

## Curriculum Vitae of Joni Jupesta

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### EDUCATION

- Philosophy Doctor (Ph.D.) in Management Science and Technology, 2010, Tohoku University, Japan. **Dissertation:** Energy System Analysis: Modelling the Impact of Biofuel Introduction in Transportation sector in Indonesia.
- Master of Business Administration (MBA) in International Industrial Management, 2006, University of Applied Sciences Esslingen, Germany. **Thesis:** Market Potential Analysis for Festo Company to enter Global Bioenergy Industries.
- Master of Science (M.Sc.) in Quality, Safety and Environment, 2005, University of Magdeburg, Germany. **Thesis:** Investigation of the process parameters on the growth of silica particle precipitation.
- Bachelor of Engineering (B. Eng.) in Gas and Petrochemical Engineering, 2000, University of Indonesia, Indonesia. **Thesis:** Synthesis of  $\gamma$ -alumina for catalyst support in steam reforming reaction.

### PROFESSIONAL EXPERIENCE

Research Fellow and Academic Officer (since 2023)

United Nations University- Institute of Advanced Studies of Sustainability (UNU-IAS), Tokyo, Japan.

<https://ias.unu.edu/en/>

- Design and develop research plans in the areas across the multiple Academic Programmes focusing on climate change and sustainable development that will contribute to transformation of socio-economic systems such as energy decarbonization, sustainable food system and sustainable cities, as well as governance for sustainable development including monitoring and evaluation systems on SDGs at the international, national, and local scales.
- Outreach knowledge and contribute to international-debate and processes through the quality and quantity of the research outputs such as UNU-IAS policy reports, journal articles and other UNU-IAS and UNU publications, which will contribute to policy relevant on climate change and other global changes (biodiversity and environment pollutions).
- Serve as a Principal Academic Advisor for Master/ PhD students enrolled in the UNU-IAS postgraduate degree and training (PDT) programme. Develop and implement curricula related to PDT programmes focusing on the Specialization on the Paris Agreement such as mid- and long-term net-zero emission strategies, nature-based solutions, and synergies between climate change and sustainable development.

Senior Researcher (2020-2023)

The Research Institute for Innovative Technology for the Earth (RITE), Kyoto, Japan. <http://www.rite.or.jp/>

- Assessing on the possibilities of net zero GHG emissions through carbon dioxide removal (CDR) technologies e.g.: Afforestation/Reforestation, Biochar, Soil Carbon Sequestration, Wetland (Peatland), Bioenergy and Carbon Capture and Storage (BECCS), Direct Air Capture Carbon Capture and Storage (DACCS), Ocean Alkalinity, Enhanced Weathering, and Blue Carbon (Mangrove, Seaweed, Seagrass).
- Assessing on the carbon capture, utilization, and storage (CCUS) in steel, cement, fuel, and chemicals industries.
- Assessing on energy storage e.g.: hydrogen and battery.
- Assessing on the possibilities to achieve low energy demand across end use sectoral: building, industry, and transport.
- Represent RITE at global and national research-related working groups and committees.

Senior Manager (2013-2020),

Sinar Mas Agro Resource and Technology (PT. SMART), Jakarta, Indonesia. <http://www.smart-tbk.com/>

- Leading of planning, monitoring, and evaluation activities of environment and social's projects (e.g.: carbon footprint, water footprint, nutrient footprint, waste footprint) in entire supply chain from agriculture till bioenergy and food products.
- Ensure international coordination with project partners, research institutions and government and as part of global initiatives to promote sustainable biomass products.
- Represent SMART/GAR at global and national research-related working groups and committees.

Postdoctoral Research Fellow (2010-2013),

United Nations University – Institute for Advanced Studies of Sustainability (UNU-IAS), Tokyo-Japan.

