



Peti
ENERGETSKI SAMIT
u Bosni i Hercegovini



Implemented by
giz



POD POKROVITELJSTVOM



Ministarstvo vanjske trgovine
i ekonomskih odnosa BiH



Državna regulatorna komisija
za električnu energiju (DERK)



Regulatorna komisija za energetiku
Republike Srpske (RERS)



Regulatorna komisija za energiju
u Federaciji BiH (FERK)

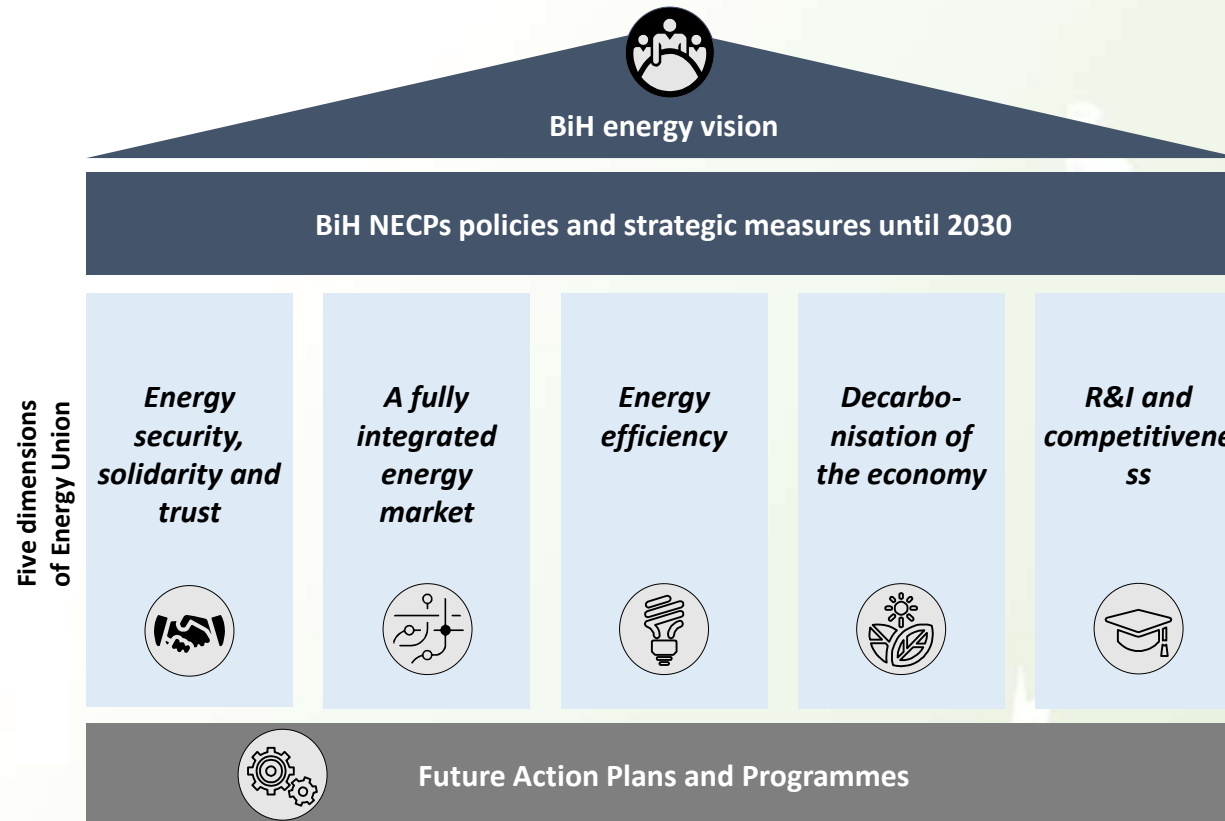
FUTURE OF ENERGY SECTOR - CHALLENGES AND POSSIBILITIES

