EcoBalance 2014

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*Each presentation core time (presenter is requested to stand by the poster) will be announced later.

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Life cycle based sustainability solutions: How successful companies turn sustainability solutions into company benefit and business value

P-002: Atsushi Inaba

Guidance to assess avoided emissions of GHGs

P-003: Hsin-Jui Wu

Life cycle inventory analysis for environmental footprints: Case study on skin-care and cosmetic products

P-004: Hideki Sasaki

Estimation of the workload of calculating GHG emissions of scope 3

P-005: Hui-Ting Tang

An adaptive implementation framework for constructing a green and livable environment

P-006: Tomohiro Tasaki

Application of life cycle assessment and economic rationality: A cost survey

P-007: Atsushi Inaba

SCOPE3 of Kogakuin University

P-008: Liang Dong

Life-cycle co-benefit of industrial and regional symbiosis: Environmental input-output analysis on typical resource dependent city in China

P-009: Leighton K. Chong

Symbiosis of OTEC deep water upwelling & ocean aquaculture

P-010: Yuri Hirako

Projection of demand and supply change of first generation biomass

P-011: Chunyoul Baek

Decision supporting tool for sustainable dairy cow system

P-012: Junya Yano

Domestic consumption and household stock storage media in Japan

P-013: Jun-Yi Chiang

Eco-efficiency assessment of ICT product systems: An example of set top box

P-014: Peijiang Zhao

A visualization system for carbon footprint of products on mobile devices

P-015 : Joaquina Niembro-García

Environmental potential benefits and risks of electronic invoicing systems and them implications:

Mexican service company case study

P-016: Yusuke Kishita

Forecasting electricity consumption of the Japanese information and communications sector toward green of ICT

P-017: Johannes Gantner

Testing the FineChem tool

P-018: Hajime Eguchi

A metric for system resilience based on the skills and knowledge of production plant personnel in the chemical industry

P-019: Pomthong Malakul Na Ayudhaya

Life cycle assessment of PVC products based on material flow analysis (MFA) in Thailand

P-020: Jeremy Faludi

Sustainability of 3D printing vs. machining: Do machine type and size matter?

P-021: Ryota Ii

Life cycle-based exergy analysis and its application to Japanese case

P-022: Qian Zhang

Compilation of embodied CO_2 emission inventory using China's input-output tables: Implication for environmental public utilities

P-023: Bruno De Benedetti

Integration of material performance index for a comprehensive change-oriented LCA: The biopolymer case

P-024: Atsushi Inaba

Environmental profile of stonepaper

P-025: Sungjoo Lee

An environmental assessment case study of Rinnai Korea steam-oven product throughout developing the eco-design internal system

P-026: Yasuyoshi Taruta

LCA for environmental policy in case of Japanese local governments

P-027: Zhiwei Liang

Biodegradability and environmental migration of PDMAS polymers in an anaerobic sequencing batch reactor

P-028: Singh Intrachooto

Eco-design of tableware from palm fiber bio-composite

P-029 : Stefan Pauliuk

Critical material footprint of household consumption

P-030: Guido Sonnemann

Life cycle assessment (LCA) of the supercritical production of barium titanate nanomaterials

P-031: Guido Sonnemann

Integration of geopolitical related criticality assessment for resources into the life cycle assessment

framework

P-032: Ali Kharrazi

Exploring potentials of a data-intensive approach for sustainability quantification

P-033: Yusuke Kishita

Toward sustainable energy business using woody biomass in rural communities

P-034: Daisuke Nishijima

Combining product lifetime distribution analysis with multi-regional waste input-output analysis: A case study of automobiles in Japanese prefectures

P-035: Wen-Chi Yang

Urban metabolism, industrial structure and city sustainability based on data envelopment analysis: A case study of Taiwan's major cities

P-036: Tatsuhiko Kawamoto

System dynamics model for sustainability assessment of mineral resource consumption considering both environmental and resource constraints

P-037: Yuto Ohtsuka

Global supply chain analysis for sustainable utilization of nickel

P-038: Yasunori Iwatsuki

Mining impact on the changes in land use measured by satellite images analysis

P-039: Kazutoshi Tsuda

Potential self supply of local resources towards regional sustainability: Case study of Shinjo Village in

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Applying TRIZ and concept mapping to green design: An example of green take-away packaging

P-041: Keisuke Yoshida

Anthropogenic earth movement analysis based on geomorphological change by digital elevation model

