

Curriculum Vitae



DR.EDI ISWANTO WILOSO Founder ILCAN

(Indonesian Life Cycle Assessment Network_ www.ilcan.or.id)

A. Identitas Data Umum

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| 1 | Nama Lengkap (dengan gelar) | Dr.Edi Iswanto Wiloso |
| 2 | Keahlian / Expertise | Life cycle assessment, Carbon Footprint, Product Sustainability, Bioenergy, Biomass Rresidues |
| 3 | Trainer dan Narasumber di Bidang | 1. Life Cycle Assessment (LCA) (Teori) 2. Life Cycle Assessment (LCA) (Goal and Scope, Inventory Data, Pendampingan Perhitungan dan Pembuatan Pelaporan LCA PROPER) 3. Product Sustainability |
| 4 | ID.SCOPUS : | 55274147100 (https://www.scopus.com/authid/detail.uri?authorId=55274147100) |
| 5 | H-index | 6 |
| 6 | Jumlah Paper ter-index scopus | 19 article (Journal Q1, Q2, Q3 dan Q4) serta proceeding international terindeks scopus |
| 7 | Total citation in scopus | 181 |
| 8 | Scholar Google Citation | https://scholar.google.co.id/citations?user=y39umpcAAAJ&hl=id&oi=sra |
| 9 | Total citation in google scholar | 339 |
| 10 | Jumlah publikasi pada google scholar | 35 publikasi |
| 11 | ResearchGate | https://www.researchgate.net/profile/Edi_Wiloso |
| 12 | RG Score | 21.29 |
| 13 | Jumlah publikasi pada | 27 publikasi |

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B. Riwayat Pendidikan

| | S-1 | S-2 | S-3 |
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| Nama Perguruan Tinggi | Institut Pertanian Bogor | University of Waterloo, Canada | Leiden University, The Netherlands |
| Bidang Ilmu | Teknik Pertanian | (Bio) Chemical Engineering | Environmental Science |

C. Pengalaman Profesional

| No. | Posisi | Lama bekerja | Instansi |
|-----|---|-----------------|--|
| 1 | Peneliti senior | 1986 - Sekarang | Pusat Penelitian Kebijakan dan Manajemen Ilmu Pengetahuan, Teknologi dan Inovasi (PPKMI- LIPI) |
| 2 | Pendiri dan Pembina | 2015 – Sekarang | Indonesian Life Cycle Assessment Network (ILCAN) |
| 3 | Pimpinan Redaksi | 2016 – Sekarang | Indonesian Journal of Life Cycle Assessment and Sustainability (IJoLCAS) |
| 4 | Anggota | | Komite Teknis Manajemen Lingkungan Kementerian Lingkungan Hidup dan Kehutanan |
| 5 | Anggota Konseptor Rancangan SNI-ISO LCA | | Badan Standarisasi Nasional |
| 6 | Anggota Tim Ahli pada FGD Penerapan LCA menjadi kriteria PROPER | | Kementerian Lingkungan Hidup dan Kehutanan |

D. Publikasi Artikel Ilmiah

| No. | Judul | Penulis | Nama Jurnal | Tahun |
|-----|---|---|-----------------------------------|-------|
| 1 | Carbon Footprint of Semi-Mechanical Sago Starch Production | Mega Ayu Yusuf, Muhammad Romli, Suprihatin, Edi Iswanto Wiloso | Journal of Ecological Engineering | 2019 |
| 2 | A study on ecolabeling and Life Cycle Assessment for food products in Indonesia: Potential application to improve the | Arief Ameir Rahman Setiawan, Anny Sulaswatty, Muthi Syafika Haq, Tri | IOP Conference Series Earth and | 2019 |

