

ETHIOPIAN ELECTRIC POWER



IPP UNIT ORGANIZATION

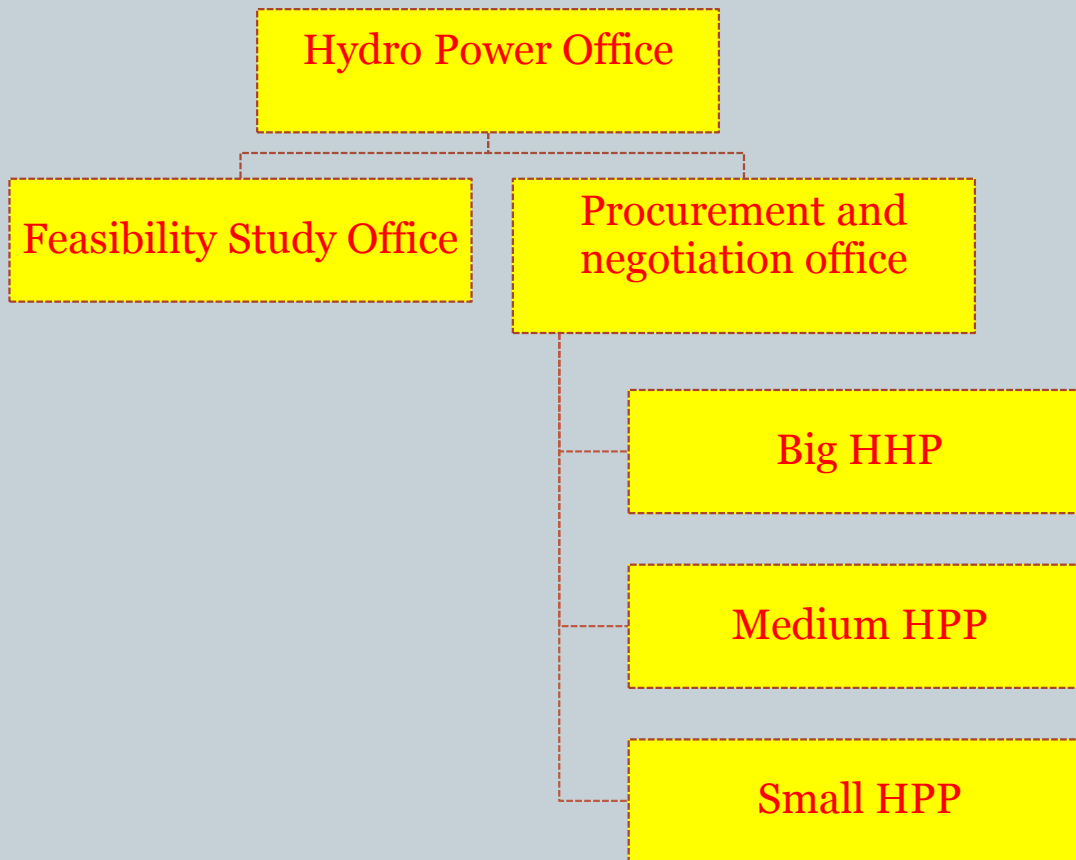
MARCH, 2018

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

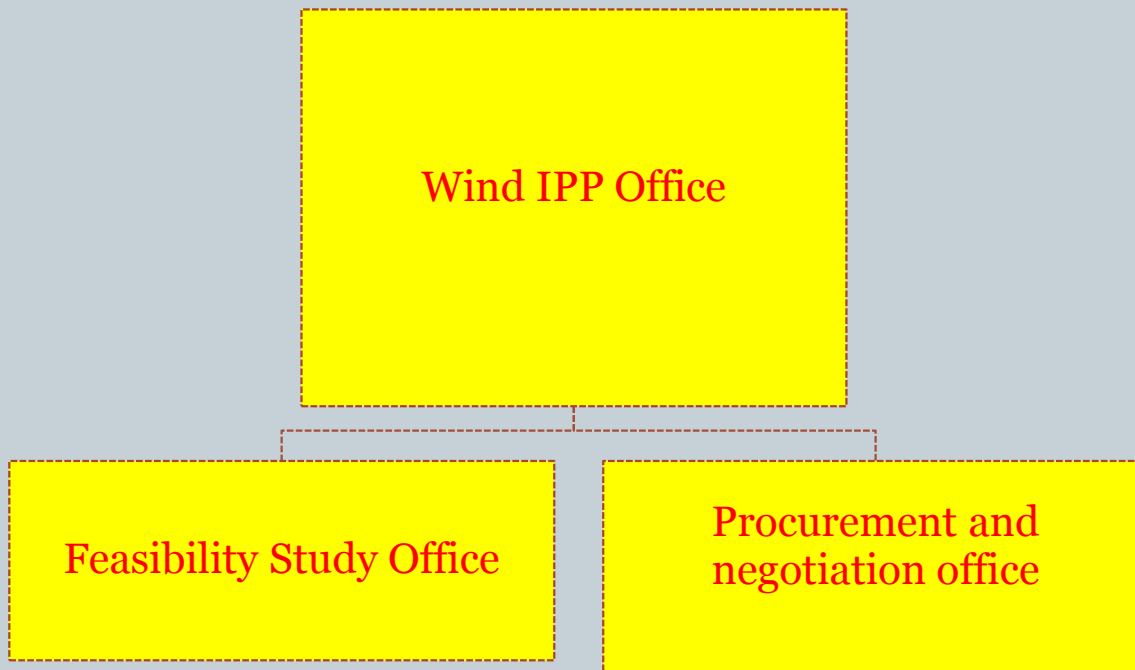
- Feasibility team / Preparatory team 7
 - Engineers & Economist
- Procurement
 - Big HPP 4
 - Engineers
 - Medium HPP 4
 - Engineers
 - Small HPP 4
 - Engineers

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.



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.



Solar IPP Office

Feasibility Study Office

