



International Europe

Client
BP Solar

Location
Tres Cantos, Madrid,
Alcobendas, Spain



Solar Panels

BP Solar Photovoltaic Manufacturing Facility

Project Description

CH2M HILL IDC provided design services for BP Solar's new facility for researching, developing, and manufacturing photovoltaic panels. This project involved the conversion of this former microelectronics site into a 100,000-square-foot, state-of-the-art solar cell processing facility.

CH2M HILL IDC provided complete engineering services encompassing site assessment, strategic planning, operations planning, production tool selection and implementation, facility design master planning, (architectural, mechanical, electrical, process and chemical, instrumentation and controls, industrial engineering), construction management, and project and cost control services.

CH2M HILL IDC performed production capacity planning, flow analysis, and layout development; production equipment specification, vendor bidding, and design development; facility retrofit design involving cleanrooms, process chemicals and gases, exhaust abatement, ultrapure water, clean dry air (CDA), nitrogen, and electrical services; and complete construction support to ensure fast-track completion. The facility accommodates a doubling of manufacturing capacity and serves as the new regional headquarters for the client. Additionally, this building houses the world's largest and most technologically advanced facility of its kind.



CH2M HILL IDC was also commissioned to design a cleanroom research, development, and manufacturing area within an existing BP Solar facility. The project included tool install design, new abatement and treatment systems, upgrade of the building fabric to meet current Spanish industrial codes, and construction management support.

Hydrogeological Study, Alcobendas, Spain

As part of the permitting process for a new water supply well at a BP Solar plant in Alcobendas, a town close to Madrid, CH2M HILL IDC conducted a hydrogeological study that demonstrated that the proposed water abstraction was not going to create any impact on the aquifer.

Services Provided

- Site Assessment
- Strategic Planning Operations
- Planning Production Tool Selection and Implementation
- Facility Design
- Construction Management
- Master Planning
- Architectural
- Mechanical

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- Electrical
 - Process and Chemical
 - Instrumentation and Controls
 - Industrial Engineering
 - Project and Cost Control