



# APPLYING THE UK DECC METHODOLOGY TO SET UP LOW CARBON PATHWAYS IN SOUTH EAST EUROPE

February 11 2014



# SEESep is a Regional collaboration for Sustainable Energy Policy in SEE



South East Europe  
Sustainable Energy  
Policy

## 17 CSOs covering SEE

Geographies	Organisations
EU partners	WWF, CEEBW, Climate Action Network
Albania	EDEN center, Ekolevizja group
BiH	SEE Change Net, CPI, Center for Environment
Croatia	DOOR, Forum for Freedom in Education
Kosovo <sup>1</sup>	ATRC
Macedonia <sup>2</sup>	Analytica, Front 21/42, Eko svest
Montenegro	Green Home, MANS
Serbia	CEKOR, NGO Fractal



## International Funding

- Supported by the EU, BT, UNDP

NOTE: 1) This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo declaration of independence. Hereinafter referred to as Kosovo; 2) According to the UN, the official name for Macedonia is The former Yugoslav Republic of Macedonia. Hereinafter referred to as Macedonia.



**B | T | D** The Balkan Trust  
for Democracy  
A PROJECT OF THE GERMAN MARSHALL FUND



# Context



## Geographical context

- South East Europe (Albania, BiH, Croatia, Kosovo, Macedonia, Montenegro, Serbia)

## Political context

- Accession to the European Union (EU) as a key political objective

## Socio economic

- Happiness index
  - Low average GDP ~ 5.900 USD<sup>1</sup>
  - Corruption index 2.8 - 3.3<sup>2</sup>
- Demographic challenge, smaller percentage of working population by 2050

## Energy & Environment

- Ageing energy generation infrastructure
- Heavy reliance on two sources of power, coal and hydropower
- Vulnerability to floods and declining precipitation due to climate change
- 2-4 times more energy used to produce a unit of GDP than EU avg

**What the region will look like depends on policy choices made now, and whether we as a society will dare to think constructively and find solutions**

- Unclear picture on the potential to reduce energy consumption, and dependence and emissions
- Unclear picture about the costs of low carbon transition
- Unclear picture about potential for created and destructed jobs

**Fairer, Cleaner, More Efficient,  
An energy road map for EU integration**

# The project philosophy is open source



## Done so far

Sector	Albania	B&H	Croatia	Kosovo	Macedonia	Montenegro	Serbia
Agriculture	✓ (high level)	✓ (high level)	✓ (high level)	✓ (high level)	✓ (high level)	✓ (high level)	✓ (high level)
Buildings	✓	✓	✓	✓	✓	✓	✓
Industry	Aluminium					✓	
	Cement	✓	✓	✓	✓		✓
	Steel	✓	✓	✓	✓	✓	✓
Supply	✓	✓	✓	✓	✓	✓	✓
Transport	✓	✓	✓	✓	✓	✓	✓
Waste				✓ (high level)			✓ (high level)

