

REFERENCES

- Abdallah, M., El-Rayes, K., & Clevenger, C. (2015). Minimizing Energy Consumption and Carbon Emissions of Aging Buildings. *Procedia Engineering*, 118, 886-893. doi:10.1016/j.proeng.2015.08.527
- Abdeshahia, P., Dashti, M., Kalil, M., & Yusoff, W. (2010). Production of Biofuel using Biomass as a Sustainable Biological Resource. *Biotechnology (Faisalabad)*, 9(3), 274-282. doi: 10.3923/biotech.2010.274.282
- Adaramola, M. (2014). Viability of grid-connected solar PV energy system in Jos, Nigeria. *International Journal of Electrical Power & Energy Systems*, 61, 64-69. doi: 10.1016/j.ijepes.2014.03.015
- Adaramola, M. (2015). Techno-economic analysis of a 2.1 kW rooftop photovoltaic-grid-tied system based on actual performance. *Energy Conversion and Management*, 101, 85-93. doi: 10.1016/j.enconman.2015.05.038
- Adaramola, M., Paul, S., & Oyedepo, S. (2011). Assessment of electricity generation and energy cost of wind energy conversion systems in north-central Nigeria. *Energy Conversion and Management*, 52(12), 3363-3368. doi: 10.1016/j.enconman.2011.07.007
- Ahmadi, M. H., Ghazvini, M., Sadeghzadeh, M., Alhuyi Nazari, M., Kumar, R., Naeimi, A., & Ming, T. (2018). Solar power technology for electricity generation: A critical review. *Energy Science & Engineering*, 6(5), 340–361. <https://doi.org/10.1002/ese3.239>
- Alam Hossain Mondal, M., & Sadrul Islam, A. (2011). Potential and viability of grid-connected solar PV system in Bangladesh. *Renewable Energy*, 36(6), 1869-1874. doi: 10.1016/j.renene.2010.11.033

- Aliprandi, F., Stoppato, A., & Mirandola, A. (2016). Estimating CO₂ emissions reduction from renewable energy use in Italy. *Renewable Energy*, 96, 220-232. doi:10.1016/j.renene.2016.04.022
- Allard, F., & Anderson, E. (2005). Ethnography. *Encyclopedia of Social Measurement*, 833-843. doi: 10.1016/b0-12-369398-5/00028-1
- Allouhi, A., Saadani, R., Kousksou, T., Saidur, R., Jamil, A., & Rahmoune, M. (2016). Grid-connected PV systems installed on institutional buildings: Technology comparison, energy analysis and economic performance. *Energy and Buildings*, 130, 188–201. <https://doi.org/10.1016/j.enbuild.2016.08.054>
- Almaktar, M., Abdul Rahman, H., & Hassan, M. (2016). Economic Analysis Using Net Present Value and Payback Period: Case Study of a 9kWp Grid-Connected PV System at UTM, Johor Bahru Campus. *Applied Mechanics and Materials*, 818, 119-123. doi: 10.4028/www.scientific.net/amm.818.119
- Almaktar, M., Abdul Rahman, H., Hassan, M. Y., & Wan Omar, W. Z. (2013). Photovoltaic technology in Malaysia: past, present, and future plan. *International Journal of Sustainable Energy*, 34(2), 128–140. <https://doi.org/10.1080/14786451.2013.852198>
- Almaktar, Mohamed. (2013). Economic and Environmental Analysis of a Grid-connected Solar Photovoltaic System in Malaysia. *Indian Journal of Advanced in Electrical Engineering*. 1. 11-32.
- Alrikabi, N. K. (2014). Renewable Energy Types. *Journal of Clean Energy Technologies*, 61-64. doi:10.7763/jocet.2014.v2.92

- Alsema, E. (2012). Energy Payback Time and CO2 Emissions of PV Systems. In *Practical Handbook of Photovoltaics*. <https://doi.org/10.1016/B978-0-12-385934-1.00037-4>
- Amaratunga, D., Baldry, D., Sarshar, M., & Newton, R. (2002). Quantitative and qualitative research in the built environment: application of “mixed” research approach. *Work Study*, 51(1), 17-31. doi: 10.1108/00438020210415488
- Aqeeq, M. A., Hyder, S. I., Shehzad, F., & Tahir, M. A. (2018). On the competitiveness of grid-tied residential photovoltaic generation systems in Pakistan: Panacea or paradox? *Energy Policy*, 119(April 2018), 704–722. <https://doi.org/10.1016/j.enpol.2018.04.071>
- Bachev, I., Demirkov, B., Stoyanov, L., Lazarov, V., Zarkov, Z., Notton, G., & Damian, A. (2018). Generalized Approach For Feasibility Study Of Hybrid Systems With Renewable Energy Sources. *Ecological Engineering and Environment Protection*, 64-73. doi: 10.32006/eeep.2018.2.6473
- Bahaj, A. (2002). Means of enhancing and promoting the use of solar energy. *Renewable Energy*, 27(1), 97–105. [https://doi.org/10.1016/s0960-1481\(01\)00162-8](https://doi.org/10.1016/s0960-1481(01)00162-8)
- Bahari, S. (2010). Qualitative Versus Quantitative Research Strategies: Contrasting Epistemological and Ontological Assumptions. *Jurnal Teknologi*, 52(1). doi: 10.11113/jt.v52.134
- Bahramara, S., Moghaddam, M., & Haghifam, M. (2016). Optimal planning of hybrid renewable energy systems using HOMER: A review. *Renewable and Sustainable Energy Reviews*, 62, 609-620. doi: 10.1016/j.rser.2016.05.039

