

D J O N I H A R T O N O

Professor of Economics/Energy Economics
Department of Economics
Faculty of Economics and Business – Universitas Indonesia
Email: djoni.hartono@ui.ac.id / djoni.hartono@gmail.com

EDUCATION

January 2006

Ph.D. in Economics

Department of Economics - University of Indonesia

Ph.D. Dissertation Title:

**The Economy-wide Impact of Fuel Oil, Gas and Electricity Pricing
and Subsidy Policies as well as Their Consumption Improvement
Efficiency in Indonesia**

November 2002

M.Sc. in Economics

Department of Economics - University of Indonesia

Master Thesis Title:

The Economy-wide Impact of Energy Pricing Policy in Jakarta

April 1998

BA in Mathematics

Department of Mathematics, Bogor Agricultural University

Bachelor Thesis Title:

**The Existence of the Multiplier Matrix and the Pyatt and Round
Decomposition Matrix for a Social Accounting Matrix**

RESEARCH AND TEACHING INTERESTS

Energy Economics / Regional Economics / Development Economics

Input-Output / Social Accounting Matrix / Computable General Equilibrium

Mathematical Economics / Basic Econometrics / Cross-Section & Panel Data

PUBLICATIONS

Saputri, N. K., Setyonugroho, L. D., & Hartono, D. (2024). Exploring the determinants of energy poverty in Indonesia's households: empirical evidence from the 2015–2019 SUSENAS. *Humanities and Social Sciences Communications*, 11(1), 1-12.

Iryani, B. S., Yudhistira, M. H., Khoirunurrofik, K., & Hartono, D. (2024). Conformity or differentiation? The effect of competitive strategy on hotel performance. *Tourism Economics*, 30(2), 522-538.

Rizal, R. N., Hartono, D., Dartanto, T., & Gultom, Y. M. (2024). Multidimensional energy poverty: A study of its measurement, decomposition, and determinants in Indonesia. *Heliyon*, 10(3).

Yusuf, A. A., Roos, E. L., Horridge, J. M., & Hartono, D. (2023). Indonesian capital city relocation and regional economy's transition toward less carbon-intensive economy: An inter-regional CGE analysis. *Japan and the World Economy*, 101212

Hartono, D., Dachlan, A. N., Hastuti, S. H., Kartiasih, F., Saputri, N. K., Kurniawan, R., Surahman, U., Fadjar, G., & Shirakawa, H. (2023). The Impacts of Households on Carbon Dioxide Emissions in Indonesia. *Environmental Processes*, 10(4), 54.

Ardianti, D.M., Hartono, D. & Widyastaman, P.A. **Offline and hungry: the effect of internet use on the food insecurity of Indonesian agricultural households.** *Agric Econ* 11, 25 (2023). <https://doi.org/10.1186/s40100-023-00264-9>.

Hartono, D., Indriyani, W., Iryani, B. S., Komarulzaman, A., Nugroho, A., & Kurniawan, R. (2023). Carbon tax, energy policy, and sustainable development in Indonesia. *Sustainable Development*.

Azzahrah S., Hastuti S.H., and Hartono D. **Economic, Social, and Environmental Impact of Renewable Energy Investment: Empirical Study of Indonesia.** *International Energy Journal* 23 (June 2023) 55 – 70.

Akbar, Ryan & Hartono, Djoni & Aritenang, Adiwan. (2023). **The Effects of Homeownership on Social Capital.** *Journal of Regional and City Planning*. 34. 101-121. 10.5614/jpwk.2023.34.1.6.

Halimatussadijah, A., Kurniawan, R., Farah Mita, A., Amanda Siregar, A., Al Kautsar Anky, W., Farah Maulia, R. and Hartono, D., **“The impact of fiscal incentives on the feasibility of solar photovoltaic and wind electricity generation projects: the case of Indonesia”**, *Journal of Sustainable Development of Energy, Water and Environment Systems*, 11(1). 1100425. September 2023

Widyastaman, P. A., & Hartono, D. (2023). Geographic Distribution of Economic Inequality and Crime in Indonesia: Exploratory Spatial Data Analysis and Spatial Econometrics Approach. *Applied Spatial Analysis and Policy*, 1-25.

Hartono, D., Mori, A., & Nugroho, A. (2023). Effect of Carbon Tax on Emission Reduction and Renewable Energy Promotion in Indonesia: A Preliminary Analysis. In *The Climate–Energy–Land Nexus in Indonesia* (pp. 94–113). Routledge.

