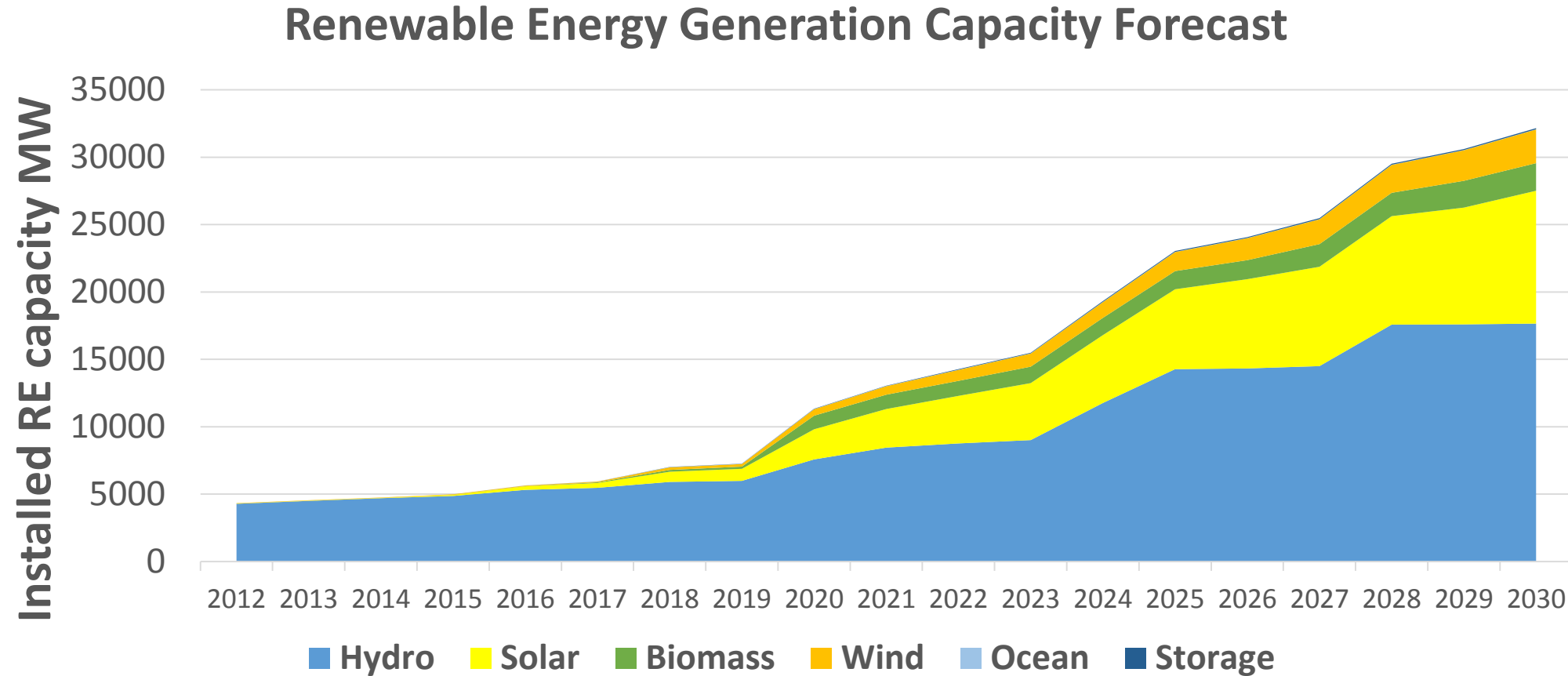


West Africa Clean Energy Corridor

Jansenio Delgado, ECREEE



ECOWAS Member States very ambitious RE targets are based on abundant resources



RE resources geographical distribution allows to exploit complementarity in a regional perspective

The West Africa Clean Energy Corridor (WACEC) initiative aims to support the development of utility scale RE based power and integration of RE sources into the West African power systems

Inspired by

- Clean Energy Corridor in Southern and Eastern African power pool regions, initiated by IRENA in 2014

Building on

- ongoing efforts of the countries and regional organizations, such as, WAPP, ERERA, UEMOA, AfDB, SE4All Africa Hub and other partners.

