[8] N. A. Pambudi, "Geothermal power generation in Indonesia, a country within the ring of fire: Current status, future development and policy," *Renew. Sustain. Energy Rev.*, vol. 81, no. March, pp. 2893–2901, 2018, doi: 10.1016/j.rser.2017.06.096.

[9] A. D. Setiawan, M. P. Dewi, B. A. Jafino, and A. Hidayatno, "Evaluating feed-in tariff policies on enhancing geothermal development in Indonesia," *Energy Policy*, vol. 168, no. September 2021, p. 113164, 2022, doi: 10.1016/j.enpol.2022.113164.

[10] R. M. Shoedarto, Y. Tada, K. Kashiwaya, K. Koike, and I. Iskandar, "Advanced characterization of hydrothermal flows within recharge and discharge areas using rare earth elements, proved through a case study of two-phase reservoir geothermal field, in Southern Bandung, West Java, Indonesia," *Geothermics*, vol. 105, no. July, p. 102507, 2022, doi: 10.1016/j.geothermics.2022.102507.

[11] S. Darma, Y. L. Imani, M. N. A. Shidqi, T. D. Riyanto, and M. Y. Daud, "Country Update: The Fast Growth of Geothermal Energy Development in Indonesia," *Proceeding World Geotherm. Congr. 2020+1*, no. 12, pp. 1–9, 2021.

[12] B. Azmi, M. Stefanus, K. B. W. Putra, S. Sugiharto, and M. Abdi, "Measurement of scale thickness in geothermal pipeline using gamma transmission method: A preliminary study in Kamojang geothermal power plant," 2021. doi: 10.1063/5.0066496.

[13] T. Sharmin, N. R. Khan, M. S. Akram, and M. M. Ehsan, "A State-of-the-Art Review on Geothermal Energy Extraction, Utilization, and Improvement Strategies: Conventional, Hybridized, and Enhanced Geothermal Systems," *Int. J. Thermofluids*, vol. 18, no. May, p. 100323, 2023, doi: 10.1016/j.ijft.2023.100323.

[14] R. Adiprana, D. S. Purnomo, and I. E. Lubis, "Kamojang Geothermal Power Plant Unit 1-2-3 Evaluation and Optimization Based on Exergy Analysis," *Proc. World Geotherm. Congr. Melbourne, Aust. 19-25 April 2015*, no. April, 2015.

[15] B. T. H. Marbun, R. H. Ridwan, H. S. Nugraha, S. Z. Sinaga, and B. A. Purbantanu, "Review of directional drilling design and operation of geothermal wells in Indonesia," *Renew. Energy*, vol. 176, pp. 135–152, 2021, doi: 10.1016/j.renene.2021.05.078.

[16] F. S. Tut Haklıdır, "The importance of long-term well management in geothermal power systems using fuzzy control: A Western Anatolia (Turkey) case study," *Energy*, vol. 213, 2020, doi:10.1016/j.energy.2020.118817.

[17] S. Green, J. McLennan, P. Panja, K. Kitz, R. Allis, and J. Moore, "Geothermal battery energy storage," *Renew. Energy*, vol. 164, pp. 777–790, 2021, doi: 10.1016/j.renene.2020.09.083.

[18] I. Dincer and M. A. Rosen, *Energy, environment, and sustainable development*, 3rd ed. Elsevier Ltd., 2020. doi: 10.1016/b978-0-12-820775-8.00005-2.

[19] V. M. Ambriz-Díaz, C. Rubio-Maya, O. Chávez, E. Ruiz-Casanova, and E. Pastor-Martínez, "Thermodynamic performance and economic feasibility of Kalina, Goswami and Organic Rankine Cycles coupled to a polygeneration plant using geothermal energy of low-grade temperature," *Energy Convers. Manag.*, vol. 243, no. 1 September 2021, p. 114362, 2021, doi: 10.1016/j.enconman.2021.114362.

[20] B. Rudiyanto, M. Aries, N. Agung, W. Widjonarko, and M. Hijriawan, "An update of second law analysis and optimization of a single-flash geothermal power plant in Dieng, Indonesia," *Geothermics*, vol. 96, no. March, p. 102212, 2021, doi: 10.1016/j.geothermics.2021.102212.

[21] M. A. Ehyaei, A. Ahmadi, M. A. Rosen, and A. Davarpanah, "Thermodynamic optimization of a geothermal power plant with a genetic algorithm in two stages," *Processes*, vol. 8, no. 10, pp. 1–16, 2020, doi: 10.3390/pr8101277.

[22] H. Chen, Y. Wang, J. Li, G. Xu, J. Lei, and T. Liu, "Thermodynamic analysis and economic assessment of an improved geothermal power system integrated with a biomass-fired cogeneration plant," *Energy*, vol. 240, p. 122477, 2022, doi: 10.1016/j.energy.2021.122477.

[23] G. Çetin and A. Keçebaş, "Optimization of thermodynamic performance with simulated annealing algorithm: A geothermal power plant," *Renew. Energy*, vol. 172, pp. 968–982, 2021, doi:10.1016/j.renene.2021.03.101.

[24] B. Rudiyanto *et al.*, "Preliminary analysis of dry-steam geothermal power plant by employing exergy assessment: Case study in Kamojang geothermal power plant, Indonesia," *Case Stud. Therm. Eng.*, vol. 10, no. July, pp. 292–301, 2017, doi: 10.1016/j.csite.2017.07.006.

[25] N. D. Setyawan *et al.*, "Energy and exergy analysis of dry-steam geothermal power plant : Case study in kamojang geothermal power plant unit 2," in *AASEC 2018*, 2018, vol. 08018, pp. 1–5. doi:10.1051/matecconf/201819708018.

[26] D. S. Purnomo, T. Haryono, and Masitoh, "Derating prediction due to scaling at kamojang geothermal turbine using nozzle blocking ratio calculation," *Proceeding - 2nd Int. Conf. Technol. Policy Electr. Power Energy, ICT-PEP 2020*, vol. 3, pp. 142–146, 2020, doi:10.1109/ICT-PEP50916.2020.9249825.

[27] M. Hijriawan, N. A. Pambudi, D. S. Wijayanto, M. K. Biddinika, and B. L. H. Saw, "Experimental analysis of R134a working fluid on Organic Rankine Cycle (ORC) systems with scroll-expander," *Eng. Sci. Technol. an Int. J.*, vol. 29, no. May, p. 101036, 2022, doi:10.1016/j.jestch.2021.06.016.

[28] J. Xu, Z. Su, J. Meng, Y. Yao, M. S. Vafadaran, and A. Kiani Salavat, "A thermodynamic, exergoeconomic, and exergoenvironmental investigation and optimization on a novel geothermal trigeneration system to sustain a sport arena," *Process Saf. Environ. Prot.*, vol. 177, no. July, pp. 278–298, 2023, doi: 10.1016/j.psep.2023.07.017.

[29] C. N. Nsanzubuhoro, T. Bello-Ochende, and A. G. Malan, "Second law analysis of a fossil-geothermal hybrid power plant with thermodynamic optimization of geothermal preheater," *Heat Transf.*, vol. 49, no. 7, pp. 3997–4018, 2020, doi: 10.1002/htj.21692.

[30] C. Wang, Y. Ma, and W. Sui, "The Secondary Flows in a Cyclone Separator : A Review," *Processes*, vol. 11, no. 10, p. 2935, 2023, doi:10.3390/pr11102935.