

Advancing Sustainable Energy for Europe Quarterly Fact Sheet as of 31/03/2018

eeef highlights

The Italian Ministry of Defense is the third public authority to benefit from eeef's Technical Assistance Facility (TAF). The eeef Technical Assistance Facility assists public authorities to prepare feasibility studies, energy audits, evaluate the economic viability of investments and launch the tender process, and received part of funding from the ELENA Facility under Horizon 2020 Programme of the European Union. The eeef TAF will provide consultancy services for the building retrofit project of the historical Ducal Palace in Modena, Italy, as a government property in use to the Ministry of Defense.

The building currently houses the headquarters of the Military Academy, where military students receive training. Additionally, part of the Eastern Tower of the Palace houses the University of Modena and Reggio Emilia's (UNIMORE) geophysical/meteorological observatory and the first floor hosts a museum where the Municipality of Modena offers guided tours.

The Italian Ministry of Defense's Energy Task Force identified that an Energy Performance Contracting (EPC) model could provide a solution for the energy refurbishment of the Military Academy. The Energy Task Force and UNIMORE completed a concept feasibility study, which indicates a potential project volume of EUR 8.1m, split in circa EUR 5m to upgrade heating systems and circa EUR 3.1m for building envelopes.

The eeef TAF will allow completing fully-fledged feasibility studies of the Palace, accurately assessing the current infrastructure and proposing improvements and measures appropriate to a building of such historical value. All of the recommendations will comply

with the architectural constraints required by law to protect the public heritage of the Palace. The proposed measures will enable the prestigious historical building to upgrade to the latest energy standards at the same time as to offer the military students and staff access to a better learning environment.

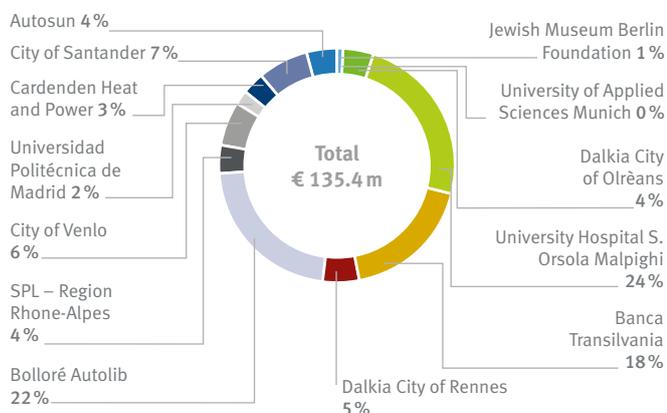
On 22 – 23 February, took place in Athens, featuring speakers from all over Europe, the Conference on Smart Islands and Small Cities, organized by the Aegean Energy & Environment Agency (AEEA), the Network of Sustainable Greek Islands DAFNI and the energy portal Energypress. AEEA is used to collaborate with the European Commission, in fact the event in Athens built on the ratification on 28 March 2017 of the Smart Islands Declaration by 36 island representatives, networks and organizations at the presence of General Director for Energy Dominique Ristori. According to the AEEA's General Director Mr. Ilias Efthymiopoulos, "the conference highlighted the conditions for intelligent development at local level. It defined the respective roles and duties for government, municipalities, enterprises, citizens' unions, academia, as well as to present the roadmap to enable the technical and financial supporting structures available to small cities and islands by National and European funding mechanisms and programmes". The European Energy Efficiency Fund has been invited to join the event to present its value proposition, to which the audience responded with vibrant interest, especially in how the Fund combines tailored structures for investment financing with Technical Assistance. The event gave the public sector in islands and small communities new instruments to implement their projects for smarter infrastructures and services.



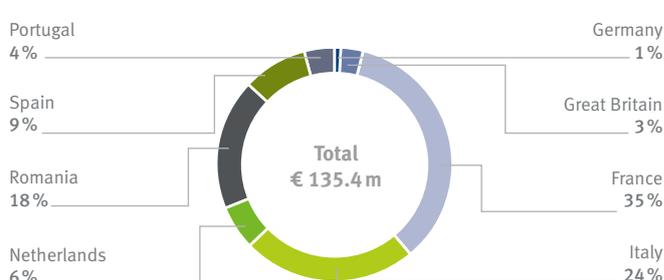
Advancing Sustainable Energy for Europe

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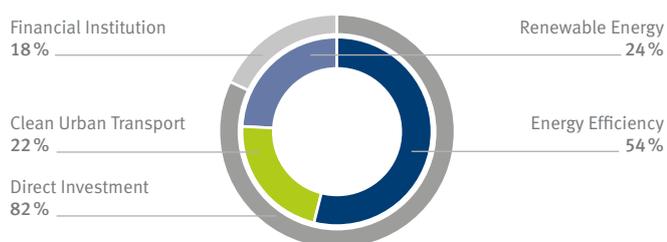
Investments by Partner Institution*



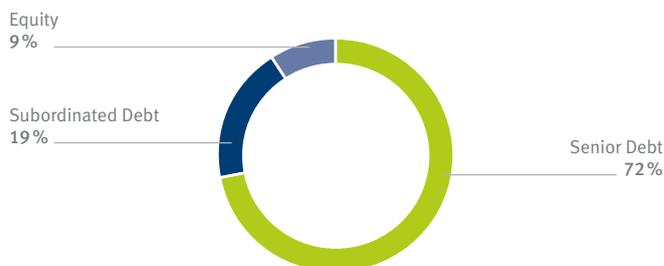
Investments by Country*



Investments by type of Partner Institution*



Investments by Financial Instrument



* Based on commitments signed to projects, not including repayments or accrued interests.

