

## DAFTAR PUSTAKA

- [1] KESDM, “Profil Potensi Panas Bumi,” Kementrian ESDM, Jakarta, 2012.
- [2] R. Royana, “Panduan Kelestarian Ekosistem untuk Pelestarian Panas Bumi,” Yayasan WWF Indonesia, Jakarta Selatan, 2013.
- [3] KESDM, “Rancangan Blueprint Pengembangan Energi Baru Terbarukan dan Konservasi Energi,” Kementrian ESDM, Jakarta, 2012.
- [4] A. A. Artanti, “MetroTVNews.com,” 2015. [Online]. Available: <http://ekonomi.metrotvnews.com/read/2015/07/05/143996/2019-pertamina-targetkan-kapasitas-pltp-907-megawatt>. [Diakses 2 Agustus 2015].
- [5] Suryantini, “Indonesia Geothermal Potential; Status in 2014 and Opportunities for Medium-Low Enthalpy Resources Development,” Geothermal Resources Council, Oregon USA, 2014.
- [6] DiPippo, “Geothermal Power Plant,” 2008.
- [7] S. P. A. P. A. B. E. K. Y. a. S. G. Darma, “The role of Pertamina Geothermal Energy (PGE) in completing geothermal power plants achieving 10,000 MW in Indonesia.,” dalam *Proceedings of the World Geothermal Congress 2010*, Bali, 2010.
- [8] H. Nazif, “Feasibility of developing binary power plants in the existing geothermal production areas in Indonesia. Geothermal Training Programme,” United Nation University, Reykjavík, Iceland, 2011.
- [9] R. Gabrielli, “A novel design approach for small scale low enthalpy binary geothermal power plants,” *Energy Convers Management*, vol. 64, pp. 263-272, 2012.
- [10] E. Kaya, S. J. Zarrouk dan M. J. O’Sullivan, “Reinjection in geothermal fields: A review of worldwide experience,” *Renewable and Sustainable Energy Reviews*, pp. 47-68, 2010.
- [11] S. A. S. T. S. E. K. G. E. K. Frick S, “Geothermal Binary Power Plant for

- Lahendong , Indonesia : A German-Indonesian Collaboration Project,” dalam *Proceedings World Geothermal Congress 2015*, Melbourne, 2015.
- [12] T. Prabowo, D. M. Yuniar, S. Suryanto dan M. Silaban, “Tracer Test Implementation and Analysis in Order to Evaluate Reinjection Effects in Lahendong Field,” dalam *Proceedings World Geothermal Congress 2015*, Melbourne, 2015.
- [13] A. R. Diaz, E. Kaya dan S. J. Zarrouk, “Reinjection in Geothermal Fields: A Worldwide Review Update Alexandre,” dalam *World Geothermal Congress 2015*, Melbourne, 2015.
- [14] G. E. M. A. Sanyal SK, “Injection – related problems encountered in geothermal projects and their mitigation: the unites states experience,” dalam *Proceedings world geothermal congress*, 1995.
- [15] V. Stefansson, “Geothermal reinjection experience,” *Geothermics*, no. 26, p. 99– 139, 1997.
- [16] G. B. G. &. M. F. Axelsson, “ Quantitative Interpretation of Tracer Test Data,” dalam *Proceedings World Geothermal Congress 2005*, Antalya, 2005.
- [17] D. H. T. Permana, “Geochemical Changes during 12 Year Exploration of the Southern Reservoir Zone of Lahendong Geothermal Field, Indonesia,” dalam *Proceedings World Geothermal Congress 2015*, Melbourne, 2015.
- [18] G. S. S. &. Y. A. Azka, “Geothermometer , Geindicator and Isotope Monitoring in Lahendong Wells during 2010,” dalam *Proceeding Geothermal Congress 2010*, Bali, 2010.
- [19] S. e. a. Lecompte, “ Review of organic Rankine cycle (ORC) architectures for waste heat recovery,” *Renewable and Sustainable Energy Reviews*, no. 47, p. 448–461, 2015.
- [20] G. C. L. &. P. G. Cammarata, “Thermodynamic analysis of ORC for energy production from geothermal resources,” *Energy Procedia*, no. 45, p. 1337– 1343, 2014.
- [21] d. Walrafen, B. Laenen dan W. D'haeseleer, “Minimizing the levelized cost

