

# CELSIUS Talk: Public and private funding for DE systems

2017.06.07



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 314441.



# District Energy Systems Financing

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# What the European Energy Efficiency Fund can do for you



### If you are a

### **Public Entity**

 As we have done with: City of Venlo (Netherlands), CHAP Social Housing Association (UK)

## Private company liasing with a public entity

• As we have done with: ISOM (Italy), Enertika (Spain), Bolloré (France), RBE (France), Orléans (France), SPL-Ôser (France), JMB JC (Germany), Munich University JC (Germany)

### Financial Institution financing the above

 As we have done with: Banca Transilvania (Romania)

# Developing a project of

#### **Renewable Energy**

 As we have done with: City of Orléans (France), City of Rennes (France), CHAP Social Housing Ass. (UK)

### **Energy Efficiency**

As we have done with: City of Venlo (Netherlands), Region Rhône Alpes (France), Sant'Orsola Hospital (Italy), Polytechnique of Madrid (Spain), Banca Transilvania (Romania), Jewish Museum of Berlin (Germany), Munich University (Germany), CHAP Social Housing Ass. (UK)

### Clean Urban Transport

• As we have done with: Bolloré – Paris, Lyon, Bordeaux (France)

# With these features

Avoiding
CO2e
emissions at
least for 20%
of the
baseline

Looking for funding in a (flexible) range between 5 and 25 €m

In one of the 28 EU countries

# eeef can support your project providing

### **Funding**

- Debt
- •As we have done for projects of: City of Venlo (Netherlands), Bolloré (France), Region Rhône Alpes (France), CHAP Social Housing Ass. (UK), Sant'Orsola Hospital (Italy), Polythecnique of Madird (Spain), Banca Transilvania (Romania), Jewish Museum of Berlin (Germany), Munich University (Germany)
- Equity
- As we have done for projects of: City of Rennes (France), City of Orléans (France)

### **Technical Assistance**

(see following slide)





# New Technical Assistance facility for a higher succes rate of projects



eeef coordination&monitoring activities and bankability-oriented TA enhance the implementation rate of projects

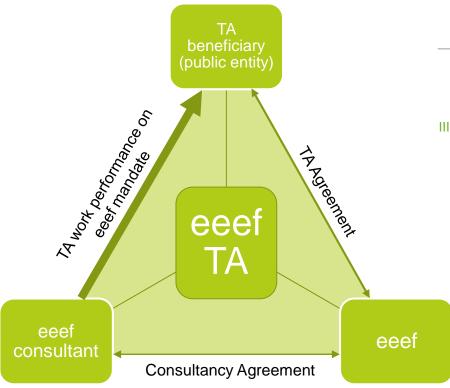
### **TA** boundaries

All activities necessary to prepare investments - feasibility studies, energy audits, assessment of economic viability of investments, legal support etc.

No reimbursement required if the agreed conditions are met e.g. timeframe, leverage factor, eeef (co-)funding

### Background experience

COM TA: 16 TA projects in 8 countries, a total project volume of €155m facilitated



### **How TA works**

- eeef selected consultants
  - Consultant assigned to municipality
- III. Joint definition of project scope
  - IV. Progresses monthly monitored by eeef
  - V. Bankability built all along the development process. eeef participating to project funding otherwise reimbursement of costs

Current status: selected municipalities of Gijón (Spain) and Ferrara (Italy).