Igor Luksic



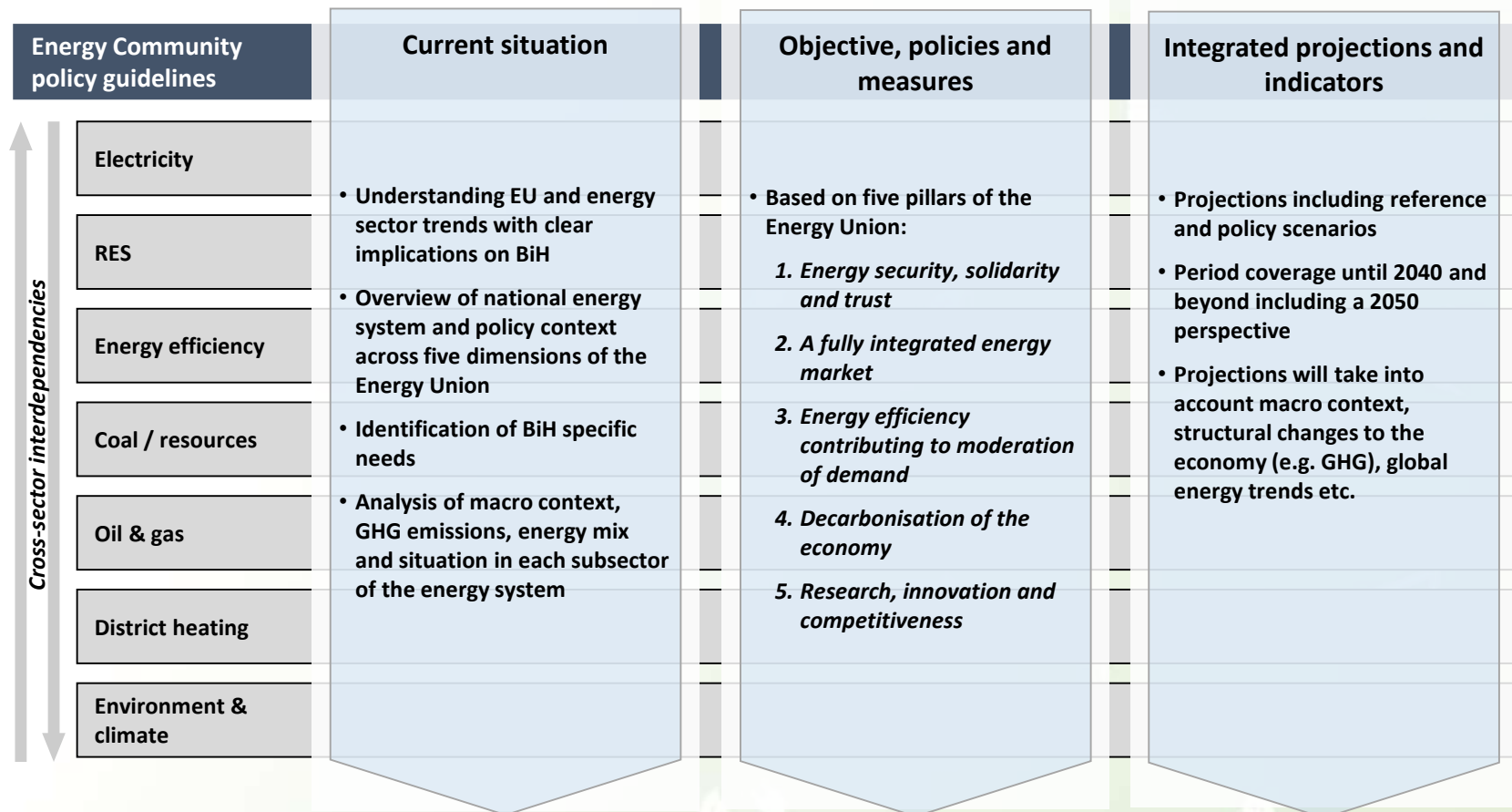
Energy Community has set policy guidelines for Contracting Parties how to develop their NECP

Inputs and goals for NECP



NECP should addresses the following issues

NECP development methodology



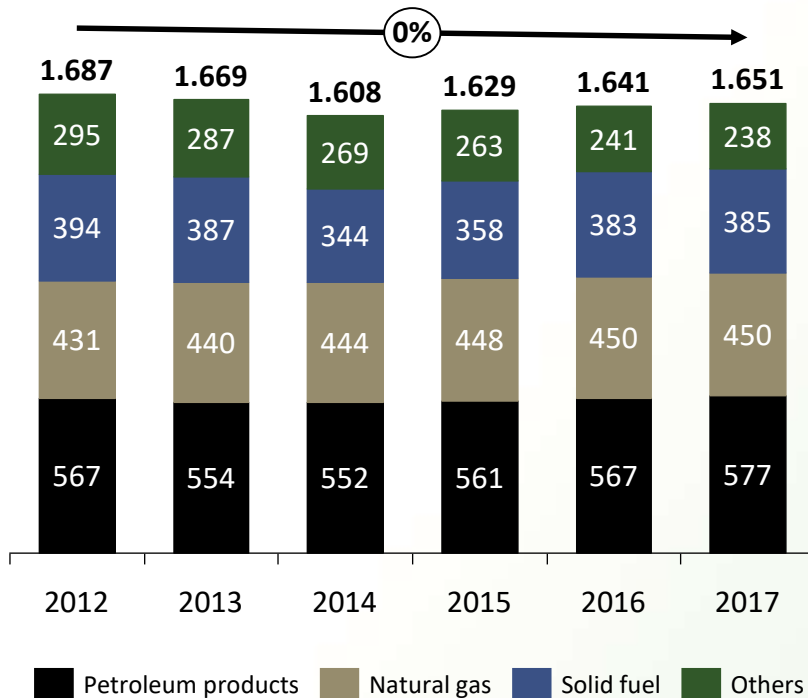
Agenda

- **EU & EnC Policy & Targets**
- Targets for BiH & current situation
- BiH Energy Policy – Focus on Electricity
- NECP preparation in BiH

