A. LEGAL & STRUCTURE, VISION & MISSION
B. CONSTRAINTS
C. OPERATION MANUAL
D. MASTER PLAN AND IMPLEMENTATION STRATEGY
E. DEVELOPMENT OF THE REGIONAL ELECTRICITY MARKET
F. CONCLUSION
Fifteen countries
Population 340 million (4th)
Area: 5,112,903 km$^2$ (7th)
Density 49.2/km$^2$
Total available generation 10,000MW
Av. Electricity Access: 70%
Legal and Governance
<table>
<thead>
<tr>
<th>Date</th>
<th>Policies / Decisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 1999</td>
<td>Creation of WAPP by the ECOWAS Heads of State and Government</td>
</tr>
<tr>
<td>January 2003</td>
<td>Adoption of Energy Protocol by the ECOWAS Heads of State and Government</td>
</tr>
<tr>
<td>January 2003</td>
<td>Creation of Energy Observatory by the ECOWAS Heads of State and Government</td>
</tr>
<tr>
<td>January 2005</td>
<td>Adoption of Revised Master Plan by the ECOWAS Heads of State and Government</td>
</tr>
<tr>
<td>January 2006</td>
<td>Adoption of Articles of Agreement for the establishment of WAPP by the ECOWAS Heads of State and Government</td>
</tr>
<tr>
<td></td>
<td>ECOWAS Heads of State and Government establish WAPP as a specialized institution of ECOWAS</td>
</tr>
</tbody>
</table>
## Creation of WAPP – Key Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Policies / Decisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 2006</td>
<td>National utilities in West Africa sign the Articles of Agreement thereby creating the General Assembly of the WAPP Organization</td>
</tr>
<tr>
<td>January 2008</td>
<td>WAPP General Assembly establish Executive Board and adopt 2006-2009 Business Plan for WAPP</td>
</tr>
<tr>
<td>January 2008</td>
<td>ECOWAS Heads of State and Government create the ECOWAS Regional Electricity Regulatory Authority</td>
</tr>
<tr>
<td>January 2008</td>
<td>ECOWAS Heads of State and Government adopt through Supplementary Act, the WAPP Transmission Line Implementation Strategy that approves the establishment of Special Purpose Companies under the frame work of public- public and public-private partnerships</td>
</tr>
<tr>
<td>February 2012</td>
<td>ECOWAS Heads of State and Government adopt through Supplementary Act, the updated ECOWAS Revised Master Plan</td>
</tr>
</tbody>
</table>
1. **Vision of WAPP:** To integrate the national power systems into an unified regional electricity market – with the expectation that such mechanism would over the medium to long term, ensure the citizens of ECOWAS Member States with a stable and reliable electricity supply at competitive costs

**Mission of WAPP:** To promote and develop infrastructure for power generation and transmission, as well as, to assure the coordination of electric power exchanges between ECOWAS Member States
Organizational Structure

- **GENERAL ASSEMBLY**
- **EXECUTIVE BOARD**
- **GENERAL SECRETARIAT**
- **ORGANISATIONAL COMMITTEES**
  - EOC
  - SPEC
  - FC
  - HRGC
  - DCC
- **WAPP Donors’ Coordination Committee**

- Information & Coordination Centre
- Administration & Finance Department
- Planning, Investment Programming & Environmental Safeguards Department
WAPP MEMBER COUNTRIES

Members of WAPP in 2013 (26#)
Constraints
Status of Power Supply in ECOWAS: Supply Sources

- **Hydro**: 31%
- **Thermal**: 64%
- **Import + Others**: 5%

**GWh**

- Benin
- Burkina Faso
- Côte d'Ivoire
- Gambia
- Ghana
- Guinea
- Guinea Bissau
- Liberia
- Mali
- Nigeria
- Senegal
- Sierra Leone
- Togo
Status of Power Supply in ECOWAS: Demand-Supply Balance

- **Met** 64%
- **Unmet** 46%

GWh

- Benin
- Burkina Faso
- Cote d'Ivoire
- Gambia
- Ghana
- Guinea
- Guinea Bissau
- Liberia
- Mali
- Nigeria
- Senegal
- Sierra Leone
- Togo