Azaliah, R., Kurniawan, H., Hartono, D., and Widyastaman, P. A. **The convergence of energy intensity in developing countries: a spatial econometric analysis with Indonesia's provincial panel data.** *Environ Dev Sustain* (2023). <https://doi.org/10.1007/s10668-023-03227-8>

Imansyah, M.H.; Hartono, D.; Putranti, T.; Muzdalifah, M. **The Impacts of Digital Economy on Green Economy: The Indonesian Miyazawa Model.** *Pol. J. Environ. Stud.* **2023**, *32*, 1609–1619

Rusmawati, E., Hartono, D., & Aritenang, A. F. (2023). **Food Security in Indonesia: the Role of Social Capital.** *Development Studies Research*, 10(1), 2169732.

Saraswati, A., Hartono, D. & Indriyani, W. **The impact of FDI on energy intensity: a spatial econometric analysis of Indonesian provinces.** *J Environ Stud Sci* **12**, 853–869 (2022). <https://doi.org/10.1007/s13412-022-00775-9>

Hartono, D., Irawan, T., Khoirunurrofik, K., Partama, R., Mujahid, N. W., & Setiadestriati, D. (2022). Determinant factors of urban housing preferences among low-income people in Greater Jakarta. *International Journal of Housing Markets and Analysis*, 15(5), 1072–1087.

I.F.U. Muzayanah, H.H. Lean, D. Hartono, K.D. Indraswari, R. Partama. **Population density and energy consumption: A study in Indonesian provinces.** *Heliyon*, 8 (2022), p. e10634

Indriyani, W., Yudhistira, M. H., Sastiono, P., & Hartono, D. (2022). The relationship between the built environment and respiratory health: Evidence from a longitudinal study in Indonesia. *SSM-Population Health*, 19, 101193.

A.D. Cahyani, N.D. Nachrowi, D. Hartono, D. Widyawati, **Between insufficiency and efficiency: unraveling households' electricity usage characteristics of urban and rural Indonesia,** *Energy Sustain. Dev.* 69 (2022) 103–117. Aug. <https://doi.org/10.1016/j.esd.2022.06.005>. Aug

Zaekhan, [Nachrowi, N.D.](#), [Hartono, D.](#) and [Soetjipto, W.](#) (2022), "What drives energy consumption in Indonesia's manufacturing industry? An analysis of firm-level characteristics", *International Journal of Energy Sector Management*, Vol. 16 No. 5, pp. 965–984. <https://doi.org/10.1108/IJESM-05-2021-0015>

C.N. Utami, D. Hartono, **A multidimensional energy poverty in Indonesia and its impact on health,** *Int. Energy J.* 22 (2) (2022) 147–156.

- Tiku, O., Shimizu, T., & Hartono, D. (2022). **Tourism's income distribution in west papua province.** *Annals of Tourism Research Empirical Insights*, 3(1) doi:10.1016/j.annale.2022.100038
- Surahman, U., Hartono, D., Setyowati, E., & Jurizat, A. (2022). **Investigation on household energy consumption of urban residential buildings in major cities of indonesia during COVID-19 pandemic.** *Energy and Buildings*, 261. doi:10.1016/j.enbuild.2022.111956
- Irfani Fithria Ummul Muzayanah, Suahasil Nazara, Benedictus Raksaka Mahi & Djoni Hartono (2022) **Social capital vs. anonymity? 3Ds Urban form and social capital development in Indonesian cities**, *International Journal of Urban Sustainable Development*, 14:1, 108-125, DOI: [10.1080/19463138.2022.2074016](https://doi.org/10.1080/19463138.2022.2074016)
- Zaekhan, Nachrowi Djalal Nachrowi, Djoni Hartono & Tita Rosita. (2021). **What drivers the decoupling of CO₂ emissions in the Indonesian manufacturing industry? An analysis of firm level factors**, *International Journal of Sustainable Energy*. DOI: [10.1080/14786451.2021.1945602](https://doi.org/10.1080/14786451.2021.1945602)
- Widyastaman, P. A. & Hartono, D. (2021). **Economic Inequality Decomposition and Spatial Pattern of Crime in Indonesia**, *Papers in Applied Geography*, DOI: 10.1080/23754931.2021.1991842
- Hartono, D., Yusuf, A. A., Hastuti, S. H., Saputri, N. K., & Syaifudin, N. (2021). **Effect of COVID-19 on energy consumption and carbon dioxide emissions in Indonesia.** *Sustainable Production and Consumption*, 28, 391-404. doi:10.1016/j.spc.2021.06.003
- Resosudarmo, B. P., Abdurrohman, Yusuf, A. A., & Hartono, D. (2021). **Spatial impacts of fiscal stimulus policies during the 2009 global financial crisis in Indonesia.** *Asia-Pacific Journal of Regional Science*, 5(1), 305-326. doi:10.1007/s41685-020-00176-2
- Hastuti, S. H., Hartono, D., Putranti, T. M., & Imansyah, M. H. (2021). **The drivers of energy-related CO₂ emission changes in indonesia: Structural decomposition analysis.** *Environmental Science and Pollution Research*, 28(8), 9965-9978. doi:10.1007/s11356-020-11414-7
- Muzayanah, I. F. U., Nazara, S., Mahi, B. R., & Hartono, D. (2020). **Is there social capital in cities? The association of urban form and social capital formation in the metropolitan cities of Indonesia.** *International Journal of Urban Sciences*, DOI: 10.1080/12265934.2020.1730934.

