EcoBalance 2014

Poster Program (Poster Number, Core Period, Presenter, Title)

*Numbers in square brackets represent core periods: [1]15:10-16:10, [2] 16:30-17:30.

P-001 [1]: Martin Eberhard Baitz

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

P-002 [2] : Atsushi Inaba

Guidance to assess avoided emissions of GHGs

P-003 [1] : *Hsin-Jui Wu*

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

P-004 [2] : *Hideki Sasaki*

Estimation of the workload of calculating GHG emissions of scope 3

P-005 [1] : *Hui-Ting Tang*

An adaptive implementation framework for constructing a green and livable environment

P-006 [2]: Tomohiro Tasaki

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

P-007 [1] : *Atsushi Inaba*

SCOPE3 of Kogakuin University

P-008 [2] : *Liang Dong*

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

P-009 [1] : Leighton K. Chong

Symbiosis of OTEC deep water upwelling & ocean aquaculture

P-010 [2] : Yuri Hirako

Projection of demand and supply change of first generation biomass

P-011 [1]: Chunyoul Baek

Decision supporting tool for sustainable dairy cow system

P-012 [2] : Junya Yano

Domestic consumption and household stock storage media in Japan

P-013 [1] : Jun-Yi Chiang

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

P-014 [2]: Peijiang Zhao

A visualization system for carbon footprint of products on mobile devices

P-015 [1]: Joaquina Niembro-García

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

Mexican service company case study

P-016 [2] : Yusuke Kishita

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

P-017 [1]: Johannes Gantner

Testing the FineChem tool

P-018 [2]: Hajime Eguchi

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

P-019 [1]: Pomthong Malakul Na Ayudhaya

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

P-020 [2]: Jeremy Faludi

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

P-021 [1]: Ryota Ii

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

P-022 [2] : Qian Zhang

Compilation of embodied CO₂ emission inventory using China's input-output tables: Implication for environmental public utilities

P-023 [1]: Bruno De Benedetti

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

P-024 [2] : *Atsushi Inaba*

Environmental profile of stonepaper

P-025 [1] : Sungjoo Lee

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

P-026 [2] : Yasuyoshi Taruta

LCA for environmental policy in case of Japanese local governments

P-027 [1] : Zhiwei Liang

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

P-028 [2]: Singh Intrachooto

Eco-design of tableware from palm fiber bio-composite

P-029 [1] : Stefan Pauliuk

Critical material footprint of household consumption

P-030 [1]: Guido Sonnemann

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

P-031 [1]: Guido Sonnemann

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

P-032 [2] : Ali Kharrazi

Exploring potentials of a data-intensive approach for sustainability quantification

P-033 [1]: Yusuke Kishita

Toward sustainable energy business using woody biomass in rural communities

P-034 [2]: Daisuke Nishijima

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

P-035 [1]: 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 [2]: Tatsuhiko Kawamoto

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

P-037 [1]: Yuto Ohtsuka

Global supply chain analysis for sustainable utilization of nickel

P-038 [2]: Yasunori Iwatsuki

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

P-039 [1]: Kazutoshi Tsuda

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

Okayama Prefecture, Japan

P-040 [2] : Hui-Ting Tang

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

P-041 [1]: Keisuke Yoshida

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

P-042 [2] : Mei-Chiun Chou

A review of methodology for critical materials evaluation

P-043 [2]: Bernhard Steubing

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

P-044 [2]: Bernhard Steubing

Material flow analysis of the Swiss waste management system

P-045 [1]: Kenichi Nakashima

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

P-046 [2] : Sangeeta Vinod Sharma

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

P-047 [1]: Thang Ngoc To

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

P-048 [2] : Richao Cong

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

P-049 [1]: Naoki Yoshikawa

Life cycle assessment of reuse system for surgical gowns

P-050 [2]: Saravanee Singtong

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

P-051 [1]: Chihiro Murayama

Analysis of contamination of impurities in steel recycling

P-052 [2] : Keijiro Okuoka

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

P-053 [1] : 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 [2] : Yuki Yamamori

Matching reused products with users considering their satisfaction

P-055 [1]: Rajeev Kumar Singh

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

P-056 [2]: Wen-Chi Yang

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

P-057 [1]: Jie Yang

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

P-058 [2] : Chih-Ku Chen

Review of excessive packaging restriction implementation in Taiwan

P-059 [1]: Trang Thi Thu Do

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

P-060 [2]: Hiroshi Yamaguchi

International interdependencies analysis using detailed Asian international input-output table

