

Long-Term Energy Scenarios (LTES) for developing national energy transition plans in Asia.

Webinar series

[Renewable Energy Planning in Korea]

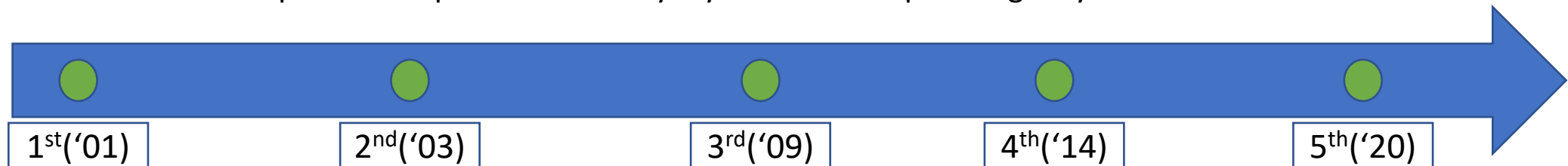
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Background

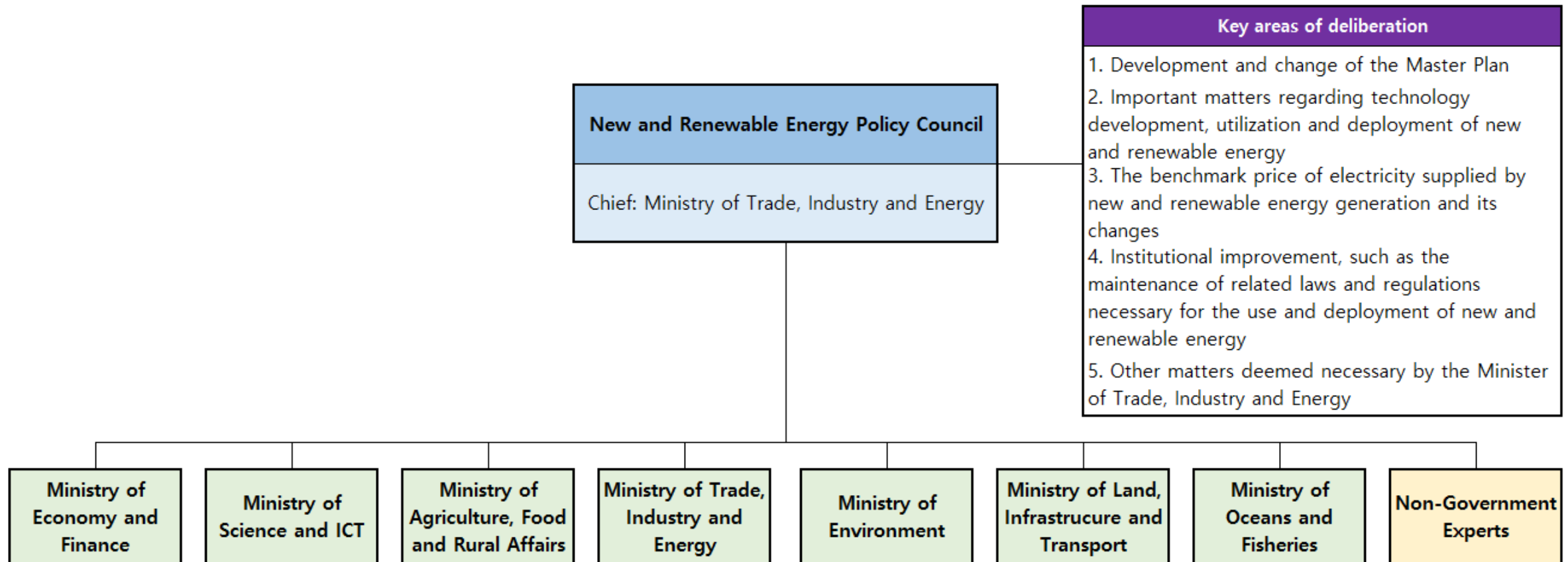
- Energy plan: New & Renewable Energy Master Plan (Master Plan)
- Legal basis:
 - New and Renewable Energy Development, Utilization and Deployment Promotion Act
- Master Plan period and planning cycle:
 - Developed and implemented every 5 years for the upcoming 10 years or more



