

# **ENERGY INSTITUTE HRVOJE POŽAR**

## EIHP in the region




## EIHP around the region: Neighbourhood partnership



# EIHP around the world

- electricity
- oil & gas
- renewables
- energy efficiency
- regulatory

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- A world map with several regions highlighted in red, including Mexico, Central and South America, most of Africa, the Middle East, Russia, and parts of Asia and Southeast Asia.
- national strategies
  - project feasibility and bankability
  - energy balances and statistics
    - corporate restructuring
    - mergers and acquisitions



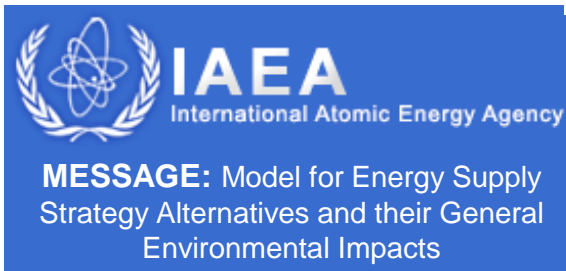
# EU projects



# Expertise



SQL Server



PSS®E

SIEMENS

High-Performance Transmission Planning Application for the Power Industry



wind<sub>sim</sub>



International  
Organization for  
Standardization

**RELUX®**  
light simulation tools

# Partners



Pioneer in integrated consulting services



Mott MacDonald



The energy to lead

RAMBOLL



FØRENDE RÅDGIVNINGSVIRKSOMHED MED EN 360°-TILGANG





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## **Financial support mechanisms for implementing RES and EE measures**

**The Environmental Protection and Energy Efficiency Fund (EPEEF)  
PUBLIC CALL FOR IMMEDIATE FINANCING PROJECTS OF  
RENEWABLE ENERGY SOURCES IN THE TOURIST SECTOR – 2015.**

**Ministry of Entrepreneurship and Crafts  
SUPPORT TO SMEs IN TOURISM INCREASING QUALITY AND  
ADDITIONAL SERVICES OF THE HOTELS - 2016**



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## **Financial support mechanisms for implementing RES and EE measures**

**The Environmental Protection and Energy Efficiency Fund (EPEEF)**


**PUBLIC CALL FOR IMMEDIATE FINANCING PROJECTS OF  
RENEWABLE ENERGY SOURCES IN THE TOURIST SECTOR – 2015.**

### **Aim of the call:**

To set up a system for the use of renewable energy sources for the production of electrical, heat, refrigeration and heat and cooling energy on existing buildings.

### **Beneficiaries:**

The owners of hotels, camps and other types of catering and tourist facilities intended for accommodation or are entitled to use them on the basis of appropriate legal acts.



## The Environmental Protection and Energy Efficiency Fund

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Fund assets are allocated accordingly:

1. up to 80% if the project is implemented in special state concern, in the first group of islands or in protected areas of nature;
2. Up to 60% if the project is carried out on the second group of islands or in the mountainous area,
3. Up to 40% if the project is carried out in other areas of the Republic of Croatia.

The eligible costs of the project are: expert supervision, procurement, installation, measurement, testing, adjustment and commissioning of the power generation system:

- Electrical, from solar energy
- Heat and / or cooling, for sanitary and / or technological water heating and for space heating and cooling with: thermal solar collectors, biomass boilers and Energy Class A heat pumps (according to Eurovent Energy Efficiency Classification)



## The Environmental Protection and Energy Efficiency Fund

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### **The eligible costs of the project are:**

Expert supervision, procurement, installation, measurement, testing, setting up and commissioning of the power generation system.

### **Not eligible costs:**

Preparation of project documentation and VAT in case that it is rejected as a subscription for the granting of subsidy and donation funds.

### **Mandatory documentation:**

- Excerpt from court / craft register / Register of agricultural holdings
- Statement on Completed Investment Financial Structure with Indication of All Funding Funds and Participation of Fund Funds in the Project
- Construction design, Permission to build
- The cost of equipment, works and services with the indicated unit prices and recapitulation of the investment with the highlighted VAT
- Statements ,legal and financial documents (in total 23 documents)

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# **Financial support mechanisms for implementing RES and EE measures**

**Ministry of Entrepreneurship and Crafts**

**SUPPORT TO SMEs IN TOURISM INCREASING QUALITY AND  
ADDITIONAL SERVICES OF THE HOTELS - 2016**

**Aim of the call:**

Extending the tourist season and raising the competitiveness of SMEs in tourism and the development of tourist destinations through increased quality and additional hotel offers.

**Beneficiaries:**

Applicants must be legal or physical entities who are a micro, small or medium-sized enterprise



## Ministry of Entrepreneurship and Crafts

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The lowest grant value, or the lowest amount of grants that can be awarded to a particular project, is HRK 1,000,000. The total state aid cannot exceed the threshold of HRK 10,000,000.