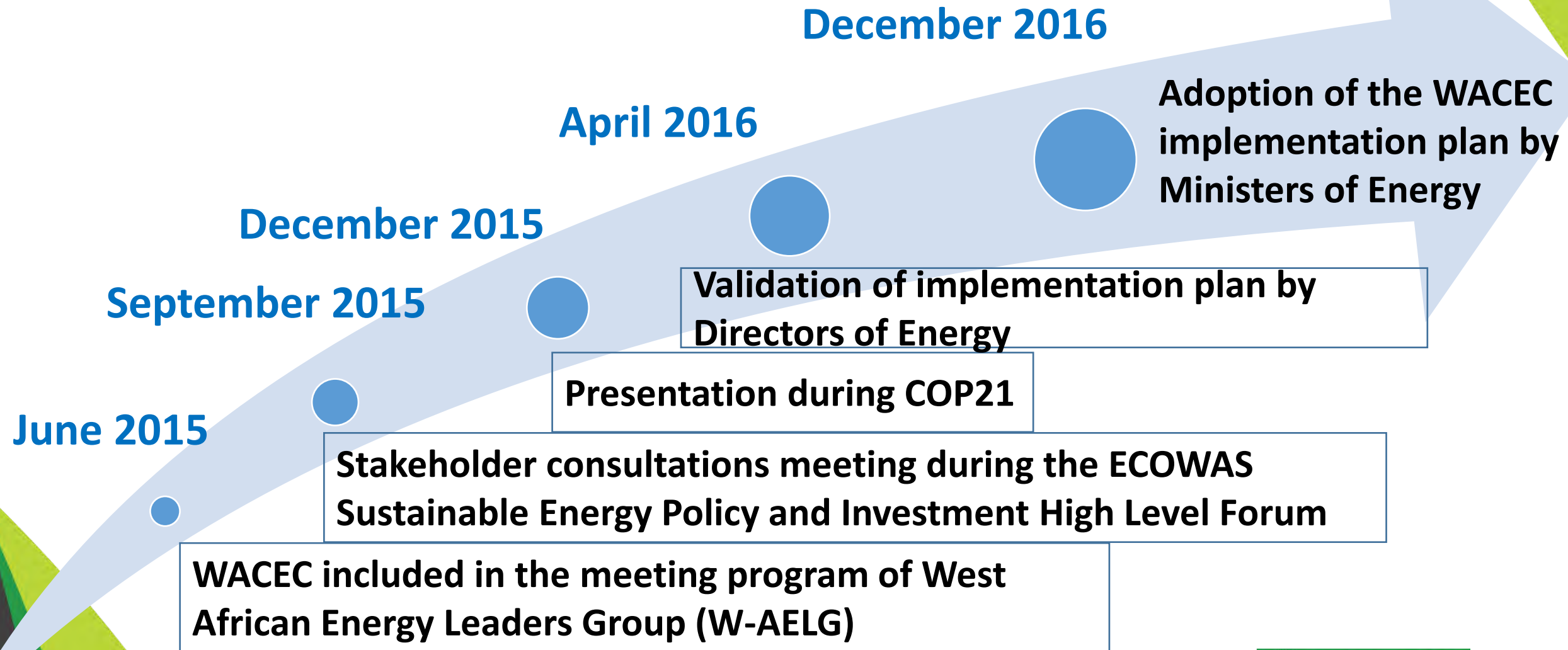
Contributing to

- objectives of the Sustainable Energy for All (SE4All) Initiative
- SDG 7
- RE objectives defined in the national SE4All Action Agendas and NREAPs

In line with

- Africa Renewable Energy Initiative (AREI)
- Programme for Infrastructure Development in Africa (PIDA)
- SE4All objectives for Africa

Political Framework for the Implementation of the WACEC



Implementation Pillars of the WACEC



Identification of high resource potential and environmentally sustainable zones for development of cost effective RE power plants

