

WS097:

Renewable Energies as one of the Saviors

By

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Abstract:

The core idea is to have an allocation/quota obligation for using electricity generated from renewable energies by a certain group(s) of activities and increasing this obligation on periodical basis. The size of the allocation/quota obligation would be governed by the actual available electricity from renewable energies. This can be referred to as a pulling scheme for developing renewable energies; where the demand and its development is being guaranteed by a legislation that enforces the allocation/quota obligation. For the case of Egypt, the current available electricity from renewable energies, other than hydro, amounts to one percent from the electricity generation mix. This corresponds to three percent of the electricity use by all the Industrial end users at all voltage supply levels. It is being proposed that industrial users would be the flagship for implementing the proposed allocation/quota obligation. The simulated results for the implementation over nine years shows the possibility of achieving more than five Giga Watt of electric generation capacity and over than twenty five percent of the electric energy from renewable sources being used by the industrial sector. Other eligible end users to join the implantation of the proposed scheme would be the tourism, street lighting and commercial sectors, in view of their current electricity tariffs. Legislation (preferably a law) needs to be in place to activate that allocation/quota obligation scheme. Its implementation can be immediate as it is based on allocation of renewable energies through accounting systems.