

# STUDY ON FLEXIBILITY OPTIONS TO SUPPORT DECARBONISATION IN THE ENERGY COMMUNITY

Security of Supply Coordination Group (electricity) meeting  
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- 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)**

## Übersicht-Veröffentlichung

**Titel:** Study on flexibility options to support decarbonisation in the Energy Community

**Beschreibung:** The objective of this study is to comprehensively assess flexibility needs and solutions in the power systems of the Energy Community Contracting Parties, and to propose solutions that will facilitate renewable energy sources integration and transition to the carbon-neutral energy sector in different scenarios for the Energy Community Contracting Parties in a cost-efficient and secure way. The term "flexibility" in this context means the ability of all power system resources/facilities, including generation, storage, interconnectors, and demand-response, to adjust the electricity output and consumption to maintain nominal frequency at all times.

**Bekanntmachungsart:** Bekanntmachung

**Veröffentlicht am:** 14.06.2021

**Dokumentnummer:** L-792936-1610

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### Ausschreibungsunterlagen

Dokument	Hochgeladen am	Dateigröße	Bemerkung
 IAU.pdf	30.06.2021 14:50	69,3 KB	Index tender documents (active)
 Questions and Answers on the Tender Documents_2.pdf	30.06.2021 14:49	155,5 KB	
 Questions and Answers on the Tender Documents_1.pdf	22.06.2021 10:18	106,2 KB	
 P-215346-RD01-vorlage.pdf	10.06.2021 12:45	151,6 KB	
 Your Guide to Submitting a Tender_open.pdf	10.06.2021 12:01	548,3 KB	
 ANNEX 4 - Financial Proposal - Submission Form.docx	10.06.2021 12:01	83,4 KB	
 ANNEX 3 - Technical Proposal - Submission Form.docx	10.06.2021 12:00	71,4 KB	
 ANNEX 2 - Declaration in relation to exclusion criteria and absence of conflict of interest.docx	10.06.2021 12:00	61,6 KB	
 ANNEX 1 - Bidder Identity Form.docx	10.06.2021 12:00	59,1 KB	
 ECS_PN01_2021_Flexibility Study_Tender Documents.pdf	10.06.2021 12:00	677,6 KB	

## 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)

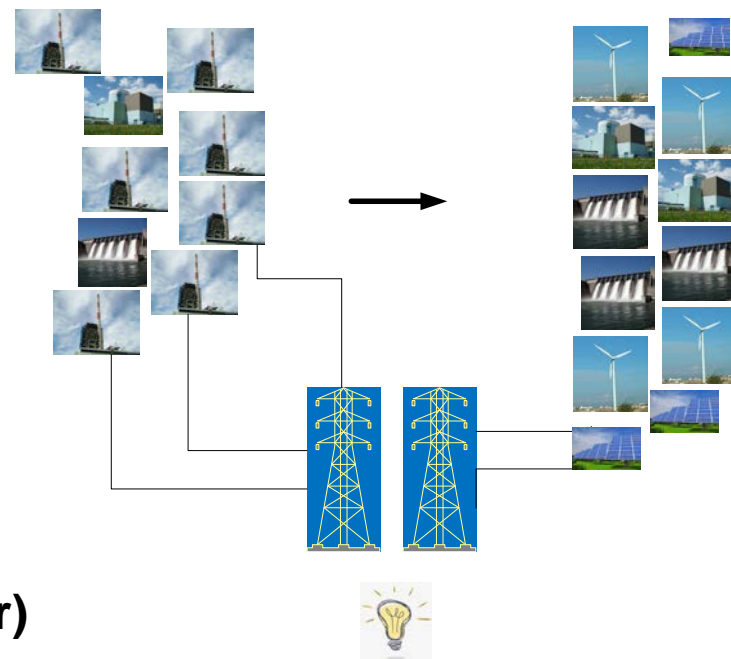
**EXPECTED TIMEFRAME: 2030 and beyond**

## 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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