

# Edu-Energy 2.0: Towards Shaping the Future of Renewable Energy Transition in the Western Balkans

As part of the 2<sup>nd</sup> Regional Power Exchange: “Green Agenda:  
Decarbonization of the Electricity Sector in the Western Balkans”



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# Renewable Energy (RE) and Vocational Education and Training (VET): The Way Forward

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CONCLUSIONS from the LM and EDU studies/analysis :

1. RENEWABLE ENERGY (RE) PRODUCTION with highest potential in the Western Balkans and high interest in Education sector:

## SOLAR ENERGY PRODUCTION



## WIND TURBINE ENERGY PRODUCTION



## HYDROENERGY PRODUCTION





## 2. ECONOMIC SECTORS WITH GREAT POTENTIAL OF INTRODUCING **RE** COMPONENTS / **RE** CUTTING ACROSS VARIOUS SECTORS OF THE ECONOMY: potential of introducing renewable energy (Industries and services)

**AGRICULTURE** (e.g. Bioenergy feedstock farming and harvesting)



**CONSTRUCTION** (e.g. Energy efficient buildings)



**MANUFACTURING** (e.g. Producing material for solar panels)

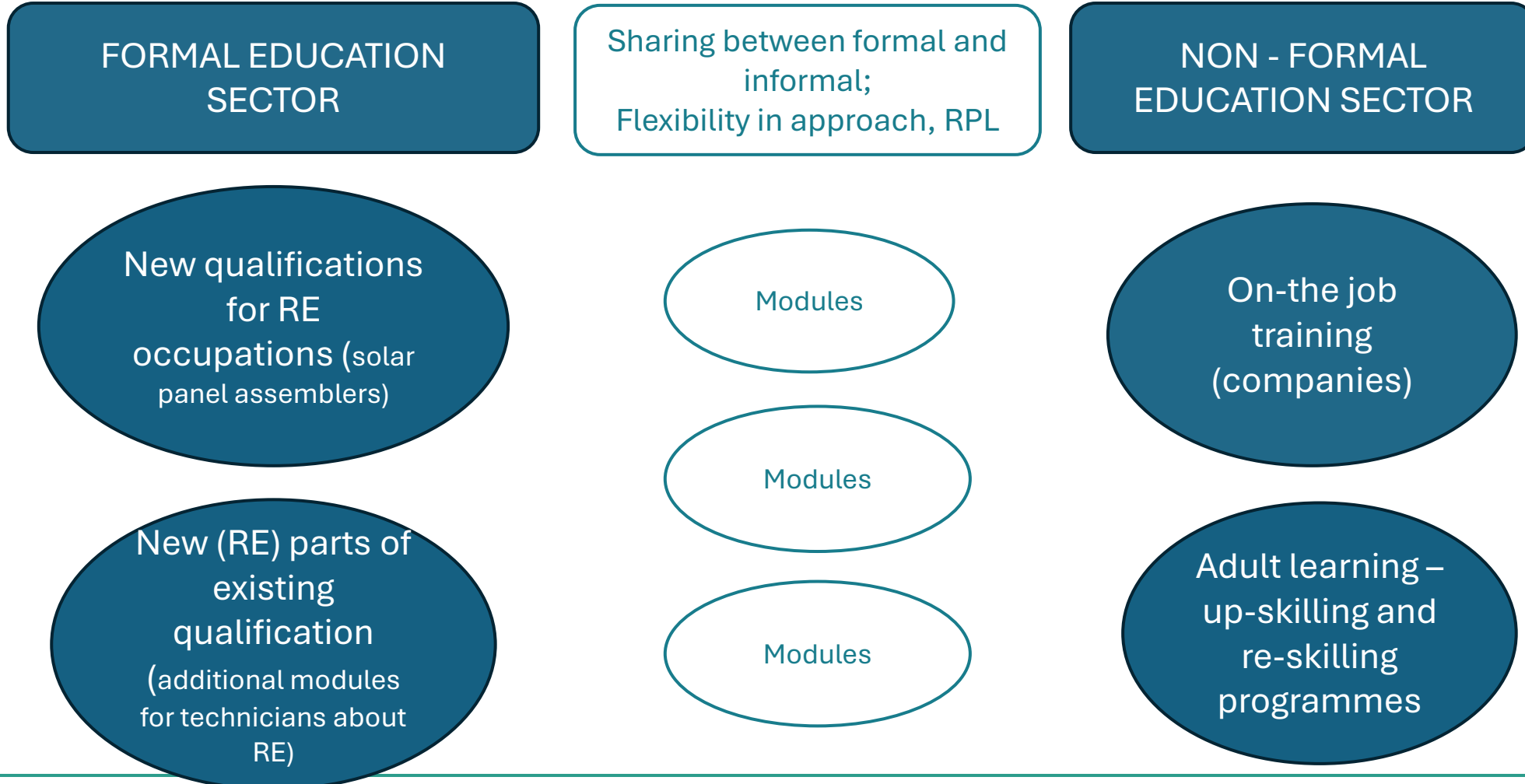


**SERVICE** (e.g. Maintenance, funding, standard setting, consulting)





## 3. EDUCATION FOR LABOUR MARKET NEEDS





## 4. COMPLEXITY OF NEEDED OCCUPATIONS and CORRESPONDING QUALIFICATIONS LEVELS

Complexity	Occupations	Corresponding Qualification Levels EQF
Technicians and associate professionals	Solar/wind panel/RE heating devices installers Solar/wind service/wind farm technician Renewable energy associates Solar/wind assistant project managers Engineering associates RE/Energy Efficiency Consultants	4/5/6
Engineering Professionals	Solar/wind system engineers Solar/wind system designers RE/Energy Efficiency Consultants	6/7/8
Management	Solar/wind project managers Managers of renewable energy technologies	6/7/8
Teaching professionals	Renewable Energy /Energy Efficiency Educators/Trainers	6/7/8

# Labour Market Effect Study – main conclusions (3)



## 5. TOPICS/THEMES FOR CONSIDERATION

(for qualifications/parts of qualifications/modules/units/teaching/learning material...)

