

Discussion Panel on Energy and Climate - TWAS/TYAN Conference.

Social awareness and education for the use and importance of new green energy sources

Local Solutions (each country, one reality)

More R&D and education to increase competence, manpower at local levels

Development of new efficient materials

To invest in startup companies working on alternative energy research and products

To increase cooperation academia-industry through awareness /Role of industry in pushing political policies (government incentives, etc)

NOOR – I a project financed by rich countries ... located at a very sunny area, photovoltaic project. Mirrors to concentrate energy, heat up water to steam -> energy

Noor II or III salt mixtures -> melt concentrate energy...

Challenges: Scientists needed, competence on the field

Materials development (Si not renewable)

Cost effectiveness -> how to introduce to the market, or even to the industrial level, (start up companies).

Social awareness - > education of people

Role of industry in pushing public policies

In Egypt the NOOR project would not work... two large population, higher consume of energy, better idea would be to have small start ups in small communities (for each country a different reality). The guy from Morocco says that the NOOR project is not cost effective (high energy bills in Morocco still). In his opinion wind could be an interesting alternative.

Lin - > Electricity can be substituted by wind, heat, etc but car powering not... fossil fuels...

need to increase sustainability of fuel energy... important to set up goals of how much renewable energy is realistic to produce and use. In china, coal reproduces 70% of energy consumed, windmills are present but it is not very stable. Need to setup a case study for each country and found out what are the challenges locally.

Lady from Egypt -> need to educate people also to the habit and need to use renewable energy, this way industry will be forced to go in this direction.

In Ceará there is a lot of wind production but it is unstable and it is still not used to full potential (it was mentioned that there is no connection between plants – political). Guy from Morocco says there must be a certain level of production secured before installation is actually effective.

Lady from Pakistan cites that in her country there is a huge problem with energy provision.

Lack of national competence

Is the future of car powering Hydrogen fuel? (Toyota has been using for years). Everybody seems to agree that nuclear fusion problem is still storage of generated energy.

Social awareness -> educate people to the use and practice of new energy sources, communicate scientific discoveries to the common public. Scientific divulging.

Put forward the perspective of benefit by publishing papers energy related stories in developing countries..

Decreasing the bridge between policy makers and scientists.