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| | competitiveness of the tea industry | Hendro Atmoko Utomo, Ahmad Randy, Osi Arutanti, Egi Agustian, Edi Iswanto Wiloso , Haryono | Environmental Science | |
| 3 | Potential of Traditional Sago Starch: Life Cycle Assessment (LCA) Perspective | Mega Ayu Yusuf, Muhammad Romli, Suprihatin, Edi Iswanto Wiloso | IOP Conference Series Materials Science and Engineering | 2019 |
| 4 | Hotspot identification in the Indonesian tempeh supply chain using life cycle assessment | Edi Iswanto Wiloso , Pelle Sinke, Muryanto, Arief Ameir Rahman Setiawan, Ajeng Arum Sari, Joko Waluyo, Ary Mauliva Hada Putri, Jeroen Guinee | The International Journal of Life Cycle Assessment | 2019 |
| 5 | The renewability indicator and cumulative degree of perfection for gamboeng tea; part. 2, exergy calculation of tea factory | Teuku Beuna Bardant, Muthia Syafika Haq, Arief Ameir Rahman Setiawan, Sugeng Harianto, Joko Waluyo, Adhi Irianto Mastur, Annisa Dieni Lestari, Anny Sulaswatty, Sujarwo, Nino Rinaldi, Edi Iswanto Wiloso | Jurnal Kimia Terapan Indonesia | 2019 |
| 6 | Pemanfaatan serbuk gergaji sebagai substitusi bahan bakar pada proses pembakaran – kiln di pabrik semen dengan pendekatan life cycle assessment (LCA) | Ahmad Zaky Nugraha, Edi Iswanto Wiloso , Mohammad Yani | Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan | 2018 |
| 7 | An Environmental Impact Analysis of Semi-Mechanical Extraction Process of Sago Starch: Life Cycle Assessment (LCA) Perspective | Mega Ayu Yusuf, Muhammad Romli, Suprihatin, Edi Iswanto Wiloso | IOP Conference Series Earth and Environmental Science | 2018 |
| 8 | Life cycle assessment research and application in Indonesia | Edi Iswanto Wiloso , Ajeng Arum Sari, Arief Ameir | The International Journal of | 2018 |

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| | | Rahman Setiawan, Muryanto, Novizar Nazir, Jessica Hanafi, Kiman Siregar, Soni Sisbudi Harsono, Mohammad Romli, Nuki Agya Utama, Bayuni Shantiko, Joni Jupesta, Tri Hendro Atmoko Utomo | Life Cycle Assessment | |
| 9 | Life cycle inventory of green tea production: case of gambung | Joko Waluyo, Muthia Syafika Haq, Ajeng Arum Sari, Ary Maulida Hada Putri, Muryanto, Adhi Irianto Mastur, Teuku Beuna Bardant, Sugeng Harianto, Arief Amier Rahman Setiawan, Anny Sulaswatty, Edi Iswanto Wiloso | E3S Web of Conferences 74 | 2018 |
| 10 | The renewability indicator and cumulative degree of perfection for gamboeng tea; part. 1, exergy calculation of fresh tea leaf | Teuku Beuna Bardant, Muthia Syafika Haq, Arief Amier Rahman Setiawan, Sugeng Harianto, Joko Waluyo, Adhi Irianto Mastur, A D Lestari, Sujarwo, Anny Sulaswatty, Edi Iswanto Wiloso | E3S Web of Conferences 74 | 2018 |
| 11 | The footprint's fingerprint: On the classification of the footprint family | Kai Fang, Siyang Song, Reinout Heijungs, Sanne de Groot, Liang Dong, Junnian Song, Edi Iswanto Wiloso | Current Opinion in Environmental Sustainability | 2017 |
| 12 | Effect of biogenic carbon inventory on the life cycle assessment of bioenergy: challenges to the neutrality assumption | Edi Iswanto Wiloso , Reinout Heijungs, Gjal Huppel, Kai Fang | Journal of Cleaner Production | 2016 |
| 13 | A Study On New Product Development Of Food In R&D Institution Using Quality | Arief Ameir Rahman Setiawan, A D Lestari, Edi Iswanto | Creativity and Innovation | 2017 |

