

Comments on ADB's Energy Strategy (version May 2007)

To: Strategy Feedback Form

From: Ms. Deborah Balatero
Department of Environmental Engineering
University of the Philippines

Date: 27 July 2007

Comment on APPENDIX 3: NEW AND RENEWABLE ENERGY (page 42-49)

A few of the renewables were mentioned like (a) Combustible and Renewable of Waste, (b) Hydropower, (c) Geothermal Energy, (d) Solar Energy, (e) Ocean Energy. They were briefly defined in the paper. One thing that might be very interesting and helpful to the reader is to include a table that will discuss the advantages and disadvantages of using these technologies and compare them. If possible, include also the cost of constructing them. If not then, just put very costly, somewhat costly, or least expensive.

Some figures, graphs, and tables are shown like the Renewal Energy Contribution to Global Electrical Production in Figure 4 page 44 and the Eurobarometer in figure 5. They are very helpful and informative in a way but in my point of view it will be much appreciated too if they will include a table as well on the advantages and disadvantages of using the different energy sources and their effect to the environment.

One interesting topic is the development of solar energy. Due to advance technologies, solar energy now is much cheaper than before. They are common to some household and manufacturing industries of developed countries. It produces no pollutants, has no fuel consumption, and has low maintenance cost. The article talks about some uses of solar energy like household heating and cooling, residential and industrial electricity, but it has no information on solar energy sources for vehicles. I have read about the solar powered cars and how they work. I suggest adding some information about the usage of solar energy to vehicles and encouraging improving the technology in order to decrease the pollutant and the demand of gasoline and some oils.

The technology on wind energy was also discussed. It was mention the further studies on how to optimize the design and how to minimize the cost were not yet exhausted so there are still room for improvement for the technology.

Another interesting topic in this section is the discussion on hydrogen vehicles. High percentage of air pollutant comes from transportation group. The government should promote and support the development of this technology. Data shows that the science of using solar energy is now much developed and more affordable than before. Therefore, if more people study the

technology, it will make the hydrogen technology as successful as the development of solar energy.

As stated from this section, hydrogen transportation technologies may help in reducing local pollution and high gas prices hydrogen technologies will reduce the pollution through cleaner emissions from hydrogen fuel cell engines. It will also reduce the amount of oil consumed and demand for gasoline.

As a whole, many studies should focus on how to improve the renewable energy. The government should support these technologies.

The views expressed in this paper are the views of the authors and do not necessarily reflect the views or policies of the Asian Development Bank (ADB), or its Board of Directors or the governments they represent. ADB makes no representation concerning and does not guarantee the source, originality, accuracy, completeness or reliability of any statement, information, data, finding, interpretation, advice, opinion, or view presented.