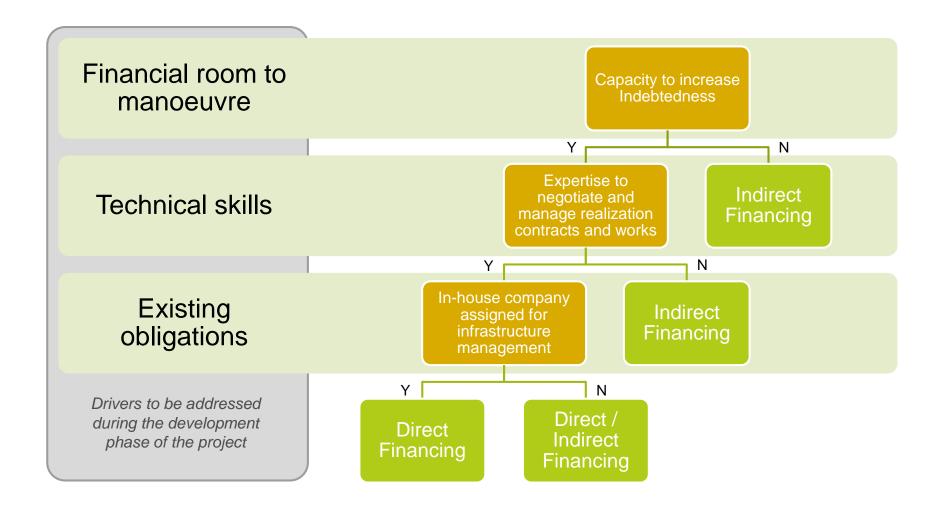
Further funding available

### How to apply as beneficiary

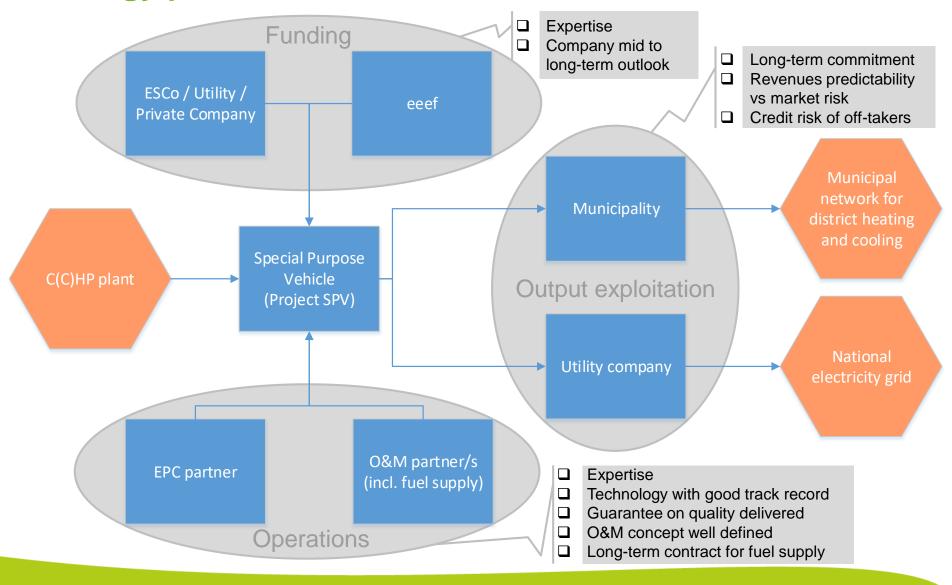
Remaining funding available on a first-come-first-serve basis Application to submit to <a href="technical\_assistance@eeef.eu">technical\_assistance@eeef.eu</a>
All info at <a href="http://www.eeef.eu/eeef-ta-facility.html">http://www.eeef.eu/eeef-ta-facility.html</a>

# Key decision factors for Cities when it comes to define the financial approach





# Model and key drivers for indirect financing of eeff energy production with district distribution

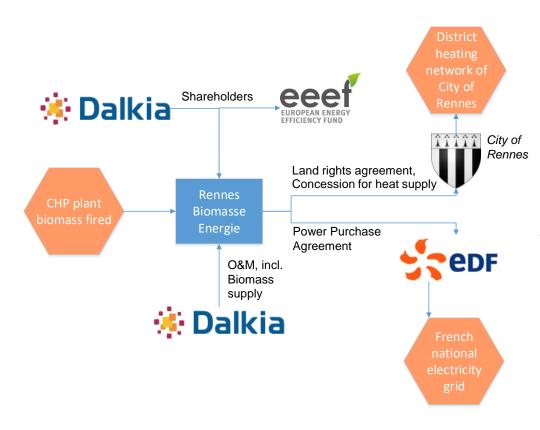


### Case study funded by eeef as equity investor

### CHP Plant biomass fired in the City of Rennes, France



### Project structure



### Project summary

Partners: City of Rennes, Dalkia France

Scope: Greenfield biomass-fired CHP plant with a

capacity of 9.8 MW<sub>e</sub> and 22 MW<sub>th</sub>

Background: Dalkia won a public tender run by a French

Tender Regulation Commission ("CRE3") for generation of electricity / heat fired on

biomass

Results: i) energy production of 67,000 MWh/year

ii) reduction of CO2e emissions of

37,000 t/year, 59% compared to baseline

### Investment key info

 eeef is a 84.4% shareholder of Rennes Biomasse Energie s.a.s. alongside with Dalkia at 15.6%

Total project volume: €47.6m eeef investment size: €7.3m

Financial instrument: junior funds – shareholder loan

Duration of financing: 10 years

 Decentralized energy supply using existing district heating network

 Long term heat off-take agreement with delegated utility company on behalf of the City of Rennes

Supply of biomass within 100km

### Case study funded by eeef as lender





### Project structure

### Project consortium Equity Debt Concession S.Orsola agreement Progetto Malpighi **CCHP** plant ISOM S.p.A. Hospital Regional funding for healthcare **EPC** RegioneEmilia-Romagna O&M

**Project** 

Consortium

### Project summary

Partners: Policlinico S.Orsola Malpighi, Manutencoop

Facility Management, Siram, Sinloc

Scope: Greenfield trigeneration plant + upgrade of

entire fluid distribution network of the hospital

Background: Project consortium won a public tender run

by the Hospital backed by Emilia Romagna

Region

Results: Reduction of CO2e emissions of 14,136

t/year, 31% compared to baseline

### Investment key info

eeef is the long-term lender covering 73% of project volume

Total project volume: € 41m
 eeef investment size: € 32m

Financial instrument: project bond + VAT facility

Duration of financing: 20 years

 Major energy efficiency upgrade in Italy under a Public Private Partnership (PPP)

· Relevant technical complexity

· Replication potential

distributing to

### **Contacts**



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