



# USAID | JORDAN

## Energy Sector PROJECT PROFILE

June 2011



The Crystalle Building, one of Jordan's first LEED - certified projects, is under construction in the new Abdali urban development area of Amman.

### PROJECT SNAPSHOT

*Implemented by:* Nexant Inc.

*Duration:* 2009 – 2010

*Total Funding:* \$500,000

*Beneficiaries:* Construction industry

*Geographic Coverage:* Amman

## Building Green in Jordan

### BACKGROUND

Buildings in Jordan consume a significant amount of energy for heating, cooling and lighting purposes. Therefore, improving energy performance of the new building stock in Jordan will significantly reduce national consumption. The “green buildings” concept aims to improve energy efficiency, rationalizing water consumption and mitigating environmental hazards.

As part of its energy assistance activities, USAID initiated the ‘Building Green in Jordan’ project to help understand how the “green” or energy-efficient building concept is applied in Jordan. To reflect market reality, a new construction building was selected as a case study to undergo the process of achieving a Leadership in Energy and Environmental Design (LEED) certification from the U.S. Green Building Council. This would help assess the appropriateness of using the LEED rating system for the Jordanian building industry.

USAID also addressed the issue of energy efficiency in public buildings through the development of model energy audits for public buildings that can be used by different stakeholders, including financial institutions.

### ACTIVITIES

- Taking the Crystalle Building (a new multi-purpose building in the upgraded Abdali area) as a case study through the LEED certification process to evaluate the appropriateness of this rating system for the Jordanian building industry
- Reviewing the legal framework for the building process, permitting steps, the Jordan National Building Code 2008 and their application during design and construction, and the existing labor pool skill set and quality of construction materials
- Performing a market assessment of the existing energy service activities including products, services and providers’ capabilities
- Conducting energy audits for public buildings using local energy service companies
- Holding a dissemination workshop for all relevant stakeholders to discuss outputs and lessons learned

### PROGRESS & ACHIEVEMENTS

- Completed the LEED precertification submittal for the Crystalle Building, targeting Gold level certification



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*The Abdali development includes many green features such as a central heating and cooling network with thermal energy storage and gray-water treatment requirements for all projects.*



*Model energy audit reports on two large ministry buildings in Amman were delivered to the Ministry of Environment (headquarters pictured above) and the Ministry of Planning and International Cooperation.*

- Released a final report titled “*Green Buildings and LEED Initiatives Case Study in Jordan*” in October 2010, providing an assessment of lessons learned while applying the U.S. Green Building Council requirements to a new construction building in Amman; includes analyses of the building codes, labor skill set and applied construction techniques in Jordan
- Completed energy audits for two Amman area public secondary schools
- Developed a simplified Excel-based audit tool for use by the less technically oriented school staff
- A final project dissemination workshop will be held in Amman in late January 2011

## PARTNERS

- Nexant Inc.
- Matrix Group, Jordan
- Maisam Architects and Engineers
- Jordan National Building Council
- Royal Scientific Society

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