- of electricity production from low-suhue geothermal heat sources with ORCs: Water or air cooled ?,” *Applied Energy*, no. 142, pp. 144-153, 2015.
- [22] D. Hu, S. Li, Y. Zheng, J. Wang dan Y. Dai, “Preliminary design and off-design performance analysis of an Organic Rankine Cycle for Geothermal Sources,” *Energy Conversion and Management*, no. 96, pp. 175-187, 2015.
- [23] W. Sakti, “Pemanfaatan Panas Sisa Buang Brine pada PT. GEO DIPA Energi Ltd. Dieng dengan Siklus Rankine Organik,” Yogyakarta, Universitas Gadjah Mada, 2013.
- [24] A. Suciningtyas, “Analisis Performa Model pada PT. GEO DIPA Energi Ltd. Dieng dengan Variasi Medium Kerja,” Yogyakarta, Universitas Gadjah Mada, 2014.
- [25] A. F. S. T. a. & G. C. Pasek, “Thermodynamics study of flash-binary cycle in geothermal power plant,” *Renewable and Sustainable Energy Reviews*, no. 15, p. 5218–5223, 2011.
- [26] M. e. a. Agani, “Opportunity and Barriers to Develop a Bottoming Unit by Utilizing Separated Hot Brine in Ulubelu , Indonesia,” dalam *Proceedings World Geothermal Congress 2015*, Melbourne, 2015.
- [27] A. & V. M. Franco, “Optimal design of binary cycle power plants for water-dominated, medium-suhue geothermal fields,” *Geothermics*, vol. IV, no. 38, p. 379–391, 2009.
- [28] L. C. G. Edwards, *Handbook of Geothermal Energy*, Gulf Publishing Company, 1982.
- [29] M. S. Nenny, “Karakterisasi Reservoir Panas Bumi,” Institut Teknologi Bandung, Bandung, 2009.
- [30] D. White, “Characteristics of Geothermal Resources,” dalam *Geothermal Energy: Resources, Production, Stimulation*, Stanford, Stanford University Press, 1973.
- [31] R. DiPippo, *Geothermal Power Plants : Principles , Applications , Case Studies and Environmental Impact Third Edition*, North Dartmouth,

- Massachusetts: Elsevier, 2011.
- [32] D. Ryley, *Analysis of the Flow in the Reservoir-Well System*, Washington DC: U.S. Dept of Energy, 1980.
- [33] R. TP, Interviewee, *Proses pada Steamfield PLTP Unit III Lahendong*. [Wawancara]. 13 September 2015.
- [34] S. Kitahara, "The Polymerization of Silicic Acid Obtained by the Hydrothermal Treatment of Quartz and the Solubility of Amorphous Silica," *Physics Chemistry*, vol. V, no. 30, pp. 131-137, 1960.
- [35] A. W. M. Ellis, *Chemistry and Geothermal Systems*, New York: Academic Press, 1977.
- [36] M. J. Moran dan H. N. Shapiro, *Fundamentals of Engineering Thermodynamics*, Chichester: John Wiley & Sons Ltd, 2006.
- [37] Sihana, "System : First Order," dalam *System Dynamic*, Yogyakarta, Department of Engineering Physics, Universitas Gadjah Mada, 2011, pp. 1-12.
- [38] A. D. Pranadi, "Analisis Termodinamik untuk Preliminary Design Pembangkit Listrik Tenaga Panas Bumi (PLTP) Unit Pengembangan di Area Geothermal Kamojang, Jawa Barat, Indonesia," Jurusan Teknik Fisika UGM, Yogyakarta, 2015.
- [39] R. DiPippo, "Second Law assessment of binary plants generating power from low-suhue geothermal fluids," *Geothermics*, vol. 33, no. 5, pp. 565-586, 2004.
- [40] D. G. E. S. H. Chen., "A Review of Thermodynamic Cycles and Working Fluids for the Conversion of Low-Grade Heat," *Renewable and Sustainable Energy Reviews*, vol. XIV, no. 9, pp. 3059-3067, 2010.
- [41] Honeywell, "Working Fluid Developments for HT Heat Pumps and ORC Systems," Honeywell, Chilventa, 2010.
- [42] Northern Innovation, "Technical Investigation into Thermal Oil Technology," Maryland Industrial Estate, Belfast, 2010.

