

## **Bibliografia articoli e rapporti tecnici su Termolisi (pirolisi e gassificazione)**

- [1] IEA Bioenergy TCP (Technology Collaboration Program) <https://www.ieabioenergy.com/our-work-tasks/Work-Programme-2022-2024-Triennium>  
<https://www.ieabioenergy.com/wp-content/uploads/2022/09/Work-Programme-2022-2024-Triennium.pdf>
- [2] IEA – Berlin Bioenergy Conference 2015. *Conclusions* (2015)  
<https://www.ieabioenergy.com/blog/publications/iea-bioenergy-conference-2015-conclusions/>
- [3] IEA - *Bioenergy Annual Report 2015* (2015)  
<https://www.ieabioenergy.com/blog/publications/iea-bioenergy-annual-report-2015/>
- [4] IEA - Bioenergy L. PELKMANS *Global Bioenergy* (May 2020)  
[https://www.ieabioenergy.com/wp-content/uploads/2020/05/GlobalBioenergy\\_May2020.pdf](https://www.ieabioenergy.com/wp-content/uploads/2020/05/GlobalBioenergy_May2020.pdf)
- [5] IEA - Bioenergy *International Collaboration in Bioenergy* (2022)  
<https://www.ieabioenergy.com/>
- [6] IEA - Bioenergy *Material and Energy Valorisation of Waste in a Circular Economy* (2022)  
<https://www.ieabioenergy.com/blog/publications/material-and-energy-valorisation-of-waste-in-a-circular-economy/>
- [7] DOE - US Department of Energy *Waste to Energy from Municipal Solid Waste* (2019)  
<https://www.energy.gov/sites/prod/files/2019/08/f66/BETO--Waste-to-Energy-Report-August--2019.pdf>
- [8] Program of Thermochemical Conversion Research and Development at NREL ([National Renewable Energy Laboratory](#)) <https://www.nrel.gov/docs/fy09osti/46664.pdf>
- [9] I. BARTON *Global Syngas Database* Global Syngas Technologies Conference 12th October 2021
- [10] G. LOPEZ et alii - *Recent advances in the gasification of waste plastics. A critical overview. Renewable and Sustainable Energy Reviews* (82) 2018  
<https://coek.info/pdf-recent-advances-in-the-gasification-of-waste-plastics-a-critical-overview-.html>
- [11] R. DOMENICHINI et alii, *Biomass Gasification for the Production of Substitute Natural Gas (SNG)*, *L'impiantistica italiana* Anno XXVII n° 3 maggio-giugno 2014  
[https://prodottieditoriali.animp.it/prodotti\\_editoriali/materiali/pdf/25.pdf](https://prodottieditoriali.animp.it/prodotti_editoriali/materiali/pdf/25.pdf)
- [12] J. PISKORZ et alii *IEA Pyrolysis Fundamentals Review 1999*  
<https://pure.qub.ac.uk/en/publications/techno-economic-and-life-cycle-assessment-on-lignocellulosic-biom>
- [13] M. L. MASTELLONE U. ARENA (Seconda Univ. di Napoli) - *Pirolisi di rifiuti solidi: aspetti tecnologici e di processo*. Memoria presentata al Convegno “Gassificazione e pirolisi tecnologie innovative per la valorizzazione energetica dei rifiuti” 18 giugno 2010, Aosta  
<https://www.regione.vda.it/allegato.aspx?pk=11008>
- [14] D. MEIER et alii - *State-of-the-art of fast pyrolysis in IEA bioenergy countries* *Renewable and Sustainable Energy Reviews* vol. 20 April 2013  
<https://www.sciencedirect.com/science/article/abs/pii/S1364032112006752?via%3Dihub>
- [15] D. ELLIOTT - Task 34 Pyrolysis Newsletter - PyNe 37, July 2015  
<https://task34.ieabioenergy.com/wp-content/uploads/sites/3/2016/10/Pyne-Newsletter-37-FINAL.pdf>

