

ASEAN ENERGY MARKET INTEGRATION (AEMI)

INFORMAL BRAINSTORMING SESSION

***Dean Dipak C. Jain Room, Sasa International House,
Chulalongkorn University
May 10, 2013***

BIOGRAPHICAL NOTES



Dr. Adoracion M. Navarro

Adoracion M. Navarro's current academic research interests revolve around infrastructure, specifically the water, power, transportation and communications sectors. In joining any infrastructure-related endeavor, she brings with her about 16 years of focused work experience in the analysis of infrastructure policies and projects. She has been conducting infrastructure related research at the Philippine Institute for Development Studies as a Senior Research Fellow. She gained practical knowledge on economic policy analysis through her experience working at the National Economic and Development Authority, Build-Operate-Transfer Center (now Public-Private Partnerships Center), International Monetary Fund, private consultancy firms, and Philippine-based multilateral and bilateral aid agencies. She finished her Ph.D. (Economics) at the University of the Philippines-Diliman. Her Ph.D. dissertation is entitled "Nodal versus Zonal Pricing in Electricity Spot Markets with Perfectly Inelastic Demand: An Analysis of Market Power Exercise and its Impact on Consumer Welfare". She is also an MPA (Economic Policy Management) graduate from Columbia University, New York, USA.



Dr. Bundhit Eua-arporn

Dr. Bundhit Eua-arporn is currently the Director of the Energy Research Institute (ERI), and also a Professor in Electrical Engineering Department, Faculty of Engineering, Chulalongkorn University. Since joining the university in 1992, he has been actively participating in research projects concerning mainly energy and environmental issues.

Dr. Bundhit's main interests cover power system operation, as well as planning, energy policy and modeling. The first area covers optimal short-term power system operation and long-term power system planning, especially with application of probabilistic methods, whereas the later focuses on energy policy development based on the energy system modeling and simulations. He has a vast array of publications and contributions to books in these two areas, and has conducted numerous projects for the Ministries of Energy as well as public authorities. His recent research work includes Thailand Energy Outlook, and the Thailand Energy Master Plan Development for the Thailand Ministry of Energy.

During his career, Dr. Bundhit also served as a Member of Board of Director, Metropolitan Electricity Authority (MEA), Thailand as well as the Board of Sub-committees, Energy Policy & Planning Office (2003, 2005). Dr. Bundhit earned his Ph.D. in Engineering from Imperial College, University of London.



Dr. Youngho CHANG

Dr. Chang is an Assistant Professor of Economics at the Division of Economics and an Adjunct Senior Fellow at the S. Rajaratnam School of International Studies (RSIS), Nanyang Technological University, Singapore. Apart from academic affiliations, he is a member of Technical Committee for Clean Development Mechanism (CDM) Designated National Authority (DNA), National Environment Agency, Singapore.

He published his research papers in internationally refereed academic journals such as *Energy Economics*, *International Economics*, *Econometric Theory*, *Economics Letters*, *Energy Policy* and *Korea and the World Economy* among others. He co-edited books on energy security such as *Energy and Non-Traditional Security (NTS) in Asia*, *Rethinking Energy Security in Asia* (both by Springer), *Energy Security: Asia Pacific Perspectives* (Manas Publications) and *Energy Conservation in East Asia: Towards Greater Energy Security* (World Scientific). Along with academic publications, he carried out consultation projects for the public and private sector. He specializes in the economics of climate change, energy and security, oil and macroeconomy, and the economics of electricity market deregulation. His current research interests are oil price fluctuations and macroeconomic performance, the economics of energy security, and energy use and climate change.



Dr. Chayodom Sabhasri

Chayodom Sabhasri has been the Dean of the Faculty of Economics, Chulalongkorn University, since April 2012. He earned his Ph.D. in Economics from University of Wisconsin-Madison, MSc, in Economics from the LSE, and B.Econ from Chulalongkorn University. He has over 70 publications in books and academic papers. In the beginning of his career, his academic works concentrated on international finance. Recently, most of his projects have been on the economic integration especially the issues free trade areas. He is an advisor to the General Director of the Department of International Trade Promotion, Ministry of Commerce. Lately, he has been appointed to be a member of Performance Appraisal Committee for State Own Enterprises, Ministry of Finance.