<https://ias.unu.edu/en/>

- Lead author of six papers on Sustainability Transitions in Indonesia across water-energy-food nexus. Several articles were cited and helps policy makers for making decision on climate and energy issues in Indonesia.
- Article **Jupestia, J.** (2011). Green Economy Transition in Indonesia, in Our World 2.0. 17<sup>th</sup> October 2011 was cited by European Union (EU) Country Report on Indonesia 2015. [https://ec.europa.eu/europeaid/sites/devco/files/erd5-country-illustration-indonesia-2015\\_en.pdf](https://ec.europa.eu/europeaid/sites/devco/files/erd5-country-illustration-indonesia-2015_en.pdf)
- Article **Jupestia J. et al.** (2011) "Managing the Transition to Sustainability in an Emerging Economy: Evaluating Green Growth Policies in Indonesia" in Environment Innovation and Societal Transition cited in: 2014 5<sup>th</sup> IPCC Assessment Report WG III: Mitigation of Climate Change (Chapter 4: Sustainable Development and Equity, p.40). <http://www.ipcc.ch/report/ar5/wg3/>  
<http://ourworld.unu.edu/en/green-economy-transition-in-indonesia>

PhD Researcher (2007-2010)

Tohoku University, Sendai, Japan.

- Responsible for the integrated assessment modeling from energy, economics, and environment perspectives by using several methods (optimization, partial equilibrium, and computable general equilibrium) on the impact of biofuel policy introduction to the energy systems in Indonesia.

Research Associate (2007)

Technical University Berlin, Berlin, Germany. <http://www.ensys.tu-berlin.de/>

- Research on the market potential for biofuel introduction from palm oil based into EU market.

Quality Analyst (2006-2007)

Kaercher GmbH, Winnenden, Germany. <https://www.kaercher.com/de/>

- Quality control assessment (ISO 9001-9002) of the Kaercher products

Market Analyst (2006)

FESTO GmbH, Esslingen, Germany. <https://www.festo.com/group/en/cms/10054.htm>

- Market analysis on the potential for FESTO company to enter global biofuel industry.

## PROFESSIONAL APPOINTMENTS

Scientific Advisory Group member (2023-2025)

Science Based Targets Initiative (SBTi) <https://sciencebasedtargets.org/>

- The SAG is a group of volunteer advisors with in-depth knowledge of climate change mitigation from a diversity of perspectives. It includes scientists from research institutions and academia with developing international reputation and expertise in their field.
- The SAG contributes to the rigor and consistency of the SBTi's outputs. It provides expert advice and review throughout the development of science-driven evidence informing key technical resources for the corporate and financial sectors.

Technical Expert (since 2023)

United Nations Framework Convention on Climate Change (UNFCCC) <https://unfccc.int/>

- To carry out the task of reviewing and analyzing the national climate reports submitted by Parties.
- To contribute to several processes mandated by the COP, CMP, CMA, and the subsidiary bodies.
- To reviews of national communications and biennial reports submitted by Annex I Parties and technical analysis under the international consultation and analysis (ICA) process of biennial update reports (BURs) submitted by non-Annex I Parties.

Task Force Member, Science, and digitalization for sustainable future (2023)

Asian Development Bank Institute, Think Tank 7 (T7) for G7 meeting. <https://www.think7.org/>

- Preparing Policy Brief on Science and Digitalization on Food, Land and Water for Task Force 3 on G7 preparation: science and digitalization for sustainable future.

Member, Energy Demand Changes induced by Technological and Social Innovation (EDITS) (2020-2025)

International Institute for Applied System Analysis (IIASA), Vienna, Austria.

<https://iiasa.ac.at/projects/edits>

- Working on three end use energy sectors: building, industry, and transport to study on socio behavior and technological innovation impact due to megatrends: i.e., digital economy, circular economy, and sharing economy towards lowering energy demands towards net zero.

Task Force Member, Global Life Cycle Impact Assessment Indicators (GLAM) project (2020-2023)

United Nations Environment (UNEP), Paris-France. <http://www.unenvironment.org/>

- Working to reach consensus on recommended environmental indicators and characterization factors for life cycle impact assessment (LCIA).
- Working on modeling the impacts on selected damage categories and weighing of different damage on Natural resources and ecosystem services.

Lead Author Scientist (2018-2022)

Intergovernmental Panel on Climate Change (IPCC), Geneva- Switzerland. <http://www.ipcc.ch/>

- Lead Author (LA) for the 6<sup>th</sup> Assessment Report for Working Group III (Climate Change Mitigation) on Chapter 17: Accelerating the transition in the context of sustainable development (in charge for case studies development on net zero emissions, agriculture, energy, forest and land use, water, city, infrastructure and building, industry sectors and cross sectoral digitalization).
- Contributing Author (CA) for the 6<sup>th</sup> Assessment Report for Working Group III (Climate Change Mitigation) on Chapter 16: Innovation, technology development and transfer (in charge for digitalization box).

