

Collection of existing financing mechanisms - case: Italy

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## 1. INTRODUCTION

As any activity, energy renovation has its related costs, which vary according to the depth of the refurbishment, i.e. number and complexity of implemented energy efficiency (EE) measures. Therefore, any decision on energy renovation of a building must carefully evaluate these costs and ensure financing, in order to reap the benefits after the implementation.

The aim of this document is to present the possibilities for financing EE projects in the public sector and more specifically in schools. For that purpose, the most common financing models will be briefly presented in chapter 2, while in chapter 3, available financing models in a particular country will be presented and, based on the Project partners' feedback, a comparative analysis of availability, current usage and planned usage of different financing models will be provided.

# 2. ANALYSIS OF FINANCING MODELS FOR EE PROJECTS IN THE PUBLIC SECTOR

In this chapter, a very brief general (not country related) overview of possible financing models for EE in public buildings is given. The chapter ends with comparative analysis of models according to the following criteria: legal aspects, statistical treatment on public debt, complexity of implementation and other identified influencing factors. Pros. and cons. of each model are clearly marked.

## 1.1. Own funding

Traditional financing of projects in cities and municipalities relies dominantly on the use of own budget. One of the financing challenges facing municipalities, more often for smaller municipalities rather than larger ones is the insufficient revenue base with which to fund projects (not only EE projects, but also other development projects as well). An insufficient revenue base, which may be the result of a small number of tax-paying commercial businesses and/or high-income residents, can reduce the availability of adequate funds for capital investments. Municipalities depending on revenue transfers from regional or national governments often have limited revenue-raising powers. Such limitations imply that any decision to invest in an EE project either requires the municipality to reallocate funds or convince higher levels of government that the EE project is economically viable. This may often not be a simple task. Reliance on transfers from other levels of government also exposes municipalities to the risk that permitted levels and uses of funds may be affected by





changes in national budgetary or political priorities. This introduces further uncertainties and makes commitment to multi-year programs of capital expenditures more difficult.<sup>1</sup>

#### 1.2. Loan financing

When it comes to loans, i.e. borrowing, national governments often impose limits on borrowing by municipalities to prevent them getting into financial difficulties. These restrictions may take the form of limits on the use of loan funds and/or on the total amount that municipalities may borrow. In both cases, EE projects are likely to lose out, because they are not typical capital expenditure projects that can be readily assessed and approved by higher authorities. In addition, when debt ceilings are in place, EE projects, with relatively low public profiles, are likely to have a lower priority than other pressing or mandated needs. 2

Soft loans are dedicated credit lines for EE measures extended to end users at preferential terms in terms of maturity and/or interest rates. Such credit lines are often provided by national or international development banks (such as European Investment Bank (EIB) and European Bank for Reconstruction and Development (EBRD) and are further distributed to designated markets through regional partner retail banks.

#### 1.3. ESCO model

The terms "energy services" and "energy service companies (ESCO)" are already well known and established in the energy efficiency field. They were defined already in the Energy Services Directive (2006/32/EC). There are many initiatives to promote ESCO model in the EU, due to its potential to remove several important barriers to energy efficiency in public sector - availability of up-front capital needed for EE investments and lack of technical knowledge and capacities to develop, implement and monitor EE projects. ESCOs are companies that work on a basis of energy performance contracts (EPC). In an energy EPC arrangement, the ESCO is responsible for optimizing building services systems and system operations in existing buildings across all branches of construction and maintenance. The main service provided by the ESCO is a guaranteed level of savings over a defined period.

Basic concept of EPC is shown in Figure Błąd! W dokumencie nie ma tekstu o podanym stylu.-1.

Before a tender is made, an energy cost baseline is determined for the building (or building pool) or facility. This is usually based on the energy consumption of the calendar year prior

<sup>&</sup>lt;sup>1</sup> Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH: "CF4EE - Crowdfunding for Energy Efficiency", October 2016, available at: http://www.ieadsm.org/wp/files/2016-10-28-CF4EE-Feasibility-Study-final.pdf

<sup>&</sup>lt;sup>3</sup> 'Energy service': the physical benefit, utility or good derived from a combination of energy with energy efficient technology and/or with action, which may include the operations, maintenance and control necessary to deliver the service, which is delivered on the basis of a contract and in normal circumstances has proven to lead to verifiable and measurable or estimable energy efficiency improvement and/or primary energy savings