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| | Function Deployment (QFD) By Considering Life Cycle Perspective | Wiloso , Anny Sulaswatty, Y Meliana, A Haryono | Journal | |
| 14 | Design and Optimization Framework of Sustainable Supply Chain for Lignocellulosic Bioethanol: A Potential Implementation in Indonesia | Arief Amier Rahman Setiawan, Teuku Beuna Bardant, Edi Iswanto Wiloso , Ary Maulida Hada Putri, Yanni Sudiyani | Proceedings of International Workshop on Bioenergy from Biomass (IWBB) | 2017 |
| 15 | A Study on Ex-Ante Life Cycle Assessment to Support Product Development: Case of Citronella Oil Pilot Plant at the Research Center for Chemistry, Indonesian Institute of Sciences | Arief Ameir Rahman Setiawan, Anny Sulawatty, E Agustian, Edi Iswanto Wiloso | Proceedings of International Conference of Essential Oil | 2017 |
| 16 | Life Cycle Assessment Research in Indonesia and Indonesian Life Cycle Assessment Network (ILCAN) | Edi Iswanto Wiloso , Novizar Nazir, Kiman Siregar, Soni Harsono, S Sahirman, Udin Hasanudin, Jessica Hanafi, Ajeng Arum Sari, Arief Ameir Rahman Setiawan | Indonesian Sustainable of Life Cycle Assessment | 2015 |
| 17 | Methodological issues in comparative life cycle assessment: treatment options for empty fruit bunches in a palm oil system | Edi Iswanto Wiloso , Cecile Bessou, Reinout Heijungs | The International Journal of Life Cycle Assessment | 2014 |
| 18 | A novel life cycle impact assessment method on biomass residue harvesting reckoning with loss of biomass productivity | Edi Iswanto Wiloso , Reinout Heijungs, Gjal Huppés | Journal of Cleaner Production | 2014 |
| 19 | LCA methods to compare treatment options on biomass residues produced in a palm-oil system | Edi Iswanto Wiloso , Cecile Bessou, Reinout Heijungs, Geert R de Snoo | | 2014 |
| 20 | LCA of second generation bioethanol: A review and some issues to be resolved for good LCA practice | Edi Iswanto Wiloso , Reinout Heijungs, Geert R de Snoo | Renewable and Sustainable Energy Reviews | 2012 |

| No | Judul Buku | Penulis | Tahun | Penerbit |
|----|--|---|-------|-----------------|
| 1 | Sustainable Bioenergy Production, Chapter: Life Cycle Assessment of Bioenergy Systems | Reinout Heijungs Edi Iswanto Wiloso | 2014 | CRC Press |
| 2 | Life cycle assessment of renewable energy sources, chapter 2: Key Issues in Conducting Life Cycle Assessment of Bio-Based Renewable Energy Sources | Edi Iswanto Wiloso Reinout Heijungs | 2013 | Springer-Verlag |

F. Pengalaman di Bidang LCA

| No | Pengalaman | Durasi | Tahun |
|----|--|---------|-------|
| 1 | Trainer pada ILCAN Webinar Training Series on Life Cycle Assessment, 11 – 14 Agustus | 1 hari | 2020 |
| 2 | Trainer pada ILCAN Webinar Training Series on Life Cycle Assessment, 9 – 12 Juni | 1 hari | 2020 |
| 3 | Trainer pada In-House Training LCA untuk PT PLN (Persero) UPDL Bogor, 9 – 12 Maret | 2 hari | 2020 |
| 4 | Trainer pada In-House Training LCA untuk PT PLN (Persero) Pembangkitan Sumatera Bagian Selatan, 2 – 5 Maret | 1 hari | 2020 |
| 5 | Trainer pada Training LCA PROPER Reguler PT Dakara Consulting LCA Indonesia, 10 – 13 Desember | 1 hari | 2019 |
| 6 | Trainer pada Training LCA Introduction Reguler PT Dakara Consulting LCA Indonesia, 08 - 09 November | 1 hari | 2019 |
| 7 | Trainer pada Training LCA Introduction Kementerian Lingkungan Hidup dan Kehutanan 21 – 22 Oktober | 1 hari | 2019 |
| 8 | Trainer pada Training LCA PROPER Reguler PT Dakara Consulting LCA Indonesia, 15 – 18 Oktober | 1 hari | 2019 |
| 9 | Trainer pada In House Training LCA PROPER untuk PT Petrochina International Jabung Ltd, 18-20 September | 1 hari | 2019 |
| 10 | Trainer pada Training LCA PROPER Reguler PT Dakara Consulting LCA Indonesia, 17 – 20 September | 1 hari | 2019 |
| 11 | Anggota tim Penyusunan Dokumen LCA untuk PT Bio Farma (Persero) | 2 Bulan | 2019 |
| 12 | Tim Expert LCA pada Workshop Pendampingan Perhitungan dan Penyusunan Dokumen LCA untuk PT Bio Farma (Persero), 10 – 12 September | 1 hari | 2019 |
| 13 | Anggota tim Penyusunan Dokumen LCA untuk PT Indonesia Power unit bisnis PLTG Bali Pamaran | 2 Bulan | 2019 |
| 14 | Anggota tim Penyusunan Dokumen LCA untuk PT Indonesia Power unit bisnis PLTDG Bali Pesanggaran | 2 Bulan | 2019 |
| 15 | Ketua Tim Penyusun Dokumen LCA untuk PT Indonesia Power unit bisnis PLTP Lontar | 2 Bulan | 2019 |

