

Sustainable Energy Policy Is A Necessity

Eng.Emad Khader

10/2007

Palestine - Ramalla

Globally

- **Hundreds of conferences and workshops all over the world gave us valuable recommendations,**
- **Decentralizing these efforts in both scales (global, national) is a considerable obstacle towards reaching applicable programs especially in the last decade.**
- **It is an ideal situation that both developed and developing communities meet in their interests when dealing with Energy Efficiency and Renewable Energy.**
- **Electricity demand is going faster than energy use, 1980-2020 energy use doubled, but electricity due to per capita increase and population growth triples.**

Locally

- **Difficult political situation in Palestine**
- **Low per capita income**
- **Limited authority on vital sectors**

Leave narrow margin to play in the electricity supply side,

But in the consumption side and the use of renewable energy a wide margin is opened for governmental, nongovernmental, private sector and community to initiate comprehensive national program guided by a national general policy which may become unavoidable for the public needs considering the opportunities of EE, RE in Palestine

Challenges

- **The main challenges the world is going to face in the near future are focused on the explosion mainly in developing countries of energy demand, and on the constraints imposed by climate change that will need to be drastically abated.**
- **To successfully respond to these challenges, based on the state of existing technologies, we need to be fully aware that we cannot afford not to use all feasible energy sources and, at the same time, that we ought to face a transition to economies based on low carbon emissions.**

Technology

- **In order to satisfy developing countries needs while observing the limitations on CO2 emissions, it will be crucial to develop and deploy renewable energy and advanced energy technologies, implementing national and regional energy efficiency programs**
- **Society institutes and those responsible for decision making have to be mindful of the need of analyzing the feasibility and the technological availability of proposed energy options**

Engineers Role

Determining the technological, economic and environmental feasibility of an energy option is one of the main functions of the engineering profession

Solutions

- **Sustainable energy solutions for developed countries are not always necessarily adequate for developing ones due to the great differences in increase of energy demand in these countries**
- **Each country has its optimal energy mix that will depend upon the available natural resources, population distribution, increase in energy demand, the status of its technical and economic capacity and culture**
- **There is no uniformity in remedy for solving globally sustainable energy supply problems**

Access to the Poor

- **Renewable energies (solar, wind-power), even without the benefit of economy, are ideal for use in situations where the energy demand does barely grow or in places far-off from large consumption centers.**
- **Programs of electrification based on renewable energies, particularly in rural and remote areas of developing countries, will be essential to accelerate the access of the poor to sustainable energy.**

Building Capacity

To deal with the complex situations, developing countries will encounter when establishing sustainable energy policies, special capacity building efforts will be required to provide the engineering professional with updated knowledge on the diverse technologies for sustainable energy generation.

Construction Sector

- **Due to energy consumption, the construction sector in Palestine considered as a main consumer compared to other sectors**
- **Consequently, applicable program enhanced by white paper (General Policy) is an urgent one**

Market Drivers

- **International cooperative.**
- **Reducing technology cost.**
- **Growing global technology relationship.**
- **Unserved off-grid demand.**
- **Deregulation freeing private capital.**
- **Increasing venture capital for innovation.**
- **More favorable policy environment.**
- **Write energy option.**

Fact

The Choice of Energy Future is Ours