<sup>&</sup>lt;sup>4</sup> 'Energy service company' (ESCo): a natural person or legal entity that delivers energy services and/or other energy efficiency improvement measures in a user's facility or premises, and accepts some degree of financial risk in so doing. The payment for the services delivered is based (either wholly or in part) on the achievement of energy efficiency improvements and on the meeting of the other agreed performance criteria





to commencement of the EPC, which is often also compared to the two preceding years in order to eliminate extreme climatic influences, usage fluctuations, etc. The evaluated baseline data is climate adjusted on the basis of mild or hot days (annual degree days). Proceeding from the energy cost baseline, the ESCO guarantees an annual energy cost savings (in EUR, calculated on a fixed price basis with the energy prices of the reference year) to the customer over the entire contract period. A fixed proportion of these guaranteed savings is set as the contracting fee, which the ESCO receives from the client to finance the investment, maintain the installations and attain a profit margin. Usually, the fee is set lower that the guaranteed saving in order for client to immediately benefit from savings.

## **Energy Performance Contracting (EnPC)**

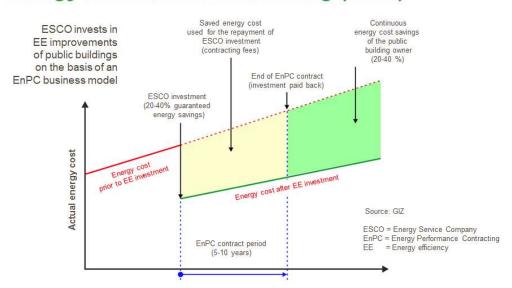


Figure Błąd! W dokumencie nie ma tekstu o podanym stylu.-1 – Basic concept of EPC and ESCO operation

In order to verify the annual energy savings, incurred energy consumption costs are converted into the reference year basis and then compared to the baseline during EPC bill audits. For the sake of ensuring this comparability, energy supply bills received by the client need to be adjusted for the following factors:

- deviations from the reference year in climatic conditions (annual degree days);
- changes in energy prices compared to the reference year (energy bills received by the customer must always be converted into the energy prices of the reference year);
- changes in building/facility usage compared to the reference year (insofar as these may cause energy consumption changes).

If the difference between the adjusted energy cost savings and the guaranteed cost savings is zero, the ESCO is exactly within the performance parameters of its contract. If the difference is greater than zero, contract over-performance sets in (savings are greater than guaranteed); in this case, the extra savings can be shared among the ESCO and the client. If the difference is negative, the ESCO has not achieved its savings goal and must reimburse





the customer with the resulting difference (because, according to EPC, ESCO guarantees savings).

If energy prices rise, the energy cost savings of the customer increase (energy saved multiplied by energy Price increases). This delivers additional budgetary benefit for the customer.

Contractually agreed one-off payments at the beginning (e.g. investment or building cost contributions) or at the end of the contract term (redemption sum) are also possible. With this solution, higher investment costs do not necessarily lead to higher contracting fees or longer contract durations.

Financing of EE project may or may not be ensured by ESCO<sup>5</sup>. There are two basic cases:

- Customer financings this model is usually referred to as "guaranteed savings".
  Here, an ESCO guarantees the outcome of investment in EE measures, but the
  customer (client) covers the whole investment and is responsible for accounting. This
  model is suitable if the customer has access to capital and if ESCO is a rather small
  company with limited balance sheet total.
- 2. ESCO financing this model is usually referred to as "shared savings". Here, ESCO provides the financing, and is thus also responsible for the accounting, for all necessary investment, normally by borrowing from a bank. The customer pays a fee to the ESCO for the services rendered and for investment payback. Under a shared savings EPC arrangement, the client participates in the energy cost savings from the start of the main performance obligation period. The level of a client's share in cost savings must be stipulated in the contract. Typically, a client's profit share is between 10% and 20% of the savings achieved. Profit-sharing from the start results in shared savings EPC contracts having longer periods than a fixed-term arrangement, being that the annual contracting fee available to the ESCo for refinancing investment costs is lower. The benefit is that the customer's budgeted costs are directly reduced during the main performance obligation period of the savings guarantee agreement.

#### 1.4. PPP model

A Public-Private Partnership (PPP) arrangement differs from conventional public procurement in several respects. In a PPP arrangement the public and private sectors collaborate to deliver public infrastructure projects (e.g. roads, railways, hospitals) which typically share the following features:

 a long-term contract between a public procuring authority (the "Authority") and a private sector company (the "PPP Company") based on the procurement of services, not assets;

<sup>&</sup>lt;sup>5</sup> Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH: "Assessing Framework Conditions for Energy Service Companies", September 2012, available at: <a href="https://www.giz.de/fachexpertise/downloads/giz2013-enesco-guide.pdf">https://www.giz.de/fachexpertise/downloads/giz2013-enesco-guide.pdf</a>





- the transfer of certain project risks to the private sector, notably with regard to designing, building, operating and/or financing the project;
- a focus on the specification of project outputs rather than project inputs, taking account of the whole life cycle implications for the project;
- the application of private financing (often "project finance") to underpin the risks transferred to the private sector; and
- payments to the private sector which reflect the services delivered. The PPP Company may be paid either by users through user charges (e.g. motorway tolls), by the Authority (e.g. availability payments, shadow tolls) or by a combination of both (e.g. low user charges together with public operating subsidies).

