

The 16th FNCA Ministerial Level Meeting (MLM)

Trends and Challenges in National Nuclear Energy Policy

7-8 December 2015

Engr. Md. Monirul Islam
Chairman, Bangladesh Atomic Energy Commission

Introduction

- To achieve the country's **vision of 2021** and **2041** to become a **higher middle-income**, **electricity demand requires growth at a rate of 9 -12 %**;
- “Electricity for all by 2021” is a vision of our country;
- **Fuel diversification** of, and access to, clean and more efficient sources of energy” is adopted as a strategy for **the Post-2015 Development of Bangladesh**;
- **Power System Master Plan (PSMP) projected** the electricity generation about 24,000 MW by 2021 and 40,000 by 2030
- **Current Installed capacity: 11,877 (as of October 2015)**
Peak Load : 8000 MW

Power Generation Plan: Primary Fuel Sources by 2030

Sl. No.	Description	Capacity (MW)	%	Possible Location (s)
1	Domestic Coal	11,250	51	North West Region at Mine Mouth
2	Imported Coal	8,400		Chittagong and Khulna
3	Domestic Gas/LNG	8,850	23	Gas- Near Load Centers LNG- Near Costal Area
4	Regional Grid	3,500	9	Bahrampur - Bheramara, Silchar - Fenchuganj, Purnia- Barapukuria- Bongaigaon, etc.
5	Nuclear Energy	4,000	10	Rooppur NPP Site and another site
6	Others (Oil, Hydro and Renewable)	2,700	7	Near Load Centers
Total		38,700		

- **The National Parliament passed a resolution in 2010 : “In order to overcome the increasing power crisis in the country nuclear power plant shall be established immediately”;**
- **Nuclear energy can only be implemented within an appropriate work, establishment of a technical, legal and institutional framework and with strong government commitment;**
- **Decision taken to build the country’s first NPP, the Rooppur NPP through bilateral cooperation with Russian Federation;**

- **A Framework Agreement on Peaceful Uses of Atomic Energy** between the government of Bangladesh the Russian Federation signed on 21st May 2010;
- **A Cooperation Agreement Concerning the Construction of a Nuclear Power Plant** between Russian Federation and Bangladesh signed on 2 November, 2011.

Customer

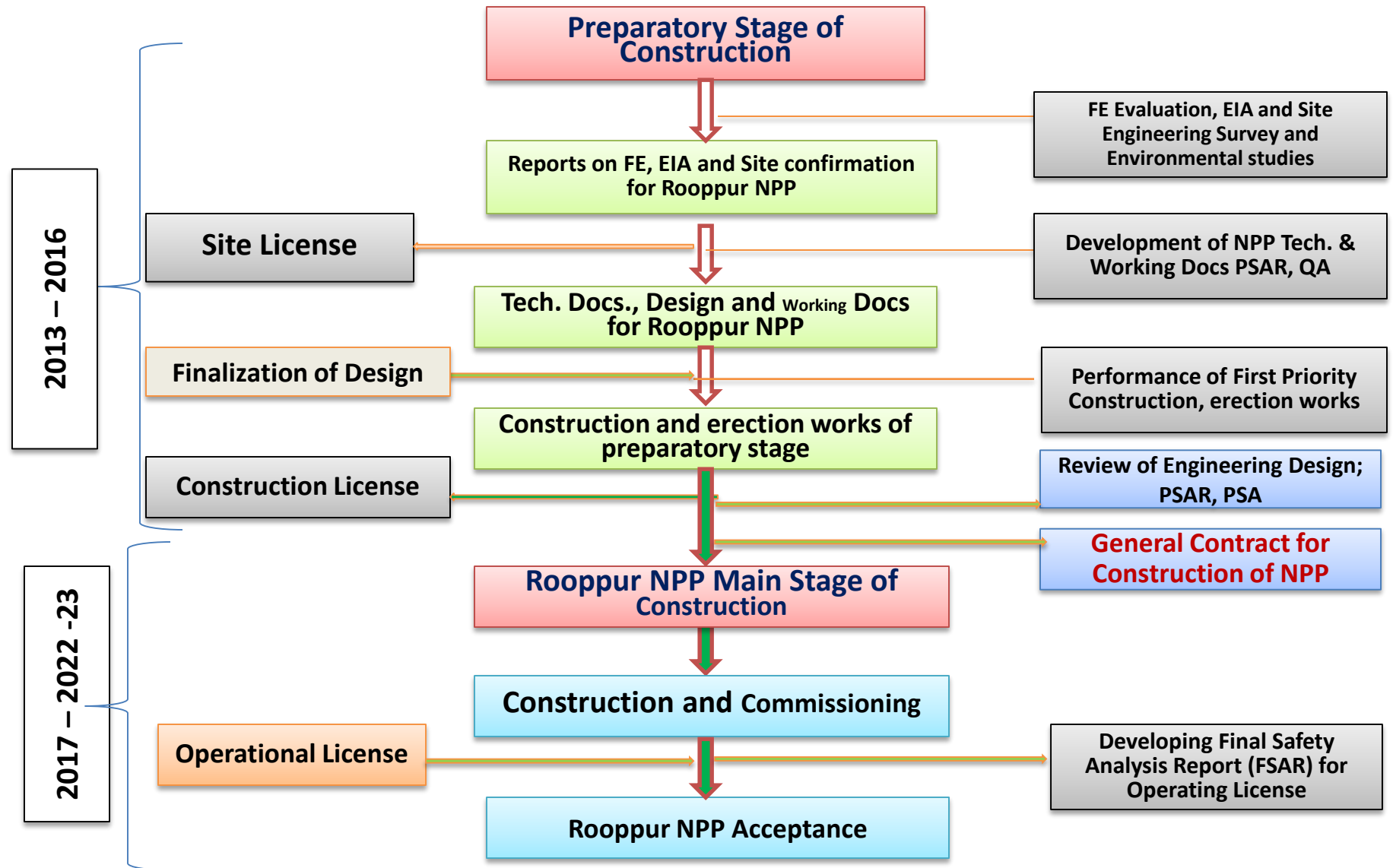
- **Bangladesh Atomic Energy Commission**
- **MOST is the Competent Authority**