Unmet 46%
Met 54%
Ghana and Nigeria trade excess capacity
Cote d’Ivoire doubled required national generation capacity and export excess to Ghana.
Cross Border (2008 – till date)

Cross Border Flow (2007 - )

- Merged interconnections
Initial Constraints

- Inadequate generation
  - Old aged generators
- Weak national transmission network
- Limited interconnection for cross-border electricity trade
- Low capacity diesel generators in the network
- Supply three land locked countries
- Lack of funding
Market Development Strategy
WAPP Priority Projects
- Mobilise resources for the preparation of Priority Projects;

- Ensure the preparation of the priority projects for financing;

- Mobilise resources for the implementation of the priority projects;

- Coordinate and monitor the implementation of the priority projects during their realisation;
Traditional Model:
Implementation Committee to coordinate the activities in each concerned country.

Regional Model: Creation of Special Purpose Company (SPC):

The Authority of ECOWAS Heads of State and Government adopted in January 2008 two (2) Supplementary Acts that govern the implementation of WAPP Priority Projects:

- Transmission Lines – Special Purpose Company jointly owned by ECOWAS Member States/WAPP Member Utilities;

- Regional Power Generation Facilities – Special Purpose Company to be jointly owned by Private Partners and ECOWAS Member States/WAPP Member Utilities
ECOWAS Revised Master Plan

- The first Master Plan for WAPP adopted by ECOWAS Council of Ministers in 1999 through Regulation C/REG.7/12/99
- Master Plan was revised in 2005 and adopted by the ECOWAS Heads of State and Government through Decision A/DEC.7/01/05

- The Revised Master Plan is being implemented as WAPP Priority Projects (Generation and Transmission)
- Utilizing diverse energy source in the region for generation
- Construct transmission lines to interconnect countries of West Africa
Utilization of Diverse Primary Energy Resources

Huge Water Resource

Huge Oil and Gas Resources

Huge Coal Resource

West Africa Gas Pipeline (WAGP) Project
Implementation Strategy - WAPP Priority Projects


2. Inter-zonal Transmission Hub Sub-program (Burkina Faso, OMVS via Mali, Mali via Côte d’Ivoire, LSG via Côte d’Ivoire).


4. OMVG/OMVS Power System Development Subprogram (The Gambia, Guinea, Guinea Bissau, Mali, Senegal)

5. Côte d’Ivoire-Liberia-Sierra Leone-Guinea Power System Re-development Subprogram (Côte d’Ivoire, Liberia, Sierra Leone, Guinea).

Project Implementation Strategy

- Inter Zonal Hub
- North-Core
- Coastal Backbone
## PRIORITY PROJECTS

<table>
<thead>
<tr>
<th>Coastal Transmission Backbone Sub-program</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project</strong></td>
<td><strong>Commissioning</strong></td>
</tr>
<tr>
<td>330 kV Aboadze (Ghana) – Volta (Ghana) - <strong>Operational</strong></td>
<td>2010</td>
</tr>
<tr>
<td>330 kV Volta (Ghana) – Lomé “C” (Togo) – Sakété (Benin) – <strong>Implementation</strong></td>
<td>2014</td>
</tr>
<tr>
<td>330 kV Riviera (Cote d’Ivoire) – Prestea (Ghana) – <strong>Pre-investment</strong></td>
<td>2016</td>
</tr>
<tr>
<td>330 kV Nigeria – Benin Interconnection Reinforcement Project – <strong>FINANCING REQUIRED for Pre-investment Studies (€2.9 million)</strong></td>
<td>2017</td>
</tr>
<tr>
<td>330 kV Sakété (Benin) – Ikeja West (Nigeria) – <strong>Operational</strong></td>
<td>2007</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interzonal Transmission Hub Subprogram</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project</strong></td>
</tr>
<tr>
<td>330 kV Aboadze (Ghana) – Prestea (Ghana) – Kumasi (Ghana) – Han (Ghana) – <strong>Pre-investment</strong></td>
</tr>
<tr>
<td>161 kV Tumu (Ghana) – Han (Ghana) – Wa (Ghana); – <strong>Implementation</strong></td>
</tr>
<tr>
<td>225 kV Bolgatanga (Ghana) – Ouagadougou (Burkina Faso) – <strong>Implementation</strong></td>
</tr>
<tr>
<td>Han (Ghana) – Bobo (Burkina Faso) – Sikasso (Mali) – Bamako (Mali) – <strong>Mobilisation of Financing (€172 million)</strong></td>
</tr>
<tr>
<td>225 kV Bobo Dioulasso (Burkina Faso) – Ouagadougou (Burkina Faso) – <strong>Operational</strong></td>
</tr>
<tr>
<td>Ferkéssedougou (Cote d’Ivoire) – Sikasso (Mali) – Ségou (Mali) – <strong>Operational</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Northcore Subprogram</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project</strong></td>
</tr>
<tr>
<td>330 kV Birnin Kebbi (Nigeria) – Bembéréké (Benin) – Niamey (Niger) – Ouagadougou (Burkina Faso) – <strong>FINANCING REQUIRED for Pre-investment Studies ((€5.3 million)</strong></td>
</tr>
</tbody>
</table>
## PRIORITY PROJECTS