**More than 100 studies reviewed and 500 experts consulted**

- 50 sectoral consultations

**Data gap analysis between national and international data sources (IEA)**

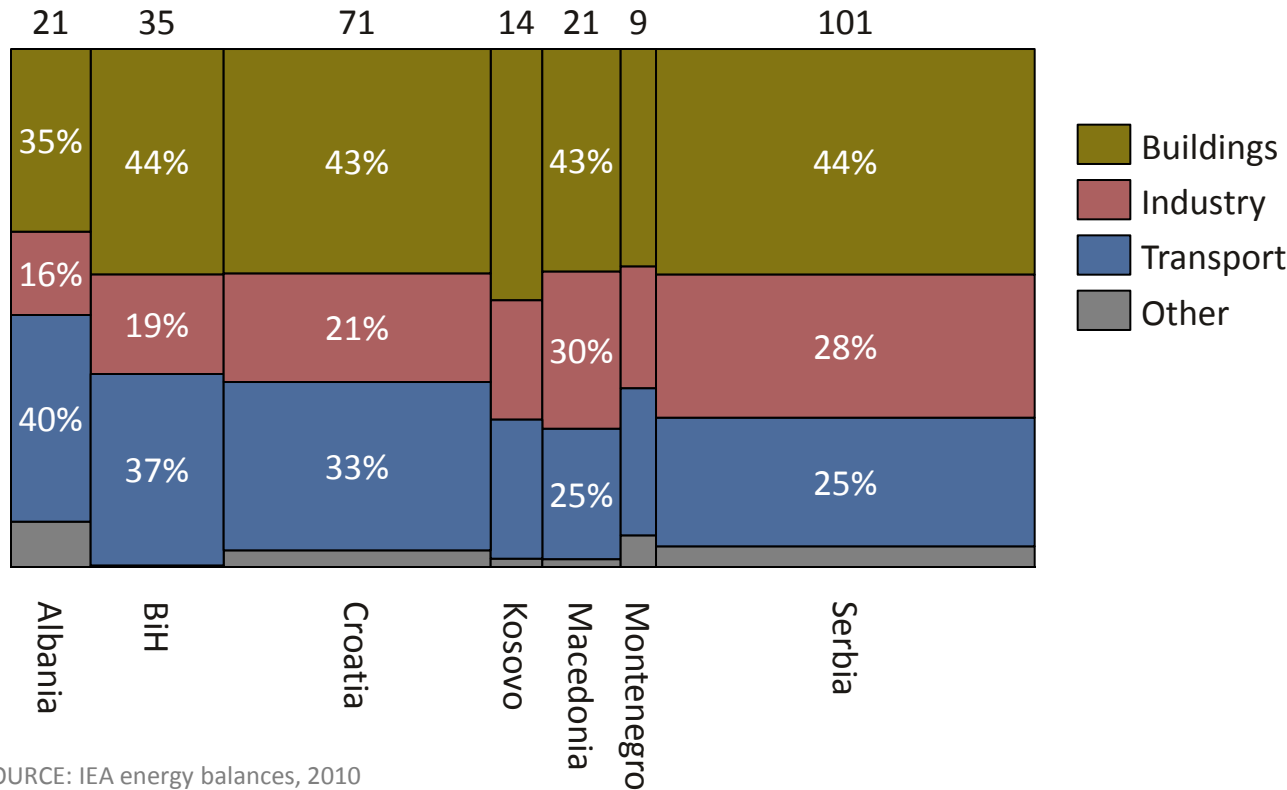
**7 excel models, 1 per country**

- Sectoral analysis (PPT with data and assumptions explained)
- Comparison of official data and model generated data

# Let's start with energy demand



Energy demand per country & sector<sup>1</sup>  
(TWh, 2010)



- The energy demand is relatively similar across SEE
- Buildings consumption accounts for about 40% of energy used in most countries (huge potential for energy efficiency measures)

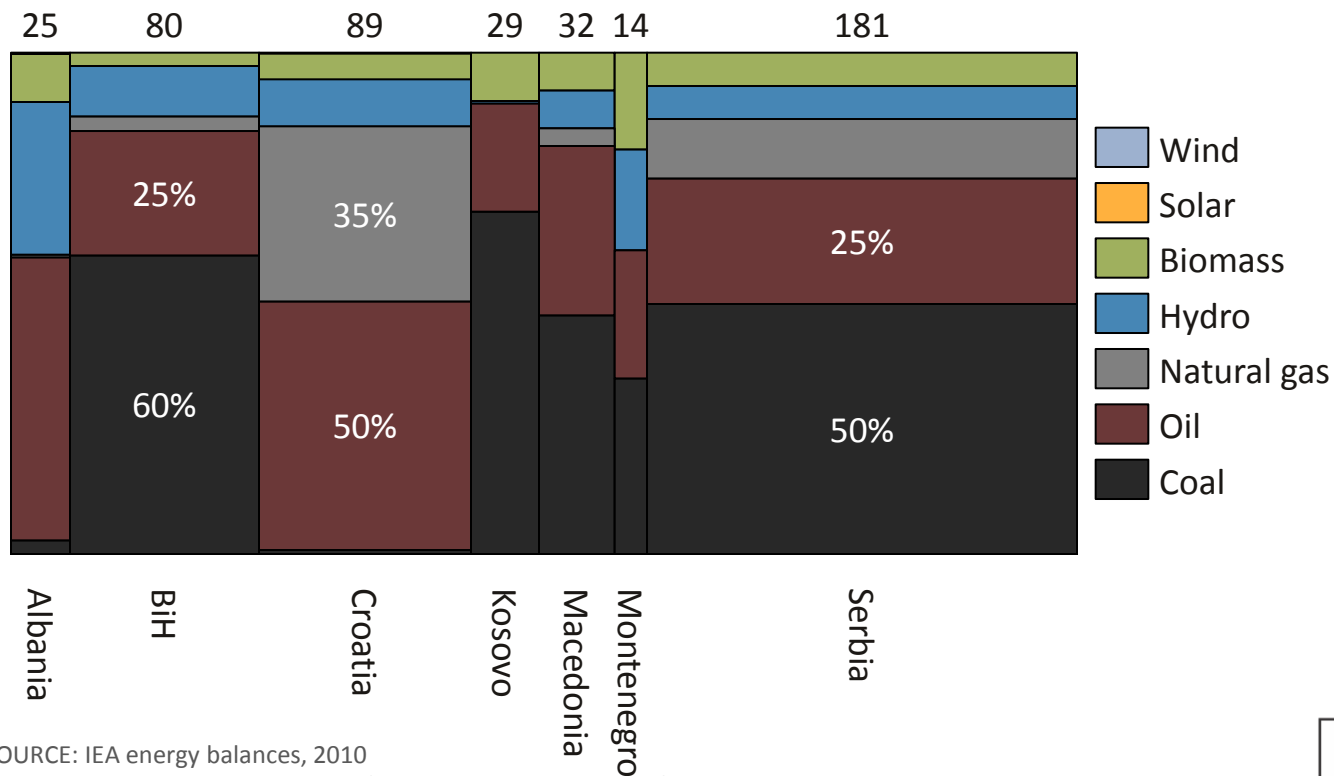
SOURCE: IEA energy balances, 2010  
NOTE: Excluding Non-Energy use