Contractor

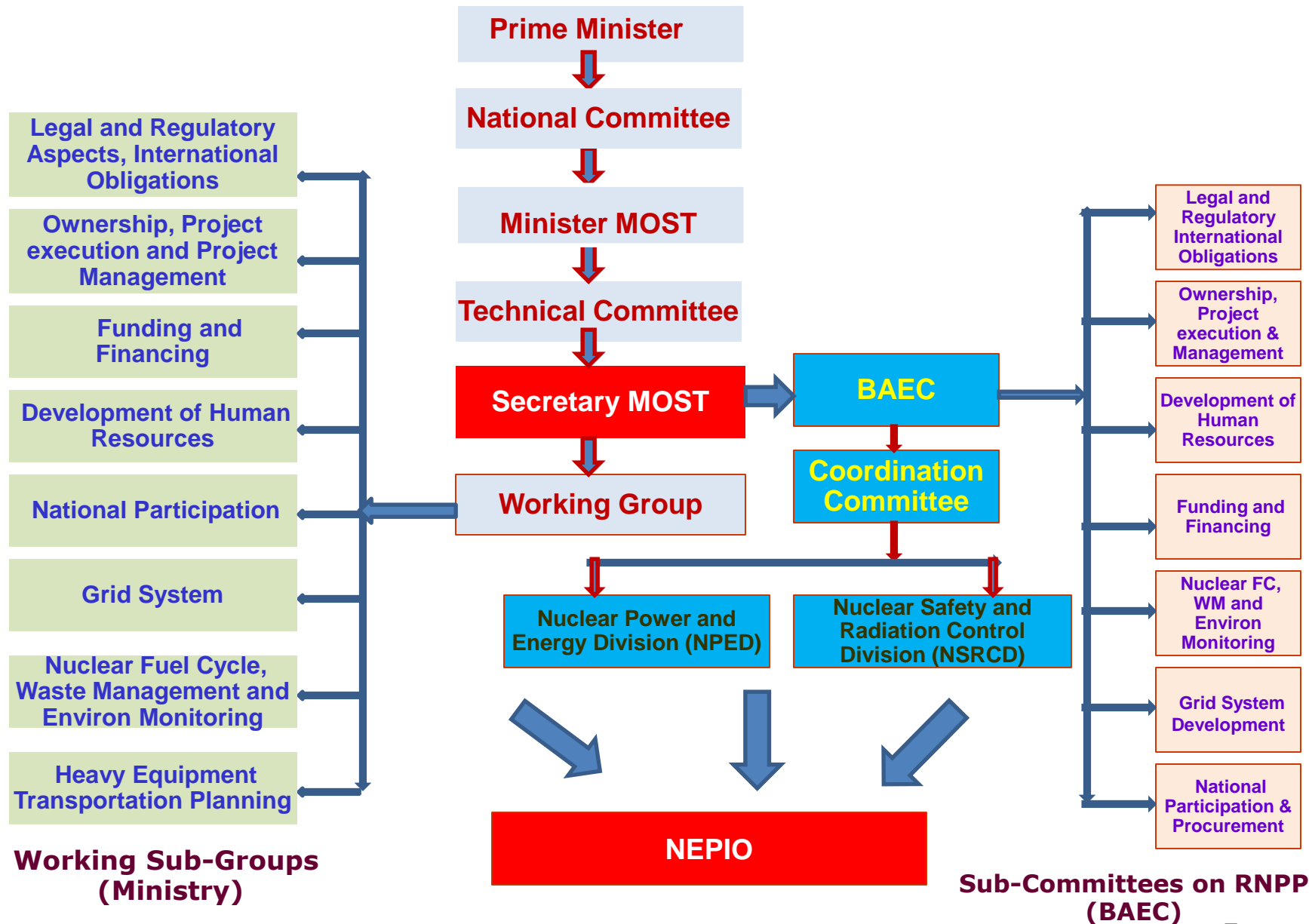
- **JSC Atomstroyexport**
- **ROSATOM is the Competent Authority**



Two Stages of Rooppur NPP Construction



Power Infrastructure Development



Challenges

□ Conditions in Bangladesh:

- No nuclear units in under construction or operation
- Not sufficiently developed nuclear infrastructure
- Lack or insufficient project management experience
- Safety culture is still to be cultivated
- NPP Project management system is to be developed

Conclusions

- ❑ Bangladesh faces a huge challenge in implementing the Rooppur NPP and its total nuclear power;
- ❑ Practical steps towards building “Rooppur NPP” by 2022-2023 have been taken;
- ❑ A preliminary assessment has been chalked out a plan to find out methods that can be applied to find out our gaps and then fill them up;
- ❑ Bangladesh seeks cooperation in the form of bilateral arrangements in establishing infrastructure for “Rooppur NPP” building;

**Thank you for your
kind attention !!**