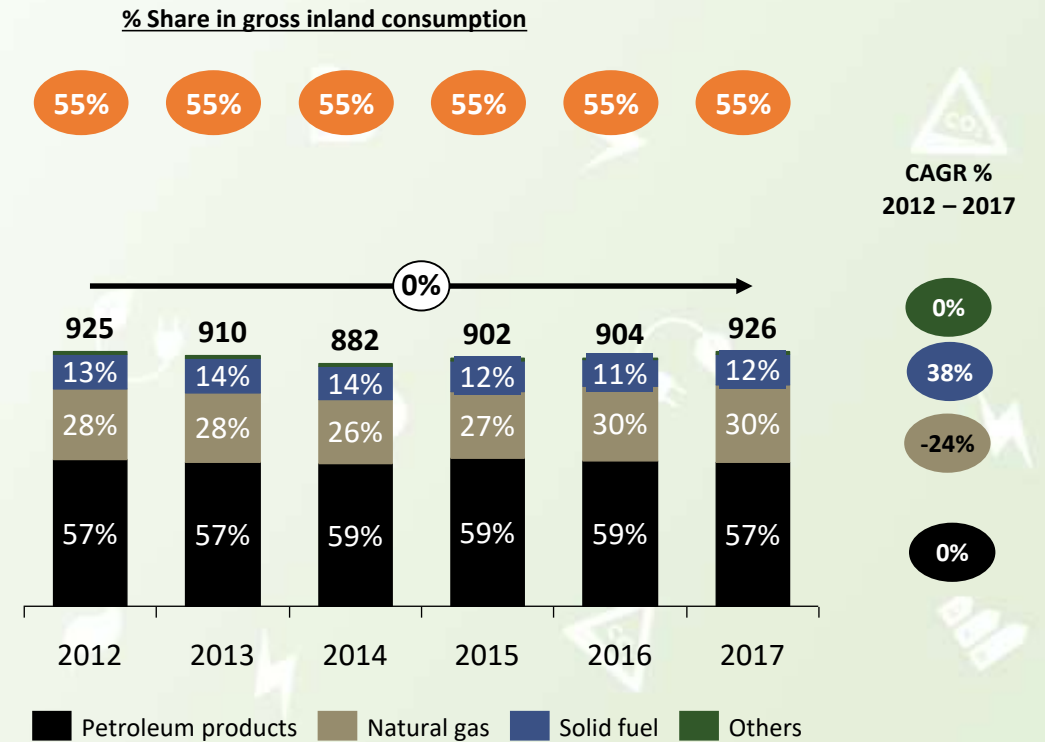


EU imports more than 50% of energy which puts pressures on security of supply

EU-28 Gross inland consumption, 2012 – 2017, Mtoe

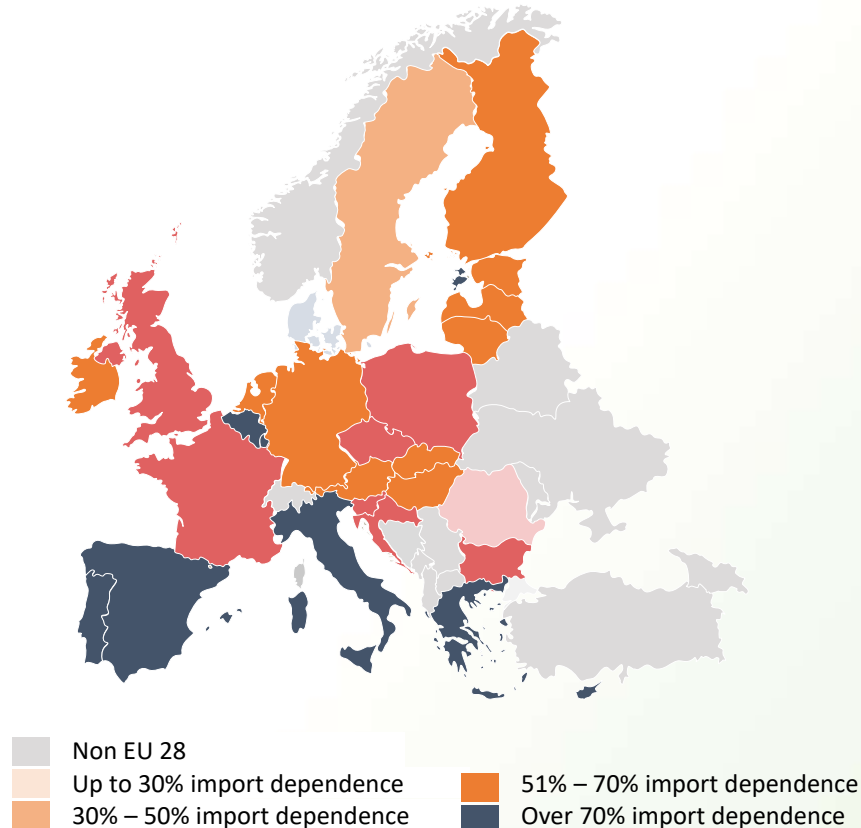


EU-28 Net primary energy import, 2012 – 2017, Mtoe



All EU 28 countries are exposed to certain level of risk considering the security of supply

Energy import dependence of EU-28 countries, 2017












Comment

- All countries in the EU are net importers of primary energy
- Share of net primary imports in gross energy consumption on EU level in 2017 was 55%
- Energy security of supply concerns every Member State, however it is more emphasized in less integrated and connected regions such as the Baltic and Eastern Europe
- One of the main concerns is dependence on a single source of supply
 - 6 member states 100% dependent on gas supply from Russia
 - 3 member states dependent on external operator for operation and balancing of their electricity network

EU energy policy sets ambitious GHG, RES and EE targets by 2030 and 2050 for overall EU that could decrease energy dependence

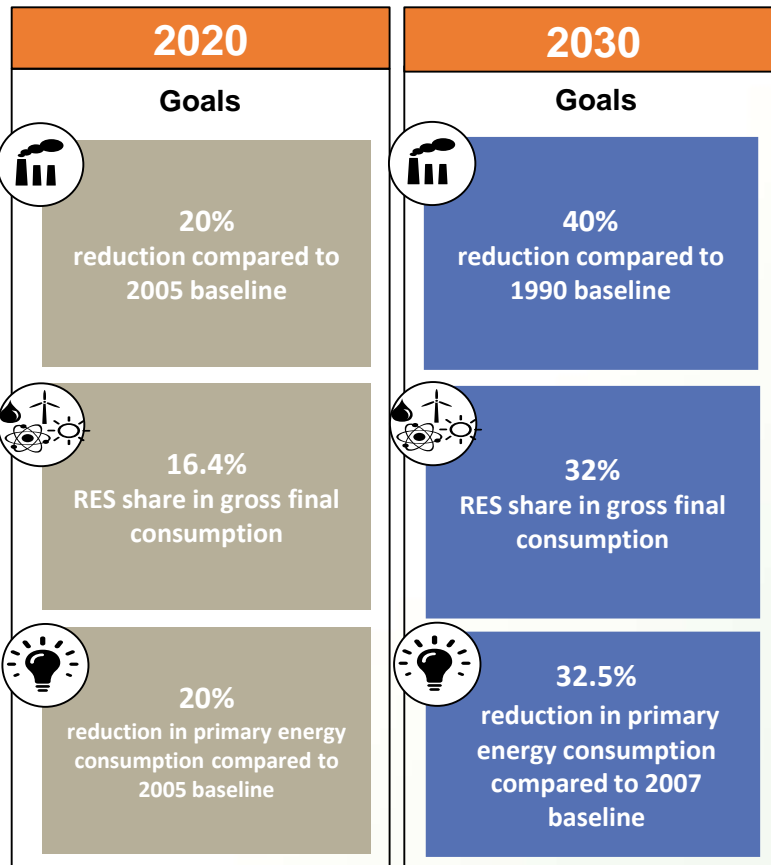
Key characteristics and direction of EU energy policy