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| 16 | Ketua Tim Penyusun Dokumen LCA untuk PT Indonesia Power unit bisnis PLTU Labuan | 2 Bulan | 2019 |
| 17 | Ketua Tim Penyusun Dokumen LCA untuk PT Indonesia Power unit bisnis PLTU Suralaya 8 | 2 Bulan | 2019 |
| 18 | Tim Expert LCA pada Workshop Pendampingan Perhitungan dan Penyusunan Dokumen LCA untuk PT Indonesia Power Batch III, 3 – 5 September | 1 hari | 2019 |
| 19 | Tim Expert LCA pada Workshop Pendampingan Perhitungan dan Penyusunan Dokumen LCA untuk PT Indonesia Power Batch II, 27 – 29 Agustus | 1 hari | 2019 |
| 20 | Tim Expert LCA pada Workshop Pendampingan Perhitungan dan Penyusunan Dokumen LCA untuk PT Indonesia Power Batch I, 20 – 22 Agustus | 1 hari | 2019 |
| 21 | Trainer pada Training LCA PROPER Reguler PT Dakara Consulting LCA Indonesia, 20 – 23 Agustus | 1 hari | 2019 |
| 22 | Trainer pada In House Training LCA PROPER untuk PT Bukit Asam, 12 – 15 Agustus | 1 hari | 2019 |
| 23 | Trainer pada In House Training LCA PROPER untuk PT Timah, 5 – 8 Agustus | 1 hari | 2019 |
| 24 | Trainer pada In House Training LCA PROPER untuk Asosiasi Pertambangan Batubara Indonesia (APBI) 29 Juli – 1 Agustus | 1 hari | 2019 |
| 25 | Trainer pada In House Training LCA PROPER untuk PT Tunas Inti Abadi, 25 – 28 Juli | 1 hari | 2019 |
| 26 | Trainer pada Training LCA PROPER Reguler PT Dakara Consulting LCA Indonesia, 23 – 26 Juli | 1 hari | 2019 |
| 27 | Trainer pada In House Training LCA PROPER untuk PT Pertamina, 8 – 11 Juli | 1 hari | 2019 |
| 28 | Trainer pada In House Training LCA PROPER untuk LSP Inkalindo, 27 – 30 Juni | 1 hari | 2019 |
| 29 | Trainer pada Training LCA PROPER Reguler PT Dakara Consulting LCA Indonesia, 25 – 28 Juni | 1 hari | 2019 |
| 30 | Trainer pada In House Training LCA PROPER untuk PT Indonesia Power, 20 – 25 Mei | 1 hari | 2019 |
| 31 | Trainer pada In House Training LCA PROPER untuk PT Adaro Energy, 30 April – 3 Mei | 1 hari | 2019 |
| 32 | Trainer pada Training LCA PROPER Reguler PT Dakara Consulting LCA Indonesia, 26 – 29 Maret | 1 hari | 2019 |
| 33 | Trainer pada In House Training LCA PROPER untuk PT Antam Tbk, 22 -25 Februari | 1 hari | 2019 |

Serpong, 15 Oktober 2020

Dr. Edi Iswanto Wiloso