

Ecohouse

Research objective:

To design, build and test an Eco house at the campus of Jordan University of Science and Technology.



Summary:

The project is aiming at establishing an eco-house on the campus of Jordan University of Science and Technology (JUST). JUST eco house will apply the planning and environmental management tools to pursue synergies in resource utilization, waste management, environmental preservation, and promotion of industrial and economic development and healthy living environment. The project will serve to demonstrate environmental technologies, as It will be devoted to

experimental examination and practice of sustainability. It is planned that the impact of JUST eco house will serve as a research laboratory of sustainability for the campus and community. By engaging in outreach activities and integrating the house into academic curriculum, JUST eco house will become an important part of JUST commitment to achieve sustainable development objectives.

Expected Project Impacts:

1. Establish a testing facility for entrepreneurs to pilot clean tech innovation ideas. This may result in creating new clean tech start ups and new job opportunities.
2. Demonstrate to the public, researchers, and businesses the usefulness of eco houses for energy, water and environmental efficiency enhancements.
3. JUST ECHOHOUSE will serve as a demonstration facility of sustainable housing for the public, engineering consultation firms, and JUST students and employees.
4. On the medium to long run renewable energy businesses will expand and therefore generating more job opportunities.

Research Partners and Budget: Project PI: Prof. Hani AbuQdais, JUST.

Total Budget : \$118,425.14

Research expected outcomes:

Demonstration model for environmental technologies .

Research laboratory that will be used in outreach activities and in academic curriculum.

Funding Agency: USAID.