Introduction

- The Ethiopia Power Sector Master Plan has developed the load forecast and generation planning.
- Based on the master plan GTP II incorporated projects from Hydro, Wind, Geothermal, Solar and Biomass.
- The implementation has assigned for Private sector and Government on EPC base.
- Majority of the projects will develop through IPP/PPP Schemes.
- The need for incorporating the IPP unit has aroused because of the number of projects and to create alignment with MoFEC PPP.
Hydro Power IPP Unit Org.

Human resource requirement
- Feasibility team /Preparatory team 7
  - Engineers & Economist
- Procurement
  - Big HPP 4
    - Engineers
  - Medium HPP 4
    - Engineers
  - Small HPP 4
    - Engineers
Responsibility of Hydro IPP Unit

- Study Feasibility together with IPP Unit, Legal Financial and Technical Advisory
- Update the feasibility study together with IPP Unit, Legal Financial and Technical Advisory
- Prepare RFP, PPA and Geo Technical documents together with IPP Unit, Legal Financial and Technical Advisory
- Give Response to clarification points raised by bidders
- Study-coordinate with other EEP units on Grid connection for projects
- Negotiate PPA and IA in conjunction with PPP Directorate General office of MoFEC & MoWIE
Wind Power IPP Unit Org.

- Wind IPP Office
  - Feasibility Study Office
  - Procurement and negotiation office

Human resource requirement
- Feasibility team /Preparatory team 5
  - Engineers & Economist
- Procurement
  - 4
Responsibility of Wind IPP Unit

- **wind resource assessment**
  - Follow up the resource mapping of the country wind potential for strategic energy planning purposes

- **Identification of potential sites for IPP wind projects**
  - Follow up the ranking and identification of high potential wind areas using standard ranking methodology in coordination with Legal, Financial and Technical Advisory
  - Ensure a well-coordinated generation and transmission plans for proper prioritization of wind sites;
  - Conduct site visits on the sites identified to support the detailed assessment of each site

- Follow up system integration studies for the prioritized wind resource sites;
Responsibility of Wind IPP Unit

- High quality wind data for IPP auctions
  - Follow up the implementation of on-site measurement campaigns
  - Prioritize and start on-site wind measurement campaigns for IPP tenders on the sites identified by the prefeasibility study
  - Ensure that wind measurement campaigns will always comply with IEC 61400-12 standards and MEASNET guidelines
  - Undertake topographical surveys in prioritized sites and ensure the inclusion of it in tender documents;
  - Prepare RFP documents including the PPA, The IA and the CA in collaboration with MoWIE, MoFEC and other relevant government bodies;
  - Make sure that geotechnical and topographic data for IPP wind sites are part of tender documents

- Study ESIA and RAP together with Environmental & Social Support Office

- Assist the developer by liaising with different government bodies in land acquisition;

- Negotiate PPA and IA in conjunction with PPP of MoFEC & MoWIE
Solar Power IPP Unit Org.

Human resource requirement
• Feasibility team/Preparatory team 5
  • Engineers & Economist
• Procurement
  • 4
Responsibility of Solar IPP Unit

- **Solar resource assessment**
  - Map country Solar potential for strategic energy planning purposes

- **Solar data for IPP auctions**
  - Follow up the implementation of on-site data measurement
  - Prepare RFP documents including the PPA, The IA and the CA in-collaboration with MoWIE, MoFEC and other relevant government bodies;
  - Make sure that geotechnical data for IPP Solar sites are part of tender documents

- **Study ESIA and RAP together with Environmental & Social Support Office**
--- Responsibility of Solar IPP Unit

- Identification of potential sites for IPP solar projects
  - Follow up the ranking and identification of high potential Solar areas using standard ranking methodology in coordination with Legal Financial and Technical Advisory
  - Ensure a well-coordinated generation and transmission plans for proper prioritization of solar sites;
  - Conduct site visits on the sites identified to support the detailed assessment of each site

- Assist the developer by liaising with different government bodies in land acquisition;

- Study ESIA and RAP together with Environmental & Social Support Office

- Negotiate PPA and IA in conjunction with PPP of MoFEC & MoWIE
Geothermal Power IPP Unit Org.

Human resource requirement
• Feasibility team /Preparatory team 5
  • Engineers & Economist
• Procurement
  • 4
Responsibility of Geothermal IPP Unit

• Coordinate on the verification of exploration result on the existing under negotiation geothermal projects with , Legal Financial and Technical Advisory Administration support Office
• Coordinate with GSE and , Legal Financial and Technical Advisory Administration support Office to perform exploration
• Prepare RFP, PPA and Geo Technical documents together with IPP Unit , Legal Financial and Technical Advisory
• Response to clarification points raised by bidders
• Study/coordinate with other EEP units on Grid connection for projects
• Follow up the satisfaction of the condition precedent for effectiveness of already signed PPA and IA agreements in conjunction with MoWIE and MoFEC
• Negotiate PPA and IA in conjunction with PPP of MoFEC & MoWIE
Human resource requirement

- Environmental & Social Support 7
  - Environmentalist
  - Sociologist
- IPP Unit Advisory administration Office 9
  - Technical
  - Legal
  - Financial
### Environmental & Advisory Administration Support unit

- Coordinate with all IPP units Regarding the study of ESIA and RAP
- Participate in the monitoring and Evaluation the proper implementation of the ESIA and RAP by the IPP developers
- Develop Environmental frame work and perform monitoring and Evaluation
- Managing and administrating the pool of Technical, Financial and Legal support
  - Financial Advisor by World Bank
  - Firm level legal Advisor by the World Bank
  - Power Africa various technical and Transaction Advisor
- Gives administration support for the whole IPP teams
Advantages of the new organization

- Differentiate the activities of Strategy and Investment from the IPP routine activities
- It create a foundation for self reliance through time
- Create smooth communication with MoFEC, MoWIE, EEA and other stakeholders

Challenges

- The new organization needs around 70 staffs currently only the team leaders for Hydro, Wind, Geothermal and solar are assigned
- EEP’s process for staffing the offices usually takes long time
- There is lack of sufficient skilled man power to work as counter part with advisors.
I THANK YOU