<table>
<thead>
<tr>
<th>Projects</th>
<th>Commissioning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OMVG-OMVS System Development Subprogram</strong></td>
<td></td>
</tr>
<tr>
<td>Projet Hydro-électrique de Félou (60MW) – Implementation (€205 million)</td>
<td>2015</td>
</tr>
<tr>
<td>Projet Hydro-électrique Gouina (95MW) + 225kV Doublement de la ligne de transport - Pre-investment</td>
<td>2016</td>
</tr>
<tr>
<td>Projets hydroélectriques Kaléta (240MW), Sambagalou(128MW) + 225 kV Ligne d’interconnexion – Implementation, mobilisation of financing (€748 million)</td>
<td>2015, 2018</td>
</tr>
<tr>
<td>Development of Souapiti Hydropower Facility in Guinea (515MW) - Pre-investment</td>
<td>2018</td>
</tr>
<tr>
<td><strong>Cote d’Ivoire - Liberia – Sierra Leone – Guinée (CLSG) System Re-development Subprogram</strong></td>
<td></td>
</tr>
<tr>
<td>Côte d’Ivoire – Liberia – Sierra Leone – Guinea Interconnection Project - Implementation (€323 million)</td>
<td>2017</td>
</tr>
<tr>
<td>Redevelopment of Mount Coffee Hydropower Facility in Liberia (64MW) – Implementation (US$225 million)</td>
<td>2017</td>
</tr>
<tr>
<td>Development of 118 MW Kassa ‘B’ Hydropower Facility in Guinea – Pre-investment</td>
<td>2019</td>
</tr>
<tr>
<td>Development of 86 MW Bikongor Hydropower Facility in Sierra Leone – Pre-investment</td>
<td>2019</td>
</tr>
<tr>
<td>Development of 270 MW Tiboto Hydropower Facility in Guinea – FINANCING REQUIRED for Pre-investment Studies (€0.5 million)</td>
<td>2020</td>
</tr>
</tbody>
</table>
# PRIORITY PROJECTS

<table>
<thead>
<tr>
<th>Projets</th>
<th>Mis en service</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strategic Generation Subprogram</strong></td>
<td></td>
</tr>
<tr>
<td>450 MW WAPP Maria Gleta Regional Power Generation Facility in Benin –</td>
<td>2017</td>
</tr>
<tr>
<td>Mobilisation of Financing (US$652 million)</td>
<td></td>
</tr>
<tr>
<td>450 MW WAPP Domunli Regional Power Generation Facility in Ghana -</td>
<td>2017</td>
</tr>
<tr>
<td>Mobilisation of Financing (US$652 million)</td>
<td></td>
</tr>
<tr>
<td>450 MW WAPP Regional Power Generation Facility within OMVS Zone -</td>
<td>2018</td>
</tr>
<tr>
<td>Conception</td>
<td></td>
</tr>
<tr>
<td>Country Pair</td>
<td>Project Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Côte d’Ivoire – Liberia</td>
<td>Electrification of 18 rural communities (131,000 habitants) in Liberia from Côte d’Ivoire – Implementation (€9.65 million)</td>
</tr>
<tr>
<td>Ghana – Togo</td>
<td>Electrification of 12 rural communities (42,500 habitants) in Togo from Ghana – Commissioned (€3.6 million)</td>
</tr>
<tr>
<td>Ghana – Burkina Faso</td>
<td>Electrification of 7 rural communities (32,000 habitants) in Burkina from Ghana – Commissioned (€1.5 million)</td>
</tr>
</tbody>
</table>
## MV Cross Border (Energy for Poor)