The rationale for using a PPP arrangement instead of conventional public procurement rests on the proposition that optimal risk sharing with the private partner delivers better "value for money" for the public sector and ultimately the end user.

PPP arrangements are more complex than conventional public procurement. They require detailed project preparation and planning, proper management of the procurement phase to incentivise competition among bidders. They also require careful contract design to set service standards, allocate risks and reach an acceptable balance between commercial risks and returns. These features require skills in the public sector which are not typically called for in conventional procurement. <sup>6</sup>

#### 1.5. Grant schemes

Most of available grant schemes are based on the use of European Unison structural and investment funds (ESI). EE projects in buildings belong to projects that generate net income after completion, i.e. the energy cost savings of the project are treated as net income.

Under the preamble (paragraph 13) of the Delegated Regulation 480/2014, as well as under recital (paragraph 58) of Regulation 1303/2013 of the EU, it is necessary to accurately calculate net income to ensure the efficient use of Union funds and to avoid over-financing of projects. Determining the share of co-financing by the Union should reflect the rule of non-profit - grants must not result in earning a profit. If they are profitable, it is necessary to conduct a financial analysis to determine the financing gap, the assessment of the need for grant and the amount of potential grants. Therefore, the purpose of co-financing through grants is to close the financing gap that is generated in energy efficiency projects when the investment in energy efficiency cannot be paid off from savings on energy costs.

The formula for calculating the financing gap is:

<sup>6</sup> EIB European PPP Expertise Centre: <a href="http://www.eib.org/epec/g2g/intro2-ppp.htm">http://www.eib.org/epec/g2g/intro2-ppp.htm</a>

<sup>&</sup>lt;sup>7</sup> GUIDANCE FOR BENEFICIARIES of European Structural and Investment Funds and related EU instruments, EC, 2014 (<a href="http://ec.europa.eu/regional\_policy/sources/docgener/guides/synergy/synergies\_beneficiaries.pdf">http://ec.europa.eu/regional\_policy/sources/docgener/guides/synergy/synergies\_beneficiaries.pdf</a>)





$$NPV(i, N) = \sum_{t=0}^{N} \frac{R_t}{(1+i)^t} = R_0 + \sum_{t=1}^{N} \frac{R_t}{(1+i)^t}$$

where:

**NPV**(**i**, **N**) net present value of the project

*i* – discount rate

*N* – period of project evaluation

 $R_0$  — initial investment

 $R_t = R_1 \dots R_N$  - net income = annual energy cost savings and maintenance costs

The net present value is the difference between the sum of discounted net income over the entire project implementation period and the amount of investment costs. The net present value represents measure of added value today that results from the undertaken investment. In case the project has a negative net present value, it corresponds to the amount of the financing gap. The financing gap represents a part of the investment that needs to be co-financed by grants so that the net present value of the project corresponds to the amount of zero.

After calculating the financing gap in an absolute amount, it is necessary to determine the project co-financing rate. The co-financing rate is obtained as the ratio of the financing gap amount and the amount of initial investment in the energy efficiency project.

The formula for calculating the required co-financing rate is as follows:

$$co-financing\ rate = \frac{NPV\ (i,N)}{R_0}$$

If the project is co-financed by grants with the co-financing rate calculated according to the aforementioned model, the energy efficiency project in buildings will achieve net present zero value and will be economically justified.

### 1.6. Combination of different financing models

Usually, energy efficiency projects in public buildings combine two financing models. Rarely, more than two financing models are used. Research of usual practices in the Project Partner countries showed that dominantly grants (if available) are combined with own financing.

Recently, with the availability of EU structural and investment funds for energy efficiency across the MS, the blending of such funds with other financing models becomes increasingly interesting. The blending refers to combination of grants with other financing mechanism such as loans or ESCO/PPP model.

## 1.7. Comparative analysis of financing models

The financing models described above may be compared based on several important criteria as demonstrated in the Table blow. There is no universally best solution, but for each particular situation (country, region, building) an optimal solution should be tailor-made.





