



IAEA

International Atomic Energy Agency

Atoms for Peace

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Strengthening planning capabilities for sustainable energy development in Africa

The challenge...

Energy planning practices and procedures in many African countries are weak in terms of their ability to address present and future energy development challenges. Within the Africa region, there is a lack of infrastructure, suitable analytical tools, adequately skilled professionals and funding to promote effective energy planning. The increasing complexity of energy planning necessitates the use of sophisticated mathematical modelling techniques. These techniques are contained in the IAEA's suite of energy planning models, which have proven to be very useful in other regions and in some African countries. In many cases, external expertise is used to help develop national energy plans with little or no technology or knowledge transferred to local staff. In order to face the challenges of energy planning and to ensure effective energy sector planning, the African region required assistance to enhance expertise in this important developmental area.



The project...

This regional Africa project was designed to enhance the capabilities of AFRA Member States in the development of national energy strategies for sustainable development. African Member States completed energy planning training and prepared national energy planning strategies through hands-on training on energy demand, using the Model of Energy Supply Systems and their General Environmental Impacts (MESSAGE) and the Model for Analysis of Energy Demand (MAED).

The impact...

Through this project, Member State participants were able to prepare and validate national energy demand reports. In addition, Member States strengthened their planning capabilities for sustainable energy development. With comprehensive national energy plans and strategies in place, the energy development of participating countries in Africa can move forward on a solid foundation.