UNIVERSITAS
GADJAH MADA
Pengembangan Model Persediaan Biomassa untuk Program Cofiring PLTU dengan Mempertimbangkan Faktor Stochastic Supply dan Degradasi Biomassa
Muhammad Hafiz Choirul Amri, Prof. Ir. Nur Aini Masruroh, S.T., M.Sc., Ph.D., IPU., ASEAN.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Badan Standardisasi Nasional. (2021). *SNI 9031:2021: Biomassa padat untuk pembangkit listrik.* Badan Standardisasi Nasional.

Riris Destalia, & Enny Aryanny. (2024). Analisa Karakteristik Pengujian Co-Firing Biomassa Bagasse Tebu di PLTU Rembang Kapasitas 2×315 MW. *INSOLOGI: Jurnal Sains Dan Teknologi*, *3*(1), 32–43. https://doi.org/10.55123/insologi.v3i1.3041

Direktorat Bioenergi, Kementerian Energi dan Sumber Daya Mineral. (2023). *Program cofiring biomassa pada pembangkit listrik tenaga uap.* Kementerian Energi dan Sumber Daya Mineral Republik Indonesia. https://jdih.esdm.go.id/common/dokumen-external/Permen%20ESDM%20Nomor%2012%20Tahun%202023.pdf

Eriksson, L. O., & Björheden, R. (1989). Optimal storing, transport and processing for a forest-fuel supplier. *European Journal of Operational Research*, *43*(1), 26–33. https://doi.org/10.1016/0377-2217(89)90406-2

Ferrari, S. L. P., & Cribari-Neto, F. (2004). Beta regression for modelling rates and proportions. *Journal of Applied Statistics, 31*(7), 799–815. https://doi.org/10.1080/0266476042000214501

Ferreira, G. O., Arruda, E. F., & Marujo, L. G. (2018). Inventory management of perishable items in long-term humanitarian operations using Markov decision processes. *International Journal of Disaster Risk Reduction, 31*, 460–469. https://doi.org/10.1016/j.ijdrr.2018.05.010

Friedman, Y., & Hoch, Y. (2016). A Dynamic Lot-Size Model With Inventory Deterioration. *INFOR: Information Systems and Operational Research*, *16*(2), 183–188. https://doi.org/10.1080/03155986.1978.11731700

Gunnarsson, H., Rönnqvist, M., & Lundgren, J. T. (2004). Supply chain modelling of forest fuel. *European Journal of Operational Research, 158*(1), 103–123. https://doi.org/10.1016/S0377-2217(03)00354-0

Hasibuan, S., Jaqin, C., -, H., Yunita, I., & , B. (2022, March). Barriers and Drivers of Biomass Renewable Energy as Co-firing in industrial supply chain with Bibliometric Analysis. In *12th Annual International Conference on Industrial Engineering and Operations Management*, https://doi.org/10.46254/AN12.20220229.

UNIVERSITAS
GADJAH MADA
Pengembangan Model Persediaan Biomassa untuk Program Cofiring PLTU dengan Mempertimbangkan Faktor Stochastic Supply dan Degradasi Biomassa
Muhammad Hafiz Choirul Amri, Prof. Ir. Nur Aini Masruroh, S.T., M.Sc., Ph.D., IPU., ASEAN.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Intelichain. (2024). Coefficient of Variation (CoV) in Demand Planning: A Key Metric for Success. https://inteli-chain.com/coefficient-of-variation-cov-in-demand-planning-a-key-metric-for-success/

Kara, A., & Doğan, İ. (2018). Reinforcement learning approaches for specifying ordering policies of perishable inventory systems. *Expert Systems with Applications, 91*, 150–158. https://doi.org/10.1016/j.eswa.2017.08.046

King, P. L. (2011). Understanding safety stock and mastering its equations. *APICS Magazine*, July/August, 33–36. https://web.mit.edu/2.810/www/files/readings/King_SafetyStock.pdf

Krigstin, S., & Wetzel, S. (2016). A review of mechanisms responsible for changes to stored woody biomass fuels. *Fuel, 175*, 75–86. https://doi.org/10.1016/j.fuel.2016.02.014

Lewis, C. D. (1982). Industrial and business forecasting methods : a practical guide to exponential smoothing and curve fitting. In *Butterworth Scientific eBooks*. http://ci.nii.ac.jp/ncid/BA12260589

Miret, C., Chazara, P., Montastruc, L., Negny, S., & Domenech, S. (2016). Design of bioethanol green supply chain: Comparison between first and second generation biomass concerning economic, environmental and social criteria. *Computers & Chemical Engineering, 85*, 16–35. https://doi.org/10.1016/j.compchemeng.2015.10.008

Muslich, M. (2009). Metode pengambilan keputusan kuantitatif. *Andalas University Repository (Andalas University)*.