- Planning procedure:
 1. Initiating research to establish the Master Plan
 2. Organizing and operating a private working group
 3. Gathering of opinion and feedback
 4. Government proposal announcement, deliberation and confirmation
- Institution responsible for the New & Renewable Energy Master Plan
 - Ministry of Trade, Industry and Energy

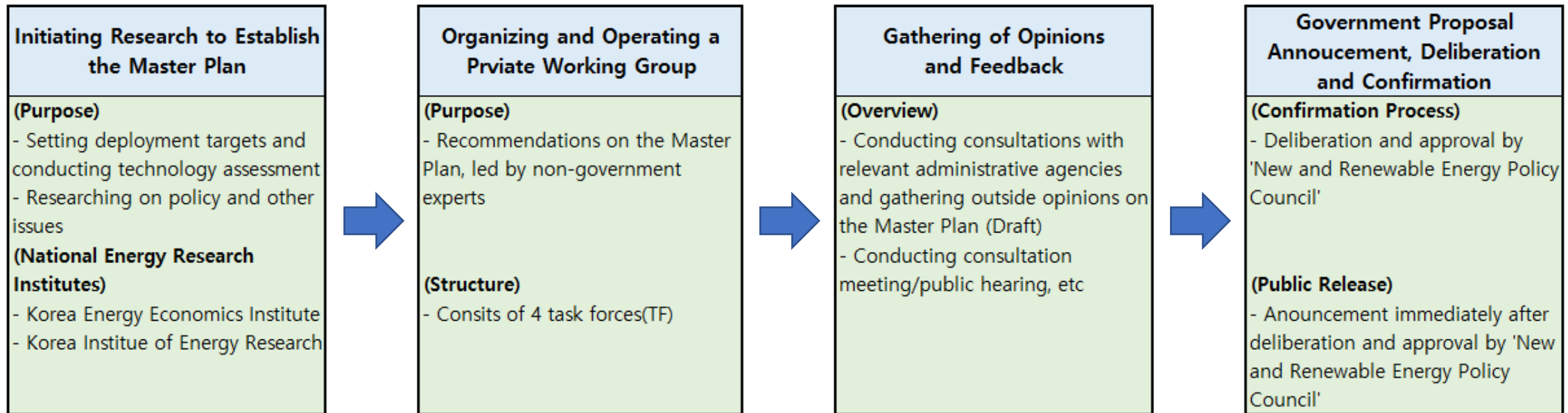
Development of the Master Plan

Governance Structure



Development of the Master Plan

Planning Procedure



ex) 5th the Master Plan

TF Classification	Key roles and main agendas
General TF	- Setting a vision and goals, exploring agendas, aligning issues
Deployment TF	- Adjustment of deployment targets by energy source and heat/transport/electricity mix - Exploration of new deployment policies
Industry·Jobs TF	- Establishment of renewable energy industry goals and development strategies - Establishment of job creation strategies in the new and renewable energy sector
Participation TF	- Development of citizen/corporate participation programs - Governance reform including role sharing with local governments

Development of the Master Plan

Boundary

1. Goals and period of the Master Plan
2. Goals of technology development, utilization, and deployment for each new and renewable energy source
3. Goals for the proportion of new and renewable energy generation in total electricity production
4. Greenhouse gas emission reduction goal
5. Implementation methods of the Master Plan
6. Evaluation of new and renewable energy technology level, deployment prospects and expected effects
7. Support plan for new and renewable energy technology development, use and deployment
8. Professionals training plan in the new and renewable energy field
9. Evaluation of the previous Master Plan
10. Other matters deemed necessary by the Minister of Trade, Industry and Energy to achieve the goals of the Master Plan

Use of the Master Plan

Purpose

- Setting goals and tasks
- Maintaining consistency with other national energy plans
- Setting the target year's new and renewable energy deployment targets
- Presenting the vision, implementation strategy, and detailed implementation tasks to achieve these goals
- Presenting individual technology development goals and an integrated technology development roadmap