Dr. Hardiv H. Situmeang

Hardiv is currently a Chairman of Indonesian National Committee-World Energy Council (KNI-WEC), and advisor to the National Development Planning Agency on Indonesia Climate Change Sectoral Roadmap for Mitigation Actions. The WEC is a global, non-profit, multi-energy organization, dedicated to promoting the sustainable supply and use of energy for the greatest benefit of all, established in 1923.

He was Senior Advisor to the BoD, Indonesia State Electricity Corporation – PT PLN (Persero) from 2003 to 2009, and Director of Planning from 1998 to 1999 and from 2001 to 2003, responsible for corporate plan, power system expansion planning, analysis and evaluation of corporate performances as well as corporate information system. Prior to these, Hardiv was Head of Transmissions and Java-Bali Control Centre, responsible for power system operations and control, transmissions and substations system developments including SCADA and telecommunication system developments as well as its operation and maintenance, and energy transaction. He also conceptualized and led a comprehensive change management initiative to transform the organization into an efficient and autonomous business unit of PLN, and established an internal management performance monitoring system.

Member of Indonesian Delegation for the Conference of the Parties, the Subsidiary Body for Scientific and Technological Advice since 2004, the Ad Hoc Working Group on Further Commitments for Annex I Parties under the Kyoto Protocol since 2007, and the Ad-Hoc Working Group on Long-term Cooperative Action under the Convention since 2008 of the United Nations Framework Convention on Climate Change.

His main interests are in Energy and Climate Change on Mitigation Actions, Long-term Energy Planning, Power System Planning, Operations and Control, and Project Financing including Legal, Operational and Technical Aspects. At present, focusing on Energy and Climate Change issues particularly on Mitigation Actions, and Carbon Capture & Storage.



DR. HEZRI ADNAN

Hezri Adnan, a Senior Fellow with the Technology, Innovation, Environment, and Sustainability Programme at the Institute of Strategic and International Studies (ISIS) Malaysia, has fifteen years experience in research and policy advocacy on sustainable development issues. His specialization is comparative environmental policy spanning areas such as green economy, climate change adaptation, and policy integration for sustainability. His latest publications include an edited book titled *Towards a Green Economy: In Search of Sustainable Energy Policies for the Future* and a United Nations occasional policy paper entitled *A Fair Green Economy? Studies of Agriculture, Renewable Energy and Waste Initiatives in Malaysia*.

Hezri's academic training is multi-disciplinary, with a Ph.D in Public Policy from the Australian National University, Master of Science in Environment and Development from Universiti Kebangsaan Malaysia and a Bachelor of Science in Biotechnology from University of Sheffield, United Kingdom. He has been awarded research fellowships by various institutions abroad, including the Australian Studies Fellowship by the Department of Foreign Affairs, Commonwealth of Australia, and the Asian Public Intellectuals Fellowship by the Nippon Foundation of Japan. He is currently a Visiting Fellow at the Fenner School of Environment and Society, Australian National University and also an Associate Fellow of the Academy of Sciences Malaysia (ASM).

He has been interviewed and quoted by global and local media such as the *International Herald Tribune*, the *Strait Times*, *BBC*, *Bloomberg*, *Channel News Asia* regarding energy and climate change-related issues. Before working in the academia, Dr Chang worked as a landscape architect for two years in Korea and Saudi Arabia, and a financial analyst for four years in Korea. He was a degree fellow at the East-West Center, Hawaii and received his Ph.D. in Economics (Environmental and Resource Economics) from the University of Hawaii at Manoa, U.S.A.



