



VBPC-RES Project: an Introduction

As. Prof. Andrej Gubina, Ph.D.
University of Ljubljana, Slovenia

Maja Božičević Vrhovčak, Ph.D., Vesna Bukarica
University of Zagreb, Croatia



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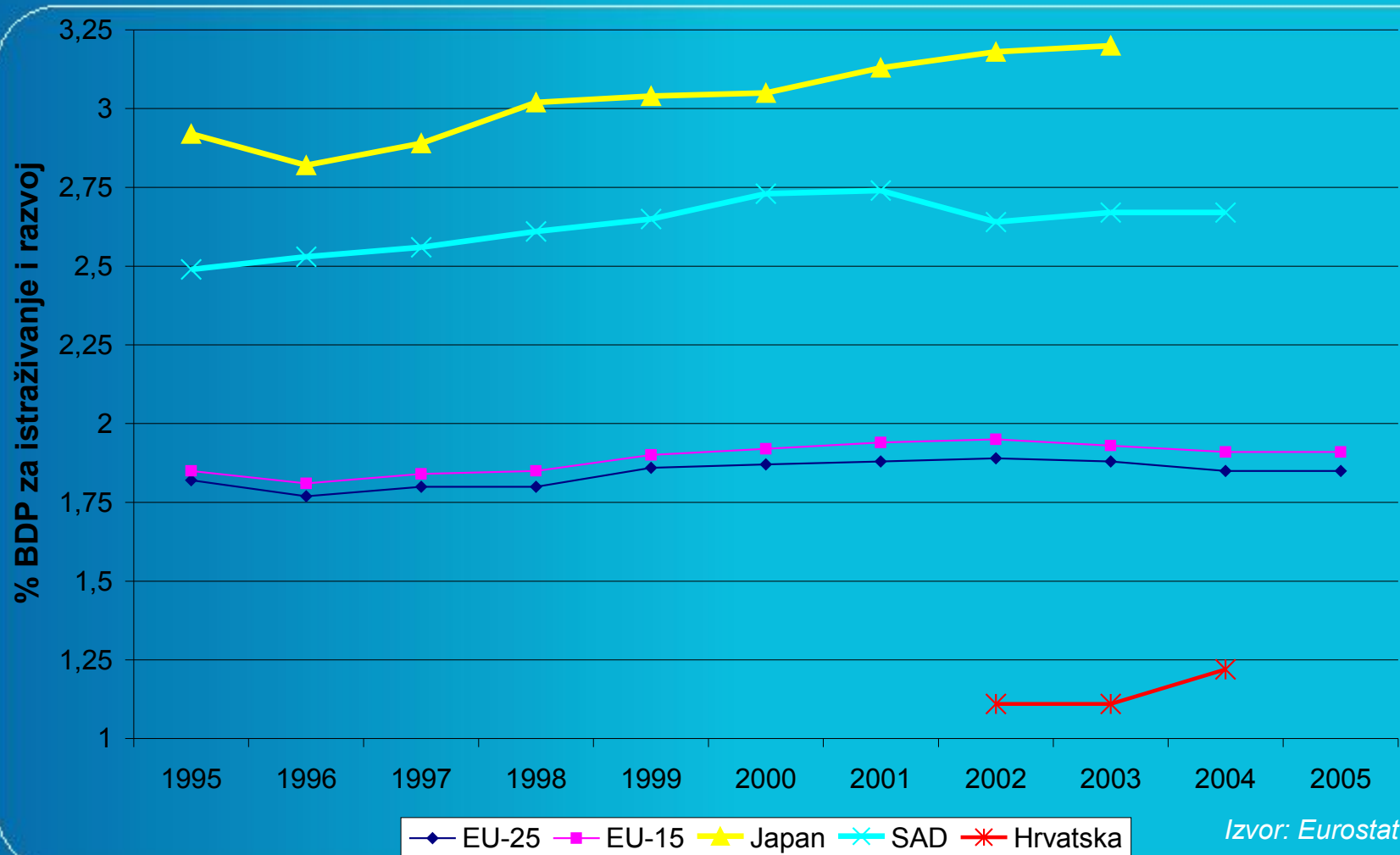


EU Framework Programs

- Framework programme - FP
 - An Instrument of EU for financing research in Europe
 - Goals:
 - Increased European competitiveness in science and technology
 - Fostering science and innovation
 - Fostering international cooperation
 - Stimulate cooperation of **research institutions and industry!**
- Sixth Framework Program (FP6)
2003 – 2006
- Seventh Framework Program (FP7) → Open call!!!
2007 – 2013
Budget ~ 50,5 mrd € → 2,3 mrd € in energy!