2020		2030		2050	
Goals  20% reduction in GHG emissions	Priorities <ul style="list-style-type: none"> Accelerate investments in more efficient buildings, transport and products Building pan-European energy market through the promotion of transmission network, pipeline, LNG terminals and other infrastructure Protecting costumers rights and achieving high standards of security Energy tank implementation (Battery Systems) Ensuring good relations with non-EU stakeholders 	Goals  40% reduction in GHG emissions	New policies and mechanism New ETS Emission trading system	Goals  80 - 95% reduction in GHG emissions	Vision <ul style="list-style-type: none"> Energy costs rising to 2030, coming down thereafter 5 scenarios: <ul style="list-style-type: none"> ✓ High efficiency ✓ Diversified supply of technologies ✓ High RES ✓ Delayed CCS ✓ No nuclear
 20% energy from renewable sources		 32% energy from renewable sources	New management Based on national plans for security, competitiveness, cost-effectiveness and sustainability	 50% energy from renewable sources	
 20% improvement in energy efficiency		 32.5% improvement in energy efficiency	New KPI For a competitive, cleaner and secure energy system	 41% improvement in energy efficiency	

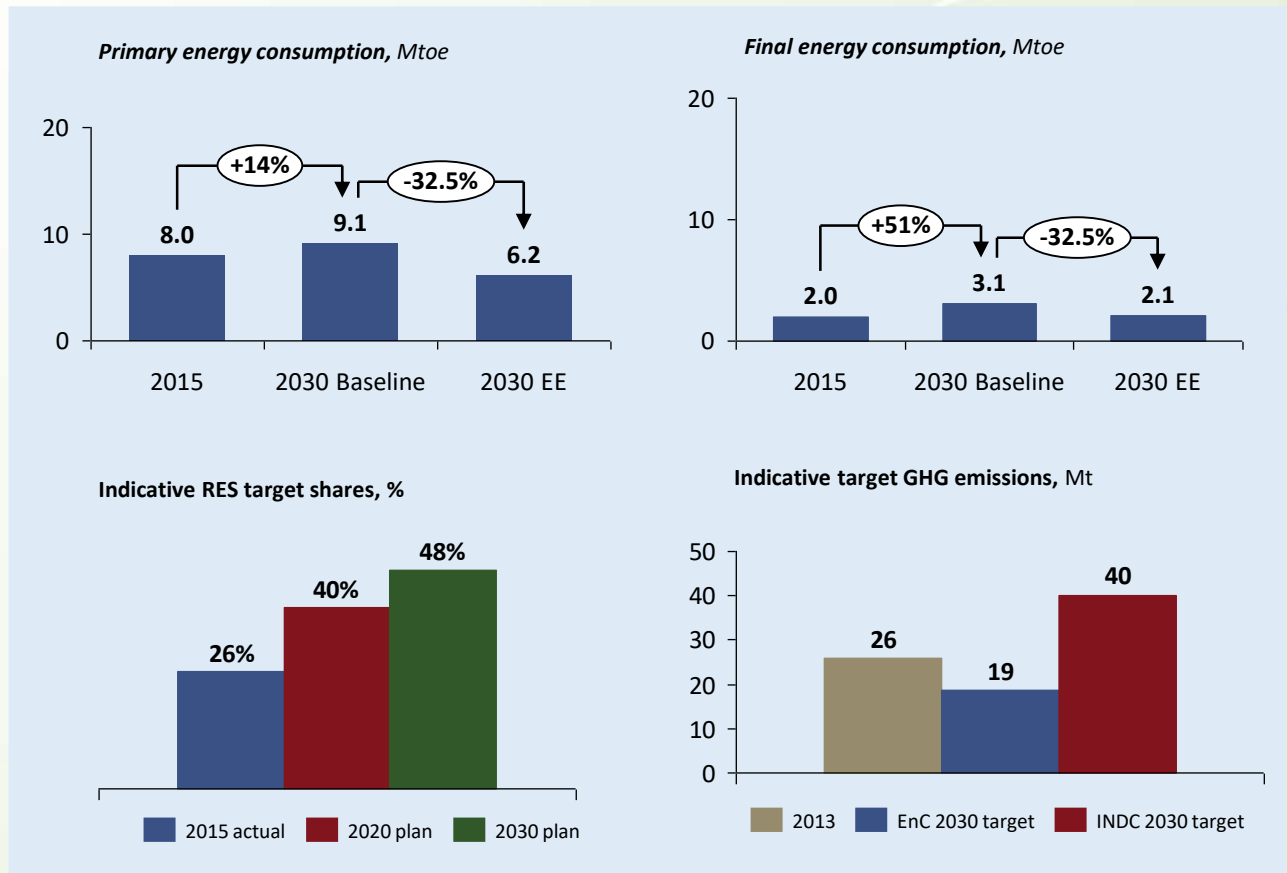
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EnC and BiH are also in the preparation of their own GHG, RES and EE indicative targets by 2030