Nahmias, S. (1982). Perishable inventory theory: A review. *Operations Research, 30*(4), 680–708. https://doi.org/10.1287/opre.30.4.680

PT PLN (Persero). (2024). *Peraturan Pelaksana Nomor 0046.E/DIR/2024 tentang standar prosedur pelaksanaan cofiring biomassa dan pemanfaatan bahan bakar biomassa sebagai campuran bahan bakar pada PLTU batubara.* PT PLN (Persero). https://jdih.esdm.go.id/common/dokumen-external/RUPTL%20PLN%202021%20-%202030.pdf

Razm, S., Brahimi, N., Hammami, R., & Dolgui, A. (2023). A production planning model for biorefineries with biomass perishability and biofuel transformation. *International Journal of Production Economics, 258*, 108773. https://doi.org/10.1016/j.ijpe.2023.108773

Rentizelas, A. A., Tolis, A. J., & Tatsiopoulos, I. P. (2009). Logistics issues of biomass: The storage problem and the multi-biomass supply chain.

UNIVERSITAS GADJAH MADA
Pengembangan Model Persediaan Biomassa untuk Program Cofiring PLTU dengan Mempertimbangkan Faktor Stochastic Supply dan Degradasi Biomassa
Muhammad Hafiz Choirul Amri, Prof. Ir. Nur Aini Masruroh, S.T., M.Sc., Ph.D., IPU., ASEAN.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Renewable and Sustainable Energy Reviews, 13(4), 887–894. https://doi.org/10.1016/j.rser.2008.01.003

Ristono, A. (2013). *Manajemen persediaan* (Ed. 1). Graha Ilmu.

Roni, M. S., Chowdhury, S., Mamun, S., Marufuzzaman, M., Lein, W., & Johnson, S. (2017). Biomass co-firing technology with policies, challenges, and opportunities: A global review. *Renewable and Sustainable Energy Reviews, 78*, 1089–1101. https://doi.org/10.1016/j.rser.2017.05.023

Sami, M., Annamalai, K., & Wooldridge, M. (2001). Co-firing of coal and biomass fuel blends. *Progress in Energy and Combustion Science, 27*(2), 171–214. https://doi.org/10.1016/S0360-1285(00)00020-4

Shih, W. (1980). Optimal inventory policies when stockouts result from defective products. *International Journal of Production Research, 18*(6), 677–686. https://doi.org/10.1080/00207548008919699

Pyke, David & Peterson, Rein & Silver, Edward. (1998). Inventory Management and Production Planning and Scheduling (Third Edition). Journal of The Operational Research Society - J OPER RES SOC. 52. 845-845.

Fatimah, F., Gani, S. A., & Siregar, C. A. (2022). Pengendalian persediaan obat dengan metode ABC, VEN dan EOQ di Apotek Medina Lhokseumawe. *Industrial Engineering Journal, 11*(1), 1–7. https://journal.unimal.ac.id/miej/article/view/722

Squire, C. V., Lou, J., & Hilde, T. C. (2024). The viability of co-firing biomass waste to mitigate coal plant emissions in Indonesia. *Communications Earth & Environment, 5*, Article 423. https://doi.org/10.1038/s43247-024-01588-0

Strmenik, K., Wall, F., Mitsch, C., & Mödritscher, G. (2021). Volume allocation in multi-sourcing: Effects of the quantity–quality trade-off. *Central European Journal of Operations Research, 29*(2), 753–771. https://doi.org/10.1007/s10100-020-00685-7

Sulastri, P. Sistem just in time (jit) penting bagi perusahaan industri. 2012; Dharma Ekonomi, Vo. 12, No.36 . https://ejurnal.stiedharmaputra-smg.ac.id/index.php/DE/article/view/47

Tajbakhsh, M. M., Zolfaghari, S., & Lee, C.-G. (2007). Supply uncertainty and diversification: A review. In H. Jung, F. F. Chen, & B. Jeong (Eds.), *Trends in supply chain design and management: Technologies and methodologies* (pp. 345–368). Springer. https://doi.org/10.1007/978-1-84628-607-0_15

UNIVERSITAS
GADJAH MADA
**Pengembangan Model Persediaan Biomassa untuk Program Cofiring PLTU dengan Mempertimbangkan Faktor
Stochastic Supply dan Degradasi Biomassa**
Muhammad Hafiz Choirul Amri, Prof. Ir. Nur Aini Masruroh, S.T., M.Sc., Ph.D., IPU., ASEAN.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Transchel, S., & Hansen, O. (2019). Supply planning and inventory control of perishable products under lead-time uncertainty and service level constraints. *Procedia Manufacturing, 39*, 1666–1672. https://doi.org/10.1016/j.promfg.2020.01.274

Wendt, L. M., Murphy, J. A., Smith, W. A., Robb, T. B., Reed, D. W., Ray, A. E., Liang, L., He, Q., Sun, N., Hoover, A. N., & Nguyen, Q. A. (2018). Compatibility of high-moisture storage for biochemical conversion of corn stover: Storage performance at laboratory and field scales. *Frontiers in Bioengineering and Biotechnology, 6*, Article 30. https://doi.org/10.3389/fbioe.2018.00030

Yano, C. A., & Lee, H. L. (1995). Lot sizing with random yields: A review. *Operations Research, 43*(2), 311–334. https://doi.org/10.1287/opre.43.2.311