Dr. Kitt Limskul

Dr. Kitt Limskul is currently Associate Professor and Director of Economics Modeling and Forecasting Program (EMF) at Faculty of Economics, Chulalongkorn University. Prior to this, he was Vice Minister for the Ministry of Education (2006) and Vice Minister for the Ministry of Finance (2004). He previously served as the Policy Advisor to the Prime Minister (Dr. Thaksin Shinawatra) and Advisor to the Foreign Minister (Dr. Surakiat Satirathai) in 2001.

While holding these positions, Dr. Kitt has also been advisor to the board of director of the Thailand Greenhouse Gas Management Organization (Public Organization) as well as Board of Committee, National Science Technology and Innovation Policy Office, where he is still serving. He has also served as economic consultant to the Asian Development Bank (ADB) on issues related to Low Carbon growth in developing Asia.

Dr. Kitt has a vast array of publications and an impressive number of research activities. Dr. Kitt received a Ph.D. in Economics from Nagoya University, Japan.

Dr. Leong Yow Peng

Dr. Leong Yow Peng is currently the Director of the Institute of Energy Policy and Research, at Universiti Tenaga Nasional (UNITEN). He holds a PhD (Industry & Business Studies) from Warwick Business School, University of Warwick, United Kingdom; MBA from University of Ohio-Athens, USA and B.Sc in Electrical Engineering from University of Missouri-Columbia, USA. He has vast industry experience with the Utility Company in Malaysia prior to the current job, spanning more than 30 years within the realm of the Energy Industry, Utility Business, Marketing and Customer Relationship Management. Participated at several United Nations Framework Conference on Climate Change (UNFCCC) negotiations as Malaysian representative. Current research interests related to Energy Policy, Energy Economics, Energy Security, Energy and Environment areas. Dr. Leong Yow Peng held the post of the Director of the Institute of Energy Policy and Research, at Universiti Tenaga Nasional (UNITEN) and recently he has been posted to the National Utility Company, Malaysia as the General Manager (Corporate Planning & Innovation)



Dr. Maxensius Tri Sambodo

Dr. Maxensius Tri Sambodo is a researcher at the Indonesian Institute of Sciences-Economic Research Center. He obtained his Ph.D degree from the National Graduate Institute for Policy Studies (GRIPS), Japan in September 2012. The title of dissertation is *Mathematical Modeling Analyses for Investigating the Future Expansion of the Electric Power System in Indonesia*. He has presented papers in many international conferences such as: (1) the 13th International Convention of the East Asian Economic Association (EAEA) Grand Copthorne Waterfront Hotel Singapore Hotel, Singapore, October 19-20 2012; (2) the 3rd International Association for Energy Economics (IAEE) Asian Conference, 20-22 February 2012, Kyoto, Japan; (3) the 4th International Conference on Applied Energy, July 5-8, 2012, Suzhou, China; and the 2nd congress of the East Asian Association of Environmental and Resource Economics (EAAERE), 2-4 February, 2012, Bandung-Indonesia. His publications such as: (1) Sambodo, M.T., 2005. 'The Environmental Kuznets Curve and the causal relationship between carbon dioxide emissions and GDP per capita in Indonesia, 1960 – 2000', *Economics and Finance in Indonesia*, Vol 53 (3); (2) Sambodo, M.T., 2008. Indonesian in a Changing Energy Frontier: Challenges and Prospects, *Economics and Finance Indonesia*, 56(2); (3) Sambodo, M.T., and Oyama, T. (2010). The Electricity Sector Before and After the Fast-track Program. *Economics and Finance in Indonesia*, 58, 285-308; (4) Sambodo, M.T. (2010). Investigating the impact of carbon tax to the power generation in the Java-Bali System by applying optimization technique. Retrieved January 10, 2011, from <http://www.equitablepolicy.org/wpaper/201009.pdf>; (5) Sambodo, M.T., and Oyama, T. (2011). Investigating economic growth, energy consumption and their impact on CO2 emissions targets in China. *Journal of Asian Public Policy*, vol 4(3), 279-306; (6) Sambodo, M.T, and Oyama, T. (2011). Investigating economic growth and energy consumption in Indonesia: time series analysis 1971 to 2007. *Review of Indonesian Economic and Business Studies* (RIEBS), Vol.2 (1), June 2011. LIPI (Indonesian Institute of Sciences); (7) Sambodo, M.T., and Oyama, T. (2011). Economic, energy and CO2 intensity valuation in Indonesia's manufacturing industry. *Jurnal Ekonomi dan Pembangunan* . LIPI (Indonesian Institute of Sciences); (8) Sambodo, M.T. & Siwage Dharma Negara. Designing Conceptual Framework and State of Energy Security in Indonesia. *Jurnal Ekonomi Pembangunan*, XX(1):1-17. Currently he is conducting research on Energy Market Integration and Renewable Energy collaboration with ERIA. He also obtains research funding from Indonesian government to conduct research on electricity access and people welfare, and development of solar panel.



