



Theme 4 Water Use and Supply Management

Workshop 1. Alternative energy – A solution for energy security for islands and remote areas?

Focus and Coverage

Workshop Focus:

- 1) the status of the technology development of alternative energy;
- 2) feasibility of alternative energies; and
- 3) utilization of new finance scheme for promoting alternative energy development and expansion

Workshop Coverage:

- 1) The status of the research and development on the ocean energy including pilot project, such as wave, current and tidal power;
- 2) The status of the small/micro-scale power, such as small-micro hydropower, biogas and solar power.
- 3) good examples of small scale power generation and consumption for the improved quality of life.
- 4) good examples of financing for promoting alternative energy, such as the utilization of the Clean Development Mechanism (CDM) and investment fund for the clean energy.

Conclusions

- Ocean energy sources are very much site-dependent, therefore the relevant technologies should be pursued accordingly.
- Tidal power which is suitable for large scale is in the commercial stage; on the other hand, wave, current, and offshore wind which could be installed in the local scale are still in the development stage.
- Small/Micro hydro, solar energy and biogas could be good solutions for energy supply and security for small islands and remote areas which contribute to improve the quality of life of the people. However, expansion of those energy generation has some difficulties, e.g. low cost-efficiency and technical limitation.
- The CDM could put an additional benefit an additional benefit in energy supply and security through utilizing the money generated by the CDM to be invested on another energy project using the CDM.
- Energy resources should have diversity for security, centralized and localized.
- Alternative energyconversion system should be harmonized with the environment. Ocean energy sources are very much site-dependent, therefore the relevant technologies should be pursued accordingly.



Recommendations

- In order to secure the viability of alternative energy and its expansion, further research, technical development, more experiences and projects to be pursued. of small/micro scale power generation.
- In order to promote the alternative energy, support from the government is inevitable including policy and budget for both large and small scale alternative energy.
- North-south and south-south technical transfer, knowledge and information exchange to be further promoted.
- Integrated and comprehensive investigation on alternative energy resources in each country is recommended for the establishment of the long-, mid- and short-term national plan for the development of technologies and the practical use of the energy economically and efficiently.
- The collaboration among various stakeholders, including national and local governments, academe, NGOs, private sector is one of the keys to make the alternative energy project success.

