

1) ATTRACTION



PERSONAL RAPID TRANSPORT (PRT)

Personal Rapid Transport (PRT) is a 24-hour, on demand driverless transportation system.

The electric-powered automated vehicles, which can hold four passengers, travel at speeds up to 40km/h.



4) ATTRACTION



MASDAR WINDTOWER

Standing 45m tall, this modern interpretation of one of the region's most iconic, traditional architectural features, captures the cooler upper-level winds and directs them to the open-air public square at its base. Sensors operate high-level louvers that open in the direction of prevailing winds and to close in other directions to divert wind down the tower.



6) ATTRACTION



EXTERNAL ETFE AND FOIL CUSHIONS FAÇADE

Building façades have been developed to passively mitigate heat transfer while also being highly sealed to minimise the energy required with conditioning the internal spaces.

Lightweight, reflective ETFE façades minimize heat gains during the day and reflect daylight into residential apartments.



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2) ATTRACTION



DIGITAL GUEST BOOK

Masdar Institute's digital guest book was created by the American artist Joshua Davis. For each signature, the artist uses randomization to create a unique, computer-generated art form.



1) VIEWING POINT



THE INCUBATOR

The first commercial building in Masdar City, the Incubator Building will be home to a range of organisations, including S.K Energy, General Electric, Mitsubishi Heavy Industries and the Global Green Growth Institute.



5) ATTRACTION



SOLAR ENERGY (10MW + ROOF TOP)

Masdar City's onsite 10MW power plant, comprised of 87,777 polycrystalline and thin-film modules, is one of the largest grid-connected solar plants in the Middle East.

In addition to that, roof top photovoltaic solar panels help provide 30% of Masdar City's base electrical load.



8) ATTRACTION



KNOWLEDGE CENTRE

The slightly flattened spherical shape of the university's Knowledge Centre is designed to optimise the building's photovoltaic (PV) energy harvesting – based on its orientation, the inclination of the PV panels and maximisation of the roof's surface area.

The glued laminated timber roof was chosen over steel because by using FSC- and PEFC-certified timber, it has a lower embodied energy coefficient.



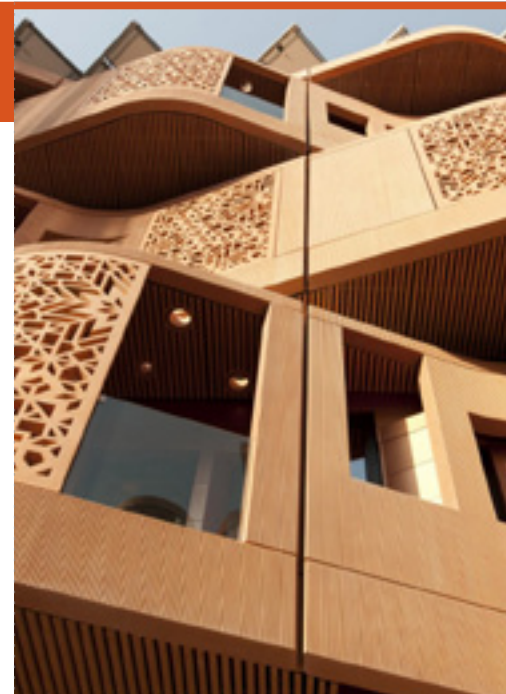
3) ATTRACTION



GREEN BUILDING MATERIALS

Almost 90% of the aluminum used for construction in Masdar City comes from recycled aluminum. Its embodied carbon produced is 90% less than primary aluminum.

The ready-mix concrete used to build the City is produced on site. The batching plant replaces a portion of the concrete's Portland cement with supplementary cementing material which improves its strength and durability.



2) VIEWING POINT



SIEMENS BUILDING

The Siemens Middle East headquarters, located at Masdar City, will be completed soon. The building will meet the US Green Building Council's LEED Platinum rating—the highest LEED standard.



7) ATTRACTION



CENTRAL COURTYARD

The Masdar Institute Campus consists of a series of courtyards and street spaces, each with a distinct theme derived from characteristics of the regional landscape. The courtyards feature seating areas surrounded by lush plant life and water attractions.