Dr. Nawal Kamel

Nawal is currently a *Visiting Professor* at the *Faculty of Economics, Chulalongkorn University*, Bangkok, Thailand. Until recently, Nawal had been a *Director* at the *World Bank* for several years, and also served at the *Department of Natural Resources, Canada*, working closely with the Minister at the *Deputy Ministerial* level to advise him on decisions regarding his portfolio (energy, mining, forestry sectors). As such, she worked on energy policy and regulatory issues, on science and technology relating to sustainable development of natural resources, on electricity generation and distribution in North America, and on fiscal regimes for energy in the context of a federal system. Prior to this, Nawal had spent a couple of years at the *Oxford Institute for Energy Studies* (UK), an academic organization dedicated to research in energy, and to fostering a dialogue between energy producing and consuming countries, as well as private sector entities.

During her fifteen years tenure at the World Bank, Nawal introduced several innovations that made lasting contributions. She headed the *Working Group* that formulated and designed the *Debt Initiative for Heavily Indebted Poor Countries* (HIPC), until its unanimous adoption by *Development Committee* ministers in 1996. The *HIPC Initiative* is a flagship of the World Bank, still operating to this day. Nawal also established the *Partnerships Group*, which formulated a new approach for the Bank to deliver its support to developing countries. The approach provided the basis for the introduction of the *Poverty Reduction Strategy Papers*, still used currently by the Bank. Nawal also oversaw the design and creation of the *Development Grant Facility*, a financial instrument that allows the Bank to provide grants for projects conducted by the civil society in developing countries. Finally, Nawal also headed the Secretariat for the *International Task Force on Commodity Risk Management in Developing Countries*, which included some 30 participants from around the world, and proposed the creation of “commodity price insurance” instruments to help shield small producers in developing countries from severe fluctuations in commodity prices.

Nawal has also been the founding *Executive Director* (and Board member) of the *Sawiris Foundation for Social Development*, which in 2001 was the first family foundation dedicated to social development in Egypt. In its first two years of existence alone, the Foundation has created some 5,000 quality jobs, and has earned international awards and credibility for its approach with regional UN institutions, the Aga Khan Foundation, and Arab organizations. Finally, Nawal was the recipient of the *2005 Key Women in Energy-Global*, a US award from the *Energy Marketers Association*, for the work she conducted as the Canadian lead of a joint *Canada-US Task Force* on electricity distribution in North America, with participation of Ministers from the US and Canada.

Earlier in her career, Nawal was *Chief Economist* of the *Export Development Corporation*, Canada’s Export-Import Bank, and a professor at the Department of Mathematics, *Universite du Quebec a Montreal*. Nawal holds *Doctorates* in Mathematics from the Sorbonne (Paris) and in Economics from Oxford University (UK).

Dr. Nguyen Thi Mai Anh

Over 15 years of experiences in teaching and conducting research in energy and environment fields. Experts and analyst for many energy projects like Energy & International Development: Understanding Sustainable Energy Solutions in Developing Countries, promoting energy conservation in small and medium enterprises; promoting high efficiency of public lighting; Rural Electrification & Renewable Energy, assessment of energy policy in Vietnam in terms of sustainable development...Expertise includes organizing large scale of surveys to identify needs of target groups (training, technology transfer needs etc.) and conducting market research in the energy fields. She currently is lecturer of Hanoi university of Science and Technology.