- Banerjee, R., Cong, Y., Gielen, D., Jannuzzi, G., Maréchal, F., Ouis, M., McKane, A., Worrell, E. (2012). Energy End-Use: Industry (pp. 513–574). Retrieved from https://www.iiasa.ac.at/web/home/research/Flagship-Projects/Global-Energy-Assessment/GEA_Chapter8_industry_lowres.pdf
- Bayod-Rújula, A. (2019). Solar photovoltaics (PV). *Solar Hydrogen Production*, 237-295. doi: 10.1016/b978-0-12-814853-2.00008-4
- Bernal-Agustín, J. L., & Dufo-López, R. (2006). Economical and environmental analysis of grid connected photovoltaic systems in Spain. *Renewable Energy*, 31(8), 1107–1128. <https://doi.org/10.1016/j.renene.2005.06.004>
- Bhatia, S. (2014). Solar photovoltaic systems. *Advanced Renewable Energy Systems*, 144-157. doi: 10.1016/b978-1-78242-269-3.50005-x
- Bilgen, S. (2014). Structure and environmental impact of global energy consumption. *Renewable and Sustainable Energy Reviews*, 38, 890–902. <https://doi.org/10.1016/j.rser.2014.07.004>
- Bimenyimana, S., Asemota, G. N. O., & Ihirwe, P. J. (2018). Optimization Comparison of Stand-Alone and Grid-Tied Solar PV Systems in Rwanda. *OALib*, 05(05), 1–18. <https://doi.org/10.4236/oalib.1104603>
- Bist, R. (2015). Research Procedure: An Introduction. *Journal of Nelta Surkhet*, 4, 34-40. doi: 10.3126/jns.v4i0.12858
- Biyik, E., Araz, M., Hepbasli, A., Shahrestani, M., Yao, R., & Shao, L. et al. (2017). A key review of building integrated photovoltaic (BIPV) systems. *Engineering Science and Technology, an International Journal*, 20(3), 833-858. doi: 10.1016/j.jestch.2017.01.009

- Black, A. J. (2004). Financial payback on California residential solar electric systems. *Solar Energy*, 77(4), 381-388. doi:10.1016/j.solener.2004.02.003
- Boontome, P., Therdyothin, A., & Chontanawat, J. (2017). Investigating the causal relationship between non-renewable and renewable energy consumption, CO₂ emissions and economic growth in Thailand 1 1This is a preliminary work. *Energy Procedia*, 138. doi:10.1016/j.egypro.2017.10.141
- Bowen, G. A. (2009). Document analysis as a qualitative research method. *Qualitative Research Journal*, 9(2), 27–40
- BP Statistical Review of World Energy. (2019). BP Statistical Review of World Energy. Retrieved from <https://www.bp.com/content/dam/bp/business-sites/en/global/corporate/pdfs/energy-economics/statistical-review/bp-stats-review-2019-full-report.pdf>
- Branker, K., Pathak, M. J. M., & Pearce, J. M. (2011). A review of solar photovoltaic levelized cost of electricity. *Renewable and Sustainable Energy Reviews*, 15(9), 4470–4482. <https://doi.org/10.1016/j.rser.2011.07.104>
- Brigham, E. F., & Ehrhardt, M. C. (2005). In *Financial Management* (11th, International Student ed., p. 347). South-Western Cengage Learning
- Brink, H. (1993). Validity and reliability in qualitative research. *Curationis*, 16(2). doi: 10.4102/curationis.v16i2.1396
- Bryman, A. (2012). *Social Research Methods* (4th ed.). New York: Oxford University Press.

- Burns, J. E., & Kang, J. (2012). Comparative economic analysis of supporting policies for residential solar PV in the United States: Solar Renewable Energy Credit (SREC) potential. *Energy Policy*, 44, 217-225. doi:10.1016/j.enpol.2012.01.045
- Campoccia, A., Dusonchet, L., Telaretti, E., & Zizzo, G. (2007). Feed-in Tariffs for Grid-connected PV Systems: The Situation in the European Community. 2007 IEEE Lausanne Power Tech. doi:10.1109/pct.2007.4538621
- Chaar, L. (2007). Solar Power Conversion. *Power Electronics Handbook*, 661-672. doi: 10.1016/b978-012088479-7/50044-4
- Chandel, M., Agrawal, G. D., Mathur, S., & Mathur, A. (2014). Techno-economic analysis of solar photovoltaic power plant for garment zone of Jaipur city. *Case Studies in Thermal Engineering*, 2, 1–7.
- Chaurey, A., & Kandpal, T. C. (2010). Assessment and evaluation of PV based decentralized rural electrification: An overview. *Renewable and Sustainable Energy Reviews*, 14(8), 2266–2278. <https://doi.org/10.1016/j.rser.2010.04.005>
- Chel, A., & Kaushik, G. (2018). Renewable energy technologies for sustainable development of energy efficient building. *Alexandria Engineering Journal*, 57(2), 655–669. <https://doi.org/10.1016/j.aej.2017.02.0>
- Chew, J., & Doshi, V. (2011). Recent advances in biomass pretreatment – Torrefaction fundamentals and technology. *Renewable and Sustainable Energy Reviews*, 15(8), 4212-4222. doi: 10.1016/j.rser.2011.09.017

- Chien, T., & Hu, J. (2007). Renewable energy and macroeconomic efficiency of OECD and non-OECD economies. *Energy Policy*, 35(7), 3606-3615. doi:10.1016/j.enpol.2006.12.033
- Chow, J. (2003). Energy Resources and Global Development. *Science*, 302(5650), 1528–1531. <https://doi.org/10.1126/science.1091939>
- Claudio, L. (2007). Waste Couture: Environmental Impact of the Clothing Industry. *Environmental Health Perspectives*, 115(9). doi: 10.1289/ehp.115-a449
- Conca, J. (2015). Making Climate Change Fashionable - The Garment Industry Takes On Global Warming. Retrieved 30 May 2020, from <https://www.forbes.com/sites/jamesconca/2015/12/03/making-climate-change-fashionable-the-garment-industry-takes-on-global-warming/#265a346a79e4>
- Creswell, J. (2009). *Research Design Qualitative, Quantitative and Mixed Methods Approach* (3rd ed.). London: SAGE Publication.
- Cucchiella, F., D’Adamo, I., & Gastaldi, M. (2016). Photovoltaic energy systems with battery storage for residential areas: an economic analysis. *Journal of Cleaner Production*, 131, 460–474. <https://doi.org/10.1016/j.jclepro.2016.04.157>
- Cucchiella, F., D’Adamo, I., & Gastaldi, M. (2017). Economic Analysis of a Photovoltaic System: A Resource for Residential Households. *Energies*, 10(6), 814. doi: 10.3390/en10060814

