

**Success Story****Diyar Al Muharraq 220kV BSP Substation****Market Served  
Energy****Location** Bahrain**Scope** Complete Electrical and Mechanical Installation, Testing and Commissioning Services of 220kV Substation**Client** ABB/Electricity & Water Authority**Consultant** ESBI International**Duration** 12 months**Summary**

To meet the future economic needs of the country and as a response to the increased demand for energy in the Kingdom of Bahrain, the Electricity and Water Authority of Bahrain (EWA) has expanded the 220/66kV Transmission Network. This expansion has resulted in the development of Independent Power and Water Production facilities in Bahrain under the “220kV and 66kV Transmission Development 2007-2011 Project”.

The scope of this development covers ten new 220kV Substations and 24 new 66kV Substations including additions to the six existing 220kV & 66kV Substations and all associated 220kV and 66kV communication cabling connections.

Diyar Al Muharraq is a new 220/66kV BSP comprising of 220kV and 66kV GIS, 21kV and 11kV metalclad AIS switchgear, 220/66kV, 66/11kV transformers and reactors.

***“ABB is entirely satisfied with Irinatech’s project management, installation services, workmanship and the final closure of the project.”***

*ABB Switzerland Ltd.*

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## Background

Diyar Al Muharraq, is one of the largest urban waterfront developments in the Kingdom of Bahrain. It is a key infrastructure in the island which is monumental in its scale and a value addition to the Kingdom of Bahrain. Diyar Al Muharraq's 220kV substation is one of the key sources of power energising the Diyar Al Muharraq development.

## Services

Irinattech's experienced and dedicated team took up the project work and its associated challenges to install and commission all electrical equipment, including 220 and 66kV GIS, 21 and 11kV Metal Clad AIS Switchgear, Reactors, Cabling and Control Systems within the time frame required. With optimised resource utilisation and with its reliable high voltage cable jointing and termination services, Irinattech completed the 220kV, 66kV and 11kV high voltage termination works, including the cable testing and successful handover of the project.

### Irinattech at a glance

We contract to local, regional and multinational corporations and public institutions. Our general scope of work includes Engineering, Procurement, Construction and Handover to end-user. Our current growth strategy focuses on leveraging opportunities in the emerging markets of the Middle East, South Asia and Africa. Primarily focused in the power

infrastructure market, we work across a range of industry sectors including energy, water, telecommunications and infrastructure.

#### Our services include:

- Turnkey Construction
- Technical Support Services
- Engineered Products

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