

Doxiadis Associates

DEVELOPMENT OF DCK CITY – KARACHI, PAKISTAN

In 2010, a landmark project was assigned to Doxiadis Associates and collaborating firms concerning the conception and master planning design of a new city in Pakistan to house a population of half a million, situated 35 km from Karachi in order to accommodate the expansion of the metropolis towards Hyderabad, the second largest city of the region.

The new city is envisioned as a paradigm in the fields of infrastructure, transportation, low energy consumption and services for other developments in the region to follow. It is foreseen to occupy an area of 12.320 acres

and is conceived on the ekistics principles of efficiency and sustainability. For the definition of the major development axis, an orthogonal grid concept was applied with a north west/south east orientation to allow for shading and provide for natural ventilation. The grid was adapted to the natural morphology after extensive ground control surveys. The mass transit system and major highways follow this grid. Urban green ribbons and water surfaces have been also defined and the area of the new city was subdivided into seventeen sectors and a central business district along the core of the development.



Each sector is composed of four neighbourhoods and disposes of one main centre, four secondary centres and a number of twelve to sixteen local commercial areas, each accordingly equipped with services, infrastructure and amenities in the fields of

education, culture and religion, health, retail and entertainment, recreation and sports ranging from university and high schools, hospitals and sports fields to kindergartens, local markets and clinics. Sectors' layouts favour pedestrian movement and local

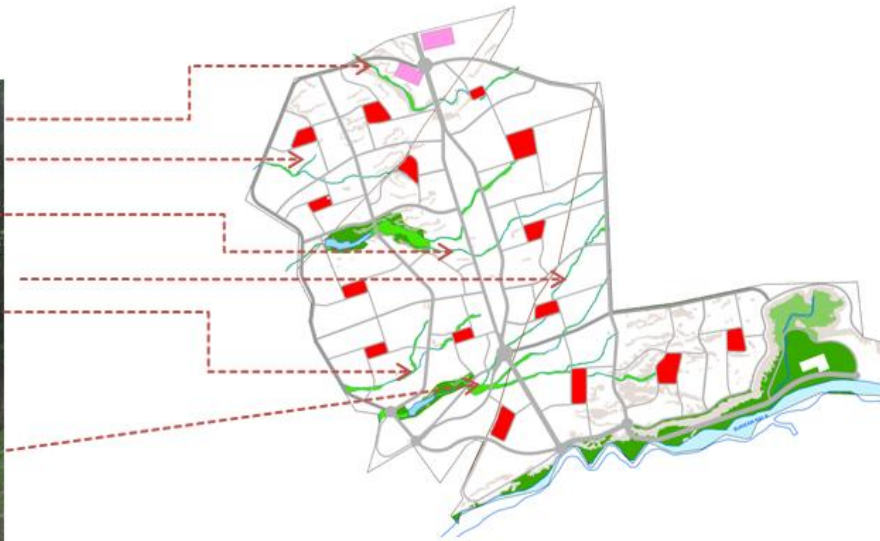
circulations avoiding or minimising vehicular street crossings.

Morphology and environmental characteristics of the greater area were analysed in an effort to emphasize through the design, strategic ecological attributes to the new settlement. To this effect, power generation and energy provision was based on a sustainable holistic concept for conservation and efficiency with the combined use of renewable sources. It is introducing new planning standards adapted to the local conditions and points out ecological ways for an enhanced life quality.

The project, one of the largest and most ambitious in Pakistan, was successfully completed in September 2011, one year after its commencement.

Services provided by the Consultant included:

- Master Planning
- Infrastructure Networks Design including
 - Water Supply
 - Storm Water Drainage
 - Sewerage System
- Electricity Production and Distribution
- Transportation Design including highway connection to Karachi
- Provision of Specialists reports on
 - Solid Waste System
 - Environmental
 - Geotechnical Analysis
 - Entertainment
 - Health Care



Location of Ecological Corridors

DATA ON OVERALL PROJECT

Name of Client	Start Date	Project Value in 12/2006 prices
<i>Pakistan Defence Officers Housing Authority</i>	<i>08/2010</i>	<i>N/A</i>
Project Location within Country	Completion Date	Value of Services in 06/2010 prices
<i>Karachi, Pakistan</i>	<i>09/2011</i>	<i>737.734,00 Euro</i>

13, AEGIDON & SENEKA STR. 145 64 NEW KIFISSIA, GREECE - TEL. +302106246300 - FAX +302106246399 - E-MAIL doxiadis@doxiadis.com