Visiting Research Fellow (2013-2016)

United Nations University, Institute for Advanced Studies of Sustainability (UNU-IAS), Tokyo-Japan.

<http://ias.unu.edu/en/>

- Project Leader on Green Infrastructure in Asian Cities; Case of Jakarta, Yokohama, and Shanghai.
- The outcome of the project is: one edited book, 4 conference papers, one policy reports and three policy briefs.

Visiting Scholar (2011-2013)

The National Graduate Institute for Policy Studies (GRIPS), Tokyo, Japan. <http://www.grips.ac.jp/>

- Project Member on Green New Deal Policy in Global; Case of Denmark, South Korea, USA, Japan, Germany, and China.
- Produced one report on Green New Deal in Denmark, South Korea, USA, Japan, Germany, and China.

## **LANGUAGE SKILLS**

- Native Indonesian
- Fluent in English
- Fair in German and Japanese

## **COMPUTER SKILLS**

- Proficient user on both Windows and Macintosh platforms
- Software: GAMS, ArcGIS, LEAP, R, Python, and SimaPro

## **SELECTED KEYNOTE SPEAKERS**

2022 The role of Carbon Capture, Utilization and Storage (CCUS) in the Industry by Chongqing University (China)

2021 The role of Carbon Dioxide Removals (CDR) by Chongqing University (Chongqing, China)

2021 Circular Economy from Asia Pacific perspective by Future Earth (Taipei, Taiwan)

2020 Co-Benefits of Climate Change and Sustainable Development Goals (SDGs) by the Asian Development Bank (Manila, The Philippines)

2020 Circular Economy as Climate Change Mitigation tool by Green Talent Forum (Berlin, Germany)

2016 Sustainable Energy Transitions Workshop by Boston University (Boston, USA)

2015 ASEAN -USA Energy Cooperation Symposium by USAID (San Francisco, USA)

2014 Sustainable Business Model Workshop by UNU MERIT (Maastricht, The Netherlands)

2012 Planet under Pressure Conference by Oxford University (London, UK)

## **HONORS AND AWARDS**

2018: Data-Pop Alliance Fellow on Leveraging Big Data for Sustainable Development from Data-Pop Alliance and United Nations System Staff College (UNSSC).

<http://sdg.iisd.org/news/un-launches-initiatives-to-unleash-big-data-for-sustainable-development/>

- 2017: Life Cycle thinking Award (LCA) 2017 from Life Cycle Initiative of United Nations (UN) Environment.  
<https://www.lifecycleinitiative.org/>
- 2014: Brown University Advanced Research Institutes (BIARI) Seed Grant Award 10,000 US\$ from Brown University, USA.
- 2014: National Energy Globe Award for Indonesia for industrial project “Waste to Energy: Case of Palm Oil Methane Effluent (POME) in Indonesian Palm Oil” from Energy Globe Foundation.  
<http://www.energyglobe.info/indonesia2014?cl=english>
- 2013: Mitra Award for Global Change Research from Asia Pacific Network for Global Change Research (APN). <http://portal.unu.edu/calendar/?go=event.page&id=6447>
- 2012: Green Talent Award from German Federal Minister of Education and Research (BMBF).  
<http://www.greentalents.de/1000.php>
- 2012: Highly Commended Paper Award for paper “Sustainable business model for biofuel industries in Indonesia” from Sustainability Accounting, Management and Policy journal, Emerald publisher.  
[www.emeraldinsight.com/literati](http://www.emeraldinsight.com/literati)
- 2011-2013: JSPS UNU Postdoctoral Fellowship Award from United Nations University.  
[http://www.ias.unu.edu/sub\\_page.aspx?catID=121&ddlID=143](http://www.ias.unu.edu/sub_page.aspx?catID=121&ddlID=143)
- 2010-2011: UNU IAS Postdoctoral Fellowship Award from United Nations University.  
[http://www.ias.unu.edu/sub\\_page.aspx?catID=6&ddlID=150](http://www.ias.unu.edu/sub_page.aspx?catID=6&ddlID=150)
- 2007-2010: PhD Scholarship Award from Japan’s Ministry of Education, Culture, Sports, Science and Technology (MEXT). <http://www.eng.tohoku.ac.jp/english/program/?menu=itn>