# Table Błąd! W dokumencie nie ma tekstu o podanym stylu.-1 Comparative analysis of considered models

Criteria/ Model	Own financing	Loan financing	Grants	ESCO model	PPP model
Neutral impact on government debt	$\odot$	<b>:</b>	$\odot$	•••	$\odot$
Administrative procedure complexity	$\odot$	•••			$\odot$
Guarantee of savings / service standard				$\odot$	$\odot$
Capacities and capabilities of the public bodies to implement the model	$\odot$				$\odot$
Estimated multiplier effect	$\odot$	<b>②</b>	•••	$\odot$	<u></u>
Projects for which the model is appropriate	Simple EE measures with short pay-back periods	Simpler EE measures with shorter pay-back periods	More complex projects, with longer pay-back periods	Highly complex projects, with moderate pay-back periods (up to 10 years)	Highly complex projects, usually with new buildings, long-term





## 3. EXISITING FINANCING MECHANISMS IN ITALY

#### 2.1. Summary of available financing mechanisms

In Italy, EE projects in schools are typically financed through combination of grants and own funding. The main type of incentives issued by the Italian Government and available for Public Administration is the "Conto Termico 2.0" (Thermal Account). Grant incentive includes: 1) up to 65% for the nearly Zero Emission Building for existing building; 2) up to 40% for the insulation of walls and roofs interventions, for the replacement of windows, for the installation of solar shielding, indoor lighting, the building automation technologies and condensing boilers; 3) up to 50% for heat insulation measures in climate zones E/F and up to 55% in the case of thermal insulation and replacement of windowed closures, if combined with other system (condensing boilers, heat pumps, solar thermal, etc.); 4) up to 65% for heat pumps, biomass boilers and appliances, hybrid systems with heat pumps and solar heating systems; 5) 100% of the costs for the Energy Audit and for the Energy Performance Certificate for the PA (and ESCOs operating on their behalf) and 50% for private entities, with the cooperatives of inhabitants and social cooperatives. Another important source of funding is European Regional Development Fund. Grants up to 30% can be awarded from ERDF. The incentives can be combined as long as they do not exceed 100% of the eligible expenditure. ESCO model is still underutilised in the public sector, while PPP development is still in very early phase.

An oveview of available financing mechanisms for EE projects in schools in Italy is given in Table below, while details are given in the Section 3.2.

**Table** Błąd! W dokumencie nie ma tekstu o podanym stylu.-2 Overview of financing mechanisms for EE projects in schools

Criteria/ Model	Own financing	Loan financing	Grants	ESCO model	PPP model
Availability	V	-	V	√	√
Previous and current usage	V	-	V	-	-
Planned usage	√ V	-	√	√	-

## 2.2. Detailed feedback on financing mechanisms

1. General information			
Name of partner	ENEA/Municipality of Bologna		
Type and number of schools chosen for	Elementary (6-10 years old)	Secondary (11-13 years old)	College
pilots	2	1	0
Who is the legal owner of schools	The owner of the school buildings is the Municipality of Bologna; in the case of High schools the management is in charge to the Metropolitan City of Bologna		
Who pays utility bills and regular maintenance for	Elementary and secondary: Mu City of Bologna	nicipality of Bologna; High s	schools: Metropolitan





schools				
What is the source for	Local public funds			
those costs				
Who is responsible for	Municipality's and Metropolitan City's technicians			
making decisions on				
implementation of				
energy renovation				
projects	J:66			den andina en estante esta ella
What is the source for the cost of energy				depending on single school's unds (EU projects - rarely)
renovation	solutions. State, i	egion, tocat a	and other public i	ulids (EO projects - raiety)
Which department	It is not specified	d. Neverthele	ess. in general, a	mong other duties, the energy
(sector, institution) is				implement energy efficiency
responsible for				At the Municipality of Bologna,
implementation of				s Urban Planning, Home and
energy renovation (in	Environment Depa	artment (Dipa	rtimento Urbanist	tica, Casa e Ambiente)
public buildings)				
2. Financing EE projects	s using own funds			
Do you have funds in	,	Yes		No FE
your budget allocated	/			not specifically for EE
for EE projects in				purpose
public buildings				
				N
Do you have funds in	,	No		No
your budget allocated for EE projects	/			/
specifically in schools				
Have you already		No		No
implemented EE	1			
projects in schools	-			
using own funds				
3. Financing EE projects	s using credit or lo		bt)	
	Carras	Yes	Damassumant	No
	Source	Interest	Repayment	See below
Is this kind of financing	(commercial bank,	rate	period	
available for you?	development			
	bank, other)			
	,			
		N/		N
Do you have plans to	1	Yes		No See below
invest in EE projects in	/			see perow
schools using this				
model				
		Yes		No
Have you conducted EE	/			According to the Italian law,
project in schools				public sector cannot have
financed by credit or loan funds (debt)				debts (if they exceed the National Stability Law
tour runus (debt)				thresholds).
4. Financing EE projects using grants, subsidies or other incentives				
Is this kind of financing		Yes		No





