

Status quo Report of Energy Transition in ERRA Member Countries

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Questionnaire for ERRA Status Quo Report on Regulatory Energy Transition

- Status Quo Report → aims at defining key milestones of ERRA member countries' gradual and steady transformation of the respective energy sectors from fossil fuels to clean energy resources.
- Survey → forms the basis for a status quo report by identifying regulatory and policy practices of ERRA Member countries in the context of energy transition.
- Survey covers;
 - Current situation
 - Opportunities & Challenges
 - Variable renewable energy sources
 - Other energy transition concepts
 - Organisational structure



Questions_Current situation

1. Has your country addressed the energy transition process in a specific national strategy? If yes, please briefly explain the strategic goals of the process and declarative dates for specific targets
2. Is there a deadline to achieve net-zero in your country?
3. What are the key motivations standing behind the energy transition in your country? Please indicate the major reasons from domestic perspective
 - Climate change
 - Hydrogen demand
 - Sustainability needs
 - Security of Supply
 - Other, please describe below:
 - New investment opportunities
 - Rising costs of fossil fuels
 - Energy crisis
 - Obligation to comply with EU legislation

Questions_Current situation

4. Please briefly explain what fundamental steps (legal acts and bills, administrative decisions and other legally binding steps) have been taken with regards to:

- Phasing out fossil fuels?
- Facilitating deployment of renewables?
- Nuclear power?
- Other clean energy sources?

5. Which technology does decarbonisation in your country mainly depend on?

- Wind
- Solar
- Hydro
- Biomass
- Biomethane
- Energy recovery from waste
- Geothermal energy
- Natural gas
- Nuclear
- Hybrid plants, please describe below:
- Other, please describe below:

Questions_Current situation

6. Please describe the incentives for renewable energy sources (RES) if any.

- RES deployment support schemes (e.g., FiT, FiP, auctions)
- Phase-out of fossil fuel subsidies
- Increased investment in energy infrastructure to improve grid resilience
- Plans to change existing gas networks with renewable gases
- Supporting prosumers and decentralized generation
- Facilitate getting financial loans for establishment of power plants using clean energy
- Making EVs more preferable (e.g., Tax incentives...)
- Other, please describe below:

7. Are there any incentives for fossil fuels? (e.g., Some countries still have incentives for coal power plants)

8. Is there a policy or strategic target to abandon fossil fuels for electricity generation?

Questions_Current situation

9. How did installed capacity change after introduction of energy transition policies?
10. Is there an energy efficiency policy or strategic target in your country? If yes, does your organisation have any role regarding energy efficiency?
11. Is there any pilot program/regulatory sandbox for experimenting innovations/new policies in your country?
12. Grid development is a key enabler for the successful energy transition via decentralized energy system. Does your organization implement regulations that would foster/incentivize grid development? If yes, what are the means used in this respect? Please describe any tariff measures/support schemes or any other solutions in place.

Questions_Opportunities & Challenges

13. What are the challenges your country faces during energy transition process? Which do you think is the biggest barrier? Please choose up to 3 options.

- Inadequate human and institutional capacity
- Social resistance
- Lack of finance
- Loss of jobs
- Electricity pricing
- The interests of the mining/petroleum sector
- High costs of renewable energy investment
- Grid resilience/system balancing
- Other, please explain below:

Questions_Opportunities & Challenges

14. To facilitate energy transition process, which factor/s will be considered in electricity sector in your country?

- Roll out of RES
- Phase-out of coal
- Distributed generation
- Establishment of power exchange
- Demand side response to ensure flexibility
- Supply side management
- Other, please describe below:

Questions_Opportunities & Challenges

15. Which new technologies/solutions are used in your country?

- Hydrogen
- Carbon Capture, Utilisation and Storage (CCUS)
- Electrification
- Energy efficiency measures
- Direct air capture (DAC)
- Energy storage systems
- Smart grids
- Other, please explain below:

Questions_Variable renewable energy sources

16. With the increased participation of variable renewable energy sources, how do you manage to provide flexibility in your country?