- Cuce, E., & Riffat, S. (2015). A comprehensive assessment of sectoral energy consumption in the UK: past, present and future. *International Journal of Low-Carbon Technologies*, 11(3), 424-430. doi: 10.1093/ijlct/ctv013
- Darghouth, R., Barbose, G., & Wiser, R. (2011). The impact of rate design and net metering on the bill savings from distributed PV for residential customers in California. 39, 5243–5253. <https://doi.org/10.1016/j.enpol.2011.05.040>
- De Sabata, A., Margineanu, D., Jovanovic, D., Luminosu, I., Ilie, S., & Krstic, D. (2014). Economics of a small-scale, grid-connected PV system in Western Romania: An LCoE analysis. 2014 11th International Symposium on Electronics and Telecommunications (ISETC). <https://doi.org/10.1109/isetc.2014.7010734>
- Desai, H. P., & Patel, H. K. (2007). Maximum power point algorithm in PV generation: An overview. *Proceedings of the International Conference on Power Electronics and Drive Systems*, 624–630. <https://doi.org/10.1109/PEDS.2007.4487766>
- Dheerasinghe, R. (2009). Garment Industry in Sri Lanka Challenges, Prospects and Strategies. *Staff Studies*, 33(1), 33. doi: 10.4038/ss.v33i1.1246
- Díez-Mediavilla, M., Dieste-Velasco, M. I., Rodríguez-Amigo, M. C., García-Calderón, T., & Alonso-Tristán, C. (2013). Performance of grid-tied PV facilities: A case study based on real data. *Energy Conversion and Management*, 76, 893–898. <https://doi.org/10.1016/j.enconman.2013.08.035>
- Domholdt, E. (2000). *Physical therapy research*. Philadelphia, Pa.: Saunders.

- Dorussen, H., Lenz, H., & Blavoukos, S. (2005). Assessing the reliability and validity of expert interviews. *European Union Politics*, 6(3), 315-337
- Dunne, C. (2011). The place of the literature review in grounded theory research. *International Journal of Social Research Methodology*, 14(2), 111-124. doi: 10.1080/13645579.2010.494930
- Ehara, T., Komoto, K., & van der Vleuten, P. (2012). Very large-scale photovoltaic systems. In *Comprehensive Renewable Energy* (Vol. 1). <https://doi.org/10.1016/B978-0-08-087872-0.00149-9>
- El Chaar, L., lamont, L., & El Zein, N. (2011). Review of photovoltaic technologies. *Renewable and Sustainable Energy Reviews*, 15(5), 2165-2175. doi: 10.1016/j.rser.2011.01.004
- Embuldeniya, A. (2015). Impact of Apparel Industry on the Economy of Sri Lanka Article (PDF Available) · July 2018 with 4,883 Reads. *Journal of Social Statistics*.
- European Renewable Energy Council. (2011). Mapping Renewable Energy Pathways towards 2020. Retrieved from http://www.eufores.org/fileadmin/eufores/Projects/REPAP_2020/EREC-roadmap-V4.pdf
- Evans, A., Strezov, V., & Evans, T. (2009). Assessment of sustainability indicators for renewable energy technologies. *Renewable and Sustainable Energy Reviews*, 13(5), 1082-1088. doi: 10.1016/j.rser.2008.03.008

- Fara, L., & Craciunescu, D. (2017). Output Analysis of Stand-alone PV Systems: Modeling, Simulation and Control. *Energy Procedia*, 112, 595-605. doi: 10.1016/j.egypro.2017.03.1125
- Fellows, R., & Liu, A. (2008). *Research Method for construction* (3rd ed.). West Susses: Blackwell publishing Ltd.
- Fragaki, A., & Markvart, T. (2008). Stand-alone PV system design: Results using a new sizing approach. *Renewable Energy*, 33(1), 162–167. <https://doi.org/10.1016/j.renene.2007.01.016>
- Fthenakis, V. M. (2018). Life Cycle Analysis of Photovoltaics: Strategic Technology Assessment. *A Comprehensive Guide to Solar Energy Systems*, 427–442. <https://doi.org/10.1016/b978-0-12-811479-7.00022-1>
- Fthenakis, V., & Kim, H. (2005). Energy Use and Greenhouse Gas Emissions in the Life Cycle of CdTe Photovoltaics. *MRS Proceedings*, 895. doi: 10.1557/proc-0895-g03-06
- Fthenakis, V., Mason, J. E., & Zweibel, K. (2009). The technical, geographical, and economic feasibility for solar energy to supply the energy needs of the US. *Energy Policy*, 37(2), 387–399. <https://doi.org/10.1016/j.enpol.2008.08.011>
- Gable, G. (1994). Integrating case study and survey research methods: an example in information systems. *European Journal of Information Systems*, 3(2), 112-126. doi: 10.1057/ejis.1994.12

- Ghenai, C., & Bettayeb, M. (2019). Grid-Tied Solar PV/Fuel Cell Hybrid Power System for University Building. *Energy Procedia*, 159, 96-103. doi: 10.1016/j.egypro.2018.12.025
- Ghosh, S. (2002). Electricity consumption and economic growth in India. *Energy Policy*, 30(2), 125–129. [https://doi.org/10.1016/s0301-4215\(01\)00078-7](https://doi.org/10.1016/s0301-4215(01)00078-7)
- Global Energy & CO2 Status Report. (2019). Retrieved 9 October 2019, from <https://www.iea.org/geco/data/>
- Glogowska, M. (2010). Paradigms, pragmatism and possibilities: mixed-methods research in speech and language therapy. *International Journal of Language & Communication Disorders*, 100921013844018. doi: 10.3109/13682822.2010.507614
- Goetzberger, A., & Hebling, C. (2000). Photovoltaic materials, past, present, future. *Solar Energy Materials and Solar Cells*, 62(1-2), 1-19. doi: 10.1016/s0927-0248(99)00131-2
- Grover, S. (2007). Energy, Economic, and Environmental Benefits of the Solar America Initiative. doi:10.2172/914650
- Guedes Junior, M., & Guedes, M. (2017). Analysis of Economic Viability In The Implantation Of Residential Photovoltaic And Photothermic System. *International Journal of Innovative Research In Engineering & Management*, 743-748. doi: 10.21276/ijirem.2017.4.5.2