Hartono, D., Hastuti, S. H., Balya, A. A., & Pramono, W. (2020). **Modern Energy Consumption in Indonesia: Assessment for Accessibility and Affordability.** *Energy for Sustainable Development*, 57: 57-68.

Cahyani, A. D., Nachrowi, N. D., Hartono, D., & Widyawati, D. (2020). **Modern Residential Energy Inequalities in Indonesia: Spatial and Income Analyses.** *Energy Sources Part B: Economics, Planning, and Policy*, 15:6, 329-350. DOI: 10.1080/15567249.2020.1803450

Hutagalung, A.M., Hartono D., Arentsen, M.J., & Lovett, J.C. (2020). **The Economic Implications of Natural Gas Pricing Adjustment in Indonesia.** *International Energy Journal*, 20(2), 129 – 140.

Hartono, D., Hastuti, S. H., Halimatussadiah, A., Saraswati, A., Mita, A. F., & Indriani, V. (2020). **Comparing the Impacts of Fossil and Renewable Energy Investments in Indonesia: A Simple General Equilibrium Analysis.** *Heliyon*, 6(6), <https://doi.org/10.1016/j.heliyon.2020.e04120>, 6(6), e04120.

Hartono, D.; Komarulzaman, A.; Irawan, T.; & Nugroho, A. (2020). **Phasing out Energy Subsidies to Improve Energy Mix: A Dead End.** *Energies* 13(9), 2281. <https://doi.org/10.3390/en13092281>

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Nurmalia, N., Hartono, D. & Muzayanah, I.F.U. (2020). **The Roles of Entrepreneurship on Regional Economic Growth in Indonesia,** *Journal of The Knowledge Economy*. <https://doi.org/10.1007/s13132-018-0557-6>.

Sobri, A. R., Hartono, D., & Lestari, N. I. (2020). **Energy efficiency, rebound effect and environmental tax reform in Indonesia.** *International Journal of Energy Technology and Policy*, 16(2), 136-159. <https://doi.org/10.1504/IJETP.2020.105506>

Hutagalung, A.M., Hartono D., Arentsen, M.J., & Lovett, J.C. (2019). **Economic implications of domestic natural gas allocation in Indonesia,** *International Journal of Energy Sector Management*, 13(2), 424 – 449. <https://doi.org/10.1108/IJESM-05-2018-0003>.

Misdawita, Hartono, D., & Nugroho, A. (2019). **Impacts of Food Prices on The Economy: Social Accounting Matrix and Microsimulation Approach in Indonesia.** *Review of Urban and Regional Development Studies*, 31(1–2), 137–154. <https://doi.org/10.1111/rurd.12099>

Widya A. H. B., Hartono, D., Indraswari, K. D., & Setyonugroho, L. D. (2019). **Population Concentration and Productivity in The Metropolitan Area: Evidence from Indonesia.** *International Journal of Economics and Management*, 13(2), 453-466.

Indra, I., Nazara, S., Hartono, D., & Sumarto, S. (2019). **Roles of Income Polarization, Income Inequality and Ethnic Fractionalization in Social Conflicts: An Empirical Study of Indonesian Provinces, 2002-2012**, *Asian Economic Journal*, Vol. 33 Issue: 2, pp.453-466, <https://doi.org/10.1111/asej.12179>

Watekhi, W., Nachrowi, N., Hartono, D., & Damayanti, A. (2018). **Effect of Trade Liberalisation on Wage Inequality in Indonesia.** *Malaysian Journal Of Economic Studies*, 55(2), 209-229. doi:10.22452/MJES.vol55no2.4

Indra, I., Nazara, S., Hartono, D., & Sumarto, S. (2018). **Expenditure inequality and polarization in Indonesia, 2002-2012**, *International Journal of Social Economics*, Vol. 45 Issue: 10, pp.1469-1486, <https://doi.org/10.1108/IJSE-02-2017-0051>.