Dr. Philip Andrews-Speed

Dr. Philip Andrews-Speed is a Principal Fellow at the Energy Studies Institute of the National University of Singapore. He has 35 years in the field of energy and resources, starting his career as a mineral and oil exploration geologist before moving into the field of energy and resource governance. Until 2010 he was Professor of Energy Policy at the University of Dundee and Director of the Centre of Energy, Petroleum and Mineral Law and Policy. After that, whilst a Fellow at the Transatlantic Academy of the German Marshall Fund of the US, he co-authored a report entitled *The Global Resource Nexus. The Struggles for Land, Food, Water and Minerals*. He recently led a major European Union (Framework 7 Programme) project “Competition and Collaboration in Access to Oil, Gas and Mineral Resources”. Recent books include *China, Oil and Global Politics* with Roland Dannreuther (Routledge, 2011) and *The Governance of Energy in China: Transition to a Low-Carbon Economy* (Palgrave MacMillan, 2012).



Dr. Phouphet Kyophilavong

Dr. Kyophilavong is an Associate Professor and Director of the Research Division at the Faculty of Economics and Business Management, National University of Laos. He received his PhD in economics from Kobe University in 2003. Since then, he has been carrying out research on macroeconomic management issues, Small and Medium Enterprises (SMEs) development, micro-finance, economic integration, natural resources and environmental issues, and poverty in Laos and has published over 20 papers in academic journals, and book chapters. He has directed numerous projects in his areas of expertise and has worked closely with national organizations, universities and government agencies in Laos, as well as with international organizations such as the Asian Development Bank (ADB), ADB Institute, Japan International Cooperation Agency (JICA), IUCN, UNDP, UNESCAP, Mekong River Commission (MRC), IUCN, World Trade Organization (WTO), Economic Research Institute for ASEAN and East Asia (ERIA), and World Bank. He was also the visiting scholar at Pukyong National University, Nagoya University and the University of Laval.

Dr. Rafaelita M. Aldaba

The Philippine Institute for Development Studies (PIDS) recently appointed Dr. Rafaelita M. Aldaba as its new vice president. From 2008 to 2009, Dr. Aldaba served as Team Leader of ADB's Asia Regional Integration Center, a knowledge portal on regional cooperation and integration in Asia and the Pacific. Dr. Aldaba has extensive research experience covering development issues on trade and industrial policy, regional integration, competition policy, small and medium enterprises, and foreign direct investment. Dr. Aldaba has written many papers and conceptualized and managed research projects on trade and regional economic integration for the World Bank, ADB, USAID, JICA, and other international organizations. She also has broad experience working in international research teams funded by the Economic Research Institute for ASEAN and East Asia and East Asia Development Network.

Dr. Srinivasa Madhur

Srinivasa Madhur is currently Director of Research at the Cambodia Development Resource Institute (CDRI), Phnom Penh, Cambodia (Since April 2012). He held various positions at the Asian Development Bank (ADB) in Manila, the Philippines (1994–2010) – last position held as Senior Director and Officer in Charge of the Office of Regional Economic integration before retiring from ADB in September 2010. Other positions held at ADB: Economist/Senior Economist/Principal Economist for China, Korea, Philippines, Indonesia, Malaysia, Mongolia, and for regional forums such as ASEAN, ASEAN Plus Three, APEC, and ASEM.

Before joining ADB in 1994, he worked as Economic Adviser to the Indian Government (1987–1994) and as a research economist at the National Institute of Public Finance and Policy, New Delhi, India (1978–1987). He was member of the Economic Advisory Council to the Indian Prime Minister (1991–93) and Member of the Karnataka State Planning Board, Bangalore, India (1993–94).

He held other professional positions as Visiting Professor at the Graduate School of International Studies, Seoul National University, Seoul, Korea (March–June, 2011); Visiting Fellow at the Korea Institute for International Economic Policy, Seoul, Korea (July, 2011); and Vice President, The Policy Group, New Delhi, India (1982–1987).

