



How can we  
incorporate  
**sustainable  
eco-solutions  
into businesses?**

FUTURE READY  
**singapore**



## In the global spotlight

Cities are turning into cold urban jungles as the world's natural biodiversity make way for new industries and manufacturing activities. With the scales tipped in favour of industrialisation, what can businesses do to sustain natural environments and profit margins at the same time?



## Tackling the issue

As industrialisation increases, there is a need to balance the urban landscape with eco-friendly features. A hub that encourages eco initiatives would help preserve the environment. Recognising the potential for such a hub in Singapore, JTC Corporation (JTC) has started the development of the nation's first eco-business park, CleanTech Park. The development is a key initiative that will enable Singapore to be greener, more energy-efficient and sustainable. CleanTech Park will also function as an integrated platform for sustainability research, advancement of eco-technology and test bedding of solutions.



## What makes the solution innovative

JTC's CleanTech Park adopts an eco-sustainable approach to create an eco-friendly community with efficient green practices. It is a suitable environment where nature and development co-exist in harmony, and a place for businesses to grow. The design of CleanTech Park reflects a deep respect for nature, and this can be seen in its architecture integrating



with natural surroundings. The idea was not only to retain, but understand and consequently nurture the unique natural characteristics of the site.

CleanTech Park was also designed with the urban landscape in mind. Its master plan was modelled on existing information of the site – such as solar exposure, rainfall, prevailing wind, topography and forest density. State-of-the-art modelling tools were used in the design of the urban fabric to ensure natural elements of the site are fully harnessed.

One of the many innovative design features of CleanTech Park is the use of the site's natural topography to manage stormwater. Whenever possible, rainwater run-off from the site will be retained and collected within swamps, ponds and lakes located in its central core. Collected water will be purified to a specified level before being reused for appropriate water needs. Being an eco development, CleanTech Park utilises eco-concrete for its roads, pavements and drains, and energy-efficient technologies such as LED street lamps to reduce energy consumption. Other eco-friendly applications include the use of recycled construction materials for its buildings and installation of green features such as solar panels and rainwater harvesting. These features would translate into operational savings for businesses housed here.



## **Singapore's role in developing the solution**

JTC and the Singapore Economic Development Board (EDB) are working very closely to develop the 50-hectare CleanTech Park. This mega eco-project will enhance Singapore's vision to become a regional eco hub. Through developments such as CleanTech Park, SEDB aims to attract global companies to use Singapore to develop, test bed and commercialise green, urban solutions before scaling up for the Asia-Pacific region and beyond.

## **Exploring new frontiers**

One of the goals of JTC is to develop Singapore into a prime location and epi-centre for R&D and business activities with a focus on clean technologies, sustainable development and urban solutions. When completed, JTC's CleanTech Park project will set an example for future business parks and development projects. With a successful model in place, this eco-concept can be replicated in other parts of Singapore and the region in the near future.



## **Background on solution provider**

JTC Corporation is Singapore's leading provider of industrial real estate solutions and services. Set up in 1968, JTC is renowned for its many innovative industrial real estate solutions which include four wafer fabrication plants, an advanced display park, two business parks, a R&D hub at one-north, a specialist chemical park on Jurong Island, biomedical parks in Tuas, as well as logistics hubs for various industries. Moving ahead, JTC is focusing on carving out new industrial spaces like Jurong Rock Cavern, Seletar Aerospace Park and CleanTech Park to help anchor important activities critical to the growth of the economy.



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business partner\_**

**For tomorrow's  
world\_**

## **What is *Singapore: Future Ready*?**

*Singapore: Future Ready* articulates Singapore's aspiration to be an ingenious partner for global businesses as they develop their ideas for tomorrow's solutions. We do so by recognising the value of long-term relationships, adopting a forward-looking approach, and taking on challenges with a can-do spirit. Against the backdrop of an ever-changing economic landscape, it also underlines Singapore's unique ability to help companies deliver solutions more quickly, with the right combination of talent, innovation, and strategic leadership.

To witness Singapore's future-ready partnership in action, visit [www.singaporebusiness.com](http://www.singaporebusiness.com) now.