Hutagalung, A. M., Hartono D., Arentsen M. J., & Lovett J. C. (2017). **The economic implications of natural gas infrastructure investment.** *Energy Sources, Part B: Economics, Planning, and Policy*, 12:12, 1080-1087.
DOI: <http://dx.doi.org/10.1080/15567249.2017.1366600>

Hartono, D., Purwanto, W. W., Nurkholis, & Rum, I. A. (2017). **Impact analysis of natural gas policy in Indonesia.** *Energy Sources, Part B: Economics, Planning, and Policy*, 12(8): 699-706.
DOI: <http://dx.doi.org/10.1080/15567249.2017.1289280>

Pratama, Y. W., Purwanto, W. W., Tezuka, T., McLellan, B. C., Hartono, D., Hidayatno, A., & Duad, Y. (2017). **Multi-objective Optimization of a Multiregional Electricity System in an Archipelagic State: The Role of Renewable Energy in Energy System Sustainability.** *Renewable and Sustainable Energy Reviews*, 77, 423-439.
DOI: <http://dx.doi.org/10.1016/j.rser.2017.04.021>

Heryadi, M. D., & Hartono, D. (2016). **Energy Efficiency, Utilization of Renewable Energies, and Carbon Dioxide Emission: Case Study of G20 Countries.** *International Energy Journal*, 16(4), 143-152.

Purwanto, W. W., Muharam, Y., Pratama, Y. W., Hartono, D., Soedirman, H., & Anindhito, R. (2016). **Status and Outlook of Natural Gas Industry Development in Indonesia.** *Journal of Natural Gas Science and Engineering*, 29, 55-65.
DOI: <http://dx.doi.org/10.1016/j.jngse.2015.12.053>

Endriana, L., Hartono, D., & Irawan, T. (2016). **Green Economy Priority Sectors in Indonesia: A SAM Approach**. *Environmental Economics and Policy Studies*, 18(1), 115-135.

DOI: 10.1007/s10018-015-0114-5

Purwanto, W. W., Pratama, Y. W., Nugroho, Y. S., Warjito, Hertono, G. F., Hartono, D., Deendarlianto, & Tezuka, T. (2015). **Multi-objective Optimization Model for Sustainable Indonesian Electricity System: Analysis of Economic, Environment, and Adequacy of Energy Sources**. *Renewable Energy*, 81, 308-318.

DOI: <http://dx.doi.org/10.1016/j.renene.2015.03.046>.

Hartono, D., Irawan, T. & Achsani, N. A. (2011). **An Analysis on the Energy Intensity in Indonesian Manufacturing**. *International Research Journal of Finance and Economics*, 62, 77-84.

Hartono, D., & Irawan, T. (2011). **Decentralization Policy and Equality: A Theil Analysis of Indonesian Income Inequality**. *European Journal of Economics, Finance and Administrative Science*, 29, 41-51.

Hartono, D., & Resosudarmo, B. P. (2008). **The Economy-Wide Impact of Controlling Energy Consumption in Indonesia: An Analysis Using A Social Accounting Matrix Framework**. *Energy Policy*, 36(4), 1404-1419.

DOI: <http://dx.doi.org/10.1016/j.enpol.2007.12.011>

Hartono, D., Priyarsono, D. S., Nguyen, T. D., & Ezaki, M. (2007). **Regional Economic Integration and Its Impacts on Growth, Poverty, and Income Distribution: The Case of Indonesia**. *Review of Urban & Regional Development Studies*, 19(2), 138-153.

DOI: 10.1111/j.1467-940X.2007.00131.x

PROFESSIONAL EMPLOYMENT

President

The Indonesian Regional Science Association
(July 2023 – now)

The Head of Faculty Academy

Faculty of Economics and Business - University of Indonesia
(February 2022 – now)

The Head of Research Cluster of Energy Modeling and Regional Economic Analysis
Department of Economics, Faculty of Economics and Business - University of Indonesia

(January 2021 - now)

The Head of Editors Board, Jurnal Ekonomi dan Pembangunan Indonesia
Department of Economics, Faculty of Economics and Business - University of Indonesia
(January 2012 - now)

Vice President
The Indonesian Regional Science Association
(August 2017 – 2023)

Member of Regional Research Council
DKI Jakarta Province
(2018 - 2022)