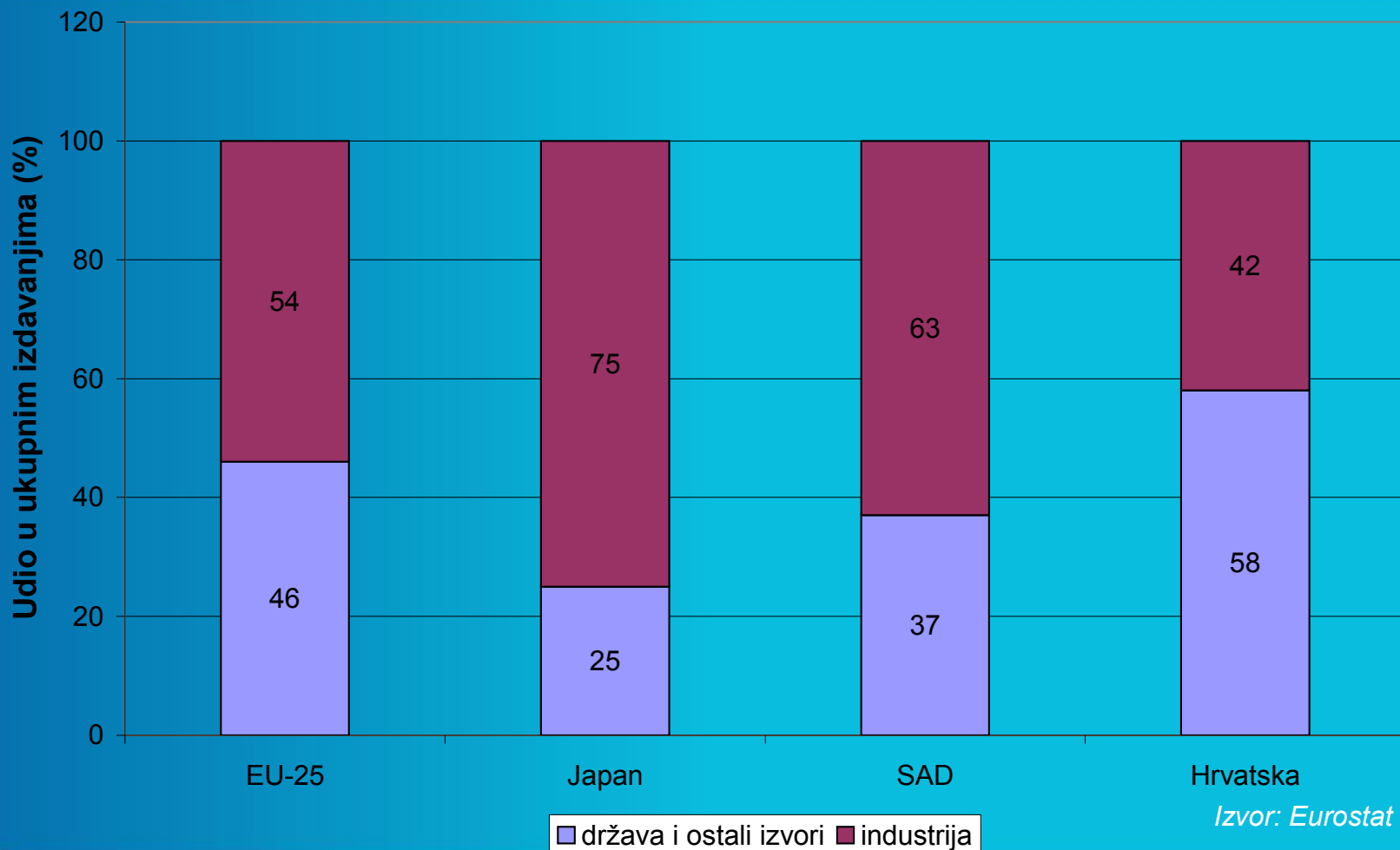
Research and Development Investment



Izvor: Eurostat



Research and Development Investment – Sources of Financing





VBPC – RES Project : Basic Information

- Organized within FP6
- Duration: 2005 – 2007
- International Cooperation: 17 partners from from 11 countries:
 - University of Ljubljana, Slovenia
 - Joanneum Research, Austria
 - National Technical University of Athens, Greece
 - University of Tuzla, BiH
 - Technical University of Sofia, Bulgaria
 - “Ss. Cyril and Methodius” University in Skopje, FYROM
 - Comillas University, Spain
 - DMS Group LTD, Serbia
 - Istrabenz Gorenje, Slovenia
 - Institute “Jozef Stefan”, Slovenia
 - Intrade Energy, Bosnia and Herzegovina
 - Kema Consulting, Germany
 - Faculty of Electrical Engineering, Belgrade, Serbia
 - University of Maribor, Slovenia
 - University of Zagreb, Croatia
 - “Politehnica” University, Bucharest, Romania
 - Centre for Renewable Energy Sources, Athens, Greece



VBPC – RES Project : Aims and Goals

➤ Aim of the project:

- Countries of the Western Balkans have a large but insufficiently developed RES potentials!
- Special attention must be paid to the underdeveloped and isolated areas where RES could be the the key driver to economic development.

