

DAFTAR PUSTAKA

- [1] Power Technology, “Power plant profile: Lontar Coal Fired Power Plant, Indonesia,” Global Data. Accessed: Nov. 08, 2025. [Online]. Available: <https://www.power-technology.com/data-insights/power-plant-profile-lontar-coal-fired-power-plant-indonesia/?cf-view>
- [2] T. Wahyudi and Y. Kusuma, “ANALISIS RUGI-RUGI HEAT RATE PLTU BANTEN 3 LONTAR AKIBAT DEVIASI PARAMETER PADA KONDISI AKTUAL MENGGUNAKAN ANALISIS GAP,” *Jurnal Konversi Energi dan Manufaktur*, vol. 9, 2024.
- [3] Peraturan Menteri Energi dan Sumber Daya Mineral, “ATURAN JARINGAN SISTEM TENAGA LISTRIK (GRID CODE) Nomor 20 Tahun 2020,” 2020. [Online]. Available: <https://jdih.esdm.go.id/common/dokumenexternal/PM%20ESDM%20No%2020%20Tahun%202020.pdf>
- [4] A. Fernández-Guillamón, E. Muljadi, and A. Molina-García, “Frequency control studies: A review of power system, conventional and renewable generation unit modeling,” Oct. 01, 2022, *Elsevier Ltd.* doi: 10.1016/j.epsr.2022.108191.
- [5] V. T. Wahyuni¹, B. Puguh Manunggal, and A. A. Melkias, “ANALISIS SETTING SPEED DROOP DAN DEADBAND GOVERNOOR UNIT 1 PLTA MANINJAU SEBAGAI PENGATURAN FREKUENSI PADA SISTEM 150 KV,” vol. 11, 2022.
- [6] K. A. G. Pamundra, “ANALISIS SPEED DROOP GOVERNOR SEBAGAI PENGATURAN FREKUENSI PADA SISTEM TENAGA LISTRIK PLTU MUARA KARANG UNIT 5,” 2020. [Online]. Available: <https://id.scribd.com/document/542999071/SKRIPSI-201611134-KARUNIA-AKBAR-GUSTI-PAMUNDRA-1>
- [7] Wawan Adhyaksa, “Analisis Pengaruh Perubahan Frekwensi Sistem Terhadap Kinerja Governor Pada PLTA Bakar Unit 1,” *JURNAL TEKNIK MESIN SINERGI*, vol. 23, no. Vol. 23 No. 1 (2025): April 2025, 2025, doi: <https://doi.org/10.31963/sinergi.v23i1.5518>.
- [8] Y. Mobarak, “Effects of the Droop Speed Governor and Automatic

- Generation Control AGC on Generator Load Sharing of Power System,” *International Journal of Applied Power Engineering (IJAPE)*, vol. 4, no. 2, pp. 84–95, 2015.
- [9] Wijaya Ervan Andi, “PERANCANGAN SISTEM KONTROL LEVEL AIR STEAM DRUM PADA BOILER PLTU MENGGUNAKAN PENGENDALI NEURO-PID,” 2021. [Online]. Available: <https://repository.ub.ac.id/184506/>
- [10] Masrajuddin, B. Sudiarto, and R. Setiabudy, “Technical Analysis Using 100 Percent Palm Kernel Shell as Fuel in Circulation Fluidized Bed Boiler Type,” *International Journal of Electrical, Computer, and Biomedical Engineering*, vol. 2, no. 2, pp. 128–140, Jun. 2024, doi: 10.62146/ijecbe.v2i2.44.
- [11] Rifai Ahmad dkk, “ANALISIS LAJU KERUSAKAN EKSERGI DAN EFISIENSI EKSERGI PADA PEMBANGKIT LISTRIK TENAGA UAP,” *Media Bina Ilmiah*, 2019, doi: <https://doi.org/10.33578/mbi.v17i2.120>.
- [12] S. Agus, “PENDEKATAN DEVIASI FREKUENSI OPERASI SISTEM,” 2020, Accessed: Nov. 10, 2025. [Online]. Available: https://digilib.itb.ac.id/assets/files/2020/MjMyMTczMjMucGRm.pdf?utm_source=chatgpt.com
- [13] M. Rafsanjani, ; Retno, A. Diantari, S. Tinggi, and T. Pln, “Studi Laju Penurunan Frekuensi Pada Sistem Kelistrikan Sumatera Bagian Utara Dengan Skema Pelepasan Beban,” vol. 9, no. 2, 2019, doi: 10.33322/sutet.v9i2.584.
- [14] M. I. Wiyasatama and H. Setiawan, “RESPON AGC & FREGOV PADA PLTU CILACAP UNIT 3 TERHADAP PERUBAHAN FREKUENSI JARINGAN PLN STUDI KASUS,” *SUTET*, vol. 13, no. 2, Jan. 2024, doi: 10.33322/sutet.v13i2.2286.
- [15] A Sepli Tizar, “ANALISIS NILAI KARAKTERISTIK SPEED DROOP GOVERNOR TERHADAP KESTABILAN DAYA DAN FREKUENSI Analysis Of Speed Droop Governor Characteristic Value On Power Stability And Frequency Tizar Sepli A,” 2022. Accessed: Nov. 10, 2025. [Online]. Available: https://eprints.unram.ac.id/43293/2/Jurnal%20TA_Tizar%20Sepli%20Abiy