## **PROFESSIONAL MEMBERSHIPS**

- Since 2020 Member of International Society of Industrial Ecology (ISIE)
- Since 2017 Member of Life Cycle Initiative (LCI) of UN Environment
- Since 2015 Member of Knowledge Action Community of Future Earth
- Since 2013 Energy Globe Special Representative for Indonesia
- Since 2010 Member of International Association of Energy Economics (IAEE)

## **EDITORIAL SERVICES**

- Since 2022 Editor for Carbon Capture Science and Technology journal, Elsevier
- Since 2022 Area Editor for Data and Policy journal, Cambridge University Press

## **REVIEW SERVICES**

### **External PhD Examiner:**

Mark M. Akrofi (2023), Towards solar urban planning in Ghana: A techno economic and socio-political analysis of integrating solar PV in new residential urban development, Ph.D. Thesis, United Nations University, Japan.

Murilo Pagotto (2020), Enhancing the sustainability of food production: A methodological framework to assess and improve the sustainability of Australia food system, Ph.D. Thesis, University of Queensland, Australia.

### **Expert Reviewer:**

IPCC 2023 Synthesis Report.

IPBES 2021 Report: Assessing the interlinkages among biodiversity, climate, water, food, energy, and health (nexus assessment).

International Resource Panel (IRP) 2019 Report: Global Assessment on Natural Resource use and Management (Global Assessment).

IPCC 2019 Refinement Report to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories, IPCC 2019 Special Report on Climate Change and Land (SRCCL).

IPBES 2019 report: Global assessment of biodiversity and ecosystem services,

IRENA 2016 Report: Remap: Roadmap for a Renewable Energy Future.

## LIST OF PUBLICATIONS

### Major Report:

1. Denton, F., Halsnaes, K., Akimoto, K., Burch, S., Morejon, C.D., Farias F., **Jupesta J.**, Schweizer-Ries, P., Shareef A., Teng, F., Zusman, E. (2022), Accelerating the transition in the context of sustainable development, in; Intergovernmental Panel on Climate Change (IPCC) 6<sup>th</sup> Assessment Report on Climate Change Mitigation.  
[https://www.ipcc.ch/report/ar6/wg3/downloads/report/IPCC\\_AR6\\_WGIII\\_Chapter17.pdf](https://www.ipcc.ch/report/ar6/wg3/downloads/report/IPCC_AR6_WGIII_Chapter17.pdf)

### Peer Reviewed Edited Books:

1. Jie, B., **Jupesta, J.**, Pignatta, G. (*forthcoming, 2023*). Climate Change and Environmental Sustainability, 2<sup>nd</sup> edition, Springer Nature Publisher
2. Jie, B., Prasad, D. Pignatta, G., **Jupesta, J.** (2022). Climate Change and Environmental Sustainability, Springer Nature Publisher.
3. Djalante, R., **Jupesta, J.**, Aldrian, E. (2020). Climate Change Research, Policy, and Actions in Indonesia: Science, Adaptation and Mitigation. Springer Nature Publisher.
4. **Jupesta, J.**, Wakiyama, T. (2016). Low Carbon Urban Infrastructure Investment in Asian Cities, Palgrave Macmillan Publisher. <https://www.palgrave.com/us/book/9781137596758#aboutAuthors>