Energy Community (EnC) indicative targets








BiH indicative targets

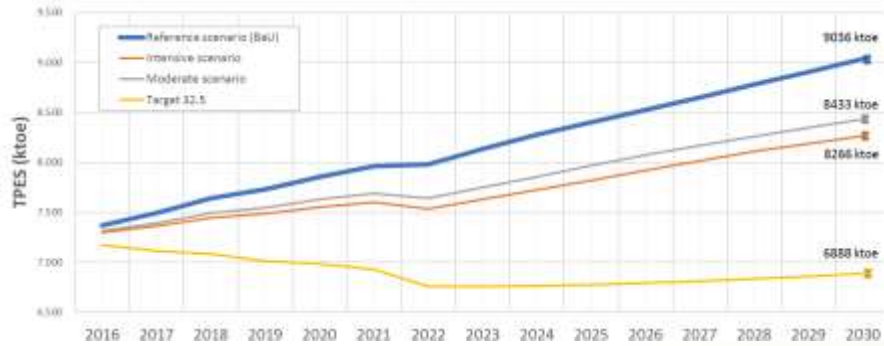


BiH has implemented some of the EE and RES measures while some of them are still in progress

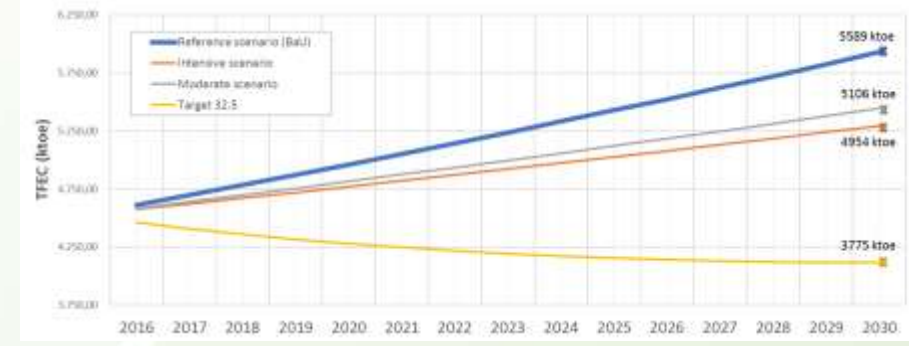
Energy efficiency and RES measures

	 Energy efficiency	 RES
 Implemented	<ul style="list-style-type: none"> • BiH framework energy strategy • National energy efficiency action plan 2010-2018 • Public energy efficiency information and motivation campaigns • Introduction and implementation of the system for energy efficiency education, training and professional development 	<ul style="list-style-type: none"> • Grid access for RES – Rulebook on Connection • Support schemes for RES for RS and FBiH • Development of Renewable Energy Action Plan of BiH in accordance with the entity action plans
 Work in progress	<ul style="list-style-type: none"> • Development of the Energy Efficiency Obligation Scheme to finance energy efficiency measures in the residential sector • Development and application of the legislative and regulatory framework for EE in final energy consumption • Establishment, application and development of the energy efficiency information system in all final energy consumption sectors 	<ul style="list-style-type: none"> • Strategic Policy of the Energy Sector in BiH • Development, management and reporting of Projects of Community Interest (PECI) • Reform of Support Schemes for RES projects • Improvement of admin. procedures for RES projects
 No progress	<ul style="list-style-type: none"> • Inclusion of energy efficiency topics • Metering and informative billing of energy consumption to end consumers • Use of energy efficiency criteria in the public procurement system • Introduction and application of financial framework for improvement of energy efficiency in FEC 	<ul style="list-style-type: none"> • Activities to introduce incentives, promotional campaigns, relevant certification scheme for biofuels • Licensing and permits for RES projects • Harmonized energy data assessment, monitoring and modelling

BiH needs to conduct a clear multicriterial assessment of possible scenarios to achieve realistic targeting for energy efficiency