- Gunerhan, H., Hepbasli, A., & Giresunlu, U. (2008). Environmental Impacts from the Solar Energy Systems. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 31(2), 131–138. <https://doi.org/10.1080/15567030701512733>
- Guo, Z., Zhou, K., Zhang, C., Lu, X., Chen, W., & Yang, S. (2018). Residential electricity consumption behavior: Influencing factors, related theories and intervention strategies. *Renewable and Sustainable Energy Reviews*, 81, 399–412. doi:10.1016/j.rser.2017.07.046
- Gupta, S. (1989). Scope for solar energy utilization in the Indian textile industry. *Solar Energy*, 42(4), 311–318. [https://doi.org/10.1016/0038-092x\(89\)90033-9](https://doi.org/10.1016/0038-092x(89)90033-9)
- Hancock B., Windridge K., and Ockleford E. (2007). *An Introduction to Qualitative Research. The NIHR RDS EM / YH*
- Harder, E., & Gibson, J. M. (2011). The costs and benefits of large-scale solar photovoltaic power production in Abu Dhabi, United Arab Emirates. *Renewable Energy*, 36(2), 789–796. <https://doi.org/10.1016/j.renene.2010.08.006>
- He, J., Deng, J., & Su, M. (2010). CO₂ emission from China's energy sector and strategy for its control. *Energy*, 35(11), 4494–4498. doi: 10.1016/j.energy.2009.04.009
- Henemann, A. (2008). BIPV: Built-in solar energy. *Renewable Energy Focus*, 9(6), 14–19. doi: 10.1016/s1471-0846(08)70179-3
- Hossain, M. F. (2019). Infrastructure and Transportation. *Sustainable Design and Build*, 231–300. <https://doi.org/10.1016/b978-0-12-816722-9.00005-7>

- Husain, A., Hasan, W., Shafie, S., Hamidon, M., & Pandey, S. (2018). A review of transparent solar photovoltaic technologies. *Renewable and Sustainable Energy Reviews*, 94, 779-791. doi: 10.1016/j.rser.2018.06.031
- Hussain, A., Arif, S. M., & Aslam, M. (2017). Emerging renewable and sustainable energy technologies: State of the art. *Renewable and Sustainable Energy Reviews*, 71. doi:10.1016/j.rser.2016.12.033
- Jarke, J., & Perino, G. (2017). Do renewable energy policies reduce carbon emissions? On caps and inter-industry leakage. *Journal of Environmental Economics and Management*, 84, 102–124. <https://doi.org/10.1016/j.jeem.2017.01.004>
- Jayatilake, H., & Withanaarachchi, A. (2016). Industry 4.0 in the Apparel-Manufacturing Sector: Opportunities For Sri Lanka. In 1st Interdisciplinary Conference of Management Researchers. Sabaragamuwa University of Sri Lanka. Retrieved from https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2881329
- Jayawardena, J., Kumara, U., & Sriyalatha, M. (2019). Solar Roof Top Generation, Marginal Cost, Financial Impacts on the Utility of Sri Lanka. *Journal of Sustainable Development*, 12(4), 128. doi: 10.5539/jsd.v12n4p128
- Jestin, Y. (2012). Down-Shifting of the Incident Light for Photovoltaic Applications. *Comprehensive Renewable Energy*, 563-585. doi: 10.1016/b978-0-08-087872-0.00131-1
- Jonassen, D. (2008). *Handbook of research on educational communications and technology*. New York: Lawrence Erlbaum.

- Jordan, P. G. (2014). Global Markets. *Solar Energy Markets*, 127–133. <https://doi.org/10.1016/b978-0-12-397174-6.00008-8>
- Jung, J., & Tyner, W. (2014). Economic and policy analysis for solar PV systems in Indiana. *Energy Policy*, 74, 123-133. doi: 10.1016/j.enpol.2014.08.027
- Jung, S., An, K.-J., Dodbiba, G., & Fujita, T. (2012). Regional energy-related carbon emission characteristics and potential mitigation in eco-industrial parks in South Korea: Logarithmic mean Divisia index analysis based on the Kaya identity. *Energy*, 46(1),231–241<https://doi.org/10.1016/j.energy.2012.08.028>
- Kalogirou, S. (2009). Photovoltaic Systems. *Solar Energy Engineering*, 469-519. doi: 10.1016/b978-0-12-374501-9.00009-1
- Karakaya, E., & Sriwannawit, P. (2015). Barriers to the adoption of photovoltaic systems: The state of the art. *Renewable and Sustainable Energy Reviews*, 49, 60-66. doi: 10.1016/j.rser.2015.04.058
- Karki, P., Adhikary, B., & Sherpa, K. (2012). Comparative study of grid-tied photovoltaic (PV) system in Kathmandu and Berlin using PVsyst. 2012 IEEE Third International Conference on Sustainable Energy Technologies (ICSET). <https://doi.org/10.1109/icset.2012.6357397>
- Kartite, J., & Cherkaoui, M. (2019). Study of the different structures of hybrid systems in renewable energies: A review. *Energy Procedia*, 157, 323-330. doi: 10.1016/j.egypro.2018.11.197
- Kebede, K. Y. (2015). Viability study of grid-connected solar PV system in Ethiopia. *Sustainable Energy Technologies and Assessments*, 10, 63–70. <https://doi.org/10.1016/j.seta.2015.02.003>

