of Natural Resources and Environment and committee chair of the Disaster Committee, provided an input on water security. The idea of utilization groundwater in drought areas for consumption and agricultural proposes was introduced to all members. It was agreed that the committee would work on utilization of groundwater and building check dams.

- ***Supporting the works of the social and environmental networks leading towards the formulation of policy and plan: 5 issues and 5 networks***

The Eco-school Award project under youth network was in the final evaluation stage of awarding procedure. It is expected that the award will be given to the winners during Gala Dinner in 2010.

- ***Extra Works not listed in 2009 Work Plan***

Other supporting activities for Low Carbon Society were implemented through donation of books, donation of glass and ceramic wares, and replacing fluorescent light bulbs with T5 fluorescent light bulbs. It was estimated that 10.24, 9.25 and 142 ton of CO₂ equivalent emission was reduced by these activities consecutively. Additionally, replacing fluorescent light bulbs with T5 fluorescent light bulbs can save money around 842,000 Baht/year.

Resolution: The meeting acknowledged the progress under the Programme 1. Additionally, Dr. Qwanruedee mentioned that the target for replacing fluorescent light bulbs with T5 fluorescent light bulbs for 2010 was 100,000 light bulbs.

Programme 2: Capacity building with regard to business competitiveness and good practices

- ***Learning together***

During the past 9 months, there were 5 seminars and site visits to share knowledge among members. These seminars and site visits are “Economic Crisis 2009”, “Triple Bottom Lines: the Concept of Responsibility for People, Planet and Profits”, “Movement of Network on Social Innovation with WBCSD and IGES”, “Site visit to NOK Precision Component Thailand Co. Ltd.”, “Energy Saving and Green Building for High Building”, “Study visit on the Green Globe Award of PTT PCL.” and “Development of Fuel Cell by Thai Citizen”. There were opportunities for members and other participants of seminars and site visits to learn and share knowledge on several issues, including CSR, environmental movements in Asia Pacific, movement of WBCSD, small group activity, one page management, energy saving, and green building, for example.

Domestic study trip arranged in March to visit Siam City Cement PCL, Mitr Phol Sugar Company Ltd. and Bann Noan Saluay School was successful. The TBCSD Carbon Neutral Trip to the North to build check dam, plant tree and do charity was accomplished in the aspect of GHG reduction.

Suggestion: Regarding the Carbon Neutral Trip, Dr. Qwanruedee mentioned about Doi Saken urban forest at Chiang Rai province managed by local people. TBCSD secretariat office will nominate this urban forest for "The Ryutaro Hashimoto APFED Awards for Good Practices" in 2010. The office will submit the proposal for the award.

- ***GHG Quantification and Reduction (GQR) project***

Dr. Qwanruedee notified to all members about the summary of GHG quantification and reduction (GQR) workshops that implemented with pilot organizations (PTT PCL, Siam City Cement PCL and Bangchak PCL). It is expected that project will be continued by disseminating to all members.

Resolution: The meeting acknowledged the progress under the Programme 2.

Programme 3: Raising Public Awareness of Culture and Environmental Issues

- *Summary of the key issues*

TBCSD prepared 3 TV spots on low carbon society, natural disaster and water security in order to create awareness for the public and to create recognition of TBCSD to the public.

Dr. Qwanruedee mentioned that the first TV spot on “Supporting the use of Thai products for battling global warming and recovering Thai economy” with Dr. Anusorn as a presenter has been played several times on NBT and Thai PBS channels.

Another TV spot on raising awareness and providing information for the natural disaster was introduced to all members in the meeting and has been initially launched on Channel 3. Mr. Prasert Bunsumpun, President and Chief Executive Officer of PTT PCL, is a presenter for the spot.

TV Spot on water security is in preparation stage. Mr. Kan Trakulhoon, President and CEO, Siam Cement Group (SCG) is being approached to be a presenter for the spot.

Resolution: The meeting acknowledged the progress under the Programme 3.

Programme 4: Reaching out to the public and creating wider range of networks

- *Immediate Responding to the National Crisis*

Dr. Qwanruedee informed the members that TBCSD donated money to 3 provinces to alleviate cold weather crisis.

She also informed the meeting that TBCSD donated Pli Bai journal (journal for kids and youth) to support the education for students for schools located in 3 southern provinces on the Thai borders.

- ***Disseminating the work of network (among members) to the public***

TBCSD secretariat office in cooperation with Thailand Environment Institute (TEI), Asian Development Bank (ADB), Asian Development Bank Institute (ADBI), and Asian Institute of Technology (AIT) arranged a workshop on “Opportunities and Priorities for Low Carbon Green Growth in Asia”. Site visit activity was arranged to visit Siam City Cement PCL to study renewable energy and Krung Thai Bank PCL to study energy efficiency building.