6.7%
8.5%
23.8%

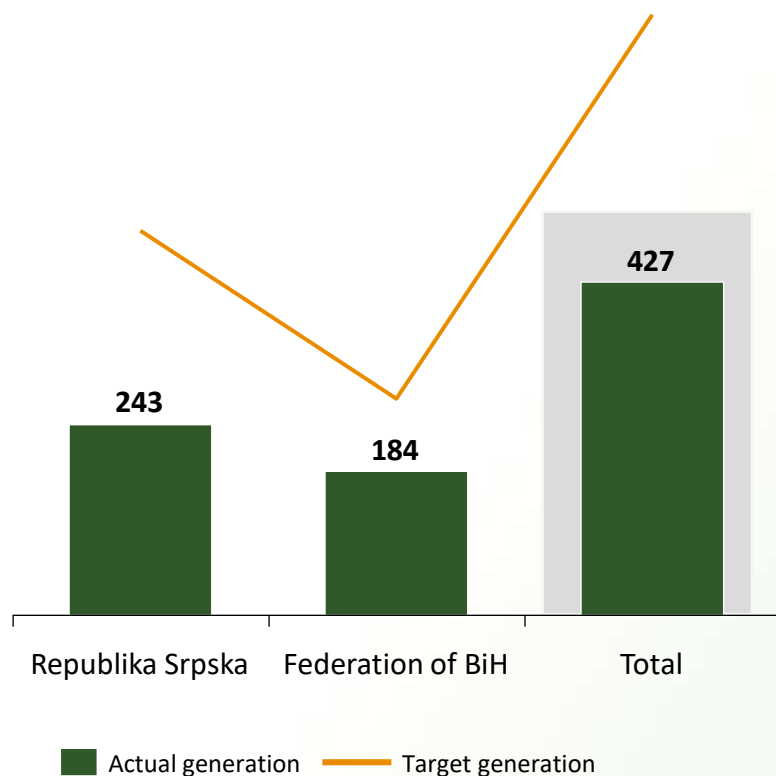


8.6%
11.4%
32.5%

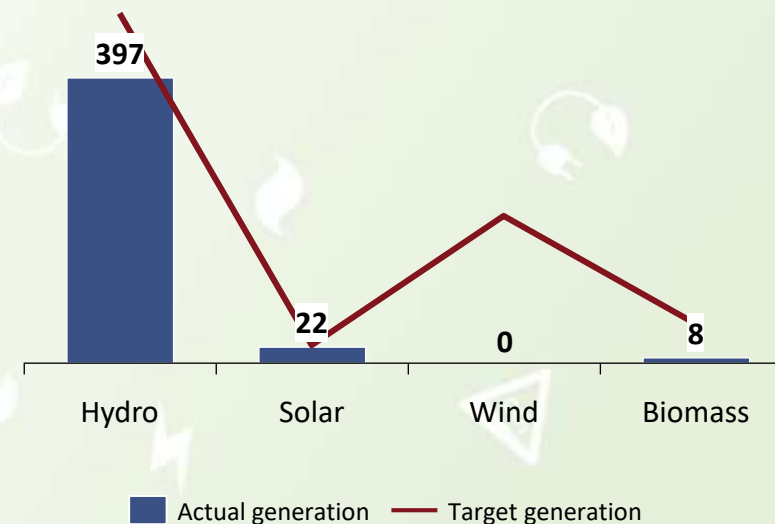
Building renovation (2020 - 2030)	Renovated area 2030	Annual renovation rate	Achieved energy performance of entire building stock					
			Multi apartment		Public		Commercial	
			2015	2030	2015	2030	2015	2030
			kWh/m ²	kWh/m ²	kWh/m ²	kWh/m ²	kWh/m ²	kWh/m ²
Intensive scenario	28%	2.8%	165	102.97	184	144.44	184	136.01
Moderate scenario	22%	2.2%	165	114.5	184	151.46	184	139.86
Target 32.5	100%	10%	165	40	184	40	184	90

In 2018, BiH incentivized 427 GWh of electricity generation from RES of which electricity from hydro represent more than 90%

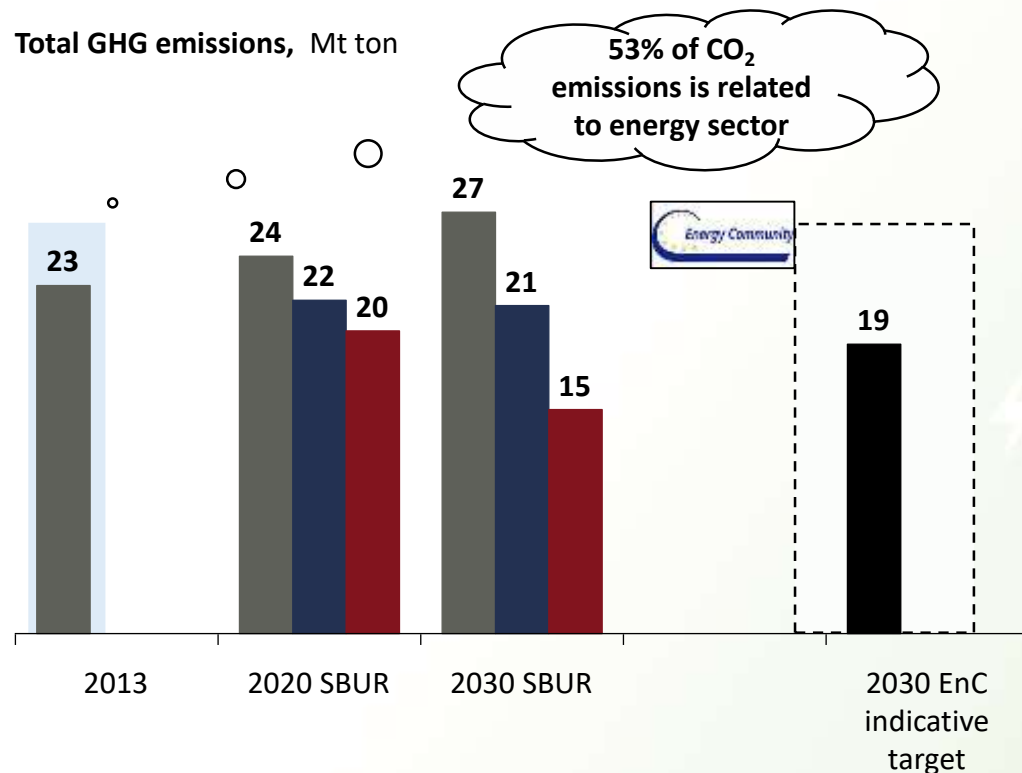
Incentivized generation from RES, 2018 (GWh)



Incentivized generation from RES per source, 2018 (GWh)

