



Concept illustration courtesy of Masdar-Abu Dhabi Future Energy Company and Foster + Partners.

International Programme Management

Client

Masdar-Abu Dhabi Future Energy Company

Location

Abu Dhabi, United Arab Emirates

Programme Management, Masdar City, Abu Dhabi, United Arab Emirates

Project Description:

CH2M HILL is the Program Manager for the first phase of development of Masdar City, the world's first zero-carbon, zero-waste community. Located in Abu Dhabi, United Arab Emirates, the 6-square-kilometer (2.3 square mile) alternative energy city is scheduled to be complete in 2015. Masdar will establish a world-class standard for researching, piloting, and implementing integrated sustainable technologies.

CH2M HILL will be responsible for integrating technology and aligning the efforts of the designers, contractors, and third parties to program goals and standards.

The first phase is critical because of its aggressive schedule (opening in late 2009), establishment of the Masdar Institute of Science and Technology, and pilot testing of key components for other phases of the city.

Masdar City is an ambitious project that is being driven by the Abu Dhabi Future Energy Company. Because of its focus on clean technology innovation, the city is expected to attract the highest levels of international expertise and commercial interest.

Masdar will be a new walled city that will eventually support a population of more than 65,000 residents and commuting workers. The first phase of development involves building a photovoltaic power plant that will provide the energy needed for the city. The compact, high-density city will be free of cars and their emissions. Cycling and walking will be the primary means of transportation. An underground electric rapid transit system will provide a flexible alternative to private cars, and a light railway system will link Masdar City to the center of Abu Dhabi, adjacent developments, and the international airport.

The city will house energy, environmental, and recycling services, as well as light industrial businesses. Water management will be central to the environmental system, where wastewater will be purified and channeled back into the city for a variety of uses, including irrigation.