- ***Network Building***

Several seminars and meetings were held to promote TBCSD among the general public.

There are 6 new members as following: 1) Star Petroleum Refining Company Limited, 2) IRPC Public Company Limited, 3) Tetra Pak Company Limited, 4) The Viriyah Insurance Company Limited, 5) Siam Commercial Bangkok Public Company Limited and 6) Asia Cement Public Company Limited. Currently, TBCSD has 34 business leaders as members.

Dr. Qwanruedee informed the members that TBCSD paid visits to 3 WBCSD regional network organizations (India, Korea and Japan). Dr. Anusorn, as well as executives from PTT PCL and Siam Cement Group joined WBCSD meeting in Washington D.C. arranged in October 2009. Additionally, information of WBCSD has been updated monthly through TBCSD’s website.

- ***Public Relation Activities***

In 2009, TBCSD launched 2 press tours, CSR trip “Planting New Seeds, We Care for Environment”, and “TBCSD Carbon Neutral Trip to the North...

Building check dams, Planting trees and Reducing carbon”, to promote TBCSD activities. In addition, Green Society by TBCSD, a publication to create environmental awareness, update environmental trends and promote TBCSD’s work, publishes 3 issues per year.

Resolution: The meeting acknowledged the progress under the Programme 4. The special issue of Plibai Journal on children in 3 southern bordering provinces will be published.

Programme 5: Creating close relationship between members

TBCSD members were encouraged to share their knowledge, experiences and update recent information on good practices on sustainable development among each other. TBCSD website has already been updated to be bilingual website.

Resolution: The meeting acknowledged the progress under the Programme 5.

Intermission:

After 2009 progress reported to all members, Dr. Anusorn, chairman of TBCSD, came into the meeting room after the interviews with the press.

(2.5) Special Talk on “T5 fluorescent lamps move forward the community to low carbon society”

Dr. Anusorn asked Mr. Wirash to give a talk on T5 fluorescent light bulb. Mr. Wirash asked Mr. Pithan Chaichinda to present members the development of fluorescent light bulbs. In Thailand, 20% of electricity consumption is consumed by equipments that generate heat. Light bulb is considered as electricity consuming device, which generates heat. For T8 and T5 fluorescent light bulbs, “T” refers to tubular shape of light bulb and numeric number represents diameter of the bulb in fraction of inch. For example, T5 means tubular bulb with diameter 5/8 inch. T5 has been intensively promoted to consumers since 2007

The characteristics of T5:

- Less mercury less environmental impact,
- 20,000 hrs life span which longer than T12 and T8 4,000-10,000 hrs,
- Regular brightness whole lifespan,

- Higher brightness at higher temperature (comparison to T8),
- Save up 30% of total energy consumption in comparison with T8 fluorescent light bulb,
- Requires less storage space due to smaller size.

Replacing all T8 with T5 fluorescent light bulbs can save 2,000 MW per year, which accounts for 30,000 million Baht on capital investment. EGAT receives the budget to operate T5 fluorescent light bulb replacement project and welcomes all participants (industrial sector) to apply for. Moreover, the T5 bulbs will be collected for proper disposal and recycle at certified sites when the bulbs expire.

Resolution: The meeting acknowledged the information and program.

Intermission:

After finishing the special talk, Dr. Anusorn asked Dr. Qwanruedee to proceed the session. She began the session by asking all members to see TBCSD TV spots on both low carbon society and natural disaster.

III. Issues for consideration

(3.1) Work Plan for 2010

Dr. Qwanruedee notified the meeting that the work plan for 2010 would remain under the same 5 programmes. Proposed projects and activities for 2010 are as following:

Programme 1: Policy Development in Thailand

Dr. Qwanruedee notified the cooperation with TGO on Carbon Label for Building project was being developed. The representative from Kasikorn Bank showed interest in the label. Additionally, she mentioned about networks. There are 3 existing networks on water resource, low carbon society and natural disaster. The new network on waste management will be established in 2010.

Programme 2: Capacity building with regard to business competitiveness and good practices

Dr. Qwanruedee mentioned that the activities under this programme would remain the same as in 2009. Study trips for both aboard and domestic and press tours are included as a target for 2010 work plan activities.

Programme 3: Raising public awareness of culture and environmental issue

Dr. Qwanruedee informed the members that one TV spot on water security will be produced by TBCSD. Mr. Karn Trakulhoon from SCG has been approached as a presenter for the spot. Furthermore, she introduced a new activity “Eco-friend Award” and continued activities, which were TBCSD Eco School Award and Young Writer for Business and Environment to all members as implementing activities in 2010.