He has a PhD degree in economics from Delhi School of Economics, New Delhi, India (1985) and was a Fulbright Post-doctoral Fellow at the Department of Economics, Yale University, New Haven, U.S.A. (1988).



Dr. Suthiphand Chirathivat

Dr. Suthiphand chairs Chula Global Network and ASEAN Studies Center. He teaches economics at Chulalongkorn University. Until recently, he was Dean, Faculty of Economics, Chairman of the Ph.D. Program in Economics, Chairman of Economics Research Center and Center for International Economics. He has previously served as Director of the Centre for European Studies and Center for International Economics at Chulalongkorn University.

Concurrently, Dr. Suthiphand holds professional positions including Vice Chairman of Economics Discipline Committee, National Research Council, Honorary President of the Former Students in France, member of the International Advisory Board, ASEAN Economic Bulletin, editorial member of Asian Business and Management, Vice President of the Alliance Francaise of Bangkok.

Dr. Suthiphand previously held a position as Advisor to the Ministers of Foreign Affairs, Minister of Commerce, Minister of Agriculture, Minister of Finance, Deputy Minister of Transport and Communications and Economic Affairs Committee and also Foreign Affairs Committee of the Thai Parliament. He was also Member of the APEC Panel of Independent Experts, Founding Member of the EU-LDC networks of the Netherlands Economic Institute, Member of the Triple-T Task Forces of the Pacific Economic Cooperation Council (PECC). He represented Thailand, East Asia Expert Study

Group (ASEAN+3 until 2009) and Comprehensive Economic Partnership in East Asia (CEPEA). He also served as President of the Association of Former Students in France, Thailand and Executive Member of the Economic Society in Thailand.

Dr. Suthiphand holds License En Sciences Economiques and Maitrise en Sciences Economiques, from the Université d' Aix-Marseille in France. Later on, Dr. Suthiphand received D.E.A. en Sciences Economiques from Université de Paris-I Pantheon-Sorbonne. Finally, he holds Doctorat de 3 cycle en Sciences Economiques from the Université de Paris-I Pantheon-Sorbonne. Having many publications to his credit, some of Dr. Suthiphand's international publications included East Asia's Growth Practices (co-eds with Ng, Chee Yuan), Chula Global Network and SPS, Bangkok (2009), EU-ASEAN Facing Economic Globalization (co-eds with Welfens, Knipping, Cilian), Springer (2009), Integration in Asia and Europe (co-eds with Welfens, Knipping, Cilian), Springer (2006), East Asia's Monetary Future: Integration in the Global Economy (co-eds with Emil Maria Claassens & Jurgen Schroeder) Edward Elgar Publishing Co. Ltd. (2004), "East Asia FTA: Economic Modalities Prospects and Further Implications", Journal of Asian Economics, 2004, "Thailand's FTA Strategy: Current Development and Future Challenges" (co-eds with Sothitorn Mallikamas), ASEAN Economic Bulletin, Vol. 21, no. 1, 2004.



Prof. Dr. Thierry Lefevre

Prof. Thierry Lefèvre is the Director of the Centre for Energy Environment Resources Development – Foundation (CEERD-F) based in Bangkok, Thailand. Between 1991 and 2002, he was the Director of the Center for Energy-Environment Research & Developpement based at the Asian Institute of Technology (AIT), Bangkok, Thailand, which he founded in 1991.

CEERD conducts activities and research on energy-environment economics, planning, modeling, policy, markets, and technology in the framework of national and international cooperation projects to strengthen the capacity of national governments in Asia and the Pacific for energy-environment planning and policy formulation.

Prof. Lefevre has 42 years of international experience in teaching and research activities on above fields of expertise. He has been responsible for the management and implementation of a large number of major research and development projects in his field of expertise with national, international and multilateral agencies, and he has published many papers, articles, books and/or parts of books.