available for you?	Source	Grant rate		/
	(national, EU	%	of grant per	
	funds, other)		project	
	1) European	30%	€ 500.000,00	
	Regional			
	Development			
	Funds POR FESR			
	calls (nearly			
	twice a year)			
	Institution			
	responsible:			
	Emilia-Romagna			
	Region			
	Source of			
	funds: EU			
	Who is eligible			
	for applying:			
	Public sector -			
	buildings and			
	plants			
	Total amount			
	available for all			
	applicants: In			
	Emilia-Romagna			
	the total			
	amount is €			
	28.000.000,00			
	Conto Termico	Up to 65%	Each	
	(Thermal	"	improvement	
	Accounting)		action has a	
	Institution		specific	
	responsible:		reimbursement	
	Italian Ministry		rate which is	
	for Economic		calculated	
	Development		case specific.	
	(MiSE)		For nZEB	
	Source of		renovations	
	funds: National		the maximum	
	Who is eligible		rate of	
	for applying:		reimbursement	
	Public and		is 65%. Vat is	
	private sector		eligible.	
	Total amount		-	
	available for all			
	applicants:			
	Annual limit of			
	funds is €			
	900.000.000,00.			
	Good schools:	Caso	Depends on	
		Case	Depends on	
	school buildings	specific. It		
	Institution	is not	renovation.	
	responsible:	possible to		
	Ministry of	measure.		
	Education,			
	University and			





	Research	
	(MIUR)	
	Source of	
	funds: National	
	Who is eligible	
	for applying:	
	public schools	
	(not	
	universities)	
	Total amount	
	available for all	
	applicants:	
	€3,9 billions	
	(for all types of	
	renovation -	
	seismic, safety	
	and energy)	
Do you have plans to	Yes	No
invest in EE projects in	No, but it is possible in the future	/
schools using this		
model	V	N
Have you conducted EE	Yes	No
project in schools co-	/	/
financed by grants, subsidies or other		
incentives		
	- · · · · · · · · · · · · · · · · · · ·	
5. Financing EE project		No
	Yes	No No
Is this kind of financing	Yes ESCO market is increasing in Italy and it	
	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy	
Is this kind of financing available for you?	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.	/
Is this kind of financing available for you?  Do you have plans to	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes	/ No
Is this kind of financing available for you?  Do you have plans to invest in EE projects in	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.	/
Is this kind of financing available for you?  Do you have plans to invest in EE projects in	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes	/ No
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes	/ No
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future	/ No /
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes	/ No /
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes	No No As already said the ESCO
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes	No  No  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes	No  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes	No  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools financed by credit or	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes	No  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation and the big size (in terms of
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes	No  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation and the big size (in terms of time and money) of the ESCO
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools financed by credit or	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes	No  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation and the big size (in terms of time and money) of the ESCO contract is something that
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Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools financed by credit or loan funds (debt)	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes  /	No  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation and the big size (in terms of time and money) of the ESCO contract is something that
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Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools financed by credit or loan funds (debt)	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes  /  Yes	No  /  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation and the big size (in terms of time and money) of the ESCO contract is something that still need to be addressed properly.
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools financed by credit or loan funds (debt)  6. Financing EE project Is this kind of financing	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes  /  Susing PPP model  Yes  Still underdeveloped model, with no	No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation and the big size (in terms of time and money) of the ESCO contract is something that still need to be addressed properly.
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools financed by credit or loan funds (debt)	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes  /  Yes	No  /  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation and the big size (in terms of time and money) of the ESCO contract is something that still need to be addressed properly.
Is this kind of financing available for you?  Do you have plans to invest in EE projects in schools using this model  Have you conducted energy efficiency project in schools financed by credit or loan funds (debt)  6. Financing EE project Is this kind of financing	Yes  ESCO market is increasing in Italy and it appears to be a solid future for energy management in the public sector.  Yes  May be in the future  Yes  /  Susing PPP model  Yes  Still underdeveloped model, with no	No  /  No  As already said the ESCO model is quite new in Italy. Moreover, the time and energy consuming administrative process for ESCO tenders preparation and the big size (in terms of time and money) of the ESCO contract is something that still need to be addressed properly.





invest in EE projects in schools using this model	, ,	/
Have you conducted energy efficiency project in schools financed by credit or loan funds (debt)	Yes /	No PPP model is recent. These models will be considered in the years to come.