

South-East Europe Electricity Roadmap

Network assessment workshop - Introduction

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SEERMAP Network Training

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Project title	South East European Electricity Roadmap				
Country/region of implementation	Albania, Bosnia and Herzegovina, Kosovo*, Montenegro, Macedonia, Serbia, Romania, Bulgaria, Greece				
Project cycle:	July 2016 June 2017				
Donors:	Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management				
	European Climate Foundation				
Web:	www.seermap.rekk.hu				

Goals of the project



Modelling	 Analyse the impact of the transition to a low carbon and energy secure pathway the electricity sector until 2050 in line with EU 2050 Roadmap (<i>Long Term Electricity Roadmap for the SEE region</i>) that highlights the potential synergies beyond the limited confines of national assessments Application of state of the art energy sector models of the participating consortia partners (electricity and gas sector market models of REKK, Green-X of Technical University of Vienna and the regional electricity network model of EKC) 	
	 Effectively distribute the findings of this roadmap to the high level decision- makers in the energy administration of the countries 	
Dialogue and capacity	 Build up capacities – in the form of training courses - amongst policy makers, TSO members, energy regulators and local think tanks in the field of renewable energy deployment and transmission network planning issues 	
building	 Build up a network of regional think tanks capable of contributing to the debate on the long term decarbonisation pathways in the SEE region 	
	 Trigger discussions on electricity scenarios at a national level 	



Consortia and Local Partners

Consortium partners	Task	
Regional Centre for Energy Policy Research (REKK) Budapest, Hungary	Overall coordination, electricity and gas sector modelling	
Technical University (TU Wien) Vienna, Austria	Renewable deployment modelling with GREEN-X model	
Electricity Coordinating Centre (EKC) Belgrade, Serbia	Network modelling	
OG Research (Czech Republic)	Macroeconomic assessment	
Energy Regulators Regional Association (ERRA)	Trainings	

Country	Local partner organisation		
Serbia	RES Foundation		
Albania	POLIS University		
Macedonia	MACEF – Macedonian Center for Energy Efficiency		
Montenegro	IPER - Institute for Entrepreneurship and Economic Development		
Kosovo*	INDEP – Institute for Development Policy		
Bosnia	Enova		
Romania	Energy Policy Group		
Bulgaria	Center for Democracy		
Greece	FACETS	4	

Benefits of increasing interconnection capacities



- Competitiveness
 - higher transfer capacities would result in price convergence amongst the markets
- Security of supply
 - increasing capacity might help to avoid black-outs in the national electricity systems
- Sustainability
 - higher transmission capacities would allow increased electricity flows generated by RES-E producers in lowcost generating zones to the higher priced load centres.
- Balancing service
 - import system balancing services from neighbouring countries

Agenda of the course 1



South-East Europe Electricity Roadmap

	Day 1: Network characteristics and		Day 2: Assessing transmission network		Day 3: Low carbon
	regulation		expansion		electricity transition and
					challenges
9.00-	Introduction	9.00-	Introduction to transmission network	9.00-	Round table - Local
10.30	<mark>(REKK -Szabó) (45 min)</mark>	10.30	assessment methodology:	10.30	partners presentation on
	Introduction to transmission network		-ENTSO-E CBA methodology		the 2 nd day exercise work
	characteristics - technical features:		-PECI process		(<mark>Local Partners/REKK –</mark>
	 physical vs commercial flows 		(<mark>REKK/P. Kaderjak</mark>)		Felsmann/Szabó)
	 losses and system quality 				
	(<mark>EKC -Markovic: 45 minutes)</mark>				
	Coffee break		Coffee break		Coffee break
11.00-	Interconnectors lines (Cross-Border Capacity,	11.00-	1. Assessing the impacts of network expansion -	10.30-	SEE-CAO: How is the SEE
12.30	CBC)	12.30	Case study presentation on modelling and	12.00	CBC allocation works?
	- Main regulatory issues		assessment:		<mark>(Elton Radheshi OST</mark>)
	- Capacity allocation methods: from NTC to		Technical impacts:		
	coupled markets		- reliability/flexibility		
	- Investment and financing in CBC		- impact on NTC and on loss reduction		
	(<mark>REKK Szabó</mark>)		- ENS impacts (<mark>EKC -Markovic</mark>)		
	Lunch break		Lunch break		Lunch break
13.30-		13.30-	2. Assessing the impacts of network expansion -	12.45-	Course evaluation
15.30	1. Challenges of Low Carbon developments on	15.00	Case study presentation on modelling and	13.15	
	network integration:		assessment:		
	(<mark>REKK -Kaderjak)</mark>		- Economic and Financial impacts on TSO,		
			regulatory consequences		
			<mark>(Felsmann - Szabó REKK</mark>)		
	Coffee break		Coffee break		
16.00-	2. Challenges of Low Carbon developments :	15.30-	Exercise 1:		
17.00	(<mark>REKK – Pató)</mark>	17.00	Simplified calculation exercise of TSO impacts		
			and regulatory consequences		
			(<mark>Felsmann - REKK</mark>)		
19.00-	Joint dinner	19.00-			



First day is split to introduction (technical and economical) and also to:

 Introduction to long term challenges the European electricity system and network faces.

Second day dedicated to Network Assessment methodology:

- EU processes (PCI and PECI)
- Technical, Economic, Financial assessment
- Financial assessment exercise

Third day:

- Continue Exercise
- Introduction to the operation of SEE CAO