P-042: Mei-Chiun Chou

A review of methodology for critical materials evaluation

P-043: Bernhard Steubing

Modeling climate effects of biogenic carbon flows from forests and wood products at the national level

P-044: Bernhard Steubing

Material flow analysis of the Swiss waste management system

P-045: Kenichi Nakashima

 $Metrics\ for\ performance\ measurement\ of\ advanced\ repair-to-order, disassembly-to-order\ and$

refurbishment-to-order

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The role of socio-economic factors in household solid waste management in Mumbai, India

P-047: Thang Ngoc To

An estimation of ship waste quantities at port: A case study in Haiphong, Vietnam

P-048: Richao Cong

Optimal improvement of waste plastics recycling system in Tianjin based on environmental evaluation

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P-049: Naoki Yoshikawa

Life cycle assessment of reuse system for surgical gowns

P-050: Saravanee Singtong

Bulk material flow analysis of MSW management in Nongkaem transfer station region of Bangkok

 $P\text{-}051: Chihiro\ Murayama$

Analysis of contamination of impurities in steel recycling

P-052: Keijiro Okuoka

Evaluation of the recyclability of concrete rubble using total material requirement index

P-053: Yunlong Wang

Study on methane oxidation activity and methanotrophic bacteria community composition of *Festuca ovina* rhizosphere in a simulated landfill bio-cover soil

P-054 : Yuki Yamamori

Matching reused products with users considering their satisfaction

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Analysis of benefits of introducing integrated waste management approach in developing countries: Case study in Kathmandu City

P-056: Wen-Chi Yang

A system dynamic assessment of municipal solid waste recycling and its contribution to sustainable development

P-057: Jie Yang

Life cycle inventory analysis of biogas utilization from sewage treatment plants: A case study on Dihua

Sewage Treatment Plants

P-058: Chih-Ku Chen

Review of excessive packaging restriction implementation in Taiwan

P-059: Trang Thi Thu Do

Estimation of operational efficiency of municipal solid waste collection alternatives by LCA/ LCC methodologies in Danang City, Vietnam

P-060: Hiroshi Yamaguchi

International interdependencies analysis using detailed Asian international input-output table

P-061: Tomoko Fuchigami

Study on framework of life cycle sustainability assessment and social life cycle assessment: As a subject of biorefinery

P-062: Yuya Ono

Global scale fate factor of nitrogen for aquatic eutrophication using water circulation model

P-063 : Yuki Kudoh

Methodology to assess sustainability of biomass utilisation in East Asia

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Land use, an important midpoint category indicator in agriculture: How should we deal with it?

P-066: Ryoko Morimoto

Setting method of the evaluation boundary from the viewpoint of uncertainty management in LCA for transport infrastructure provision

P-067: Hirokazu Kato

Uncertainty analysis for infrastructure LCA

P-068: Ryosuke Yokoi

Calculation and comparison of weighting factors based on different approaches in LCIA

P-069: Longlong Tang

Spatial variation of health damage factors for PM2.5 on a continent level

P-070: Kayoko Shironitta

The role of world structural changes on CO₂ emissions

P-071: Hatsuna Tadaka

Pedagogical training for environmental education based on life cycle thinking for engineers

P-072: Masatsugu Kitamura

Eliminating mottainai product features for our sustainable society

P-073: Shogo Eguchi

Environmental performance of biodiesel productions using waste cooking oil

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Life cycle CO₂ emission of wind energy at optimum locations in the world

P-075: Burcin Atilgan

Life cycle environmental impacts of electricity from renewable sources in Turkey

P-076: Tomohiro Okadera

Water-based life cycle assessment of power generation and supply in Thailand

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The concept of efficiency in the context of sustainable energy consumption: Theoretical considerations and legacy

P-078: Pomthong Malakul Na Ayudhaya

Life cycle energy and environmental assessment of the production and utilization of compressed biogas

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 $P-079: Qian\ Zhou$

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Externality assessment of NIMBY facilities incorporating distance effects: A case study on the construction of the Longmen Nuclear Power Plant

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The concept of efficiency in the context of sustainable energy consumption: Current practice and shortcomings

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Evaluating the greenhouse gas emissions and the life cycle cost of thermoelectric generators for passenger automobiles

P-083: Yusuke Jinno

A proposal of the eco-efficiency of the fuel cell co-generation system of "Ene-Farm"; in consideration of

LCCO₂ emission and metal resources depletion

P-084: Takahiro Orikasa

Cost, CO₂ emission and energy consumption of bioethanol production from a lignocellulosic energy crop,

