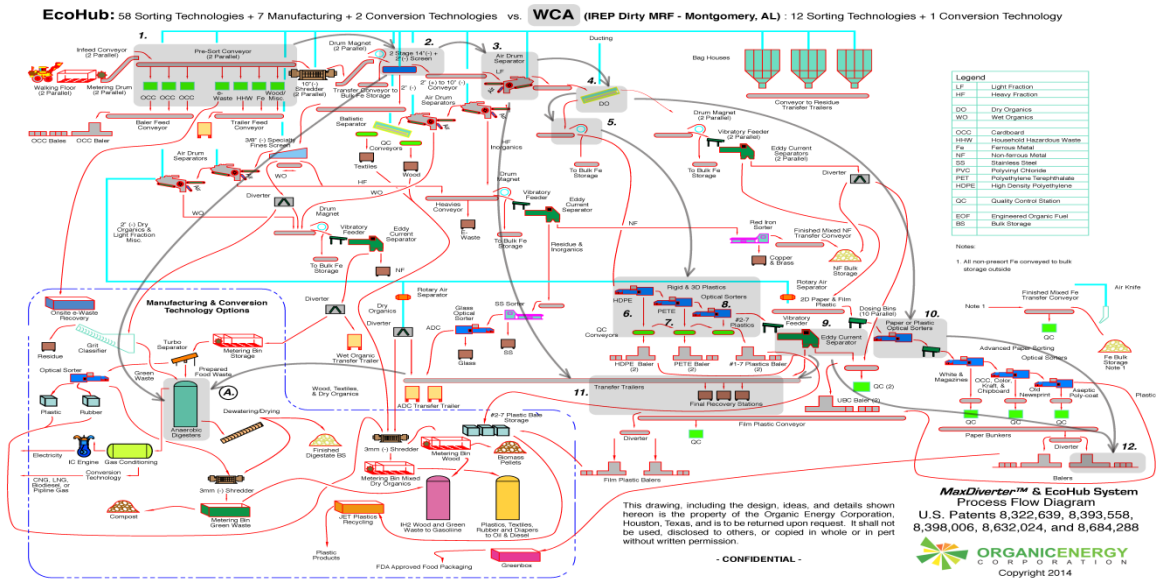


Eco-Industrial Park



According to the Eco-industrial Park Handbook for Asian Developing Countries, Eco-Industrial Parks are a collective of manufacturing and service businesses contained within a development that collaborate with the purpose of operating in a manner that reduces harm to the environment while maximizing operations through green practises in energy, waste disposal and production operations. Many countries are developing these Eco- Industrial Parks including Singapore. This reading List contains publications from the last two decades and beyond.

The Library will periodically add new resources to this list. Links to the full text are indicated via the hyperlinks. If you encounter any problem in retrieving the materials, please contact library@sutd.edu.sg for assistance.

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Introduction

Understand what Eco-Industrial Parks are and what they set out to achieve.

[Eco-Industrial Parks Looking to Enhance Economic and Environmental Performance. \(n.d.\). Retrieved April 13, 2017, from http://www.planete-energies.com/en/medias/close/eco-industrial-parks-looking-enhance-economic-and-environmental-performance](http://www.planete-energies.com/en/medias/close/eco-industrial-parks-looking-enhance-economic-and-environmental-performance)

[Eco-industrial parks. \(n.d.\). Retrieved from http://recpnet.org/wp-content/uploads/2016/05/Eco-Industrial-Parks.pdf](http://recpnet.org/wp-content/uploads/2016/05/Eco-Industrial-Parks.pdf)

[G. \(n.d.\). Posts about Eco-Industrial Parks on Making Lewes. Retrieved April 13, 2017, from https://makinglewes.org/category/eco-industrial-parks/](https://makinglewes.org/category/eco-industrial-parks/)

[Lowe, E. \(n.d.\). An Eco-Industrial Park definition for the Circular Economy. Retrieved April 13, 2017, from http://www.indigodev.com/Defining_EIP.html](http://www.indigodev.com/Defining_EIP.html)

[Lowe, E. \(n.d.\). Eco-Industrial Park Handbook for Asian Developing Nations. Retrieved April 13, 2017, from http://indigodev.com/Handbook.html](http://indigodev.com/Handbook.html)