3) VIEWING POINT



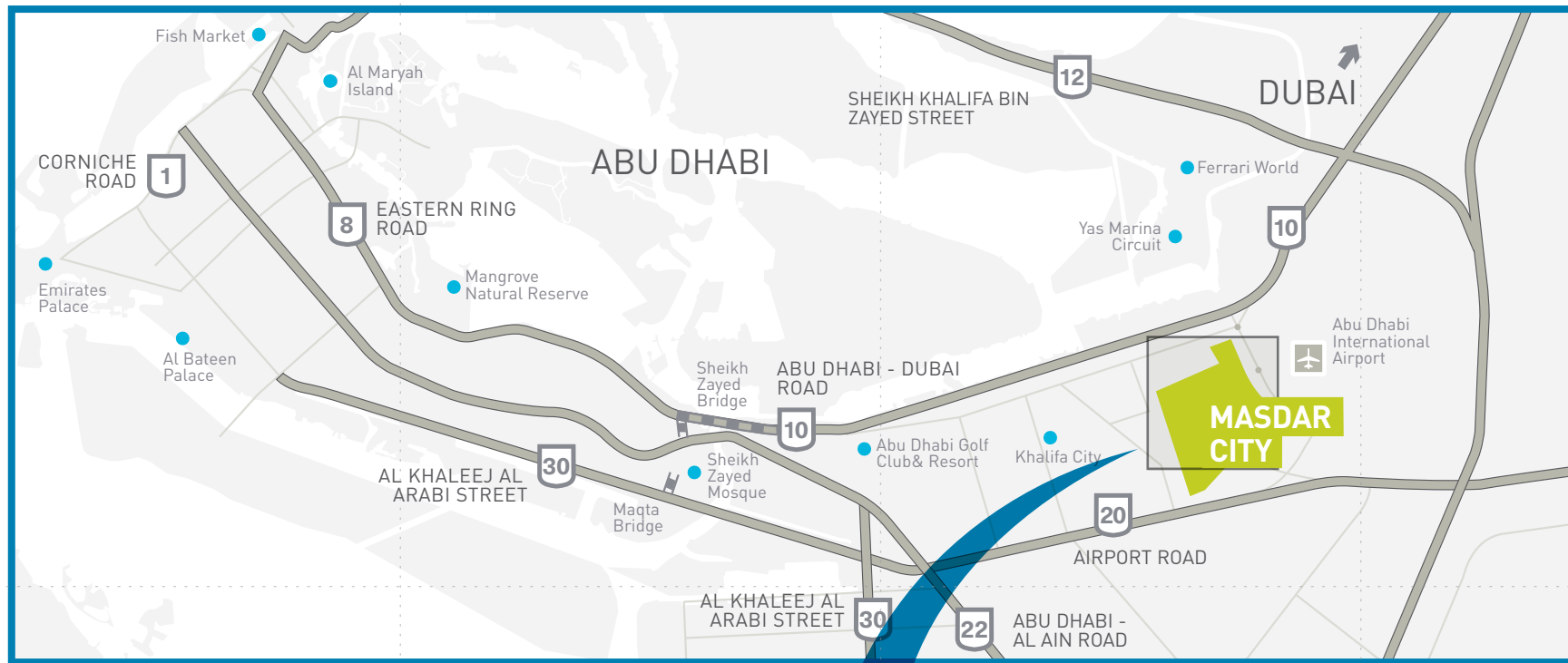
MASDAR HQ AND IRENA

Masdar's HQ, a three building, 32,000 square-metre complex will also house the International Renewable Energy Agency (IRENA). The building will be one of the most advanced, sustainable multi-use complexes in the United Arab Emirates.



Masdar City
Tour Map

A ABU DHABI MAP



B MASDAR CITY MAP

- 1 Entrance
- 2 Visitor Reception
- 3 Main Reception
- 4 Masdar Corporate Offices
- 5 Solar Testing and Solar Thermal trials
- 6 Beam Down
- 7 PRT Station
- 8 Masdar Institute Northern Car Park
- 9 The Incubator Building
- 10 Masdar Institute Campus
- 11 Masdar Institute Campus - Phase Two (Under Construction)
- 12 Siemens HQ
- 13 Materials Recycling Centre
- 14 Geothermal Test Site
- 15 10 MW Solar Panel Array
- 16 Concentrated Photovoltaic Facility
- 17 Site of Masdar Headquarters

