

# Support for Morocco's Energy Policy (PAPEM III)



## Context

Morocco has set itself ambitious targets in the field of renewable energy. It aims to increase the proportion of electricity generated using renewable energy sources to 52 per cent of installed capacity by 2030. This will enable Morocco to considerably reduce greenhouse gas emissions, and in doing so successfully implement its nationally determined contributions (NDCs).



To this end, major programmes have been launched to develop solar, wind and hydroelectric power, mobilising both public electricity utilities and the private sector. With a view to creating an enabling environment for this renewable energy drive, various legal and institutional measures have been adopted, including laws on feeding electricity from renewable energy sources into medium and low-voltage networks and the creation of the National Electricity Regulatory Authority (ANRE).

To implement these programmes and measures, Morocco needs to build capacities and draw on technical support to equip key actors in the sector with the expertise and tools needed to address the challenges associated with renewable energy and harness the opportunities it presents in the country.

Under the PAPEM II project, the German cooperation will continue to support Morocco in its efforts to achieve its energy policy goals and progressively liberalise the electricity market.

## Objective

The conditions are in place to enable the development of renewable energy in the private sector.

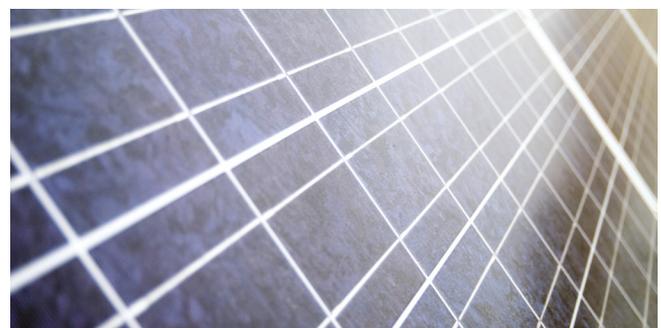
Project title	Support for Morocco's Energy Policy (PAPEM III)
Commissioned by	German Federal Ministry for Economic Cooperation and Development (BMZ)
Implementing organisation	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Lead executing agency	Ministry of Energy, Mines and Sustainable Development (MEMDD)
National partners	<ul style="list-style-type: none"> <li>- National Electricity Regulatory Authority (ANRE)</li> <li>- National Office for Electricity and Drinking Water (ONEE), Electricity Division</li> <li>- Moroccan Agency for Sustainable Energy (Masen)</li> <li>- Société d'Investissements Énergétiques (SIE)</li> </ul>
Project area	Rabat, Morocco
Overall term	January 2020 to December 2022
Financial volume	3 million euros

### GIZ

The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH is a German federal enterprise that offers workable, sustainable and effective solutions in political, economic and social change processes. The wide range of services offered by GIZ are based on a wealth of proven regional and technical expertise, specialist knowledge and tried-and-tested management know-how.

GIZ's main commissioning party is the German Federal Ministry for Economic Cooperation and Development (BMZ), but it also works on behalf of other federal ministries and public and private sector clients.

GIZ has been operating in Morocco since 1975.



*The liberalisation of the market will enable the emergence of further RE producers from the Moroccan private sector.*



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*Exchange between the members of research pool ESMA «Modulization and analyzation of the energy system» during a visit of the Green Energy Park in Ben Guerir*

## Approach

The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH continues to support Morocco in its efforts to achieve its national energy policy goals and progressively liberalise the electricity market.

To this end, the PAPEM III project cooperates with the Ministry of Energy, Mines and Environment (MEME) and other actors concerned with planning and regulation. The project staff provide technical advice and carry out a range of capacity development activities.

Private, municipal and state-owned energy providers receive technical advice on feeding electricity from renewable energy sources into the grid and on conducting capacity-building measures.

PAPEM III focuses on three areas of action:

- **Energy market regulation**  
Firstly, it strengthens the institutional and regulatory framework of the National Electricity Regulatory Authority.
- **Energy planning**  
Secondly, the project supports MEME in developing an energy-specific IT system and an integrated energy modelling system to forecast and plan supply and demand.
- **Grid feed-in for electricity from renewable sources**  
Finally, it supports Morocco in putting the regulatory and administrative conditions in place to integrate renewable energy sources. To achieve this, it works with MEME to formulate draft amendments to the Renewable Energy Act (13-09). In addition, it runs pilot projects on managing municipal distribution networks.

## Results

In previous projects in the same area, German technical cooperation activities reached 240 representatives of the public and private energy sector with information on liberalising the energy market.

MEME set up the Moroccan Energy Observatory and developed its web portal, which enables users to access reliable, up-to-date information on developments in the energy sector.

Selected experts at the Ministry developed a system for energy modelling that can make long-term forecasts on future energy scenarios. The project also trained a group of researchers in energy modelling; in turn, the group now provides training sessions on the subject through a university platform.

The project organised and facilitated several workshops to discuss changes that could be made to Act 13-09, resulting in the formulation of concrete recommendations on the draft amendment.

These Workshops led to concrete recommendations and their integration in a subsequent draft amendment. Once adopted, the amendment would lead to the progressive liberalisation of the energy market. Thus, enabling transparency in the RE sector while ensuring the reliability of the national power system, the bankability of the projects and the balance of the sector.

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