- Khare, V., Nema, S., & Baredar, P. (2016). Solar–wind hybrid renewable energy system: A review. *Renewable and Sustainable Energy Reviews*, 58, 23-33. doi: 10.1016/j.rser.2015.12.223
- khude, P. (2017). A Review on Energy Management in Textile Industry. *Innovative Energy & Research*, 06(02). <https://doi.org/10.4172/2576-1463.1000169>
- Kindon, S., Pain, R., & Kesby, M. (2009). Participatory Action Research. *International Encyclopedia of Human Geography*, 90-95. doi: 10.1016/b978-008044910-4.00490-9
- Knapp, K., & Jester, T. (2001). Empirical investigation of the energy payback time for photovoltaic modules. *Solar Energy*, 71(3), 165–172. [https://doi.org/10.1016/S0038-092X\(01\)00033-0](https://doi.org/10.1016/S0038-092X(01)00033-0)
- Kothari, C. (2004). *Research Methodology Methods and Techniques* (2nd ed.). New Delhi: New Age International (P) Limited, Publishers.
- Kouro, S., Leon, J. I., Vinnikov, D., & Franquelo, L. G. (2015). Grid-Connected Photovoltaic Systems: An Overview of Recent Research and Emerging PV Converter Technology. *IEEE Industrial Electronics Magazine*, 9(1), 47–61. <https://doi.org/10.1109/mie.2014.2376976>
- Kumar, R. (2008). *Research methodology a step by step guide for beginners* (3rd ed.). Retrieved from http://www.sociology.kpi.ua/wp-content/uploads/2014/06/Ranjit_Kumar-Research_Methodology_A_Step-by-Step_G.pdf

- Lisserre, M., Sauter, T., & Hung, J. (2010). Future Energy Systems: Integrating Renewable Energy Sources into the Smart Power Grid through Industrial Electronics. *IEEE Industrial Electronics Magazine*, 4(1), 18-37. doi: 10.1109/mie.2010.935861
- Lo, K., Mah, D., Wang, G., Leung, M., Lo, A., & Hills, P. (2018). Barriers to adopting solar photovoltaic systems in Hong Kong. *Energy & Environment*, 29(5), 649-663. doi: 10.1177/0958305x18757402
- Locment, F., Sechilariu, M., & Forgez, C. (2010). Electric vehicle charging system with PV Grid-connected configuration. 2010 IEEE Vehicle Power and Propulsion Conference. <https://doi.org/10.1109/vppc.2010.5729016>
- Lu, L., & Yang, H. X. (2010). Environmental payback time analysis of a roof-mounted building-integrated photovoltaic (BIPV) system in Hong Kong. *Applied Energy*, 87(12), 3625–3631. <https://doi.org/10.1016/j.apenergy.2010.06.011>
- Lugoda, u. (2019). Brandix sets sustainability benchmark for global apparel industry - The Morning - Sri Lanka News. Retrieved 1 June 2020, from <http://www.themorning.lk/brandix-sets-sustainability-benchmark-for-global-apparel-industry/>
- Madeti, S. R., & Singh, S. (2017). Online modular level fault detection algorithm for grid-tied and off-grid PV systems. *Solar Energy*, 157, 349-364. doi:10.1016/j.solener.2017.08.047
- Mahela, O., & Shaik, A. (2017). Comprehensive overview of grid interfaced solar photovoltaic systems. *Renewable and Sustainable Energy Reviews*, 68, 316-332. doi: 10.1016/j.rser.2016.09.096

Maricar, N., Lee, E., Lim, H., Sepikit, M., Maskum, M., Ahmad, M., & Mahmood, M. (2003) Photovoltaic solar energy technology overview for Malaysia scenario. Proceedings. National Power Engineering Conference, 2003. Pecon 2003.. doi: 10.1109/pecon.2003.1437462

Martínez, D. M., Ebenhack, B. W., & Wagner, T. P. (2019). Industrial sector energy efficiency. *Energy Efficiency*, 161–196. <https://doi.org/10.1016/b978-0-12-812111-5.00006-8>

MAS Holdings mount solar panels across their manufacturing plants in Sri Lanka | MAS Holdings. (2020). Retrieved 1 June 2020, from <http://newslines.mas Holdings.com/mas-holdings-mount-solar-panels-across-their-manufacturing-plants-in-sri-lanka/>

Matthews, H. S., Hendrickson, C. T., & Weber, C. L. (2008). The Importance of Carbon Footprint Estimation Boundaries. *Environmental Science & Technology*, 42(16), 5839-5842. doi:10.1021/es703112w

McCabe, A., Pojani, D., & Van Groenou, A. B. (2018). The application of renewable energy to social housing: A systematic review. *Energy Policy*, 114, 549-557. doi:10.1016/j.enpol.2017.12.031

Mills, A. J., Durepos, G., & Wiebe, E. (2011). *Encyclopedia of case study research*. Los Angeles [Calif.: SAGE Publications.

Ministry of Power and Energy. (2016). Soorya Bala Sangramaya. Retrieved from <http://www.energy.gov.lk/Solar/index.php>

- Mishra, S., & Alok, S. (2017). *Handbook of Research Methodology*. New Delhi :- Educreation Publishing.
- Mitscher, M., & Rüter, R. (2012). Economic performance and policies for grid-connected residential solar photovoltaic systems in Brazil. *Energy Policy*, 49, 688–694. <https://doi.org/10.1016/j.enpol.2012.07.009>
- Mohammad Bagher, A. (2015). Types of Solar Cells and Application. *American Journal of Optics and Photonics*, 3(5), 94. doi: 10.11648/j.ajop.20150305.17
- Mohan, M. (2018). Perovskite Photovoltaics. *Perovskite Photovoltaics*, 447–480. <https://doi.org/10.1016/b978-0-12-812915-9.00014-9>
- Munasinghe, M., Jayasinghe, P., Ralapanawe, V., & Gajanayake, A. (2016). Supply/value chain analysis of carbon and energy footprint of garment manufacturing in Sri Lanka. *Sustainable Production and Consumption*, 5, 51-64. doi: 10.1016/j.spc.2015.12.001
- Muthukumarana, T. T., Karunathilake, H. P., Punchihewa, H. K. G., Manthilake, M. M. I. D., & Hewage, K. N. (2018). Life cycle environmental impacts of the apparel industry in Sri Lanka: Analysis of the energy sources. *Journal of Cleaner Production*, 172, 1346–1357. <https://doi.org/10.1016/j.jclepro.2017.10.261>
- Nau, D. S. (1995). Mixing Methodologies: Can Bimodal Research be a Viable Post-Positivist Tool?. *The Qualitative Report*, 2(3), 1-6. Retrieved from <https://nsuworks.nova.edu/tqr/vol2/iss3/3>