- [16] M. N. UDDIN et alii - *An Overview of Recent Developments in Biomass Pyrolysis Technologies* **Energies** 2018, 11(11) [An Overview of Recent Developments in Biomass Pyrolysis Technologies Energies \(mdpi.com\)](https://doi.org/10.3390/energies11111811)
- [17] Y. YANG et alii *Intermediate pyrolysis of organic fraction of municipal solid waste*, Journal of Cleaner Production, Volume 187, 20 June 2018  
[https://publications.aston.ac.uk/id/eprint/32971/1/Intermediate\\_pyrolysis\\_of\\_organic\\_fraction\\_of\\_municipal\\_solid\\_waste\\_and\\_rheological\\_study\\_of\\_the\\_pyrolysis\\_oil\\_for\\_potential\\_use\\_as\\_bio\\_bitumen.pdf](https://publications.aston.ac.uk/id/eprint/32971/1/Intermediate_pyrolysis_of_organic_fraction_of_municipal_solid_waste_and_rheological_study_of_the_pyrolysis_oil_for_potential_use_as_bio_bitumen.pdf)
- [18] Y. YUN Ed., *Gasification for Practical Applications* Published by **InTech** 2012  
<http://dx.doi.org/10.5772/3132>
- [19] A. PATEL *Techno-economic and life cycle assessment on lignocellulosic biomass thermochemical conversion technologies: A review*. **Renewable and Sustainable Energy Reviews** (2015)
- [20] D. BARISANO, G. CANNETO ENEA *Gassificazione: opportunità e limiti* 2013  
[https://www.enea.it/it/seguici/events/vercelli-expo/Forlener\\_27sett2013\\_Barisano\\_upgr.pdf](https://www.enea.it/it/seguici/events/vercelli-expo/Forlener_27sett2013_Barisano_upgr.pdf)
- [21] ENEA CNR RSE, *Decarbonizzazione dell'economia italiana. Il Catalogo delle tecnologie energetiche* (2017)  
[https://iris.enea.it/bitstream/20.500.12079/5154/1/V2017\\_Catalogo-tecnologie-energetiche.pdf](https://iris.enea.it/bitstream/20.500.12079/5154/1/V2017_Catalogo-tecnologie-energetiche.pdf)
- [22] IEA, *Bioenergy*, Y. JAFRI, *Emerging Gasification Technologies* 2020  
[https://www.ieabioenergy.com/wp-content/uploads/2021/02/Emerging-Gasification-Technologies\\_final.pdf](https://www.ieabioenergy.com/wp-content/uploads/2021/02/Emerging-Gasification-Technologies_final.pdf)
- [23] IEA - *Status Report on thermal gasification of biomass and waste* 2021, 2022  
[https://www.ieabioenergy.com/wp-content/uploads/2022/03/Status-Report2021\\_final.pdf](https://www.ieabioenergy.com/wp-content/uploads/2022/03/Status-Report2021_final.pdf)
- [24] *Status report on thermal gasification of biomass and waste 2021 Research special report*, 2022  
<https://www.ieabioenergy.com/blog/task/thermal-gasification-of-biomass/>
- [25] IEA – *Bioenergy*, J. HRBEK - *Gasification developments in Europe and the USA* 2021  
<https://www.ieabioenergy.com/wp-content/uploads/2021/03/Hrbek-Gasification-developments-in-Europe-USA.pdf>
- [26] IEA – *Bioenergy. Valuable products and by-products of biomass gasification Vienna* 19 October 2022  
<https://www.ieabioenergy.com/blog/publications/valuable-products-and-by-products-of-biomass-gasification-task-33-workshop-vienna-19-october-2022/>
- [27] IEA Bioenergy Task 33 Vienna Workshop Full Report December 2022  
[https://www.ieabioenergy.com/wp-content/uploads/2022/12/WS\\_Report-final1.pdf](https://www.ieabioenergy.com/wp-content/uploads/2022/12/WS_Report-final1.pdf)
- [28] S. M. SANTOS et alii, *Waste Gasification Technologies: A Brief Overview*. **Waste** 2023, 1, 140–165.  
<https://www.mdpi.com/2813-0391/1/1/11>
- [29] C. BLOCK et alii *Copyrogasification of Plastics and Biomass: A Review*. **Waste and Biomass Valorization**, 2019, 10 (3)  
<https://hal.science/hal-01700742/document> (scaricabile previa iscrizione a Hal science ouverte)
- [30] B. CIUFFI et alii, *A Critical Review of SCWG (Super Critical Water Gasification) in the Context of Available Gasification Technologies for Plastic Waste* **Appl. Sci.** 2020, 10(18), 6307  
<https://www.mdpi.com/2076-3417/10/18/6307>

