

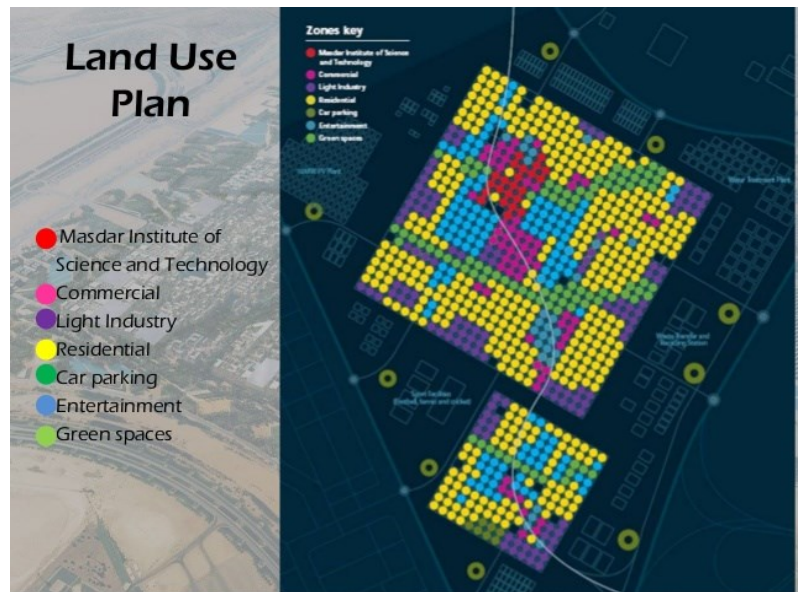
Sustainable Living—Masdar City , Abu Dhabi

Location

Located in Abu Dhabi, an estimated 17km south-east of the city and 6km from Abu Dhabi International Airport.

Masdar City is a planned project, set up in 2008 by a partnership between Masdar (a subsidiary of the Mubadala Development Company) and the Abu Dhabi Government.

Total estimated cost was US\$ 18-22 Billion.



How is Masdar City sustainable?

Masdar city aims to be one of the World's most sustainable urban developments powered by renewable energy. It aims to do this by:

- Ensuring a low carbon footprint during and after its construction.
- Being completely powered by renewable energy.
- Reducing waste to as near to zero as possible, through encouraging changes in behavior and regulating materials which can be present in the city.
- Leading research and education into sustainable technology.
- Designing the city streets and buildings to help create comfortable environments reducing the need for air conditioning, heating, and artificial light.
- Educating three quarters of the 40,000 residents with 5 hours of sustainability education each year.
- Leading research at its university to ensure the city retains its sustainable identification and leading knowledge in sustainable living.
- Full pedestrianisation within the city, without vehicles in the space. The transport network would be below ground.

Has Masdar City been a Success?

(+) Positive arguments: (+) Smart Water consumption systems have been built in every city building. They are designed to consume 54% less water than the UAE average building.

(+) Citizens are required to attend 5 hours of sustainability education each year. This encourages them to change behaviour in lifestyles and become more environmentally friendly.

(+) Buildings have been carefully designed , combining Arabic architecture with modern technology. The design of the streets considers the direction of prevailing winds and built to improve coolness.

(-) Negative Arguments: (-) Attracting an estimated 4000 commuters to work will increase the amount of carbon emissions by using personal transportation (cars).

(-) Large sums of investment/ money that were required to set it up. An estimated US\$18-22 Billion was spent funding the project.

(-) Parts of the scheme are incomplete. Due to be completed by 2020.