- NurAlam, M., Karim, R., & Rafiqul Islam, M. (2015). 11th Global Engineering. In Science and Technology Conference. Dhaka, Bangladesh: BIAM Foundation. A Comparative Study on Installation of Solar PV system at Garment Rooftop
- Nwaigwe, K., Mutabilwa, P., & Dintwa, E. (2019). An overview of solar power (PV systems) integration into electricity grids. *Materials Science for Energy Technologies*, 2(3), 629-633. doi: 10.1016/j.mset.2019.07.002
- Oliver, M., & Jackson, T. (2001). Energy and economic evaluation of building-integrated photovoltaics. *Energy*, 26(4), 431–439. [https://doi.org/10.1016/s0360-5442\(01\)00009-3](https://doi.org/10.1016/s0360-5442(01)00009-3)
- Orioli, A., & Di Gangi, A. (2013). Load mismatch of grid-connected photovoltaic systems: Review of the effects and analysis in an urban context. *Renewable and Sustainable Energy Reviews*, 21, 13-28. doi: 10.1016/j.rser.2012.12.035
- Ozturk, H. K. (2005). Energy usage and cost in textile industry: A case study for Turkey. *Energy*, 30(13), 2424–2446. <https://doi.org/10.1016/j.energy.2004.11.014>
- Pagliaro, M., Ciriminna, R., & Palmisano, G. (2010). BIPV: merging the photovoltaic with the construction industry. *Progress in Photovoltaics: Research And Applications*, 18(1), 61-72. doi: 10.1002/pip.920
- Parida, B., Iniyar, S., & Goic, R. (2011). A review of solar photovoltaic technologies. *Renewable and Sustainable Energy Reviews*, 15(3), 1625-1636. doi: 10.1016/j.rser.2010.11.032

- Patade, V. Y., Meher, L. C., Grover, A., Gupta, S. M., & Nasim, M. (2018). Omics Approaches in Biofuel Technologies. *Omics Technologies and Bio-Engineering*, 2, 337–351. <https://doi.org/10.1016/b978-0-12-815870-8.00018-8>
- Pathirana, S., & Yarime, M. (2018). Introducing energy efficient technologies in small- and medium-sized enterprises in the apparel industry: A case study of Sri Lanka. *Journal of Cleaner Production*, 178, 247–257. <https://doi.org/10.1016/j.jclepro.2017.12.274>
- Patrick Gregory, J., Michael Tan, C., Eugene A., E., Carl Michael F., O., & Joey Duran, O. (2019). Cost Saving Potential of Grid-tied Solar Photovoltaic-based Hybrid Energy System in the Philippine Industrial Sector. *Chemical Engineering Transactions*, 76, 937-942. doi: <https://doi.org/10.3303/CET1976157>
- Peng, J., Lu, L., & Yang, H. (2013). Review on life cycle assessment of energy payback and greenhouse gas emission of solar photovoltaic systems. *Renewable and Sustainable Energy Reviews*, 19, 255–274. <https://doi.org/10.1016/j.rser.2012.11.035>
- Pérez-Lombard, L., Ortiz, J., & Pout, C. (2008). A review on buildings energy consumption information. *Energy and Buildings*, 40(3), 394-398. doi:10.1016/j.enbuild.2007.03.007
- Phipps, W., & Sivadas, D. (2017). Economic Evaluation of a Grid-Connected PV System at Otago Polytechnic. In *Second International Conference on Electrical, Computer and Communication Technologies (ICECCT)* (pp. pp. 1-6). Coimbatore.

- Pillai, G. G., Putrus, G. A., Georgitsioti, T., & Pearsall, N. M. (2014). Near-term economic benefits from grid-connected residential PV (photovoltaic) systems. *Energy*, 68, 832–843. <https://doi.org/10.1016/j.energy.2014.02.085>
- Plante, R. (2014). Solar Photovoltaic Systems. *Solar Energy, Photovoltaics, And Domestic Hot Water...*, 75-92. doi: 10.1016/b978-0-12-420155-2.00005-0
- Polo, A. L., & Haas, R. (2012). An international overview of promotion policies for grid-connected photovoltaic systems. *Progress in Photovoltaics: Research and Applications*, 22(2), 248–273. <https://doi.org/10.1002/pip.2236>
- Poponi, D. (2003). Analysis of diffusion paths for photovoltaic technology based on experience curves. *Solar Energy*, 74(4), 331-340. doi: 10.1016/s0038-092x(03)00151-8
- Poponi, D., Byrne, J., & Hegedus, S. (2006). Break-even Price Estimates for Residential PV Applications in DECD Countries with an Analysis of Prospective Cost Reductions. *Energy Studies Review*, 14(1). <https://doi.org/10.15173/esr.v14i1.486>
- Poullikkas, A. (2013). A comparative assessment of net metering and feed in tariff schemes for residential PV systems. *Sustainable Energy Technologies and Assessments*, 3, 1–8. <https://doi.org/10.1016/j.seta.2013.04.001>
- Prasad, D., & Snow, M. (2014). *Designing with Solar Power*. Hoboken: Taylor and Francis.
- Punch, K. F. (2005). *Introduction to Social Research—Quantitative & Qualitative Approaches*. London: Sage publications.