Procurement and
negotiation office

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 by 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.



Geothermal IPP Office

Feasibility Study Office

Procurement and
negotiation office

Human resource requirement

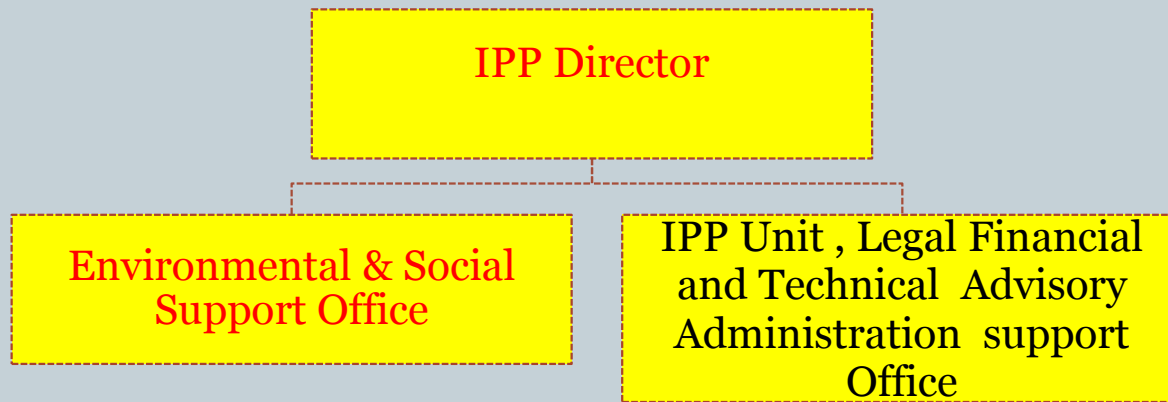
- Feasibility team
/Preparatory team 5
 - Engineers &
Economist
- Procurement
 - 4

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

Environmental & Advisory Administration Support unit Org.



