



## Special Correspondent of LoCARNet in Thailand

### Personal information: Dr. Awassada Phongphiphat

<b>Name</b>	Dr. Awassada Phongphiphat
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<b>Country</b>	Thailand
<b>Position</b>	Researcher
<b>Profession/ Research Area/ Research interests</b>	<i>What is your current research interest?</i> Low-carbon energy technology. Biomass and waste thermo-chemical processes. Thermal treatment of waste. Greenhouse gas emission projection and mitigation for national, sector and city level.
<b>Research Activities related to LCS</b>	<i>Could you tell us your current low-carbon related activities/projects?</i> 1) Analysis of greenhouse gas reduction potential of solid waste management at municipality level of Thailand, funded by Thailand Greenhouse Gas Management Organization. 2) Gasification of refused-derived-fuel (RDF) and agricultural waste such as palm shell.
<b>Research Activities/Projects</b>	<i>Could you tell us your research activities/ projects if you have any other main research activities which are not related to low-carbon?</i> Investigation of particle deposition process and ash characterization in waste-to-energy power plant and oil-palm waste cogeneration plant by using analytical methods as well as Computational Fluid Dynamics (CFD) - Chemical modelling system.
<b>Expectation for LoCARNet</b>	<i>What are your expectations for Low Carbon Asia Research Network (LoCARNet)? Do you have any requests for LoCARNet?</i> To promote information exchange and research cooperation vigorously and continuously. In particular, knowledge sharing on successful stories, effective tools and measures as well as novel low-carbon technologies are very interesting. To support young/ new researchers to work with experienced ones, to collaborate internationally and to get supports or funding.
<b>Publications</b>	<i>Please list your three main publications below? Alternatively, please let us know the publications later by email etc.</i> 1) Phongphiphat, A., Ryu, C., Finney, K. N., Sharifi, V. N., Swithenbank, J., (2011), 'Ash deposit characterisation in a large-scale municipal waste-to-energy incineration plant'. Journal of Hazardous Materials, 2011. 186(1): p.218 – 226. 2) Phongphiphat, A., Ryu, C., Yang, Y. B., Finney, K. N., Leyland, A., Sharifi, V. N.,

	<p>Swithenbank, J., (2010), 'Investigation into high-temperature corrosion in a large-scale municipal waste-to-energy plant'. Corrosion Science, 2010. 52(12): p.3861 – 3874.</p> <p>3) Phongphiphat, A., Pipatmanomai, S., Garivait, S., (2011). Characterization of Fuels and Ash Deposits formed in a 3.5 MW Oil-Palm Waste Cogeneration Plant. World Renewable Energy Congress (WREC) – Indonesia: International Conference and Exhibition on Renewable Energy and Energy Efficiency, 17 – 19 October 2011, Bali, Indonesia.</p> <p>4) The Joint Graduate School of Energy and Environment (2012). Review of New 2006 IPCC Software for National Greenhouse Gas Inventory: A Case Study of Thailand Greenhouse Gas Inventory. A critical report submitted to “Technical Support Unit, IPCC Task Force on National Greenhouse Gas Inventories”. 67 pages.</p> <p>5) The Joint Graduate School of Energy and Environment (2011). Investigation on Carbon Intensity of Cement Industry, Iron Industry and Energy Industry (Fossil fuel power plants) in Thailand. Funded by Thailand Greenhouse Gas Management Organization (TGO). 300 Pages. [The report is in Thai]</p> <p>6) The Joint Graduate School of Energy and Environment (2011). Thailand Guidelines for Preparation and Development of Low Carbon City for Small-Scaled Communities. Funded by Thailand Greenhouse Gas Management Organization (TGO). 80 Pages. [The report is In Thai]</p>
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