# Let's look at the energy supply



Primary energy supply per country & technology<sup>1</sup>  
(TWh, 2010)



- Fossil fuels represent the 85% of the supply (Oil 32%, Coal 40% & Gas 13%)

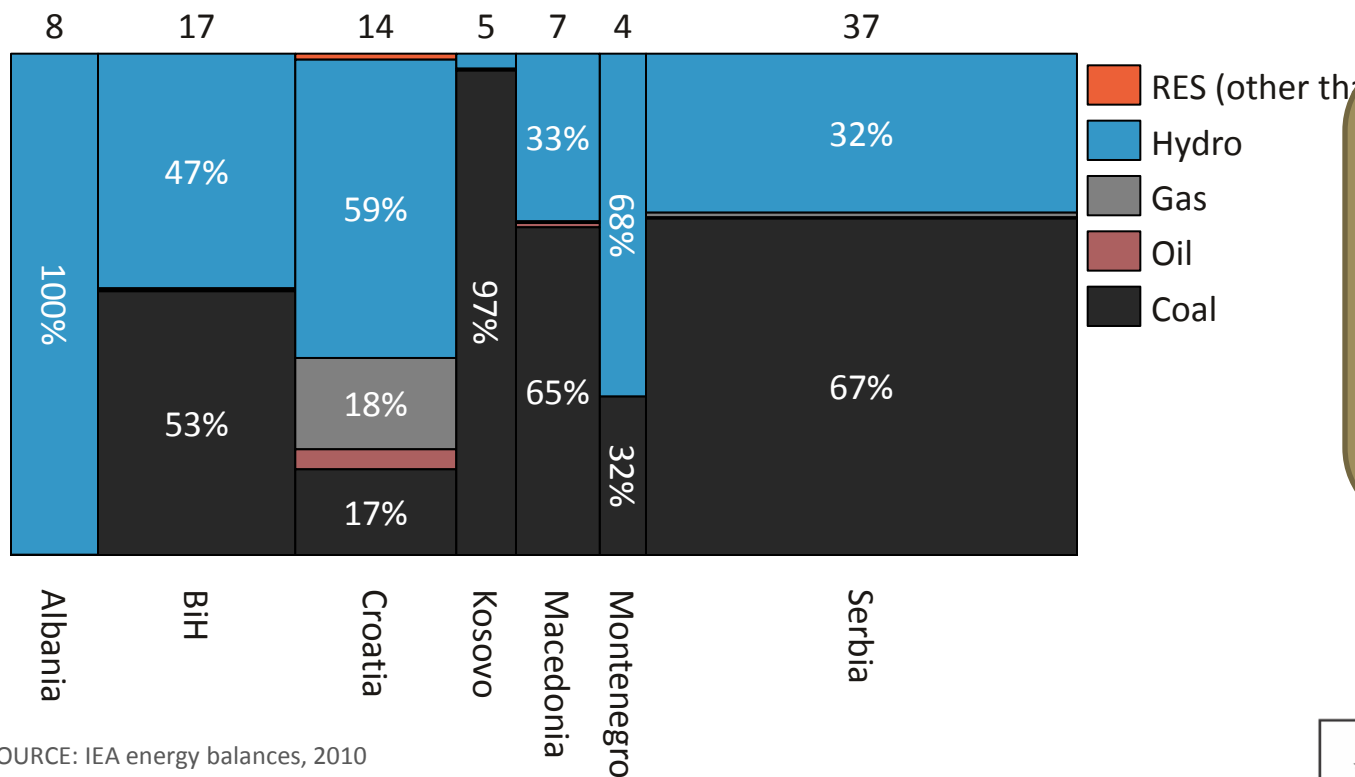
SOURCE: IEA energy balances, 2010  
NOTE: Excluding electricity imports/exports, including imports/export of other vectors