### Medium Voltage Cross Border Electrification Sub-program

<table>
<thead>
<tr>
<th>Region</th>
<th>Description</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Togo – Ghana</td>
<td>(Electrification of 9 rural communities (16,141 inhabitants) in Southern Togo from Ghana – Implementation (€2.32 million)</td>
<td>2015</td>
</tr>
<tr>
<td>Northern Togo - Benin</td>
<td>(Electrification of 6 rural communities (15,778 inhabitants) in Togo from Benin – Implementation (€2.14 million)</td>
<td>2015</td>
</tr>
<tr>
<td><strong>Medium Voltage Cross Border Electrification Sub-program</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burkina Faso and Niger: <strong>Under Development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ghana - Burkina Faso: <strong>Under Development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Côte d’Ivoire - Burkina Faso: <strong>Under Development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senegal and The Gambia: <strong>Under Development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mali - Guinea: <strong>Under Development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Côte d’Ivoire and Guinea: <strong>Under Development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>€15 million</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Adopted by ECOWAS Heads of State and Government in February 2012 through Supplementary Act A/SA. 12/02/12

Outcomes (2012-2025):

<table>
<thead>
<tr>
<th>Project Type</th>
<th>No.</th>
<th>Cost (US$ million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydropower Projects (7,092 MW)</td>
<td>24</td>
<td>13,803</td>
</tr>
<tr>
<td>Thermal Power Projects (2,375 MW)</td>
<td>5</td>
<td>4,263</td>
</tr>
<tr>
<td>Renewable Energy Projects (800 MW)</td>
<td>4</td>
<td>1,893</td>
</tr>
<tr>
<td>Transmission Line Projects (16,000 km)</td>
<td>26</td>
<td>6,457</td>
</tr>
</tbody>
</table>

Total Investment Requirement = US$26.416 billion
10% OF RENEWABLE ENERGY BY 2025

Energy mix in terms of produced energy

- Wind
- Solar
- Biomass
- Other
- Diesel oil
- HFO
- Coal
- Natural gas
- Hydro

Year: 2011 to 2025
Generation Projects (2017)

- Felou (Mali) 66MW
- Maria Gleta (Benin) 450MW - WAPP Program
- Domunli (Ghana) 450MW - WAPP Program
- OMVS Region 450MW - WAPP Program
- Souapiti Hydro 515 MW
- Kassa ‘B’ Hydro 118 MW
- Charbon (Senegal) 875MW
- Sambangalou (Senegal/ Guinea) 433MW
- Biu Hydro (Ghana) 600MW
- NIPP (Nigeria) 6,000MW
- Mount Coffee (Liberia) 66MW
- Adjarala (CEB) 147MW

Expected Additional Generation by 2017 10,170MW
WAPP Operation Manual was developed with the support of a consultant from EDF under USAID Technical Assistant in 2008.

- The WAPP Operation Manual contains policies for operations security and mitigation plan.
- The WAPP Operation Manual governs the operation of WAPP interconnected network (Grid Code)
- A Gap Analysis of the Manual identified programs required for unified regional integration
P1: Load Frequency Control
P2: Interchange Scheduling and Accounting between Control Areas
P3: Security of Interconnected System
P4: System Operational Planning
P5: Emergency Procedures and Measures
P6: Communication Infrastructures
P7: Information Exchange between Control Areas
P8: Training of Operators of the Interconnected Systems
STATUS OF APPROVAL
WAPP OPERATION MANUAL

- WAPP Board Resolution 51/RES.20/20/04/09
- Defined and adopted the modalities for the implementation of WAPP Operation Manual for the WAPP interconnected system.
- During the eighth meeting of WAPP Executive Board held in Cotonou on April 26th, 2009

REGULATORY APPROVAL
- Submitted to ERERA for review and approval
- ERERA Consultant has presented draft final report to EOC
- ERERA final approval expected in the first quarter of 2014
World Bank Grant

Synchronization of the interconnected systems and to the implementation of the Operation Manual.