Prof. T. Lefèvre received his Master and PhD degrees from the University Paul Sabatier, Toulouse, France. He has also an Electronic and Mechanical Engineering degree from Paris, France, and a Master in Business Administration from the University Simon Bolivar, Caracas, Venezuela.

He is currently member of the “APEREC Advisory Board” (Tokyo, Japan). He is a Member of the Advisory Board of the Helmholtz Research School on Energy Scenarios of the University of

Karlsruhe, Germany. He was member of the “IAEA DECADE’s Programme Steering Committee” (Vienna, Austria). He is also member of Professional Societies such as the “Siam Society of Thailand”, the “Foreign Correspondent Club of Thailand”, the “Venezuelan Association for the Advancement of Science” (Caracas, Venezuela), and the “International Network of Small Hydro Power” (Hangzhou, China).

Dr. Tran Van Binh

Dr. Tran Van Binh is currently Chairman of the Bach Khoa Technology Investment and Development Company, Hanoi University of Science and Technology. Prior to this, Dr. Tran Van Binh served as Director, Centre for Research and Consulting on Management (HUT) (2007-2010), and as Dean, Faculty of Economics and Management, the Hanoi University of Technology (1996-2003).

Dr. Tran Van Binh has participated in many research projects, with the sponsorship and cooperation of national and international institutions including the Ministry of Science and Technology (Vietnam), Asian Development Bank (ADB), Global Environment Facility (GEF), United Nations Development Bank (UNDP), Asian Institute of Technology (AIT).

Dr. Tran Van Binh received his Ph.D. and Master Degree in Energy Economics from Pierre Mendes France University, Grenoble 2, France.



Dr. Tri Widodo

Tri Widodo is a professor at the Faculty of Economics and Business, and a researcher at Center for Economic and Public Policy Studies (CEPPS), Gadjah Mada University, Indonesia. He got my Bachelor degree from FEB-GMU (1995), Graduate Diploma of Economics of Development (Grad.Dip.Ec.Dev.) (1999) and Mater of Economics of Development (M.Ec.Dev) (2000) from *Australian National University*, Australia; and Doctor of Philosophy (Ph.D) in Economics from *Hiroshima University of Economics*, Japan (2009).

Dr. Xunpeng Shi

Dr. Xunpeng Shi is Chief Researcher for Energy Efficiency and Conservation at the Brunei National Energy Researcher Institute (BNERI). Previously, he was an energy economist in the Economic Research Institute for ASEAN and East Asia (ERIA), where was in charge of a variety of energy research projects on issues such as energy outlooks, EEC, biodiesel standardization, bioenergy sustainability, and energy market integration. He was Secretary to Board of Directors of China Shenhua Coal Liquefaction Co. Ltd before he pursued his PhD study. He had seven years' work experience in China's leading energy institutes, company and central government agencies. He has published many papers in areas of energy economics and policy, development economics, the Chinese economics, and environmental economics.

He obtained his PhD of Economics and Master of Environmental and Resource Economics from the Australian National University, LLM in Mineral Law and Policy from University of Dundee and Bachelor of Engineer in Marketing from China University of Mining and Technology.



JESSIE L. TODOC

Jessie L. Todoc is the Philippines Country Manager of International Copper Association Southeast Asia (ICASEA). In this capacity, he develops and oversees ICASEA's partnership programs in the Philippines on sustainable energy and building construction. He also serves as ICASEA's Program Manager for SEA Energy Access and Alternative Energy, and provides technical direction to the program's development and implementation currently in Indonesia, the Philippines, and Vietnam. Before joining ICASEA in 2010, Jessie had worked out of Bangkok for 14 years as international researcher and consultant on energy economics, planning, and policy. During this period, he had been involved in the development and implementation of a number of energy technical assistance projects and market, policy and feasibility studies in Southeast Asia. In the Philippines, he had also worked at the Energy Regulatory Commission and Department of Energy. Jessie has a bachelor's degree in electrical engineering, a master's degree in international business management, and attended graduate courses in business economics.

Chulalongkorn University, May 8, 2013