- Quansah, D., Adaramola, M., & Mensah, L. (2016). Solar Photovoltaics in Sub-Saharan Africa – Addressing Barriers, Unlocking Potential. *Energy Procedia*, 106, 97-110. doi: 10.1016/j.egypro.2016.12.108
- Rafiee, A., & Khalilpour, K. R. (2019). Renewable Hybridization of Oil and Gas Supply Chains. *Polygeneration with Polystorage for Chemical and Energy Hubs*, 331–372. <https://doi.org/10.1016/b978-0-12-813306-4.00011-2>
- Ramadhan, M., & Naseeb, A. (2011). The cost benefit analysis of implementing photovoltaic solar system in the state of Kuwait. *Renewable Energy*, 36(4), 1272–1276. <https://doi.org/10.1016/j.renene.2010.10.004>
- Ramanathan, R. (2005). An analysis of energy consumption and carbon dioxide emissions in countries of the Middle East and North Africa. *Energy*. doi:10.1016/j.energy.2005.01.010
- Renukappa, S., Akintoye, A., Egbu, C., & Goulding, J. (2013). Carbon emission reduction strategies in the UK industrial sectors: an empirical study. *International Journal of Climate Change Strategies and Management*, 5(3), 304–323. <https://doi.org/10.1108/ijccsm-02-2012-0010>
- Ross, C., Anthony, J., CA, M., & Harber, M. (2016). The Levelized Cost of Electricity for a Small Scale Solar PV System in South Africa. *International Journal of Managerial Studies And Research*, 4(10). doi: 10.20431/2349-0349.0410001
- Rubin, H., & Rubin, I. (2005). *Qualitative Interviewing: The Art of Hearing Data* (3rd ed.). Sage publications.

- Saboori, B., Sapri, M., & bin Baba, M. (2014). Economic growth, energy consumption and CO2 emissions in OECD (Organization for Economic Cooperation and Development)'s transport sector: A fully modified bi-directional relationship approach. *Energy*, 66, 150–161. <https://doi.org/10.1016/j.energy.2013.12.048>
- Sarasa-Maestro, C. J., Dufo-López, R., & Bernal-Agustín, J. L. (2013). Grid Parity Analysis of PV Markets. *Advanced Materials Research*, 827, 441–445. <https://doi.org/10.4028/www.scientific.net/amr.827.441>
- Sari, D., & Kusumaningrum, W. (2014). A Technical Review of Building Integrated Wind Turbine System and a Sample Simulation Model in Central Java, Indonesia. *Energy Procedia*, 47, 29-36. doi: 10.1016/j.egypro.2014.01.193
- Saunders, M., Lewis, P., & Thornhill, A. (2015). *Research Methods for Business Students* (7th ed.). Pearson Education Limited.
- Semaoui, S., Arab, A., Bacha, S., & Azoui, B. (2013). Optimal Sizing of a Stand-alone Photovoltaic System with Energy Management in Isolated Areas. *Energy Procedia*, 36, 358-368. doi: 10.1016/j.egypro.2013.07.041
- Shankarappa, N., Ahmed, M., Shashikiran, N., & Naganagouda, H. (2017). Solar Photovoltaic Systems – Applications & Configurations. *International Research Journal of Engineering and Technology (IRJET)*, 4(8), 1851–1855. Retrieved from <https://irjet.net/archives/V4/i8/IRJET-V4I8327.pdf>
- Sharma, S., & Galipeau, D. W. (2012). Optimization of residential grid-tied PV systems without net-metering using load management. 2012 IEEE Third International Conference on Sustainable Energy Technologies (ICSET). <https://doi.org/10.1109/icset.2012.6357367>

- Shukla, A., Sudhakar, K., Baredar, P., & Mamat, R. (2018). Solar PV and BIPV system: Barrier, challenges and policy recommendation in India. *Renewable and Sustainable Energy Reviews*, 82, 3314-3322. doi: 10.1016/j.rser.2017.10.013
- Simons, H. (2009). *Case study research in practice*. SAGE publications.
- Singh, G. (2013). Solar power generation by PV (photovoltaic) technology: A review. *Energy*, 53, 1-13. doi:10.1016/j.energy.2013.02.057
- Solar PV – Tracking Power – Analysis - IEA. (2019). Retrieved 31 December 2019, from <https://www.iea.org/reports/tracking-power-2019/solar-pv>
- Sri Lanka Export Development Board. (2016). Retrieved 30 May 2020, from <https://www.srilankabusiness.com/apparel/about/garments-without-guilt.html>
- Sri Lanka Sustainable Energy Authority, (2017), S. (2020). Sri Lanka Energy Balance. Retrieved 8 May 2020, from <http://www.energy.gov.lk/images/energy-balance/energy-balance-2017.pdf>
- Swift, K. D. (2013). A comparison of the cost and financial returns for solar photovoltaic systems installed by businesses in different locations across the United States. *Renewable Energy*, 57, 137–143. <https://doi.org/10.1016/j.renene.2013.01.011>
- Tariq, S., & Woodman, J. (2013). Using mixed methods in health research. *JRSM Short Reports*, 4(6), 204253331347919. doi: 10.1177/2042533313479197

- Tester, J., Reber, T., Beckers, K., Lukawski, M., Camp, E., & Aguirre, G. et al. (2015). Integrating Geothermal Energy Use into Re-building American Infrastructure. In World Geothermal Congress. Melbourne, Australia: Cornell Energy Institute, Cornell University.
- Timilsina, G. R., & Shrestha, A. (2009). Transport sector CO₂ emissions growth in Asia: Underlying factors and policy options. *Energy Policy*, 37(11), 4523–4539. <https://doi.org/10.1016/j.enpol.2009.06.009>
- Timilsina, G., Kurdgelashvili, L., & Narbel, P. (2012). Solar energy: Markets, economics and policies. *Renewable and Sustainable Energy Reviews*, 16(1), 449-465. doi: 10.1016/j.rser.2011.08.009
- Tomar, V., & Tiwari, G. N. (2017). Techno-economic evaluation of grid connected PV system for households with feed in tariff and time of day tariff regulation in New Delhi – A sustainable approach. *Renewable and Sustainable Energy Reviews*, 70, 822–835. <https://doi.org/10.1016/j.rser.2016.11.263>
- Tous, Y. E. (2012). Grid Connected PV System Case Study: Jiza, Jordan. *Modern Applied Science*, 6(6). <https://doi.org/10.5539/mas.v6n6p92>
- Tripathy, M., Sadhu, P. K., & Panda, S. K. (2016). A critical review on building integrated photovoltaic products and their applications. *Renewable and Sustainable Energy Reviews*, 61, 451–465. <https://doi.org/10.1016/j.rser.2016.04.008>
- Tsoutsos, T., Frantzeskaki, N., & Gekas, V. (2005). Environmental impacts from the solar energy technologies. *Energy Policy*, 33(3), 289–296. [https://doi.org/10.1016/s0301-4215\(03\)00241-6](https://doi.org/10.1016/s0301-4215(03)00241-6)