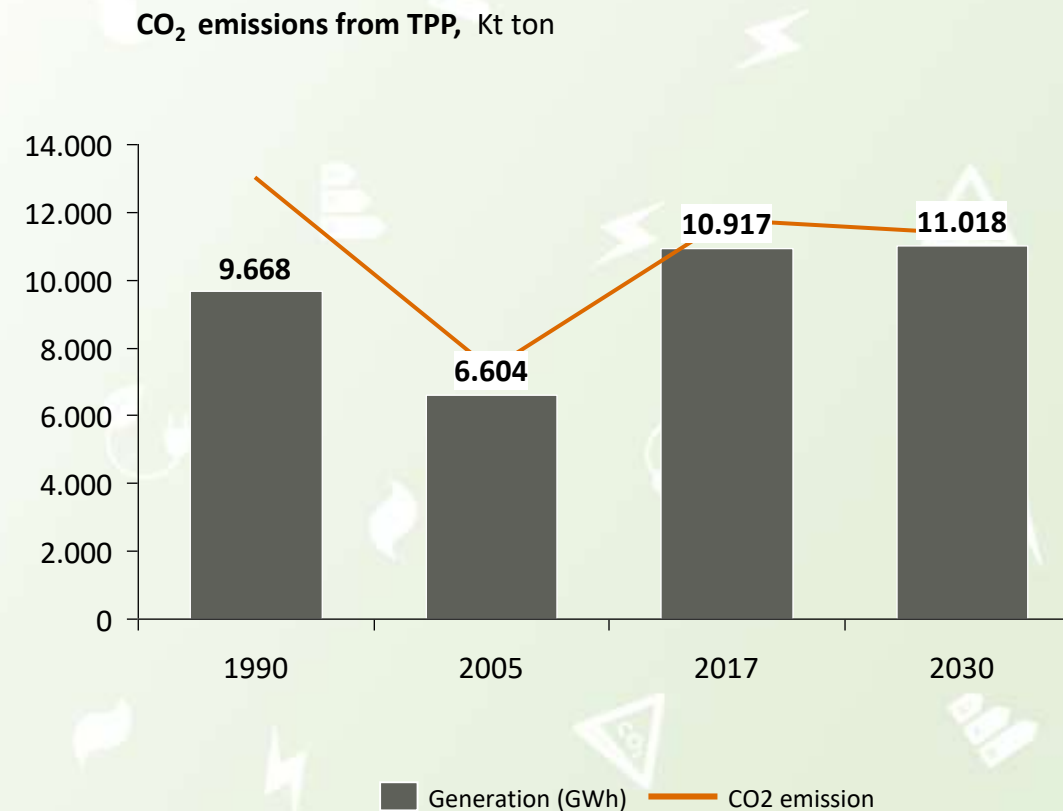


In terms of GHG emissions, BiH is approaching 2020 targets with energy sector being the biggest emitter



Baseline scenario
 Moderate mitigation scenario
 Advance mitigation scenario

2030 EnC indicative target

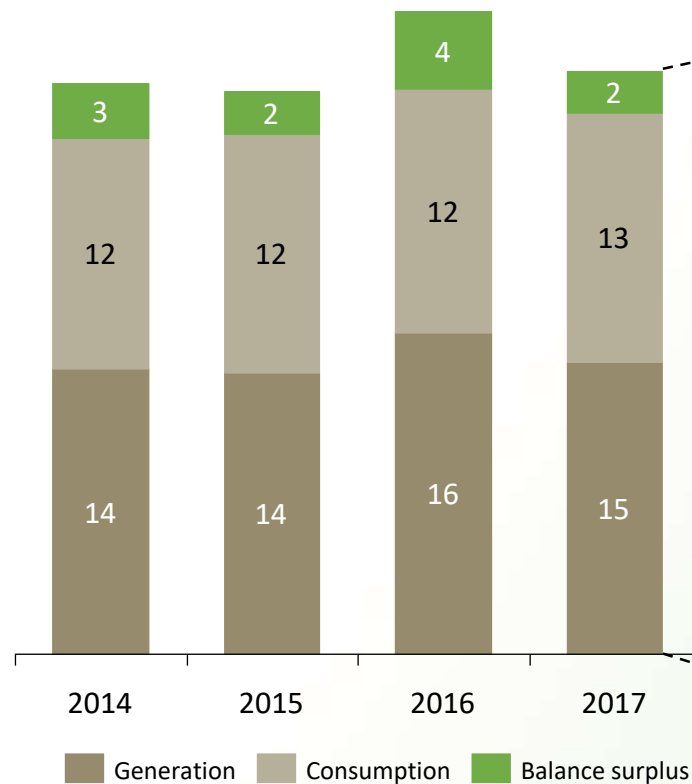


Generation (GWh)
 CO₂ emission

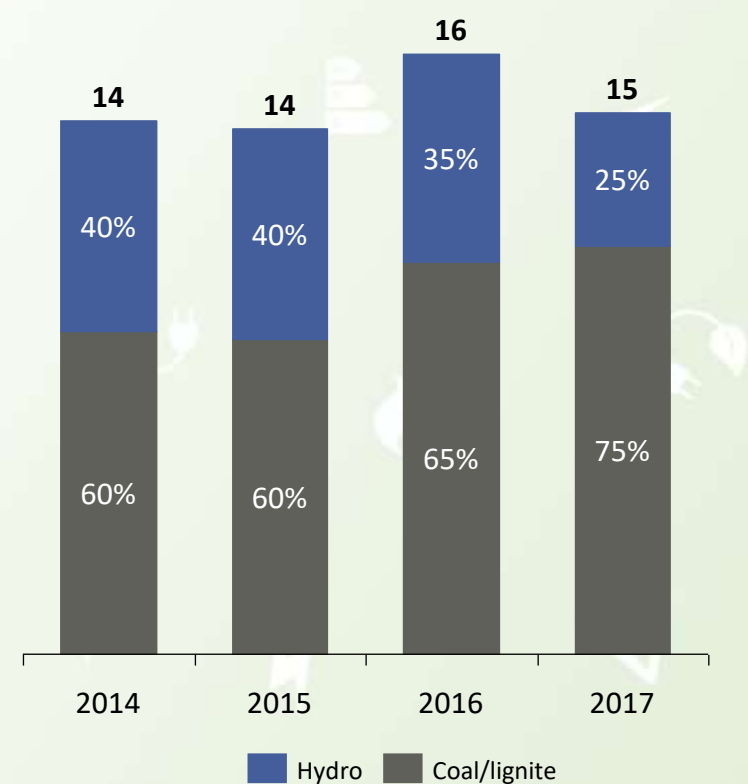
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BiH is realizing balance surplus in electricity generation, while on average 65% electricity is generated from coal


