- Balancing short term variable generation from wind and PVs
- Efficient operation of day ahead markets to manage changes in net load
- Adequacy of power system in case of unavailability of renewable generation (Unexpected)
- Adequacy of power system in case of seasonal unavailability of renewable generation like electricity generation from hydroelectric plants during summer (Expected)
- Quality of the primary frequency response and frequency stability
- Other, please explain below:

17. Which measures should be included to integrate large variable renewable energy sources into the system in your country?

- Roll out of smart grids
- Functional organised markets
- Transmission (TSO) and distribution (DSO) grid investments
- Interconnections with other countries
- Other, please explain below:

Questions_Other energy transition concepts

18. Is any of the following in effect in your country? Please check the related regulation.

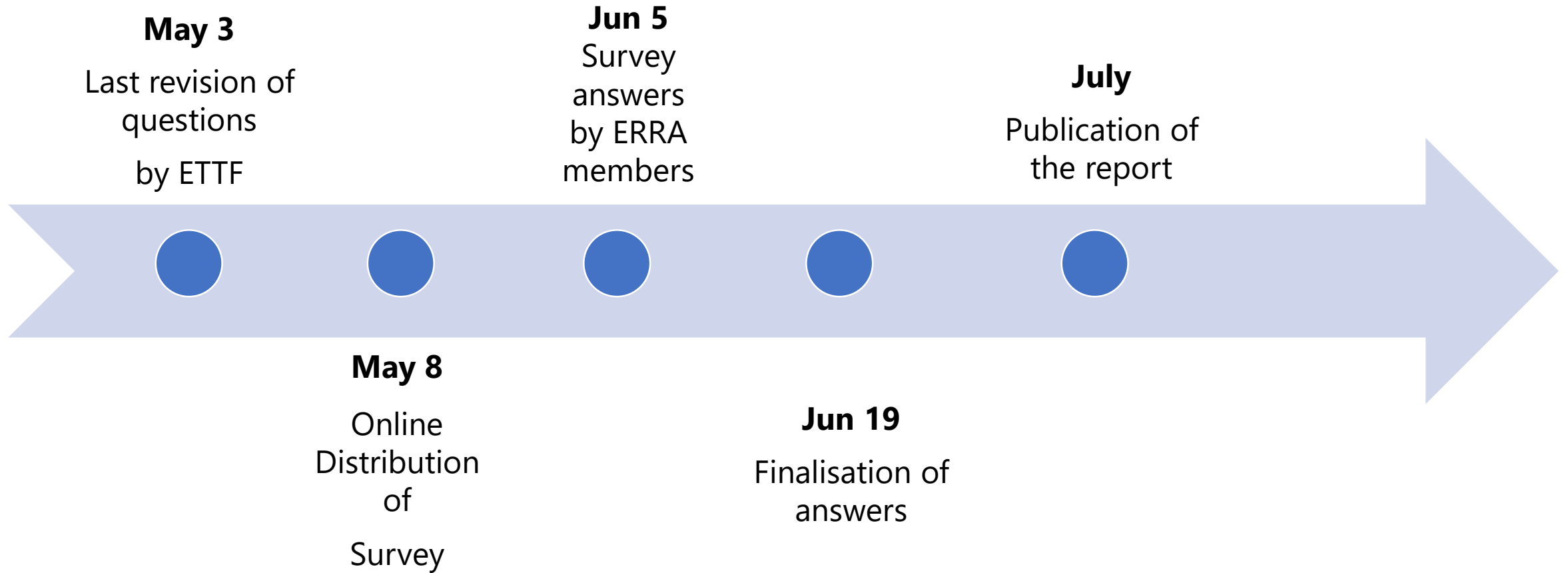
- Regulation regarding energy storage in your country
- Supporting tariff for prosumers
- Regulation on hydrogen
- Regulation for EV charging points
- Regulation enabling smart grids
- Other, please describe below:

19. What is your country's transition fuel , if at all?

Questions_Organisational structure

20. Is there a dedicated department/unit/team for energy transition in your organisation? If so, how many people are working specifically on energy transition issues? What are their core responsibilities? If there is no such department/unit/team, are there plans to establish one?

Timeline



**THANK YOU
FOR YOUR ATTENTION**

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