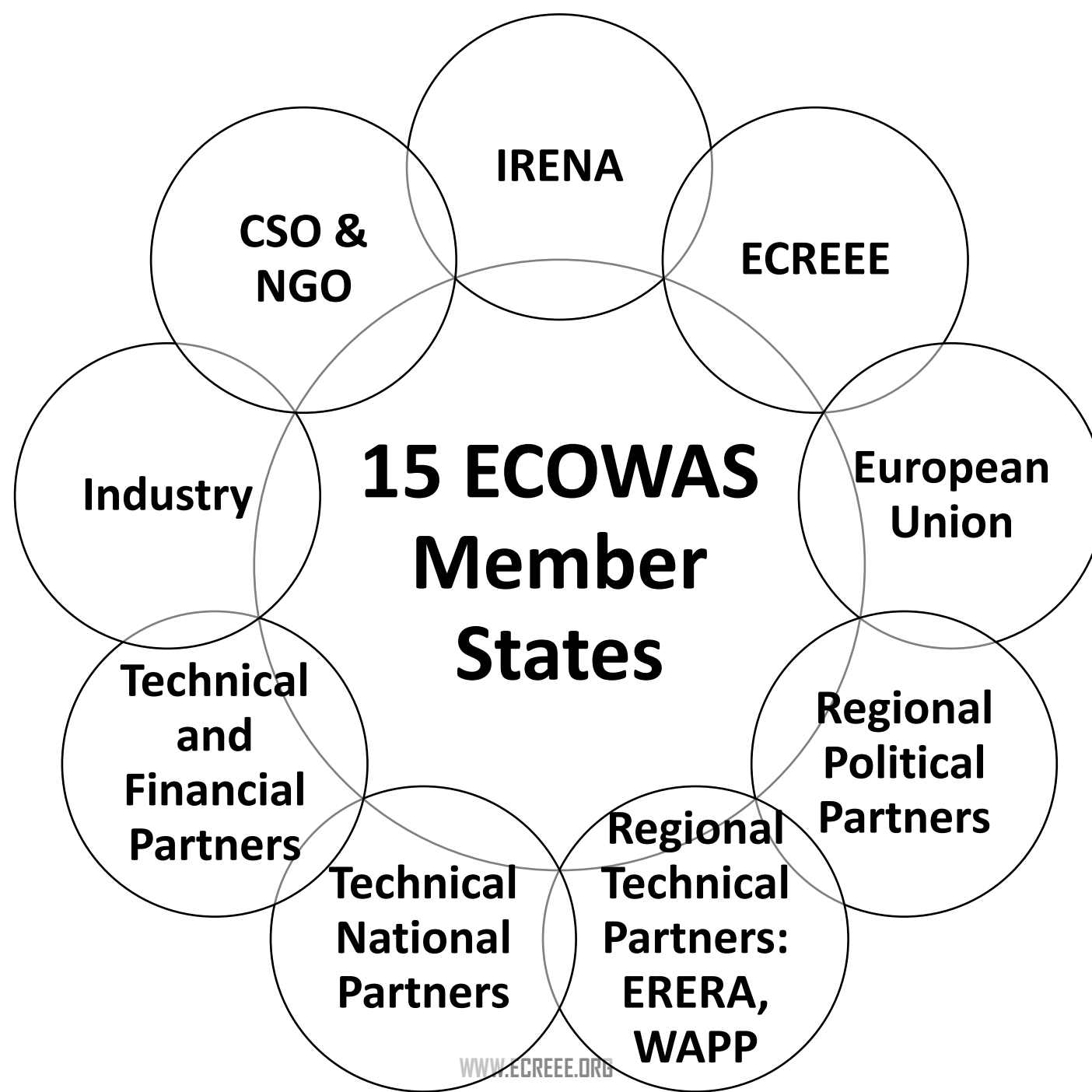
National and regional planning and support mechanisms for integration of cost effective RE power options into national and regional master plans for power generation and transmission

Enabling policy, regulatory and institutional frameworks to promote investments

Capacity building to plan, operate, maintain and govern power systems with higher shares of renewable electricity generation

Public and political support to the initiative and awareness raising on the benefits of the WACEC

Partners



Activities are already on-going

- **Technical Assistance to formulate the Action Agenda for the solar component of the West Africa Clean Energy Corridor: currently under implementation. A first Draft Document was presented to partners for comments**