### Peer Reviewed Book chapters:

1. **Jupesta J.**, Akimoto, K., Denton, F., Halsnaes, K., Fei, T., Creutzig, F., Castaneda, A. (accepted, 2023), Twinning digital transformation and green transformation towards Sustainable Development, Asian Development Bank edited Book, title tbd.
2. **Jupesta, J.**, Akimoto, K., Boer, R. (2022). Is it possible to achieve carbon neutrality in palm oil production? In: Climate Change and Environment Sustainability, edited by: Jie, B., Prasad, D. Pignatta, G., Jupesta, J., Springer Nature Publisher.
3. Jie, B., Prasad, D. Pignatta, G., **Jupesta, J.** (2022). The climate change and environment sustainability: Introduction, edited by: Jie, B., Prasad, D. Pignatta, G., Jupesta, J., Springer Nature Publisher.
4. Novita, N., Kauffman, J.B., Hergoaulc'h, K., Murdiyarso, D., Tryanto, D.H., **Jupesta, J.** (2021). Carbon Stocks from Peat Swamp Forest and Oil Palm Plantation in Central Kalimantan, Indonesia, in: Climate Change Research, Policy and Actions in Indonesia: Science, Adaptation and Mitigation, edited by: Djalante, R., **Jupesta, J.**, Aldrian, E., Springer Nature Publisher.
5. **Jupesta, J.**, Supriyanto, A.A., Martin, G., Piliang, J., Yang, S., Purnomo, A., Neville, A., Caliman, J.P (2020). Establishing Multi-Partnerships Environmental Governance in Indonesia: Case of Fire Free Village Program, in: Food security and land use change under conditions of climatic variability: A multidimensional perspective, edited by: Squire, V.R., and Gaur, M. K., Springer Nature Publisher.
6. **Jupesta, J.**, Wakiyama, T., Abdullah, A. (2016). Introduction, in: Low Carbon Urban Infrastructure Investment in Asian Cities", edited by **Jupesta, J.**, Wakiyama, T., Palgrave Macmillan Publisher.
7. Wakiyama, T., Abdullah, A., **Jupesta, J.** (2016). Risk Analysis for Low Carbon City Development in Yokohama, in: Low Carbon Urban Infrastructure Investment in Asian Cities, edited by **Jupesta, J.**, Wakiyama, T., Palgrave Macmillan Publisher.



8. Wakiyama, T., Abdullah, A., **Jupesta, J.** (2016). Assessment of the impacts of low carbon investment on renewable energy for development of low carbon future in Yokohama city, in: Low Carbon Urban Infrastructure Investment in Asian Cities, edited by **Jupesta, J.**, Wakiyama, T., Palgrave Macmillan Publisher.
9. **Jupesta, J.**, Wakiyama, T. (2016). Conclusion, in: Low Carbon Urban Infrastructure Investment in Asian Cities, edited by **Jupesta, J.**, Wakiyama, T., Palgrave Macmillan Publisher.
10. Maulidia, M., **Jupesta, J.** (2015). Recent Development of an Emissions Trading Scheme and Carbon Tax in Indonesia, in: Economic Instruments to Combat Climate Change in Asian countries: Choice between Emission Trading Scheme and Carbon Tax, edited by Kennichi Matsumoto and Anton Ming-Zhi Gao, Kluwer Law Publisher, pp.127-152.  
<http://www.kluwerlaw.com/Catalogue/titleinfo.htm?ProdID=9041154086>
11. **Jupesta, J.** (2012). Impact of Biofuel Introduction in the Transportation Sector in Indonesia, in: Technologies and Innovations for Development: Scientific Cooperation for a Sustainable Future, edited by Bolay J.-C., Schmid, M., Tejada G., Hazboun, E., Springer-Verlag, Paris, pp. 281-295.  
[http://dx.doi.10.1007/978-2-8178-0268-8\\_19](http://dx.doi.10.1007/978-2-8178-0268-8_19)