Programme 4: Reaching out to public and creating wider networks

The programme was under the 2009 work plan. Dr. Qwanruedee introduced Local Teacher activity to the meeting as a new activity to be implemented in 2010.

Programme 5: Creating close relationship between members

The programme was under the 2009 work plan.

Office of TBCSD secretariats activities

The programme was under the 2009 work plan

Suggestions: Dr. Anusorn mentioned about the Joint Meeting of Council and Associate and TBCSD Gala Dinner for 2010 that TBCSD should make the event more interesting. Having seminars, meeting and gala dinner at the same event likes WBCSD meeting would make the event interesting. Prof. Dr. Phaichitr suggested that the event should be arranged in any countryside province without distractions so that all participants would attend the entire event.

(3.2) New Projects 2010

Dr. Qwanruedee introduced details and budgets for implementation new projects and activities in 2010 to the members as follows:

“Open Burning Reduction...Global Warming Reduction” Activity under the committee on Low Carbon Society.

“Nan River Basin Management for Flood and Landslide Prevention” under the committee on Natural Disaster.

“Building Check Dams” under the committee on Water Security.

“Development of Groundwater for Water Consumption in Drought Community” under the committee on Water Security.

“Development of Groundwater Source for Drinking Water in School” under the committee on Water Security towards drought areas.

“Development of Groundwater for Agricultural Activity” under the committee on Water Security.

Dr. Qwanruedee concluded that 6 projects and activities would have the total implementation cost of 9.2 million Baht.

Suggestions: Dr. Anusorn mentioned that in the past, TBCSD members used to voluntarily donate money to run projects. Thus, projects and activities for this year will call for voluntary donations from members. Dr. Anusorn kindly asked all members to make contributions to the new projects and activities.

Resolution: The meeting acknowledged and agreed with new projects and activities for 2010. TBCSD secretariat office will circulate a formal letter requesting supports and donations for implementing proposed projects and activities in 2010.

IV: Other Matters

- *Electricity and Demand Side Management (DSM)*

Prof. Dr. Phaichitr raised questions on investment cost for energy generation and Demand Site Management (DSM) Mr. Wirach from EGAT. Mr. Wirach responds that the investment cost for 1 MW of electricity are about 25 million Baht and the budget on DSM is about 300 million Baht per year. Mr. Wirach further mentioned that the electricity demand increases approximately 5 percent every year. The key problems that cause electricity increase (demand side) are inefficiency of electricity consumption and over consumption (use more than actual need). For the last 16 years that DSM has been implemented, Thailand could save electricity around 1,800 MW. Prof. Dr. Phaichitr expressed his impression on the answer from Mr. Wirach because in the past DSM was neglected and was not implemented by EGAT.

Mr. Pramote Insawarng, TBCSD advisor, added that Thailand may have to build power plant more than 2 plants every year to serve the increasing demand. We have to help reducing the demand so that we do not need to build more power plants.

- *Climate Change and Health Impacts*

Prof. Dr. Phaichitr raised a topic on climate change related risks and impacts on health impacts at the meeting for discussion. Under the concern, Thailand Environment Institute (TEI) and the Ministry of Public Health are setting up a

network on health impacts from climate change. He further mentioned that global populations have suffered from diseases induced by increasing temperature. Despite the recognition, business sector has intensively focused on Corporate Social Responsibilities; Prof. Dr. Phaichitr suggested that members should also concentrate on health and well-being of citizens in society as a fundamental concern. He also mentioned that prevention of diseases caused by climate change was crucial and actions should be taken. However, first and foremost acquiring data was most essential (what we know and what we do not know). Thus, TEI will arrange a workshop on this issue in January 2010.

Dr. Songkiert Tansamrit, TBCSD advisor, mentions that the impacts from climate change are happening. In North America, million acres of pine forests have been attacked by bark beetles. This peculiar event is originated from increasing temperature, which contributed to significantly increase of bark beetles, approximately 3 times more.

- *COP 15 in Copenhagen*

Mr. Narong mentioned about non-clarified outcomes of the COP 15 meeting at Copenhagen. He also asked the secretariat to summarize the essences of COP 15 meeting in Copenhagen to all members. Dr. Qwanruedee replied that key outcomes of COP 15 meeting will be published in TBCSD journal and circulated to all members soon.