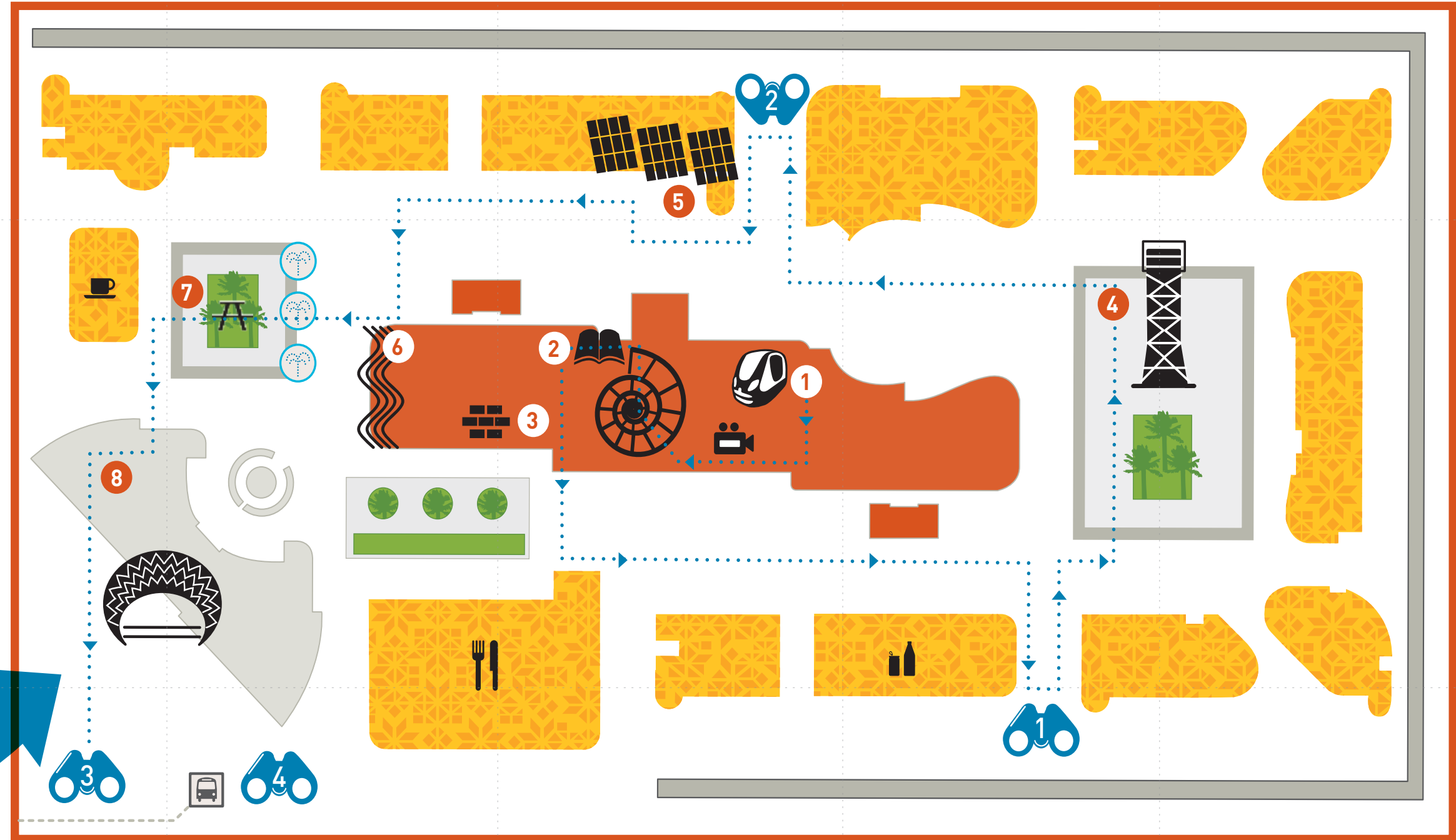


EXPLORE MASDAR CITY & MASDAR INSTITUTE

Welcome to Masdar City. Located 17 km from downtown Abu Dhabi, the capital of the United Arab Emirates, this is one of the most sustainable cities in the world. As a technology cluster, powered by renewable energy, Masdar City combines passive and intelligent design to push the boundaries of sustainability. At its core, the city is home to the Masdar Institute of Science and Technology – a graduate-level research university dedicated to advancing renewable energy and sustainable technologies.



NORTH



C MASDAR INSTITUTE MAP

- | | | |
|---|---------------------------|---------------------|
| 1 Masdar PRT station (Masdar Institute) | 4 Windtower | 7 Central Courtyard |
| 2 Digital guest book | VP2 Viewing Point 2 | 8 Knowledge Centre |
| 3 Green building materials | 5 Solar Energy (roof top) | VP3 Viewing Point 3 |
| VP1 Viewing Point 1 | 6 Façades | |

KEY

- Walking Route
- Shuttle Bus/MEV Route
- Shuttle Bus Point
- Parking
- Viewing Point 1: The Incubator Building
- Viewing Point 2: 10MW, Siemens and Materials Recycling Centre
- Viewing Point 3: Masdar HQ & IRENA
- Viewing Point 4: Masdar Institute Campus - Phase Two
- Masdar Institute Laboratories Building
- Masdar Institute Residential Buildings
- Relaxation Area