# Let's look at the energy supply



**Domestic electricity production per country & technology**  
(TWh, 2010)

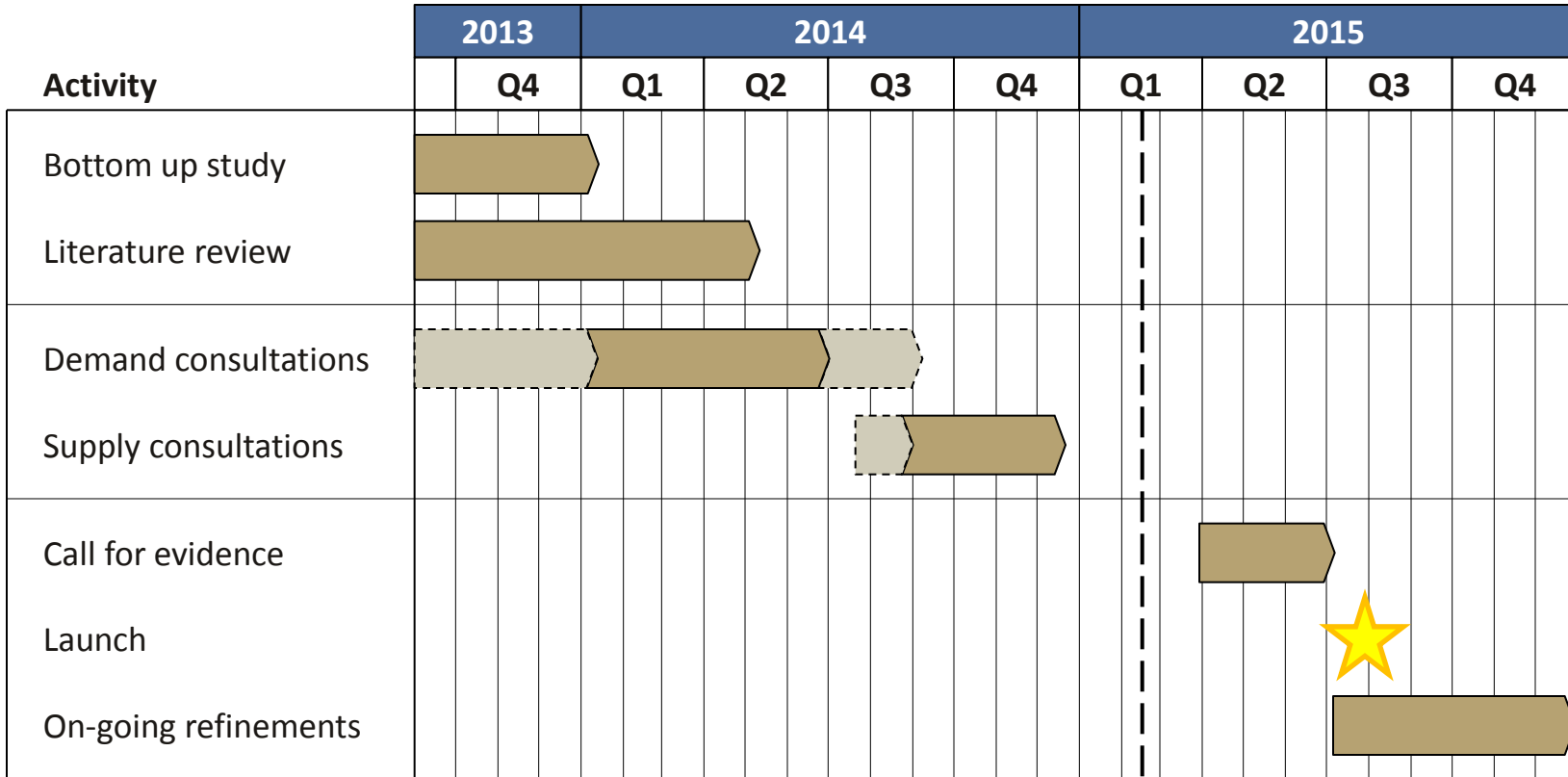


- Heavy reliance on two sources of power, coal and hydropower
- High potential for renewables (wind and solar) unused

SOURCE: IEA energy balances, 2010



# Project milestones



2050 Conference



# Thank you on behalf of the entire SEESEP team



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