



Energy Management & Planning

Solar Power Project Experience

From design, construction, and operation of advanced PV manufacturing facilities to innovative technology applications, CH2M HILL plays an essential role in the advancement of solar technology.

High Energy Solar Thermal Generation, Technical Advisors, Confidential Client

CH2M HILL is providing engineering, financial, and marketing advice to a research and development company investigating high energy solar thermal. This confidential client has designed a solar thermal technology for use in utility-scale and industrial power generation applications. CH2M HILL is in the process of assessing the feasibility of and the technology transfer path for potentially realizing the commercial aspects of this nascent technology.

Pacific Solar, Pty Ltd., Botany, New South Wales, Australia

CH2M HILL's subsidiary, Industrial Design Corporation (IDC), provided preliminary engineering services in Pacific Solar's planned transition from R&D operations to full-scale manufacturing. The IDC team investigated several critical process areas and provided objective analyses and recommendations to Pacific Solar on the state of development for each of those process areas. A vendor matrix and procurement strategy were developed to identify the capabilities of equipment vendors in the areas of vacuum coating, laser machining/scribing, thick film photoresist coating, and high temperature processing.

Solarex, Frederick, Maryland/Toano, Virginia

IDC provided project planning, execution, and control for expansion of an existing solar cell manufacturing facility with approximately 30,000 square feet of manufacturing space. The project included training Solarex employees on hookup strategies for meeting plant expansion goals. At the client's Virginia plant, the project team helped resolve problems related to a new photovoltaic process, resulting in the unusual step of installing IDC in a general management role for the plant's overall operations.

Solar Industrial Process Steam System, Ore-Ida, Idaho

This project received the Grand Conceptor Award from the Consulting Engineers Council of Idaho.

CH2M HILL has completed several energy projects for various Ore-Ida plants, including one project involving the use of solar energy to produce process steam. CH2M HILL designed the mechanical and electrical systems for this project, and provided construction management services during installation.