usani.pdf

- [16] M. I. Wiyasatama and H. Setiawan, "RESPON AGC & FREGOV PADA PLTU CILACAP UNIT 3 TERHADAP PERUBAHAN FREKUENSI JARINGAN PLN STUDI KASUS," *SUTET*, vol. 13, no. 2, Jan. 2024, doi: 10.33322/sutet.v13i2.2286.
- [17] Mardijah & Permata Aris Dian, "Analisis dan Perancangan Sistem Pengendali pada Sistem Pembangkit Listrik Tenaga Uap dengan Pengendali Robust Melalui Optimasi H_{∞} ," *Limits*, vol. 4, pp. 27–37, 2007.
- [18] R. Rofi, I. Riyadi Mardiyanto, and S. Utami, "Perancangan dan Simulasi Pengendalian Governing Isochronous pada PLTP Darajat," Bandung, Aug. 2021. doi: <https://doi.org/10.35313/irwns.v12i0>.
- [19] P. POURBEIK and A. GAIKWAD, "Providing Primary Frequency Response from Photovoltaic Power Plants," 2018. Accessed: Nov. 30, 2025. [Online]. Available: https://www.researchgate.net/figure/Droop-function-3-Field-tests-for-pv-primary-frequency-response-Field-tests-were_fig3_328686167
- [20] S. Rositawati and I. G. Mulyana, "Dampak Variasi Beban Dan Keterbatasan Pembangkit Terhadap Kontrol Frekuensi Sistem menggunakan Automatic Generation Control," *SUTET*, vol. 12, no. 1, pp. 1–11, Jun. 2022, doi: 10.33322/sutet.v12i1.1653.
- [21] J. Atkinson and I. M. Albayati, "Impact of the Generation System Parameters on the Frequency Response of the Power System: A UK Grid Case Study," *Electricity*, vol. 2, no. 2, pp. 143–157, Jun. 2021, doi: 10.3390/electricity2020009.
- [22] S. Sadono and N. Effendy, "Identifikasi Sistem Governor Control Valve Dalam Menjaga Kestabilan Putaran Turbin Uap PLTP Wayang Windu Unit 1," Sep. 2013.
- [23] Bagus Elok, "ANALISIS RESPON TRANSIEN." Accessed: Nov. 10, 2025. [Online]. Available: <https://www.scribd.com/document/363814294/Respon-Transien-Pertemuan-2>
- [24] Muhammad Yusuf Nurfani, "Studi Speed Drop dan Pengaruhnya terhadap Stabilitas Beban Sistem Governor," *Mars : Jurnal Teknik Mesin, Industri*,

Elektro Dan Ilmu Komputer, vol. 3, no. 1, pp. 105–113, Jan. 2025, doi: 10.61132/mars.v3i1.605.

- [25] A. , & S. U. B. Nopriyandoko, “Analisis pengoperasian Speed Droop Governor dengan respon pembangkit terhadap perubahan frekuensi pada PLTGU Muara Tawar Blok 5 (Doctoral dissertation, Sekolah Tinggi Teknik PLN),” 2019.
- [26] A. E. Saputra and J. Hermawan, “ANALISIS STABILITAS TRANSIEN RESPON FREKUENSI DENGAN SKEMA PELEPASAN BEBAN (LOAD SHEDDING) DI PT. PETROCHINA INTERNATIONAL JABUNG LTD. MODE BCD3 AKIBAT LEPASNYA SALAH SATU GENERATOR MENGGUNAKAN ETAP 12.6.0,” Semarang, Sep. 2015.
- [27] M. Prambudi¹, M. Effendy², and E. A. Hakim³, “Analisa Perbandingan Pengaturan Frekuensi Pada PLTMH Dengan PID Berbasis PSO dan GA,” *JEECOM*, vol. 3, no. 2, 2021.