- [31] SHAOHENG Ge, et alii *Municipal solid wastes pyro-gasification using high-temperature flue gas as heating resource and gasifying agent* **Waste Management** Volume 149, 15 July 2022  
<https://www.sciencedirect.com/science/article/abs/pii/S0956053X22003117?via%3Dihub>
- [32] Oscar SOSA SABOGAL *Pyrolysis And Gasification Of A Solid Recovered Fuel (SRF) And Its Model Materials* **Tesi di dottorato Università di Tolosa (2022)**  
<https://hal.science/tel-03771696v1> (scaricabile previa iscrizione a Hal science ouverte)
- [33] A. ADRADOS et alii *Pyrolysis of plastic packaging waste: A comparison of plastic residuals from material recovery facilities with simulated plastic waste.* **Waste Management**, 32(5),826-832 (2012)
- [34] S. L. WONG et alii *Current state and future prospect of plastic waste source of fuel: A review,* **Renewable and sustainable energy reviews**, 50 (2015)
- [35] *Pirolisi e piro-gassificazione delle biomasse* Progetto coordinato dal Prof. Francesco Floris Università degli Studi di Cagliari (2016)  
<https://sites.unica.it/fitogen/pirolisi-e-pirogassificazione-delle-biomasse/>
- [36] S. SCACCIA et alii *Studio della reazione di steam reforming del metano (SMR) con Sorption Enhanced (SE) mediante materiale bi-funzionale con elevate prestazioni catalitiche e proprietà adsorbenti.* Ricerca di Sistema Elettrico Report Rds/PAR2016/195 (2017)  
[https://www.enea.it/it/Ricerca\\_sviluppo/documenti/ricerca-di-sistema-elettrico/adp-mise-enea-2015-2017/progetto-polo/rds\\_par2016\\_195.pdf](https://www.enea.it/it/Ricerca_sviluppo/documenti/ricerca-di-sistema-elettrico/adp-mise-enea-2015-2017/progetto-polo/rds_par2016_195.pdf)
- [37] J. DONG, *Comparison of waste-to-energy technologies of gasification and incineration using life cycle assessment: Case studies in Finland, France and China* Journal of Cleaner Production, 2018, 203, pp.287-300.  
<https://hal-mines-albi.archives-ouvertes.fr/hal-01867461/file/JUN-Case%20studies%20in%20Finland,%20France%20and%20China.pdf>  
(scaricabile previa iscrizione a Hal science ouverte)
- [38] Y. TANG et alii, *Environmental and exergetic life cycle assessment of incineration- and gasification-based waste to energy systems in China,* **Energy**, 2020, 205, pp.1-10/118002.  
<https://imt-mines-albi.hal.science/hal-02863924/file/Environmental-and-exergetic-life-cycle-assessment-of-incineration-and-gasification-based-waste-to-energy-systems-in-China.pdf>  
(scaricabile previa iscrizione a Hal science ouverte)
- [39] R. L. LEE *An analysis of waste gasification and its contribution to China's transition towards carbon neutrality and zero waste cities : J Fuel Chem Technol*, 2021, 49(8), 1057–1076  
<https://www.sciencedirect.com/science/article/pii/S1872581321600932>
- [40] *Germany waste to energy market - Growth, trends, Covid-19 impact, and forecasts (2023 - 2028)*  
<https://www.mordorintelligence.com/industry-reports/germany-waste-to-energy-market-industry>
- [41] K. Weber et alii, *Status of waste-to-energy in Germany, Part I - Waste treatment facilities,* **Waste Management & Research** 2020, Vol. 38(1) Supplement 23-44  
<https://journals.sagepub.com/doi/full/10.1177/0734242X19894632>  
[https://www.researchgate.net/publication/338535004\\_Status\\_of\\_waste-to-energy\\_in\\_Germany\\_Part\\_I\\_-\\_Waste\\_treatment\\_facilities](https://www.researchgate.net/publication/338535004_Status_of_waste-to-energy_in_Germany_Part_I_-_Waste_treatment_facilities)

[42] WEKA INDUSTRIE MEDIEN *Gasification. Waste to energy: Lessons from Japan*, Jun 21, 2021  
<https://waste-management-world.com/waste-to-energy/waste-to-energy-lessons-from-japan/>

[43] R. D. SILVA-MARTINEZ et alii, *The state-of-the-art of organic waste to energy in Latin America and the Caribbean: challenges and opportunities* **Renewable Energy**, 156 (2020)  
[https://epub.wupperinst.org/frontdoor/deliver/index/docId/7510/file/7510\\_Silva-Martinez.pdf](https://epub.wupperinst.org/frontdoor/deliver/index/docId/7510/file/7510_Silva-Martinez.pdf)

[44] E. BLANCO MACHIN, *Techno-Economic and Environmental Assessment of Municipal Solid Waste Energetic Valorization* **Energies** 2022, 15, 8900.  
<https://doi.org/10.3390/en15238900>

[45] M. J. Alva-Villavicencio et alii, *Use of Waste to Obtain Energy in Latin America: A Systematic Review*, Proceedings of the 3rd South American International Industrial Engineering and Operations Management Conference, Asuncion, Paraguay, July 19-21, 2022  
<https://ieomsociety.org/proceedings/2022paraguay/434.pdf>