- U.S. Energy Information Administration. (2016). Use of energy for transportation - U.S. Energy Information Administration (EIA). Retrieved from Eia.gov website: <https://www.eia.gov/energyexplained/use-of-energy/transportation.php>
- Ventresca, M., & Mohr, J. (2017). Archival Research Methods. *The Blackwell Companion to Organizations*, 805-828. doi: 10.1002/9781405164061.ch35
- Wahyuni, D. (2012). *The research design maze: Understanding paradigms, cases, methods and methodologies*.
- Wang, C., Chen, W., Shao, S., Chen, Z., Zhu, B., & Li, H. (2011). Energy Management of Stand-Alone Hybrid PV System. *Energy Procedia*, 12, 471-479. doi: 10.1016/j.egypro.2011.10.063
- Wang, W., Zhang, M., & Li, P. (2014). Exploring temporal and spatial evolution of global energy production and consumption. *Renewable and Sustainable Energy Reviews*, 30, 943-949. <https://doi.org/10.1016/j.rser.2013.11.027>
- Wang, Y., Ren, B., & Zhong, Q. (2017). Bounded-voltage Power Flow Control for Grid-tied PV Systems. *IFAC-Papersonline*, 50(1), 7699-7704. doi: 10.1016/j.ifacol.2017.08.1145
- Webpage footer for REN21. (2019, October 9). REN21. Retrieved from REN21 website: <https://www.ren21.net/>
- Wei, S., & Temitope, E. (2014). Adoption of Solar Grid-Tied PV-System Adopted in a Residential Building. *Australasian Journal of Construction Economics and Building - Conference Series*, 2(2), 80. <https://doi.org/10.5130/ajcebc-s.v2i2.3894>

- Wijayasiri, J., & Dissanayake, J. (2009). The Ending of the Multi-Fibre Agreement and Innovation in the Sri Lankan Textile and Clothing Industry. *OECD Journal: General Papers*, 2008(4), 157–188. https://doi.org/10.1787/gen_papers-v2008-art27-en
- Wijesuriya, D., Wickramathilaka, K., Wijesinghe, L., Vithana, D., & Perera, H. (2017). Reduction of Solar PV Payback Period Using Optimally Placed Reflectors. *Energy Procedia*, 134, 480-489. doi: 10.1016/j.egypro.2017.09.606
- Williams, C. (2011). Research Methods. *Journal of Business & Economics Research (JBER)*, 5(3). doi: 10.19030/jber.v5i3.2532
- Wright, B. (2020). Hirdaramani signs off first phase of solar panel project. Retrieved 1 June 2020, from https://www.just-style.com/news/hirdaramani-signs-off-first-phase-of-solar-panel-project_id134305.aspx
- Yang, C.-J. (2010). Reconsidering solar grid parity. *Energy Policy*, 38(7), 3270–3273. <https://doi.org/10.1016/j.enpol.2010.03.013>
- Yin, R.K. (2009). *Case study research: design and methods* (4th edi). London: SAGE Publications.
- Yoon, J., Sun, Y., & Rogers, J. A. (2010). Flexible Solar Cells Made of Nanowires/Microwires. *Semiconductor Nanomaterials for Flexible Technologies*, 159–196. <https://doi.org/10.1016/b978-1-4377-7823-6.00006-4>

- Zahedi, A. (2006). Solar photovoltaic (PV) energy; latest developments in the building integrated and hybrid PV systems. *Renewable Energy*, 31(5), 711–718. <https://doi.org/10.1016/j.renene.2005.08.007>
- Zedeck, S. (2014). *APA dictionary of statistics and research methods*.
- Zeng, G., Cao, M., & Chen, Y. (2012). An Intelligent Adaptive Method for Islanding Detection in Grid-tied PV System. *Energy Procedia*, 17, 349-355. doi:10.1016/j.egypro.2012.02.105
- Zeraatpisheh, M., Arababadi, R., & Saffari Pour, M. (2018). Economic Analysis for Residential Solar PV Systems Based on Different Demand Charge Tariffs. *Energies*, 11(12), 3271. <https://doi.org/10.3390/en11123271>
- Zeren, F., & Akkuş, H. T. (2020). The relationship between renewable energy consumption and trade openness: New evidence from emerging economies. *Renewable Energy*, 147, 322–329. <https://doi.org/10.1016/j.renene.2019.09.006>
- Zhang, M., Li, H., Zhou, M., & Mu, H. (2011). Decomposition analysis of energy consumption in Chinese transportation sector. *Applied Energy*, 88(6), 2279–2285. <https://doi.org/10.1016/j.apenergy.2010.12.077>
- Zhang, S., & He, Y. (2013). Analysis on the development and policy of solar PV power in China. *Renewable and Sustainable Energy Reviews*, 21, 393-401. doi: 10.1016/j.rser.2013.01.002
- Zhang, X., Shen, L., & Chan, S. (2012). The diffusion of solar energy use in HK: What are the barriers? *Energy Policy*, 41, 241-249. doi: 10.1016/j.enpol.2011.10.043

Zhao, J., Wang, A., Green, M., & Ferrazza, F. (1998). 19.8% efficient “honeycomb” textured multicrystalline and 24.4% monocrystalline silicon solar cells. *Applied Physics Letters*, 73(14), 1991-1993. doi: 10.1063/1.122345