Supply and Installation of equipment to ensure secure and safe operation
MARKET-RELATED PROJECTS

Identified Projects

OSMP Manual

Capacity Building
Operating Instruction & Procedure
Market Design & Rules
ICC Project
Synchronization Project
Justification for Regional Market
There is a political decision and instruments for the development of the regional market.

Resources are complementary in the region which suggests strongly the benefits of an integration in a regional market (oil and gas in the east mainly and hydro in the west).

There are trades already ongoing in the region which demonstrates the capacity and willingness of countries to trade.

There is infrastructure being developed for regional trading.
The ECOWAS Treaty

The ECOWAS Energy Protocol
Establish legal framework for securing competitive market

Unbundling of the large Utilities:
Nigeria, Ghana, Senegal

ERERA established
by Supplementary Act A/SA.2/1/08

ECOWAS Master Plan implemented as WAPP Priority Projects
BASIS FOR REGIONAL MARKET

- Minimum Requirement for Regional Market

**Technical Requirement**
- Open access to the spare capacity in the transmission systems – Electricity exchange between WAPP Utilities
- Agreement on a method for payment of wheeling services – Power Purchase Agreement (PPA) between WAPP Utilities

**Market Governance**
- Operation Rules
- Trading Rules
- Regional Regulations
Develop a Road Map required to transit from the present technical and commercial status to a regional electricity market and competitive wholesale market including time frame, resources.

Appropriate model for actualizing the WAPP Regional Electricity Market.

Develop electricity market rules such as: bidding process, physical spot market, financial market, clearing and settlement, and power balance mechanisms, including roles, responsibilities and interfaces between organizations.
WAPP Market Design
Market Development is phased in accordance with the **Implementation Road Map** that include condition precedent for the next Market Phase.

- **Phase 1**: From now and 2015 approximately when most regional generation and transmission infrastructure are expected to be commissioned.  
  - Appoint System Market Operator: which will begin developing market operation functions

- **Phase 2**: Formalized market - Short & Medium term electricity exchanges through day ahead market (DAM)

- **Phase 3**: A long term vision of a liquid and competitive market
WAPP Market Rules
9 Chapters & 72 Articles

Containing

- Technical
- Commercial
- Financial
- Settlement
- Regulation
- Legal

- Role & Responsibilities:
  - WAPP ICC ->
    - Control Area Center ->
      - National Control

Chapter I: Introduction and Objectives
Chapter II: General Conditions
Chapter III: The SMO
Chapter IV: The Control Areas
Chapter V: The Domestic TSOs
Chapter VI: Market Phase 1
Chapter VII: Market Phase 2
Chapter VIII: Governance
Chapter IX: Miscellaneous
WAPP Board Resolution 120/RES/.04/10/12
Adopted the WAPP Market Design and WAPP Market Rules, Implementation Road Map
Directive to submit the documents to ERERA for approval
During WAPP Executive Board Meeting held in Cotonou on October 4th, 2012

**REGULATORY APPROVAL**
WAPP Market Design and WAPP Market Rules Implementation Road Map have submitted to ERERA for review and approval
ERERA has approved the Market documents
ERERA has presented the Implementation Road Map to ECOWAS Ministers of Energy Meeting held in Yamoussoukro, May 2013
TRANSITION TO MARKET

- WAPP Board Resolution 120/RES/.04/10/12
- Adopted Resolution relating to ‘Transition of WAPP Information & Coordination Centre to Regional System Market Operator’
- At nineteenth WAPP Executive Board Meeting held in Abuja on November 2, 2012

