Cape verde green electricity

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Nice article and i really like to appreciate the way you have explained about the renewable energy this article. Very much inspired by reading this article. Thanks a lot for sharing such great article.

Besides the fact that a large part of the electricity is still produces with generators, Cape Verde has already made progress in the field of sustainable energy. You can already find numerous wind turbines and solar panels on various islands. For example, on the island of Santiago near the capital Praia are some wind turbines. And in Monte Trigo on Santo Antao there are several hundred solar panels. On two of the largest islands, about a quarter of the energy generation already consists of wind energy. Good energy storage is still lacking to directly expand capacity.

The energy transition in Cape Verde has now started. For example, the energy network will be expanded and modernized, options for energy storage will be realized and ultimately a sustainable power plant will be built on each island. To realise these change Cape Verde partly receives subsidies from the European Union with partners from the Netherlands, Spain and Germany. All this with the aim of living entirely on green energy very soon.

The EU – Cape Verde Special Partnership was approved by the Council at the end of 2007 and is now in its implementation phase on the six priority sectors: governance, security, information society, regional integration, normative and technical convergence towards EU standards and fight against poverty.

Due to the rapid growth of the service sector (especially tourism) and the expected population increase, the annual electric power demand is expected to increase from the current 204GWh to 448GWh in 2016, and the 2015 objective of reaching 100% access to electricity in the country is very close to be attained with current access at over 95%.

The Government''s objectives for the power sector were presented in a number of documents, which were elaborated in the context of the West-African SE4All initiate under the guidance of Directorate General for Energy of the Government of Cape Verde. These documents and the stated policy objectives will provide and orientation for the elaboration of the RE Electricity Master Plan and their importance will be reviewed with the Cabo Verde Government.

Currently RE penetration reaches 25% in average. To achieve a least-cost electricity supply with high shares of RE according to the current plans and the National Plan for Renewable Energy of 2012, a deep transformation on the power sector is needed. New technologies should be introduced, including storage technologies. However, the electricity grids, as well as grid management strategies have to be transformed to modern and automatized systems, integrating information and telecommunication (IT) technologies.

The National RE Electricity Master Plan will take into account the international climate change mitigation agreements, the Intended Nationally Determined Contribution (iNDCs) and the ongoing process of Nationally Appropriate Mitigation Action (NAMA) formulation.