- *Roadshow*

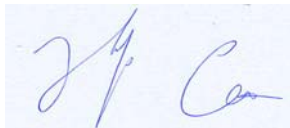
Mr. Robin Wilson of InterfaceFLOR Thailand, congratulated TBCSD on useful and ambitious programme of activities of TBCSD in 2010. He also points out that it is important to have a business to business communication programme to ensure TBCSD promotes the positive business impacts of sustainable strategies to non-TBCSD members. This includes a TBCSD Roadshow of industrial estates demonstrating the economic advantages of sustainable business practices. TBCSD members are mainly large companies already enlightened to the benefits of sustainability and with capacity in several aspects to help others. Prof. Dr. Phaichitr agreed with the idea because TBCSD members have high capacity and ready to help others. Furthermore, medium and small businesses are in need of assistance.

- *Low Carbon Product*

Dr. Qwanruedee emphasizes that TBCSD secretariat office is still waiting for the order of low carbon products. Sugar from Mitr Phol and T5 fluorescent light bulbs can be ordered through the secretariat office with special prices. Members can order products for others, like Bangchak, which has ordered T5 fluorescent light bulbs for school donations.

The meeting is closed at 16.30 hrs.

Prepared by



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Approved



Dr. Qwanruedee Chotichanathawewong
Executive Director
Thailand Business Council for Sustainable Development

List of Participants

Council Members, Associate Members and Representatives Advisors:

1. Dr. Anusorn Sangnimnuan The Bangchak Petroleum Public Company Limited
2. Ms. Umaporn Thaiyamart Amway (Thailand) Limited
3. Ms. Wannipa Mekmuangthong Amway (Thailand) Limited
4. Mr. Apichit Akarapattangkul Asia Cement Public Company Limited
5. Ms. Chutimont Jaidee Asian Honda Motor Company Limited
6. Mr. Withaya Wichayarangsaridh Bayer Thai Company Limited
7. Ms. Rattikarn Chaiwanit Chevron Thailand Exploration and Production, Ltd.
8. Mrs. Sutathip Premyodin Dow Chemical Thailand Limited
9. Mr. Wirash Kanchanapibul Electricity Generating Authority of Thailand
10. Mr. Roaj Khompatee Electricity Generating Authority of Thailand
11. Mr. Natopol Chitsin Electricity Generating Authority of Thailand
12. Mrs. Yaowalak Hotrabhavananda Electricity Generating Authority of Thailand
13. Mrs. Wilailux Sangtaksin Electricity Generating Authority of Thailand
14. Mr. Robin Stephen Wilson Interface Modern form Company Limited
15. Mr. Wichit Sanguannam Interface Modern form Company Limited
16. Mrs. Sumon Rungkasiri IRPC Public Company Limited
17. Ms. Tanyalux Bumrungmoo Kasikorn Bank Public Company Limited

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| 18. | Ms. Patcharebool Purnaveja | Krung Thai Bank Public Company Limited |
| 19. | Ms. Churee Naktipawan | Mitrphol Sugar Corp., Ltd. |
| 20. | Ms. Inthira Park | Mitrphol Sugar Corp., Ltd. |
| 21. | Dr. Teerapon Soponkanabhorn | PTT Exploration and Production PCL |
| 22. | Mr. Nattawut Trachoo | Siam City Cement PCL. |
| 23. | Mr. Saroch Indragarjita | Siam Commercial Bank |
| 24. | Ms. Darin Nuntaratn | Thai Namthip Limited |
| 25. | Mr. Numpol Limpresert | The Siam Cement Public Company Limited |
| 26. | Mr. Wattana Opanonamata | The Bangchak Petroleum Public Company Limited |

Honorary Advisor and Advisors:

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| 1. | Prof. Dr. Phaichitr Uathavikul | Honorary Advisor |
| 2. | Mr. Pramote Insawarnng | Advisor |
| 3. | Mr. Narong Boonyasaquan | Advisor |
| 4. | Mr. Veera Akaraputhiporn | Advisor |
| 5. | Dr. Songkiert Tansamrit | Advisor |

Other Participants:

- | | | |
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| 1. | Mr. Pithan Chaichinda | Electricity Generating Authority of Thailand |
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Secretariat Office:

1. Dr.Qwanruedee Chotichanathawewong Thailand Environment Institute
2. Ms. Patranda Sangmahamad Thailand Environment Institute
3. Ms. Kulab Rodthong Thailand Environment Institute
4. Ms. Thitinat Sakranukit Thailand Environment Institute
5. Mr. Natapol Thongplew Thailand Environment Institute
6. Ms. Umarat Santisukkasaem Thailand Environment Institute
7. Mr. Sippakul Leosiripong Thailand Environment Institute
8. Ms. Sasiporn Iamornng Thailand Environment Institute
9. Ms. Phonnapa Yapan Thailand Environment Institute
10. Mr. Chokchai Atsawarangsalit The Bangchak Petroleum Public Company Limited
11. Ms. Awantee Rungsakulkij The Bangchak Petroleum Public Company Limited