1. Amount of aid is 35% for medium-sized entrepreneurs and 45% for micro and small entrepreneurs
2. Amount of aid for advisory services in favour of small and medium-sized enterprises cannot exceed 50% of the eligible costs.
3. Education and training of employees will be awarded with the following intensity: A) for medium-sized companies 60% of eligible costs, or 70% of eligible costs if they are trained for persons with disabilities or disadvantaged workers; B) for small and micro enterprises 70% of eligible costs.

### **The eligible costs of the project are:**

1. Construction and equipping of new or reconstruction and equipping of existing buildings that will fulfill the minimum conditions and conditions for the 3, 4 or 5 star category upon completion of the investment.
2. Construction, and / or realization of additional contents of existing tourist facilities from a group of hotels, category 3, 4 or 5 stars, which will contribute to the extension of the tourist season and the attractiveness of the offer on the destination.
3. Consultancy services provided by external consultants (directly related to the project for which the regional aid is granted).
4. Participation in fairs and the introduction of a new tourist product if it is directly related to the project for which the regional aid is granted, training and implementation of specialized training, if directly related to the project for which the regional aid is granted.

## Refurbishment, from idea to realization

### Energy Audit

An Energy Audit represents an overview of the energy and water consumption of a building from the collected and processed data related to the consumption of all energy and water consumption systems to assess the potential for possible energy efficiency measures and savings.





## Refurbishment, from idea to realization

### Time to make decision

Refurbishment scenario 1: Investment -  $x$  €, Savings –  $y$  €, Simple payback period –  $z$  years.

Refurbishment scenario n: Investment -  $xx$  €, Savings –  $yy$  €, Simple payback period –  $zz$  years.





## Refurbishment, from idea to realization

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### Project financing for refurbishment scenarios

A - Private funds

B - State (regional, EE fund) aid

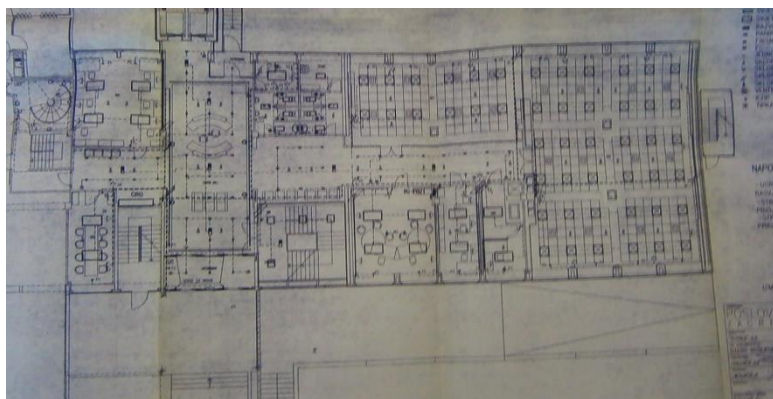
C - Bank loan

### Time to make decision – Refurbishment scenario X



# Refurbishment, from idea to realization

## Project design and cost estimation (bill of quantities)



$Q_H = 1130 \text{ W}$ $Q_G = 2500 \text{ W}$ Tip: 01	lijevi kom 2
$Q_H = 1550 \text{ W}$ $Q_G = 3480 \text{ W}$ Tip: 02	lijevi kom 1 desni kom 2
$Q_H = 2030 \text{ W}$ $Q_G = 4870 \text{ W}$ Tip: 03	lijevi kom 2 desni kom 2
$Q_H = 2550 \text{ W}$ $Q_G = 6300 \text{ W}$ Tip: 04	lijevi kom 1
$Q_H = 3690 \text{ W}$ $Q_G = 8900 \text{ W}$ Tip: 05	desni kom 1
$Q_H = 6215 \text{ W}$ $Q_G = 14600 \text{ W}$ Tip: 6 kao CARRIER tip 42X.	lijevi kom 1 desni kom 2
	kompleta 16
6.3.3 Montažni komplet za spajanje FC aparata, kojeg čine cijevi i 2 kuglasta ventila $\varnothing 1/2"$ i 2 ventila $3/4"$ .	
	kompleta 20
6.3.4 Komplet za spoj FC aparata na razvode medija, kojeg čine:	
- kolčak (Fe) $1/2"$	kom 2
- kolčak (Fe) $3/4"$	kom 2
- spojni red.dio (Cu) $1/2"$ na NO 15	kom 2
$3/4"$ na NO 15	kom 2

## Refurbishment, from idea to realization

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**Permissions, legal documents, financial documents, grant/aid documents ...**

**Offers for equipment and all work presumed under refurbishment scenario.**

**Negotiations!!!**



**Contracts ☺ ?**

## Refurbishment, from idea to realization

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### Work in progress



### Professional and financial supervision





## Refurbishment, from idea to realization

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### **Benefits:**

**New / improved visual identity of the hotel**

**New/improved quality of accommodation and services**

**New marketing opportunity (green hotel, eco / nature friendly hotel ...)**

**Lower costs for energy and water (fixed cost per quest)**



**THANK YOU FOR ATTENTION**

Ilja DRMAČ



[idrmac@eihp.hr](mailto:idrmac@eihp.hr)