P-061 [1]: Tomoko Fuchigami

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

P-062 [2]: Yuya Ono

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

P-063 [1] : Yuki Kudoh

Methodology to assess sustainability of biomass utilisation in East Asia

P-064 [2] : Kuan Jay Bartel

New version of simple LCA software including a comprehensive inventory database (IDEA)

P-065 [1]: Takahiro Nakashima

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

P-066 [2] : *Ryoko Morimoto*

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

P-067 [1] : *Hirokazu Kato*

Uncertainty analysis for infrastructure LCA

P-068 [2] : Ryosuke Yokoi

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

P-069 [1]: Longlong Tang

Spatial variation of health damage factors for PM_{2.5} on a continent level

P-070 [2]: Kayoko Shironitta

The role of world structural changes on CO₂ emissions

P-071 [1]: Hatsuna Tadaka

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

P-072 [2] : Masatsugu Kitamura

Eliminating mottainai product features for our sustainable society

P-073 [1] : Shogo Eguchi

Environmental performance of biodiesel productions using waste cooking oil

P-074 [1] : *Kotaro Kawajiri*

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

P-075 [1]: Burcin Atilgan

Life cycle environmental impacts of electricity from renewable sources in Turkey

P-076 [2]: Tomohiro Okadera

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

P-077 [1]: Harald Ernst Otto

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

P-078 [2]: Pomthong Malakul Na Ayudhaya

Life cycle energy and environmental assessment of the production and utilization of compressed biogas (CBG) in Thailand

P-079 [1]: Qian Zhou

Analysis of the socio-economic and environmental benefits of introducing technology innovation and regulations in the energy sector in China: A regional case study

P-080 [2]: Ya Chen Tasi

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

P-081 [1]: Harald Ernst Otto

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

P-082 [2]: Yusuke Kishita

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

P-083 [1] : 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 [2]: Takahiro Orikasa

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

Erianthus sp. by SRB-CaCCO process

P-085 [1]: 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

P-086 [2]: Daisuke Fukuhara

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

P-087 [1]: Shunichi Hienuki

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

P-088 [2]: Yukari Fuchigami

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

P-089 [1] : Ayu Washizu

Input-output analysis of introducing smart grid systems in Japan

P-090 [2] : Aya Heiho

Benefits of biogas projects from local and global perspectives

P-091 [1]: Jae-Young Lee

Carbon footprint labelling certification of railway operating service in Korea

P-092 [2] : Markus Weißenberger

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

P-093 [1]: 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 [2]: Unchalee Suwanmanee

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

P-095 [1] : Michael Jäger

Eco-benefit analysis of multifunctional building products

P-096 [2]: Johannes Gantner

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

P-097 [1]: Whi-Lim Son

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

P-098 [2]: Kei Ito

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

P-099 [1]: Naoki Shibahara

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

flow simulation

P-100 [2]: Kotaro Kawajiri

Net CO₂ emissions by the change of consumption in consequential LCA

P-101 [1] : Koji Takase

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

P-102 [2] : Tomohiko Ihara

Determinants of environment-conscious behavior in eating habits

P-103 [1] : Akai Kenju

Product differentiation and eco-behavior by using carbon footprint

P-104 [2] : Chika Ishida

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

P-105 [1]: Katsumasa Tanaka

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

P-106 [2] : Tomohiro Tabata

Evaluating the relationship between agricultural workers and agricultural residues production: A case study in the Hyogo Prefecture

P-107 [1] : Kento Tamura

Land constraints associated with future food and biofuel demands

P-108 [2] : Guen-Young Lee

Web-based system development for GHG emission from livestock sector

P-109 [1] : Elmer G. Bautista

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

P-110 [2] : Takashi Oi

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

P-111 [1]: Sho Ushikubo

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

P-112 [2]: Katsushi Yokoyama

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

Yamagata Prefecture, Japan

P-113 [1]: 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 [2] : *Kenji Koido*

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

P-115 [1]: Rattanawan Mungkung

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

P-116 [2]: Hidetsugu Morimoto

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

P-117 [1]: Kazuhito Watanabe

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

P-118 [2]: Masayuki Sagisaka

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

P-119 [1]: Tatsuo Hishinuma

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

P-120 [2] : Takashi Yamamoto

Substance flow analysis on agricultural nutrients focusing on nitrogen and phosphorus

P-121 [1]: 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 [2]: Tao Wang

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

P-123 [1]: Jahau Lewis Chen

Water footprint assessment of machine tool

P-124 [2]: Susumu Uchida

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

P-125 [1]: Soya Iida

Development of water footprint inventory database of Asian countries