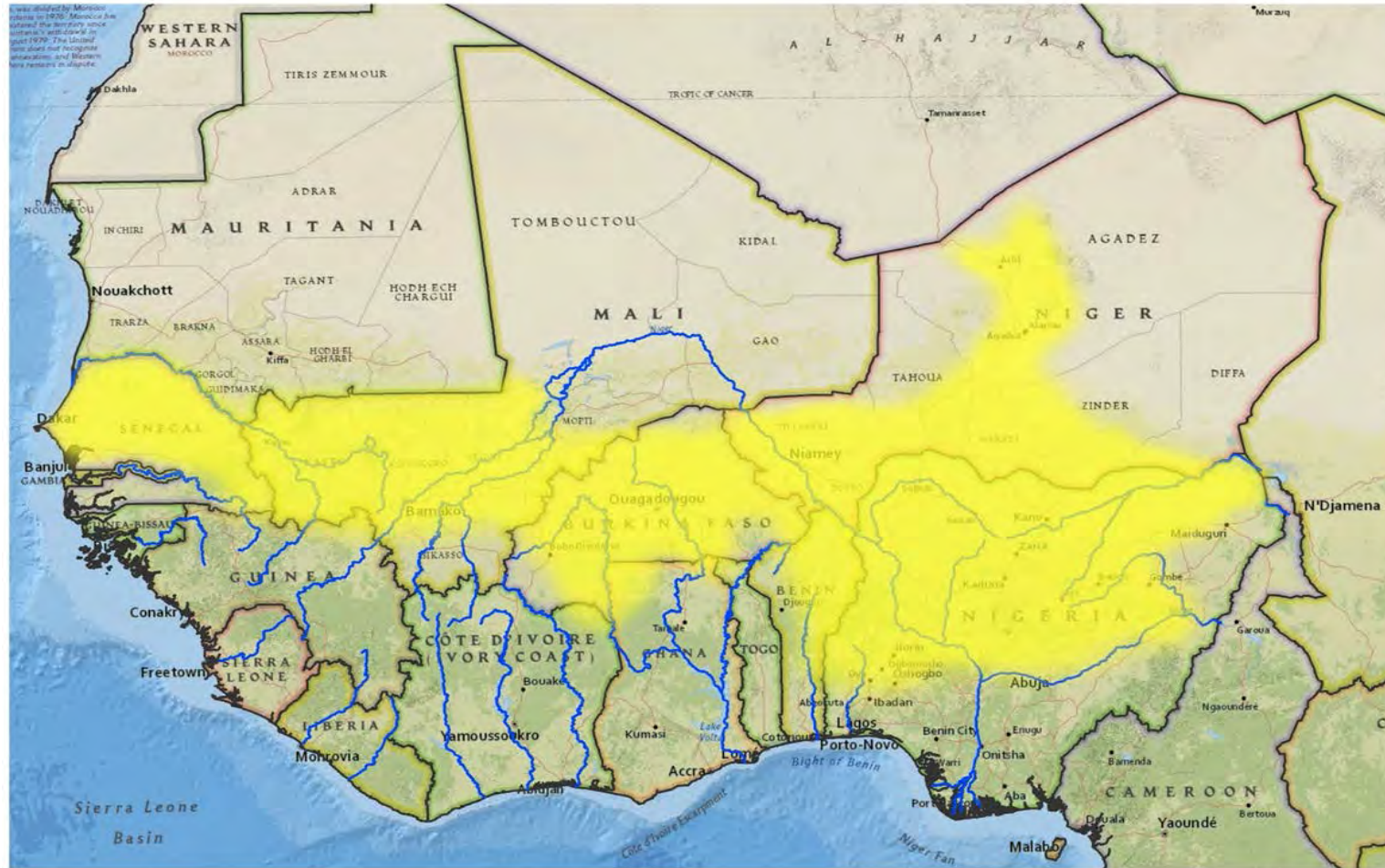
Project funded by the European Union

EuropeAid/Development Cooperation Instrument

DCI-ENV/2013/335-152

- **Collaboration with IRENA in the WACEC implementation**

West African Solar Corridor – Preliminary Study



Countries with high quality solar resources located close to the grid infrastructure and load centres can develop solar generation zones that are cost-effective, have low environmental impact and reduce the time line for project development.

West African Solar Corridor – preliminary messages

- The development of solar electricity generation technologies has become a least-cost electricity generation option for the expansion of the West African power systems:
 - *Reduced capital cost of PV investments*
 - *High physical solar energy potential in the ECOWAS countries*
- The LCOE from PVs is expected to be well below 60 €/MWh in a number of high potential areas by 2030. It is expected to range from 30 to 40 € / MWh.
- The West African Solar Corridor is based on big capacity investments in areas with high radiation and close to the transmission grid. Up to 10 GW solar electricity can be installed and inject into the grid by 2030.
- Electricity companies should adopt solar PV as an inexpensive generation solution. The success key will be if they consider solar energy as part of their generation portfolio.
- The implementation of the ECOWAS Master Plan for Generation and Transmission would be sufficient for fully integrate the solar corridor generation capacity

West African Solar Corridor – preliminary messages

- The greatest disadvantage of the Solar Corridor comes from the intermittent / non-available operation conditions.
 - Solar Corridor must be complemented by Hydro Corridor.
- Investors perceive both the West African region and solar technologies as a high risk areas.
 - De-risking activities to be continued along the project implementation:
 - Strengthen Policy framework (adequacy and consistency)
 - Clarify and simplify procedures for procurement and licensing
 - Establish robust and viable pricing
 - Set-up project development and implementation supports



Thank You