Member of The Academic Senate
Faculty of Economics and Business – Universitas Indonesia
(July 2017 – June 2021)

Secretary General – The Indonesian Regional Science Association
(July 2014 – 2017)

Director – Directorate of Innovation and Business Incubator – University of Indonesia
(January 2015 – January 2017)

Deputy Coordinator for Industry Policy Program (June 2008 – January 2012)
Graduate Program in Economics, Faculty of Economics – University of Indonesia

Research Manager (June - August 2009)
Faculty of Economics – University of Indonesia

Deputy Coordinator for Trade Policy Program (June 2006 – December 2008)
Graduate Program in Economics, Faculty of Economics – University of Indonesia

Lecturer (April 2001 – now)
Department of Economics, Faculty of Economics – University of Indonesia

Teaching Assistant (January 2002 – January 2006)
Graduate Program in Economics, Faculty of Economics – University of Indonesia

Research Assistant (November 2000 - January 2001)
Inter University Center – Economics – University of Indonesia

Research Assistant (August 1998 – November 2000)
Technology Policy Assessment Division – Agency for the Assessment and Application of Technology, Indonesia

Research Assistant (August 1997 – June 1998)

Systems Analysis Division – Agency for the Assessment and Application of
Technology, Indonesia

SERVICE TO THE WIDER COMMUNITY

Journal Editorial Roles

Editor in Chief

Jurnal Ekonomi dan Pembangunan Indonesia, 2012 – now

Guest Editors

International Journal of Economics and Management, **2018**

Reviewer

International

Energy Policy

International Journal of Urban Sciences

Journal of Indonesian Applied Economics

Journal of Southeast Asian Economies

Bulletin of Indonesian Economic Studies

International Journal of Energy Sector Management

Mitigation and Adaptation Strategies for Global Change

National

Kajian Ekonomi dan Keuangan

Jurnal Ekonomi Kuantitatif Terapan

Jurnal Ekonomi Pembangunan: Kajian Masalah Ekonomi dan Pembangunan

Journal of Economics and Finance in Indonesia.

Buletin Ilmiah Litbang Perdagangan

Jurnal Mitra: Pemberdayaan Masyarakat

ECOPLAN: Journal of Economics and Development Studies

Buletin Ekonomi, Moneter dan Perbankan

Signifikan: Jurnal Ilmu Ekonomi

Editor of Books

Books

IRSA Book Series on Regional Development No. 13: “**Regional Development in Indonesia: Some Notes for the Jokowi Government**”. 2015.

IRSA Book Series on Regional Development No. 14: **“Tourism & Sustainable Regional Development in Indonesia”**. 2016.

IRSA Book Series on Regional Development No. 16: **“Maritime Infrastructure and Regional Development in Indonesia”**. 2018.

IRSA Book Series on Regional Development No. 18: **“Disaster and Regional Development in Indonesia”**. 2022.

Ph.D. Thesis Examiner

Faculty of Economics, National University of Malaysia

Ph.D. Thesis Title: *Analysis of Fuel Efficiency and Emissions Control in The Land Transportation Sector in Malaysia Using a Computable General Equilibrium Approach*.

Graduate Research School, The University of Western Australia

Ph.D. Thesis Title: *External Shocks and Macroeconomics Policy in Indonesia*

Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University

Ph.D. Thesis Title: *Analysis of tourism contribution on regional economy and income distribution using Input-Output Table and Regional Social Accounting Matrix – Case of West Papua Province, Indonesia*

Department of Economics, The Australian National University

Ph.D. Thesis Title: *How Investment and Trade Shape the Economic Transformation of Indonesia*

Institute of Environmental Sciences, Leiden University

Ph.D. Thesis Title: *Measuring sustainability: An Elaboration and Application of the System of Environmental-Economic Accounting for Indonesia*

MEMBERSHIP of ACADEMIC SOCIETY

- Regional Science Association International (RSAI) – Membership Number: RSAI01846
- East Asian Economic Association (EAEA) – Membership Number: EAEA1273
- Indonesian Regional Science Association (IRSA)
- International Association for Energy Economics (IAEE) – Membership Number: IAEE15590

- International Input-Output Association (IIOA) - Membership Number: IIOA 10709
- Regional Studies Association (RSA) – Membership Number: RSA17338

I hereby acknowledge that the information contained in this document accurately represents my current situation.

Depok, March 06, 2023

A handwritten signature in black ink, appearing to read 'Djoni Hartono', with a stylized flourish at the end.

Djoni Hartono