Human resource requirement

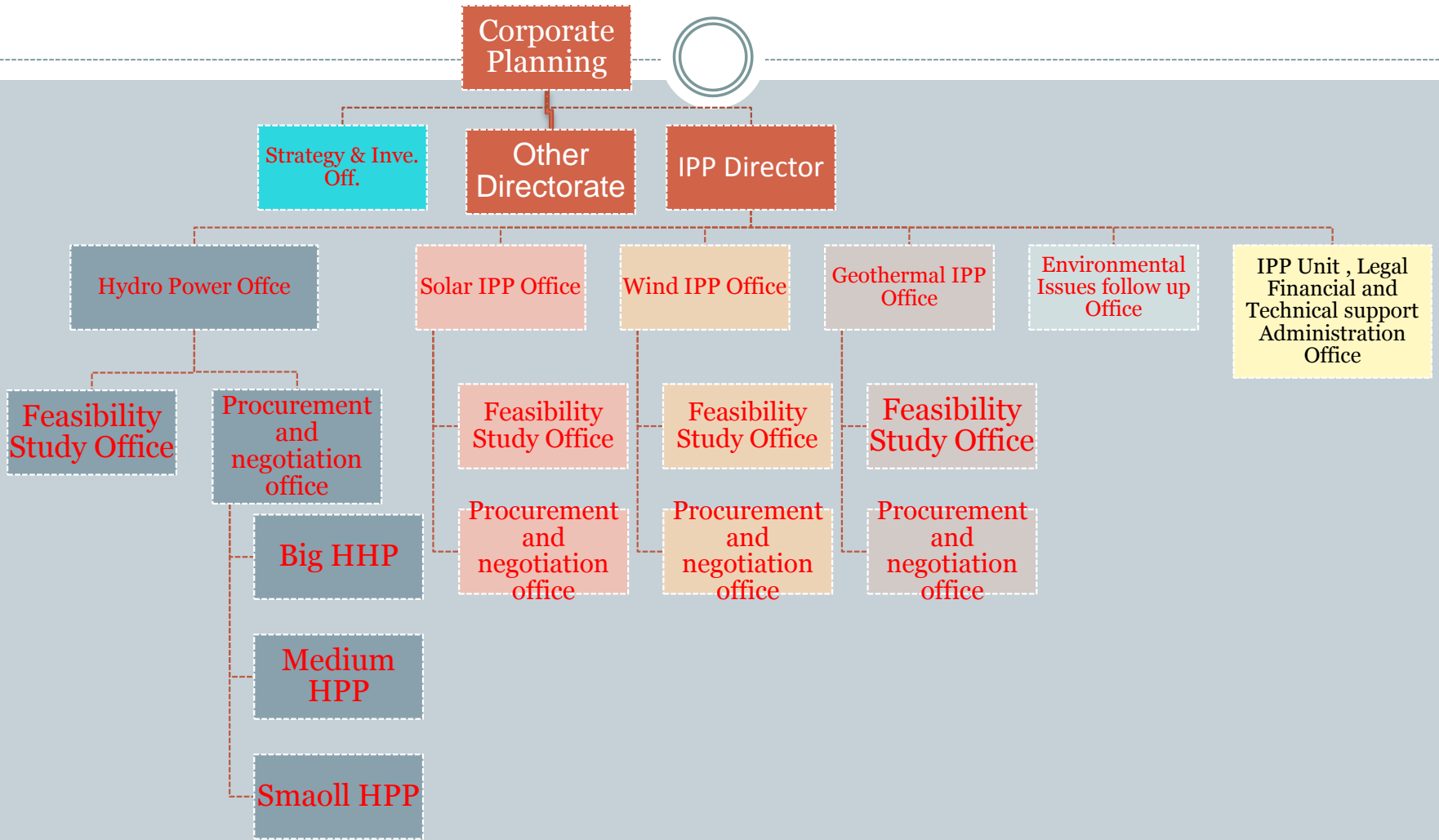
- Environmental & Social Support 7
 - Environmentalist, Sociologist
- IPP Unit Advisory administration Office 9
 - Technical
 - legal
 - Financial

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