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[Thieriot, H., & Sawyer, D. \(2015, March\). Development of Eco-Efficient Industrial Parks in China: A review. Retrieved from https://www.iisd.org/sites/default/files/publications/development-eco-efficient-industrial-parks-china-review-en.pdf](https://www.iisd.org/sites/default/files/publications/development-eco-efficient-industrial-parks-china-review-en.pdf)

[Zhang, Y., Qiao, Q., & Yao, Y. \(2015\). Study of Eco-Industrial Park Concept and Connotation. *Applied Mechanics and Materials*, 737, 974-979.](#)

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Singapore

An overview of Singapore's venture in Eco- Industrial Parks.

[E. \(n.d.\). Singapore industrial park awarded for its green leadership. Retrieved April 17, 2017, from http://www.eco-business.com/news/singapore-industrial-park-awarded-for-its-green-leadership/](http://www.eco-business.com/news/singapore-industrial-park-awarded-for-its-green-leadership/)

[Industrial Developments & Parks. \(n.d.\). Retrieved April 04, 2017, from https://www.iesingapore.gov.sg/-/media/IE-Singapore/Files/Publications/Brochures-Foreign-Companies/Industrial-Developments-Parks/IE_Industrial-Development-and-parks_EN.ashx](https://www.iesingapore.gov.sg/-/media/IE-Singapore/Files/Publications/Brochures-Foreign-Companies/Industrial-Developments-Parks/IE_Industrial-Development-and-parks_EN.ashx)

[Industrial Parks & Projects - China - Venture Overseas - International. \(n.d.\). Retrieved April 17, 2017, from https://www.iesingapore.gov.sg/Venture-Overseas/Browse-By-Market/Asia-Pacific/China/Industrial-Parks-and-Projects](https://www.iesingapore.gov.sg/Venture-Overseas/Browse-By-Market/Asia-Pacific/China/Industrial-Parks-and-Projects)

[Tianjin Eco-City Eco-Industrial Park welcomes first batch of investors. \(2006, February 20\). Retrieved April 16, 2017, from http://www.kepcorp.com/en/news_item.aspx?sid=2251](http://www.kepcorp.com/en/news_item.aspx?sid=2251)

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Carbon Emissions

Eco-Industrial Parks and their impact on carbon emissions.

[Ban, Y. U., Jeong, J. H., & Jeong, S. K. \(2016\). Assessing the performance of carbon dioxide emission reduction of commercialized eco-industrial park projects in South Korea. *Journal of Cleaner Production*, 114, 124-131.](#)

[Hassiba, Al-Mohannadi, & Linke. \(2016\). Carbon dioxide and heat integration of industrial parks. *Journal of Cleaner Production*, *Journal of Cleaner Production*.](#)

[Lu, Y., Chen, B., Feng, K., & Hubacek, K. \(2015\). Ecological Network Analysis for Carbon Metabolism of Eco-industrial Parks: A Case Study of a Typical Eco-industrial Park in Beijing. *Environmental Science & Technology*, 49\(12\), 7254-7264.](#)

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Development

Information on how to plan and develop an Eco-Industrial Park.

[El Haggag, S. \(2010\). *Sustainable Industrial Design and Waste Management Cradle-to-Cradle for Sustainable Development*. Burlington: Elsevier Science.](#)

[Ehrenfeld, J., & Gertler, N. \(1997\). *Industrial Ecology in Practice*. Retrieved from <http://www.johnehrenfeld.com/Kalundborg.pdf>](#)

[Grant, J. \(2000\). INDUSTRIAL ECOLOGY: PLANNING A NEW TYPE OF INDUSTRIAL PARK. *Journal of Architectural and Planning Research*, 17\(1\), 64-81. Retrieved from <http://www.jstor.org/stable/43030523>](#)

[Geng, Fujita, Park, Chiu, & Huisingh. \(2016\). Recent progress on innovative eco-industrial development. *Journal of Cleaner Production*, 114, 1-10.](#)

[Hwang, Jeong, & Ban. \(2016\). Causal relationship of eco-industrial park development factors: A structural equation analysis. *Journal of Cleaner Production*, 114, 180-188.](#)