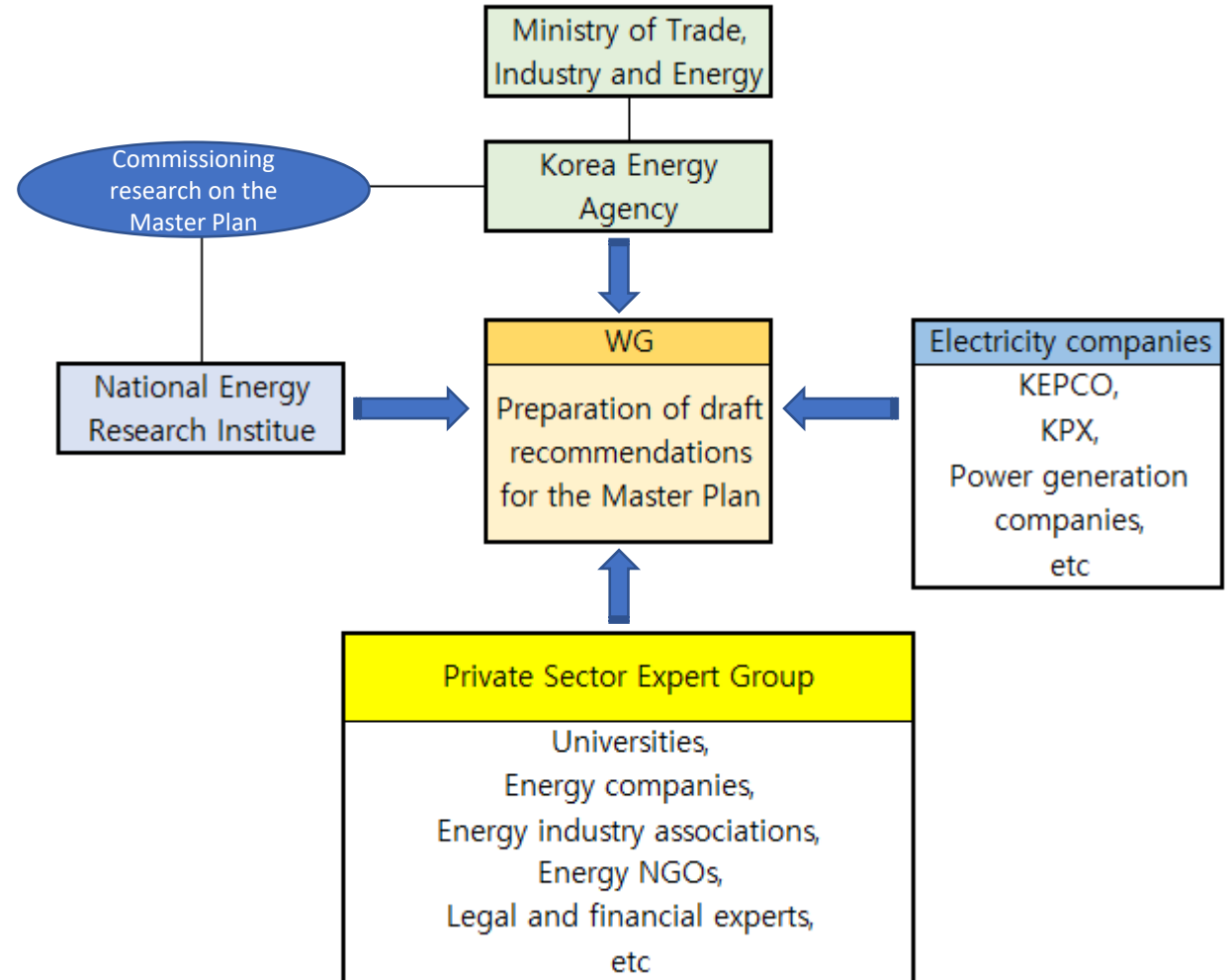
Communication of results

- Collecting opinions from relevant ministries
- Holding consultation meetings and public hearings for stakeholders
- Presentation and publication of the New and Renewable Energy Master Plan
- Evaluation of the implementation status of the previous Master Plan
- Modification of the Master Plan reflecting changes in market conditions and policy objectives (Not a mandatory requirement)

Master Plan Capacity Building

Planning capacity

- Enhancing the Master Plan capability through an expert working group
- Government:
 1. Commissioning research on the Mater Plan to a national energy research institute
 2. Forming a private sector-led Working Group
- National energy policy research institute:
 - Korea Energy Economics Institute, Korea Institute of Energy Research, etc.
 1. Publish numerous energy policy and technology reports
 2. Analyze domestic and international trends of policies, markets, and technologies
 3. Operate LCOE and potential capacity estimation models



Thank you for your attention



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