<b>Specific</b>	<b>General (cross-qualifications)</b>	<b>Cross-cutting</b>
<i>(specific content, connected to a specific occupation and subject matter)</i>	<i>(content that can be integrated at various levels and in various programmes – from technical to service levels)</i>	<i>(content that is relevant for all occupations, qualifications, modules etc. and can be integrated in specific and general materials)</i>
Solar/Wind system installation	Renewable energy and energy efficiency	Social sustainability
Solar/wind system maintenance	Decarbonization	Gender equity
RE Heating devices installation Renewable energy as source for heating, air-conditioning and ventilation	Use of digital and AI technologies in the use of RE (for electric/mechanic sector) Applications development Automation technologies	Digitalization (general)



## 6. WAY FORWARD

### **SHORT-TERM**

- a. Consultations, comments and suggestions in a broader form
- b. Consultations and mapping within smaller regional group of experts
- c. Agreement on the material for teaching/learning (guidelines, manuals, modules...) – topic and type
- d. Development and use of the material

### **LONG-TERM:**

- a. Consideration of developing regional standards of occupations and qualifications or parts (modules/units) of standards of qualifications)
  - b. Partners' commitment
  - c. Donors negotiations
  - d. Project planning
  - e. Implementation
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# Edu-Energy Conference: Building Bridges for Sustainable Energy Learning



## Discussion time!

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# Thank you!



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# Speakers

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*Challenges and Support Strategies in Vocational School Selection -  
The impact of interests, career maturity and gender stereotypes – insights from Croatia*

**Toni Babarović**, Senior Scientific Advisor, Ivo Pilar Institute of Social Science and Full Professor, University of Zagreb

*Mapping the Energy Sector VET Provision*

**Ivana Živadinović**, Regional project coordinator, ERI SEE