[Kuznetsova, Zio, & Farel. \(2016\). A methodological framework for Eco-Industrial Park design and optimization. *Journal of Cleaner Production*, 126, 308-324.](#)

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[Mannino, Ninka, Turvani, & Chertow. \(2015\). The decline of eco-industrial development in Porto Marghera, Italy. *Journal of Cleaner Production*, 100, 286-296.](#)

[Patnaik, R., & Poyyamoli, G. \(2014\). Developing an eco-industrial park in Puducherry region, India – a SWOT analysis. *Journal of Environmental Planning and Management*, 1-21.](#)

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[Saikku, L. \(2006\). *Eco-industrial parks*.](#)

[Tansey, J., Dale, Ann, & Cote, Ray. \(2007\). *Linking Industry and Ecology A Question of Design \(Sustainability and the Environment\)*. Vancouver: UBC Press.](#)

[Veleva, Todorova, Lowitt, Angus, & Neely. \(2015\). Understanding and addressing business needs and sustainability challenges: Lessons from Devens eco-industrial park. *Journal of Cleaner Production*, 87, 375-384.](#)

[Yu, Dijkema, De Jong, & Shi. \(2015\). From an eco-industrial park towards an eco-city: A case study in Suzhou, China. *Journal of Cleaner Production*, 102, 264-274.](#)

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Energy Systems

Details on various energy systems utilized in Eco-Industrial Parks.

[Andiappan, Tan, & Ng. \(2016\). An optimization-based negotiation framework for energy systems in an eco-industrial park. *Journal of Cleaner Production*, 129, 496-507.](#)

[Systematic Approach for Energy Efficient Eco-Industrial Parks. \(2013, November 4\). Retrieved April 17, 2017, from <https://www.aiche.org/academy/videos/conference-presentations/systematic-approach-energy-efficient-eco-industrial-parks>](#)

[Taskhiri, M., Behera, S., Tan, S., & Park, K. \(2015\). Fuzzy optimization of a waste-to-energy network system in an eco-industrial park. *Journal of Material Cycles and Waste Management*, 17\(3\), 476-489.](#)

[Theo, W., Lim, J., Wan Alwi, S., Mohammad Rozali, N., Ho, W., & Abdul-Manan, Z. \(2016\). An MILP model for cost-optimal planning of an on-grid hybrid power system for an eco-industrial park. *Energy*, 116, 1423-1441.](#)

[Vest, H., & Weber, M. \(2016, September\). German Experiences to obtain Energy Efficiency Gains in Cities through Eco-Industrial Park \(EIP\) Development. Retrieved from \[http://low-carbon-urban-development-germany-china.org/wp-content/uploads/2016/05/M6-Textbook_Eco-Industrial-Parks_EN_final.pdf\]\(http://low-carbon-urban-development-germany-china.org/wp-content/uploads/2016/05/M6-Textbook_Eco-Industrial-Parks_EN_final.pdf\)](#)

[Zhang, Zhou, Chhabra, Garud, Aditya, Romagnoli, . . . Kraft. \(2016\). A novel methodology for the design of waste heat recovery network in eco-industrial park using techno-economic analysis and multi-objective optimization. *Applied Energy*, 184, 88-102.](#)

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Industrial Symbiosis

Companies coexisting and relying on each other for a beneficial outcome, for example the waste of one company's manufacturing activities is utilized as material in the production of another company's product. Both companies benefit, one profits from its waste and the other buys the waste at a discounted price.

[Gibbs, D., & Deutz, P. \(2005\). Implementing industrial ecology? Planning for eco-industrial parks in the USA. *Geoforum*, 36\(4\), 452-464.](#)

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[Park, Jun Mo, Park, Joo Young, & Park, Hung-Suck. \(2016\). A review of the National Eco-Industrial Park Development Program in Korea: Progress and achievements in the first phase, 2005–2010. *Journal of Cleaner Production*, 114, 33-44.](#)

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[System. \(n.d.\). Retrieved April 17, 2017, from <http://www.symbiosis.dk/en/system>](#)

[Yu, Han, & Cui. \(2015\). Evolution of industrial symbiosis in an eco-industrial park in China. *Journal of Cleaner Production*, 87, 339-347.](#)

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