#### Peer Reviewed journal articles:

1. **Jupesta J.**, Dohong A., Sahari, B. (*invited to be submitted*, 2023) ESG Governance in Southeast Asia: Nature Positive Investment in Indonesia, Journal of Environmental Assessment Policy and Management, World Scientific publisher.
2. Permana, I, Sudirja, R, **Jupesta J.**, (*forthcoming*, 2023) Potential of vermifiltration technique to reduce environmental pollutants in developing countries: Case of Indonesian Farm Dairy Industry, Green and Low Carbon Economy. <https://ojs.bonviewpress.com/index.php/GLCE/index>
3. Alessio M, Niamir, L, **Jupesta, J.** et al. (*forthcoming*, 2023) Modelling low energy demand futures for buildings – Current state and research needs, Annual Review of Environment and Resources, Annual Reviews publisher <https://www.annualreviews.org/journal/energy> (Impact Factor 17.9).
4. Novita, N., Subarno, Yeo,S., Lestari, N.S., Lugina, M., Malik, A., Putra, C.A.S., Gangga, A., Asyhari, A., **Jupesta, J.** et al. (2022) Natural Climate Solutions in Indonesia, Environmental Research Letters, IOP publisher. <https://iopscience.iop.org/article/10.1088/1748-9326/ac9e0a>
5. **Jupesta, J.**, Akimoto, K, Wiloso, E.I, Gheewala, S.H. (2022) The Physicochemical properties of the biochar in Southeast Asia, Indonesian Journal of Life Cycle Assessment and Sustainability (IJoLCAS) Vol 6, No.1. <https://ijolcas.ilcan.or.id/index.php/IJoLCAS/article/view/72>
6. Novita, N, Lestari, N.S., Lugina, M., Tiryana, T., Basuki, I., **Jupesta, J.** (2021). Geographic setting and groundwater table control carbon emission from Indonesia peatland: A Meta-Analysis, Forests. <https://www.mdpi.com/1999-4907/12/7/832>
7. Baron, V., Saoud, M., **Jupesta, J.**, Praptantyo, I.R., Admojo, H.T., Bessou, C., Caliman, J.P. (2019) Critical parameters for integrating co-composting of POME and EFB into life cycle analysis of palm oil production, Indonesian Journal of Life Cycle Assessment and Sustainability (IJoLCAS) Vol 3, No.1. <https://ijolcas.ilcan.or.id/index.php/IJoLCAS/article/view/72>
8. Wiloso, E.I., Nazir, N., Hanafi J., Siregar, K., Harsono, S.S., Setiawan, A.A.R., Muryanto, Romli, M., Utama, MA., Shantiko, B. **Jupesta, J.** Utomo, T.H.A, Sari, A.A., Saputra, S.Y, Fang, K. (2018). Life cycle assessment research and application in Indonesia, International Journal of Life Cycle Assessment. <https://link.springer.com/article/10.1007/s11367-018-1459-3>
9. **Jupesta, J.**, Lakitan, B. (2014). Innovative Financing Scheme for Small-holder Oil Palm Farmers in Indonesia, Strategic Reviews Indonesia Edition April-June 2014, pp. 60-69. <http://www.sr-indonesia.com/in-the-journal/view/innovative-financing-for-palm-oil-farmers>

10. Haslam G.H., **Jupesta J.**, Parayil, G. (2012). Assessing Fuel Cell Vehicle Innovation and the Role of Policy in Japan, Korea, and China, *International Journal of Hydrogen Energy*, Vol. 37. No.19, pp. 14612-14623. <http://dx.doi.org/10.1016/j.ijhydene.2012.06.112>
11. **Jupesta, J.** (2012). Modeling Technological Change in the Biofuel Production System in Indonesia. *Applied Energy*, Vol. 90, No.1, pp. 211-217. <http://dx.doi:10.1016/j.apenergy.2011.02.020>
12. Suwa, A. **Jupesta J.** (2012). Policy Innovation for Technology Diffusion: through a case with Japanese Renewable Energy Public Support Programs, *Sustainability Science*, Vol. 7, pp. 185-197. <http://dx.doi:10.1007/s11625-012-0175-3>
13. **Jupesta, J.**, Boer, R., Parayil, G., Harayama, Y., Yarime, M., Puppim, Jose, O., Subramanian, Suneetha M. (2011). Managing the Transition to Sustainability in an Emerging Economy: Evaluating Green Growth Policies in Indonesia. *Environmental Innovation and Societal Transitions*, Vol. 1, No. 2 pp. 187-191. <http://dx.doi:10.1016/..eist.2011.08.001>
14. **Jupesta, J.**, Harayama, Y., Parayil, G. (2011). Sustainable Business Model for Biofuels Industries in Indonesia. *Sustainable Accounting, Management and Policy*, Vol. 2, No.2, pp. 231-247. <http://dx.doi.org/10.1108/20408021111185394>
15. **Jupesta, J.** (2010). Impact of the Introduction of Biofuel in the Transportation Sector in Indonesia, *Journal Sustainability*, Vol. 2, pp. 1831-1848. <http://dx.doi:10.3390/su2061831>
16. Nakata T., Rodionov M., Silva D., **Jupesta, J.** (2010). Shift to a Low Carbon Society through Energy Systems Design, *Journal Science China Technological Sciences*, Vol. 53, pp. 134-143. <http://dx.doi:10.1007/211431-009-0420-x>

