STUDY ON FLEXIBILITY OPTIONS TO SUPPORT DECARBONISATION IN THE ENERGY COMMUNITY

Security of Supply Coordination Group (electricity) meeting
02. 07. 2021.

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TENDER PUBLISHED: 15-06-2021

- eProcurement,
- Austrian Law,
- auftrag.at

DEADLINE FOR BIDS: 23-07-2021 (10am, CET)

VALUE:

- Approx. 140 man-days
- < 214 000 EUR

EXECUTION: 01-09-2021 till the end of April 2022 (8 months)
**DECARBONISATION PROCESS EXPECTED IN THE EnC CPs**
- Political support (Paris agreement, Sofia declaration)
- 2030 climate and energy targets and CEP
- Carbon pricing and ETS (EnC Decarbonisation Roadmap)
- Carbon border tax adjustment mechanism (EC proposal on 14 July)

**EXPECTED TIMEFRAME: 2030 and beyond**

**COAL FIRED POWER PLANTS PHASE-OUT**
- EnC legal obligation (LCPD and IED)
- High carbon price (>50 EUR/t)
- No financial support from IFI

**INTEGRATION OF VARIABLE RENEWABLES (wind, solar)**

**BALANCING ISSUES WILL INTENSIFY IN THE FUTURE**
ABILITY OF ALL POWER SYSTEM RESOURCES/FACILITIES TO ADJUST THE ELECTRICITY OUTPUT AND CONSUMPTION TO MAINTAIN NOMINAL FREQUENCY AT ALL TIMES

• generation,
• storage,
• interconnectors,
• demand-response.

SPECIFIC QUESTIONS:

• What is existing flexibility potential in the CPs?
• What additional flexibility is needed in 2030 and 2040 for three RES integration scenarios (baseline, moderate and high RES integration)?
• What may be a role of integrated systems and markets in providing flexibility?
ANALYSE ALL AVAILABLE TECHNICAL AND NON-TECHNICAL SOURCES OF FLEXIBILITY

EVALUATE CURRENT FLEXIBILITY SOURCES UTILISED, NEEDS, POSSIBLE GAPS AND COSTS OF PROCUREMENT

EVALUATE THE EXISTING FLEXIBILITY POTENTIAL AND FUTURE NEEDS FOR ADDITIONAL FLEXIBILITY IN 2030 AND IN 2040 IN EACH CP

RECOMMEND AN OPTIMAL SET OF SOLUTIONS, INCLUDING TECHNOLOGIES, POLICY INSTRUMENTS AND REGULATORY MEASURES

RECOMMEND IMPROVEMENTS OF THE LEGAL, REGULATORY AND INSTITUTIONAL FRAMEWORK, IN PARTICULAR RELATED TO THE MARKET DESIGN, NECESSARY FOR THE IMPLEMENTATION OF THE OPTIMAL FLEXIBILITY SCENARIO, FOR EACH CP
THANK YOU FOR YOUR ATTENTION

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