- General Assembly Decision WAPP/45/DEC.02/11/12
- Made a Decision relating to ‘Transition of WAPP Information & Coordination Centre to Regional System Market Operator’
- At the Seventh Session of General Assembly held in Abuja on 2nd November, 2012
ECOWAS Ministers of Energy a Resolution No 6
Resolution to commence organization of the ECOWAS Electricity Market
At the eighth meeting of ECOWAS Ministers of Energy held in Yamoussoukro on 24th May, 2012.
Recommended to Council of Ministers

Council of Ministers Directive C/DIR.1/06/13
Gave a Directive to commence organization of the ECOWAS Electricity Market
At the seventh Session of Council of Ministers of ECOWAS held in Abidjan on 21st June 2012
Development of Infrastructure
EU has approved 30 million euro grant

Supply and install equipment and software necessary for

- Coordination of system operation,
- Electricity market operation
- Ensuring a reliable communication with Control Centers, WAMS equipment and actors of the electricity market
- Installed in a new building to be erected in Calavi - Cotonou
Supply and install communication equipment and software necessary for the market

Communication network based on an optic fiber network

Ensuring the proper communication rate between the different control centers

Redundancy ensured with the realization of the future interconnections included in the WAPP Master Plan

Including a technical assistance to the ICC and to the regional and national control centers.
Implementation of Market Road Map
REGIONAL ELECTRICITY MARKET

- Gencos
- IPP
- CROSS- BORDER ELECTRICITY TRADING
- Large Consumers
- DISCOs
- National Regulation
- Regional Regulation
- RSMO
Roles and Responsibilities
Support national and control area centres in operation of interconnected system
- Coordination Centre
- Information Centre
- Centre for simulation

Act as transparent and independent regional electricity market operator
- Coordination between the different actors in the region
- Monitor and dispatch the exchanges
- Manage financial transactions
- Put in place Market Rules
Missions of ICC – Additional Roles

Centre of simulation
- Verify the global interconnected network: Criteria N-1, critical Incident,…
- Evaluate maximum capacity transfer (J-1, W-1, M-1)
- Share the results with other company

Centre de Coordination
- Coordination and monitor the reserve capacity et sa répartition
- Monitoring of the network (WAMS - Wide Area Monitoring System) and analyse of incident
- Coordination of maintenance of interconnections
- Coordination and monitor the harmonisation defense plans
- Monitor application of WAPP Operation Manual
- Coordination of medium and long term plan

Centre of Information
- Centralize and put place database
- Develop Network Model
- Archive and share data and system information
FUNCTIONS OF WAPP-SMO (1)

- Regional Markets
- Participant Register
- Billing & Financial Systems
- Market Reports
- Scheduling & Dispatching
- WAPP Datacenter
- Technical Standard
- System Coordination
- Emergency Procedure
- System Reserve
- Settlements
- Contracts
FUNCTIONS OF WAPP-SMO(2)

Data Collection and Processing

Scheduling

Contracting

Dispatching

Billing and Settlement

Market Reports

Info from Discos, Gencos, Bulk Buyers

Matching and tabulating offers from market participants

Confirmation of Agreements by market participants

Transmission of contract requirements to Control Areas for execution by market participants

Verification of actual transactions followed by invoicing and payments

Generation of periodic activity reports on market performance
Challenges
- Transition to the Regional Electricity Market
- Put in place a Market Governance Structure
- Appoint of System Market Operator for implementation of the Regional Electricity Market
- Construct building to house WAPP Information & Coordination Center.
- Construct Communication and Data Communication infrastructure.
- Improve reliability of WAPP Interconnected network
- Capacity Building in Pool Operation and real-time Electricity Trading
Next Activities

- ICC has been appointed as the Regional Market Operator
- EU Grant secured to develop Infrastructure – Building, Communication & Data
- Employ additional to strengthen Human Resources required
- GIZ Funds secured to implement Training Plan -
- Develop Contract templates
- Develop procedures for:
  - for administration of contracts
  - registering of market participants
  - allocation of transmission capacity
- Synchronization of interconnections
WEST AFRICAN POWER POOL
WAPP Secretariat
06 BP 2907
Cotonou, Benin
Tel.  + 229 21 37 41 95
Fax  + 229 21 37 41 96
E-mail  info@ecowapp.org