#### **List of Technical Report, Policy Reports/Briefs (peer reviewed):**

1. **Jupesta J.**, Nugroho, B.D.A., Novita N., Adisaputro, D. (2023), Digital Transformation in Agriculture: Green Supply Chain in Developing Countries: Case of Southeast Asia, Multi-Stakeholder Forum on Science, Technology, and Innovation for the SDGs (STI Forum) Policy Brief, UN HQ New York, May 3<sup>rd</sup>-4<sup>th</sup> 2023.
2. E. K. Mbula, **J. Jupesta**, B. Mishra, C. Sadoff, B. Mishra (2023) The potential for science and inclusive methods and transformative innovation to generate sustainable food, water, and land systems at scale, ADBI Think 7 Policy Brief, April 12<sup>th</sup>, 2023.
3. **Jupesta J.**, Wakiyama T., Ping J., Boer R., Dewi R.G., Anggraini L., Baktiar T., Mathai M. V. (2015) Low Carbon Urban Infrastructure Investment: Cases of China, Indonesia, and Japan. Technical Report. <http://www.apn-gcr.org/resources/items/show/1919#.UrO8053-KP9>
4. **Jupesta J.**, Ping, J, Wakiyama T. (2015) Green Investment in Asian Cities: Cases of Shanghai, Jakarta and Yokohama, APN Global Change Perspective Policy Brief, Asia Pacific Network for Global Change Research. <http://www.apn-gcr.org/resources/items/show/2022>.
5. **Jupesta, J.**, Bratasida, L., Maulidia, M., Kanie, N., Wakiyama, T., Suwa, A., Sunami, A., Parayil, G., Harayama, Y. (2012) Strengthening the Institutional Framework for Sustainable Development: Climate Change Governance in Indonesia, Policy Brief, Earth System Governance Project. [http://www.ieg.earthsystemgovernance.org/sites/default/files/files/publications/ESG\\_IEG\\_Jupesta\\_2012\\_IFSD-Indonesia.pdf](http://www.ieg.earthsystemgovernance.org/sites/default/files/files/publications/ESG_IEG_Jupesta_2012_IFSD-Indonesia.pdf)

#### **List of Selected Conference Proceedings:**

1. Wiedenhofer, D. Pauliuk, S., **Jupesta J.**, et al. (*forthcoming*, 2023) Lower energy and materials demand for net-zero GHG futures for industry – a critical review of the potentials, strategies, and modelling approaches required for transformative insights, July 3<sup>rd</sup>, 2023, International Society of Industrial Ecology (ISIE) Conference, Leiden, The Netherlands. <https://is4ie.org/events/isie-conferences/95>



2. **Jupestia J.**, Akimoto, K., Denton, F., Halsnaes, K., Fei, T., Creutzig, F., Castaneda, A. (2023), Twinning digitalization and green transition towards Sustainable Development, Asian Development Bank Institute Conference, 5<sup>th</sup> -7<sup>th</sup> June 2023 (virtual).
3. **Jupestia J.**, Dohong A., Sahari, B. (2023) ESG Governance in Southeast Asia: Nature Positive Investment in Indonesia, International Conference ESG investments in East and Southeast Asia, Kita Kyushu, May 12<sup>th</sup>, 2023, Japan.
4. Onishi, N., **Jupestia J.**, Sano, F., Akimoto, K. (2023) The 3D printing impact on manufacturing industry from energy and climate change perspective, January 20<sup>th</sup>, 2023, Japanese Society of Energy and Resources (JSER) Conference, Tokyo, Japan.
5. Akimoto, K., Nagashima, M., Hayashi, A., Sano, F., Nakano, Y., Onishi N., **Jupestia J.** (2023) Scenario analysis of the low energy demand towards net zero 2050, January 20<sup>th</sup>, 2023, Japanese Society of Energy and Resources (JSER) Conference, Tokyo, Japan.
6. Hayashi, A., **Jupestia, J.** Akimoto, K. (2022) The global biochar carbon sequestration from crops residue: Towards Net Zero 2050, December 16<sup>th</sup>, 2022, Grand Renewable Energy Integration (GREI) International Conference (virtual). <https://www.grand-re2022.org/>
7. **Jupestia J.**, Akimoto, K, Nugroho, B.D. A., Novita N. (2022) Digital Transformation in Agriculture: Green Supply Chain, December 5<sup>th</sup>, 2022, Data for Policy international Conference Data for Policy (virtual).
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