Electricity balance, 2014 – 2017, TWh





Electricity generation mix, 2017, TWh



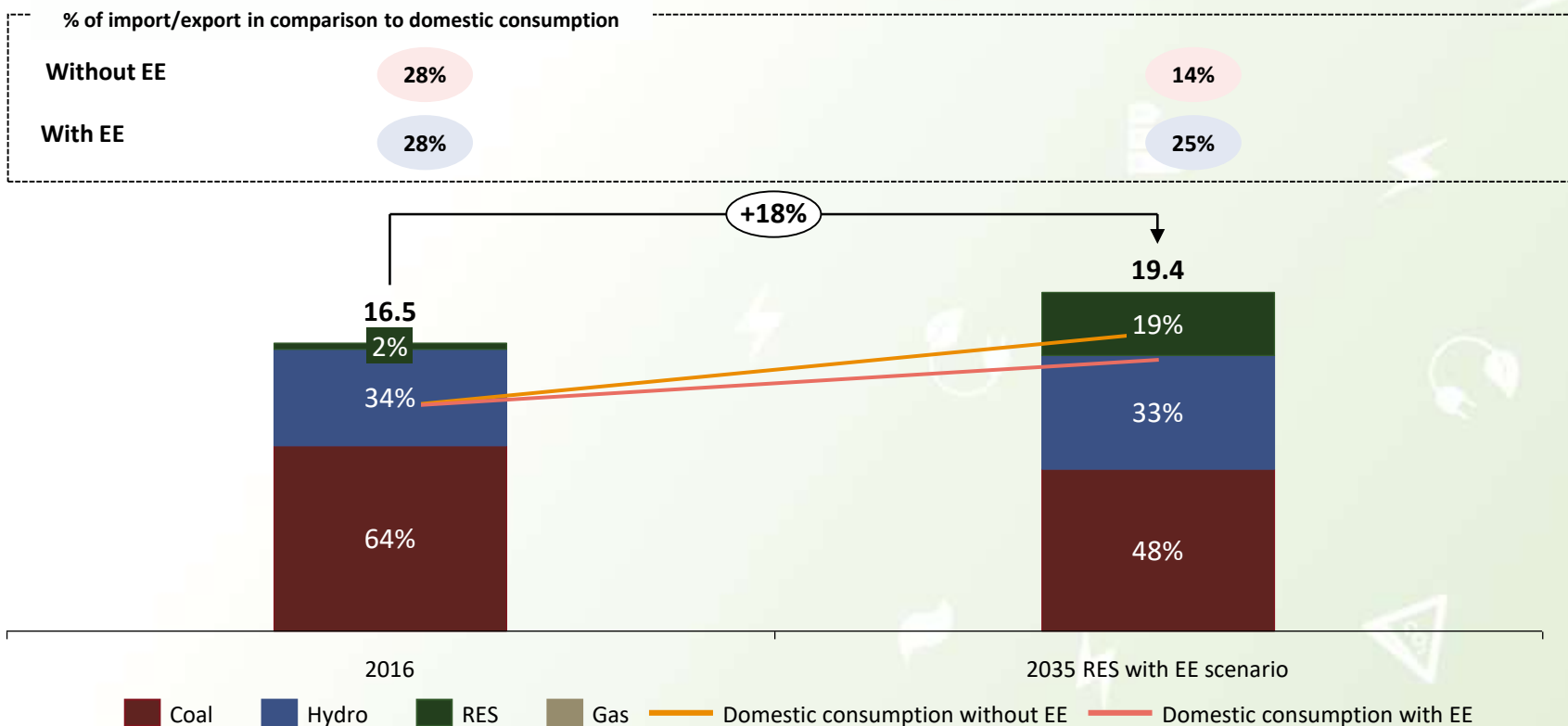
NECP Guidelines and targets means for the electricity sector the following:

Strategic priorities	Implications	Bosnia and Herzegovina energy policy goals until 2035	
		Today	Goal
Security of supply	Coverage of domestic consumption		
	Surplus		 
Clean energy (decarbonisation)	Share of RES in total production		 
	TPP pollution level		 
Price competitiveness	Generation mix price		 
Economic diversification	Participation of small and medium entrepreneurship		 

Low  High  (Relative scenario)

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Electricity generation in BiH, TWh



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BiH has made first steps with a work-shop in February to set-up the working groups for NECP preparation

BiH NECP initial work-shop in February 2019



BiH one step closer to developing Integrated National Energy and Climate Plan

Bosnia and Herzegovina | Region: EU | February 4, 2019 | Comments: 0 | Author: Balkan Green Energy News



5.2.2019 – 6.2.2019

Participants:

- MoFTER (coordinator)
- GIZ
- Energy Community
- UNDP BiH
- USAID
- SIDA

THANK YOU!

