

# Key lessons from FIRESPOL for public RES financing

Renewable energy financing for the public sector

Ana Martinez\_ AGENEX

Lead partner of FIRESPOL project





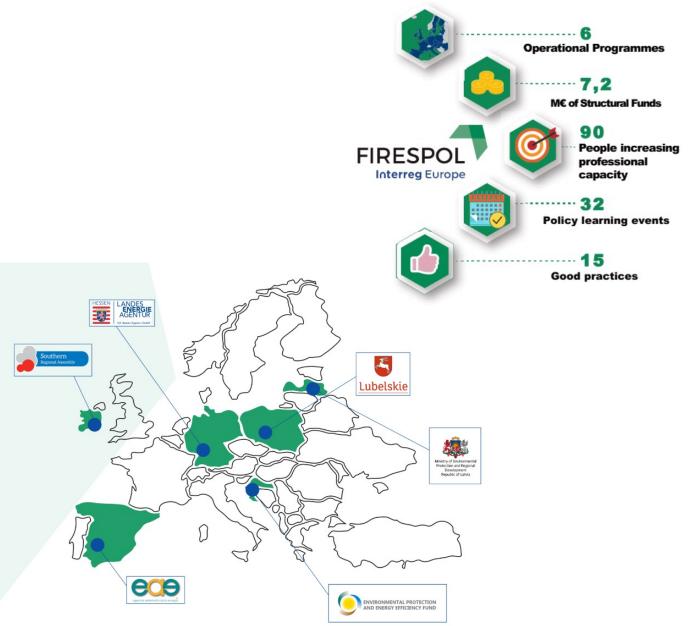




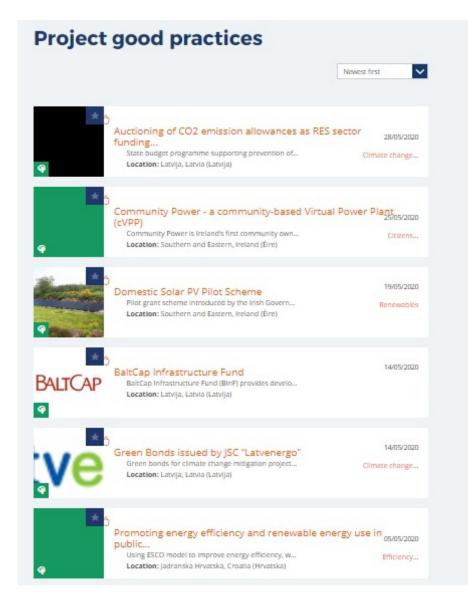
# Financial Instruments for Renewable Energy Investment

FIRESPOL aims at promoting renewable energy sources with public and private financing schemes beyond the traditional grants and subsidies, moving towards innovative financial instruments or complex grant schemes





## FIs for RES Analysis





#### BaltCap buyout investments scheme

BaltCap company provides buyout investments in ... Location: Latvija, Latvia (Latvija)

20/04/2020

28/02/2020

Environment...





#### CO formula in Poland

ESCO project in Public-Private Partnership formula ...

Location: Warmińsko-Mazurskie, Poland (Polska)



#### Coolbawn Water Treatment Plant Biomass ESCO Project

Energy Services Contract (ESCO) approach, includin...

Location: Southern and Eastern, Ireland (Éire)



#### Templederry Community Wind Farm

Templederry Community Wind Farm is a 100% com... Location: Southern and Eastern, Ireland (Éire)

13/02/2020 Environment...



#### Green Bonds issued by National Development Finance

ALTUM Green Bonds (GB) providing loan without c...

Renewables,

Location: Latvija, Latvia (Latvija)

#### From a local Association to Energy Cluster Dolina Zielawy 03/02/2020

Energy cluster Dolina Zielawy contributes to achievi...

Location: Lubelskie, Poland (Polska)

#### SUN Nordhessen: Local Financing and Involvement of

SUN is building and operating wind and solar powe... Location: Kassel, Germany (Deutschland)



#### Solar Initiative (Sonneninitiative e. V.:) Citizen Solar Power.

The Solar Initiative conveys roof areas and interest...

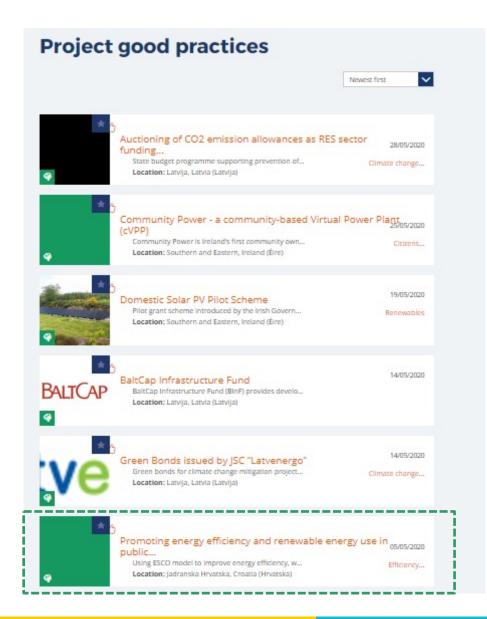
Location: Gleßen, Germany (Deutschland)



#### Energy Saving Service: Police Academy Wiesbaden, Hessen 07/06/2019

"Contracting" as an energy saving service can thus ... Location: Darmstadt, Germany (Deutschland)

## FIs for RES Analysis







## **Opportunities** for FINANCIAL INSTRUMENTS for RES in the public sector



Roofs of public buildings available for PV installations

Ideal climate conditions allowing for significant yearlong PV generation



Concentrated rural population model → shared self consumption network

Facilitating legal framework

## GREAT INVESTMENT NEEDED

(lack of own funds)

New innovative business models such as "internal PPAs" or ESCO services could play a major role in the financing of installations



## Potential FINANCIAL INSTRUMENTS & strategies identified for RES in the public sector

## PPA

## Leasing

## Renting

# Solar communities As a service

- \* Pay for the **ENERGY** generated
- \* More stability in energy prices
- \* More competitive energy prices
- \* No initial investment, the developer invests, designs, installs, operates and maintains
- \* Operation and maintenance risk is on the side of the solar developer

- \* Pay for the **INSTALLATION**
- \* No initial investment
- \* Monthly payments
- \* Energy savings in energy bills
- \* Ownership of the PV once the installation is paid
- \* Maintenance not included

- \* Pay for the **INSTALLATION**
- \* No initial investment
- \* Monthly payments
- \* Energy savings in energy bills
- \* Maintenance can be included
- \* Option to purchase the power plant after a certain number of years

- \* The developer is the owner of the installation
- \*No investment or maintenance cost needed
- \* Energy savings
- \* Possibility to do it with other private and public buildings close to the PV installation (<500m) → Involvement of citizens
- \* Complete service

#### PROJECT BUNDLING

### Barriers of FINANCIAL INSTRUMENTS for RES in the public sector





• Low awareness of the benefits of using FIs for RES public investments

Public Procurement Law

• Lack of experience of public sector using FIs

Legal and Technical assistance needed for tender process

## Key lessons learned from FIRESPOL project for public RES finance





Large scale RES are mainly financed by Project Finance

No specific FIs identified for RES in public buildings during FIRESPOL

Some examples of ESCOs for RES and EE measures in public buildings identified

There is a great opportunity for FIs for public RES finance

Legal & Technical assistance is required for implementation



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Questions welcome