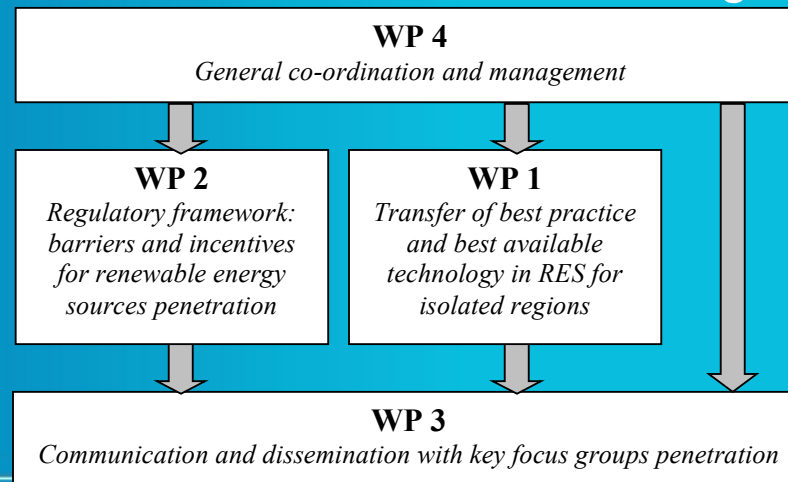
➤ Goals of the project:

- To establish **knowledge transfer** on best available technologies of RES and their implementation through international cooperation
- Identification of the main economical and regulatory drivers** that influence the decision making on investments in RES → barriers to RES penetration and ways for their mitigation
- Promotion, education and awareness building** of general public on RES use and the related benefits



VBPC – RES Project : Organization

- Project structure: 4 workpackages
 - WP1. *Transfer of best practice and best available technology in RES for isolated regions*
 - WP2. *Regulatory and organisation framework: barriers and incentives for renewable energy sources penetration*
 - WP3. *Communication and dissemination with key focus groups*
 - WP4. *General co-ordination and management*





VBPC – RES Project : Workpackages

- **WP1. *Transfer of best practice and best available technology in RES for isolated regions***
 - Investigation of the RES technologies available
 - Wind power, PV, biomass (ORC, Stirling motor, pellets), biogas (Otto motor), small hydro, absorption cooling
 - Use of RES in isolated regions
 - technologies of energy generation and storage, control of isolated systems with large RES share, RES as the driver of regional development
 - Impact of RES on power system
 - Optimal network configuration, power system control and monitoring procedures, grid connection, grid impact, reserve capacity procurement, wind power production forecasting, dispatching, electricity quality etc..
 - RES project implementation
 - Project preparation, location survey, decision drivers, economic analysis, permit procurement procedures, construction, financing methods and contracting



VBPC – RES Project : Workpackages

➤ WP2. Regulatory and organizational RES framework

- Overview of regulatory frameworks for RES support in EU and Western Balkans countries
 - Overview of existing installations, laws, financing, permit issuing, best practice and REs development barriers
- Regional specifics of RES support mechanisms
 - Development of regulatory frameworks and their comparison (EU and WB)
- Key drivers of RES development
 - Financial support, development programs, energy policy instruments (aims), rewards or fines?, technical conditions: methods of maximization of wind power in the power system, distributed generation and RES integration in power system



VBPC – RES Project : Workpackages

WP3: Communication and dissemination with key focus groups

– Scientific and research community

- *Balkan Power Conference:*
International RES seminar
<http://bpc.fe.uni-lj.si>



– Students

- International student contest on RES
- Balkan Power Summer School on RES
 - 2005 Bucharest, Romania
 - 2006 Fojnica, Bosnia and Herzegovina
- Exchange of researchers and students in partner countries between 1-3 months
- Higher education curriculum on RES technologies and policy

– Decision Makers, *business sector*

- Two local *Decision Makers* workshops (Ohrid and Neum, 2006)
- 5 Local Workshops (Tuzla, Zagreb, Skopje, Novi Sad, Tirana)



VBPC – RES Project : Workpackages

➤ WP3. Communication and dissemination with key focus groups

- Brochures in English and 5 national languages
 - Technologies for RES implementation
 - Regulatory framework for RES support



VBPC – RES Project : More info



Web site of the project www.vbpc-res.org

The screenshot shows the website interface with the following elements:

- Navigation Menu:** news section, about the project, RES technologies, members, conference, workshops, education program, publications.
- quick news:** The next Local RES Workshop is going to be held in Zagreb, Croatia, on March 23, 2007.
- quick links:** International Energy Agency, RECS, Balkan Power Conference, Europa, EC Energy, EUREC Agency.
- mailing list:** A text input field and a 'subscribe' button.
- LATEST NEWS:** 2007. 18 February 2007: The Local Workshop entitled "RES - actual state in BiH and other experiences" is going to be held in Tuzla, Bosnia and Herzegovina, on February 23, 2007. 31 January 2007: Brochure 1 titled "Brochure on RES technologies: Transfer of best practice and..."



Overview of the European Projects Participation Possibilities

➤ Intelligent Energy Europe

Intelligent Energy  Europe

➤ Competitiveness and innovation framework programme 2007-2013



- Support to projects for promotion of energy efficiency and RES
- Stimulation of fundation of regional/local energy agencies
- Support to organization of dissemination events and conferences
- SMEs → stimulation of inovation through networking, financing access and exchange of experience

http://ec.europa.eu/energy/intelligent/index_en.html



Questions?

Further information:

andrej.gubina@fe.uni-lj.si