- [43] Anonim, "A program for thermodynamic modelling and optimisation of energy conversion systems."
- [44] T. Delft, *Cycle Tempo Manual Book*, Delft: Design, Engineering, and Production Faculty, -.
- [45] N. J. Andi, "Evaluation of Waste Brine Utilization From Lhd Unit Iii for Electricity Generation in Lahendong Geothermal Field , Indonesia," United Nation University, Reykjavik, Iceland, 2007.
- [46] N. S. Nise, *Control System Engineering*, California: John Wiley & Sons, Inc, 2011.
- [47] S. Boyd, "Stanford Edu," [Online]. Available: <https://web.stanford.edu/~boyd/ee102/laplace-table.pdf>. [Diakses 9 September 2015].
- [48] M. C. M. G. A. D. J. Bonafin, "Turboden Geothermal References in Bavaria: Technology, Drivers and Operation," dalam *Proceedings World Geothermal Congress 2015*, Melbourne, 2015.
- [49] I. A. S. Gunnarsson, "Impact of silica scaling on the efficiency of heat extraction from high-suhue geothermal fluids," *Geothermic*, vol. 34, no. 3, pp. 320-329, 2005.
- [50] K. Thulukkanam, *Heat Exchanger Design Handbook*, Second Edition, London: CRC Press, 2013.
- [51] I. M. Y. K. G. Z. M. S. Maren Brehme, "A Hydrotectonic Model of a Geothermal Reservoir- A Study in Lahendong, Indonesia," *Geothermics*, vol. 51, no. VII, pp. 228-239, 2014.
- [52] E. E. S. M. S. H. F. Hary Koestono, "Geothermal Model of the Lahendong geothermal Field, Indonesia," dalam *Proceedings World Geothermal Congress 2010*, Bali, 2010.
- [53] B. C. W. C. M. Sadiq J. Zarrouk, "Silica Scaling in Geothermal Heat Exchanger and its Impact on Pressure Drop and Performance : Wairakei Binary Plant, New Zealand," *Geothermics*, vol. 51, pp. 445-459, 2014.



- [54] The Dow Chemical Company, "Dowtherm J Heat Transfer Fluid, Product Technical data," The Dow Chemical Company, -, -.
- [55] S. Thorhallsson, "Common Problems Faced in Geothermal Generation and How to Deal with Them," dalam *Workshop for Decision Makers on Geothermal Project and Management*, Kenya, 2005.
- [56] R. B. Swandaru, "Thermodynamic Analysis of Preliminary Design of Power Plant Unit I Patuha, West Java, Indonesia," The United Nations University, Reykjavik, 2006.
- [57] N. Sutari, "Studi Pengukuran Tekanan dan Suhu menggunakan Alat Ukur Bawah Permukaan," Jurusan Teknik Fisika UGM, Yogyakarta, 2013.
- [58] Anonim, "ORC Cycle de Rankine Organique," 2015. [Online]. Available: <http://organic-rankine-cycle.blogspot.co.id/2011/09/r245fa.html>. [Diakses 19 August 2015].