Erianthus sp. by SRB-CaCCO process

P-085: Mauro Pereira Hill

Comparative analysis of energy use and CO₂ emissions between life cycles of compressed natural gas and thermal energy gas for final use in light vehicles

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Evaluation of power interchange potential and supply-demand balance of distributed generation in Kinki

P-087: Shunichi Hienuki

A framework to assess impacts of grid mix changes in Japan using input-output tables

P-088: Yukari Fuchigami

Analysis of environmental loads and benefits of a bio-coke production factory: A case study in Osaka

P-089: Ayu Washizu

Input-output analysis of introducing smart grid systems in Japan

P-090: Aya Heiho

Benefits of biogas projects from local and global perspectives

P-091: Jae-Young Lee

Carbon footprint labelling certification of railway operating service in Korea

P-092 : Markus Weißenberger

A review of the life cycle assessment of nearly zero-energy residential buildings

P-093: An Yu Lin

An aggregative assessment of environmental impacts on reservoir catchments imposed by public construction projects: A case study on Feitsui Reservoir

P-094 : Unchalee Suwanmanee

Environmental impacts of portland cement manufacturing and developed process with alternative technologies in Thailand

P-095: Michael Jäger

Eco-benefit analysis of multifunctional building products

P-096: Johannes Gantner

Development of a combined LCA and LCC tool for refurbishment measures of districts

P-097: Whi-Lim Son

A study on environmental impact of Korean wooden house using life cycle assessment

P-098 : Kei Ito

Macro analysis of life cycle CO₂ from urban passenger transport systems in Asian developing countries

P-099: Naoki Shibahara

Estimation method of the change in life cycle CO₂ from mass transit system applying micro-scopic traffic

flow simulation

P-100 : Kotaro Kawajiri

Net CO₂ emissions by the change of consumption in consequential LCA

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Modeling consumer's choice and its GHG implication under simultaneous consideration of available

income and time

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Determinants of environment-conscious behavior in eating habits

P-103: Akai Kenju

Product differentiation and eco-behavior by using carbon footprint

P-104: Chika Ishida

Analysis of the effects of low-carbon technologies and individual activity schedule on carbon dioxide

emissions

P-105: Katsumasa Tanaka

Emission metrics for climate policies and their implications to life cycle assessment

P-106: Tomohiro Tabata

Evaluating the relationship between agricultural workers and agricultural residues production: A case

study in the Hyogo Prefecture

P-107: Kento Tamura

Land constraints associated with future food and biofuel demands

P-108: Guen-Young Lee

Web-based system development for GHG emission from livestock sector

P-109: Elmer G. Bautista

Greenhouse gas emission of rice production system in the Philippines based upon life cycle inventory

analysis

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A proposal of the CF index of rice in consideration of consumer's health condition

P-111: Sho Ushikubo

LC-CO₂ analysis on a fresh tomato in consideration of quality degradation

P-112: Katsushi Yokoyama

Influence of management practices on life cycle greenhouse gas emissions from rice production in

Yamagata Prefecture, Japan

P-113: Motoko Shimura

Potential reductions in life-cycle greenhouse gas emissions from paddy rice production: Assessing the influence of puddling, transplanting density, and irrigation depth

P-114: Kenji Koido

Life cycle CO₂ emission of konjac production via an overwintering methodology in Gunma, Japan

P-115: Rattanawan Mungkung

Low-carbon footprint Thai pork sausage by biogas system application at pig farms

P-116: Hidetsugu Morimoto

Life cycle cost analysis of willow production on small-scale field

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Life cycle inventory analysis for small scale trawl fishery in Sendai Bay

P-118: Masayuki Sagisaka

Improving the environmental efficiency of woody biomass utilization: Focusing on the manufacturing of high value-added products in Maniwa, Japan

P-119: Tatsuo Hishinuma

Potential for energy saving of dairy farming system dependent upon land utilization

P-120: Takashi Yamamoto

Substance flow analysis on agricultural nutrients focusing on nitrogen and phosphorus

P-121: Latifah Abdul Ghani

Combining duo technique of MFA and GIS for evaluating nitrogen flux in the agricultural system: Case study in Kuala Terengganu region

P-122: Tao Wang

Water security and socio-economic metabolism in China: Toward an integrated assessment

P-123: Jahau Lewis Chen

Water footprint assessment of machine tool

P-124: Susumu Uchida

Evaluation of water use in paddy-rice production on the basis of differential water footprint

P-125: Soya Iida

Development of water footprint inventory database of Asian countries