CO₂ savings (in tCO₂e)

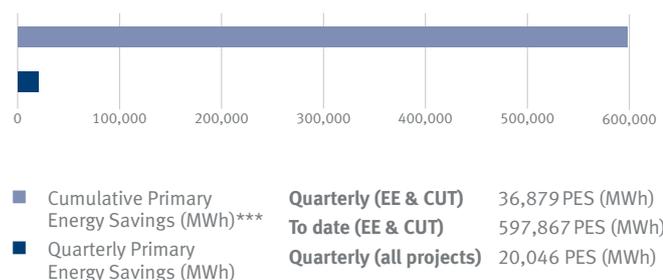


NAV as at 31/12/2017 (in € million)**



** NAV as of 30 March 2018 will be available after conclusion of IFRS9 processing.

Primary Energy Savings (PES)



*** Cumulative data includes calculations from financial close to loan maturity, based on estimations for projects under construction and less than one year of operations and actual data for projects which have been in operation for over one year. Savings are for total project investment volume (i. e. eeef and non-eeef investments). Portfolio Primary Energy Savings CUT & EE (absolute and percentage) is for 100% energy efficiency (EE), clean urban transport (CUT) and additional capacity RE projects only.

EE – energy efficiency.
CUT – Clean urban transport.

eef closed transactions

Existing projects

<p>Project: Jewish Museum Berlin</p> 	<table> <tr> <td>Country:</td> <td>Germany</td> </tr> <tr> <td>Sector:</td> <td>Energy Efficiency</td> </tr> <tr> <td>Type of Investment:</td> <td>Forfeiting</td> </tr> <tr> <td>Total project size (€ m):</td> <td>1.4</td> </tr> <tr> <td>eef investment size (€ m):</td> <td>0.9</td> </tr> <tr> <td>Financial close:</td> <td>20 March 2012</td> </tr> <tr> <td>Maturity:</td> <td>10 years</td> </tr> <tr> <td>Status:</td> <td>In construction</td> </tr> </table>	Country:	Germany	Sector:	Energy Efficiency	Type of Investment:	Forfeiting	Total project size (€ m):	1.4	eef investment size (€ m):	0.9	Financial close:	20 March 2012	Maturity:	10 years	Status:	In construction
Country:	Germany																
Sector:	Energy Efficiency																
Type of Investment:	Forfeiting																
Total project size (€ m):	1.4																
eef investment size (€ m):	0.9																
Financial close:	20 March 2012																
Maturity:	10 years																
Status:	In construction																

General description

Johnson Controls' Energy Service Company (ESCO) and the Jewish Museum Berlin entered into an amended Energy Performance Contract (EPC) for both buildings of the museum with a total EPC volume of € 1.4 m. Agreeing on energy efficiency measures comprising of the optimisation of heating, ventilation & air conditioning and an efficient energy management system, the project is expected to achieve a 26% reduction of CO2 emissions compared to the baseline. It is a lighthouse project because of its innovative financing structure using forfeiting as a funding source.

Recent developments

- Project performance in line with envisaged plan

<p>Project: University of Applied Sciences Munich</p> 	<table> <tr> <td>Country:</td> <td>Germany</td> </tr> <tr> <td>Sector:</td> <td>Energy Efficiency</td> </tr> <tr> <td>Type of Investment:</td> <td>Forfeiting</td> </tr> <tr> <td>Total project size (€ m):</td> <td>1.1</td> </tr> <tr> <td>eef investment size (€ m):</td> <td>0.6</td> </tr> <tr> <td>Financial close:</td> <td>15 November 2012</td> </tr> <tr> <td>Maturity:</td> <td>10 years</td> </tr> <tr> <td>Status:</td> <td>In operation</td> </tr> </table>	Country:	Germany	Sector:	Energy Efficiency	Type of Investment:	Forfeiting	Total project size (€ m):	1.1	eef investment size (€ m):	0.6	Financial close:	15 November 2012	Maturity:	10 years	Status:	In operation
Country:	Germany																
Sector:	Energy Efficiency																
Type of Investment:	Forfeiting																
Total project size (€ m):	1.1																
eef investment size (€ m):	0.6																
Financial close:	15 November 2012																
Maturity:	10 years																
Status:	In operation																

General description

Johnson Controls' ESCO and the University of Applied Sciences Munich (UoM) entered into an energy performance contract (EPC) for both buildings of the UoM's campus in Munich-Pasing with a total EPC volume of € 1.1 m. The ESCO and UoM agreed on energy efficiency measures comprising the acquisition of a 49.5 kW combined heat and power (CHP) plant, the optimisation of heating, lighting, metering, building management and pumping. The implementation of all measures achieves an 6% reduction of CO2 emissions compared to the baseline. The ESCO guarantees the UoM certain energy savings p. a. and performs maintenance and building operation services for the 10 year contract period. This project is a role model for further energy efficiency investments in educational facilities such as schools, universities etc.

Recent developments

- Project performance in line with envisaged plan

<p>Project: City of Orléans</p> 	<table> <tr> <td>Country:</td> <td>France</td> </tr> <tr> <td>Sector:</td> <td>Renewable Energy</td> </tr> <tr> <td>Type of Investment:</td> <td>Junior Funds</td> </tr> <tr> <td>Total project size (€ m):</td> <td>36.0</td> </tr> <tr> <td>eef investment size (€ m):</td> <td>5.1</td> </tr> <tr> <td>Financial close:</td> <td>12 March 2013</td> </tr> <tr> <td>Maturity:</td> <td>Perpetual</td> </tr> <tr> <td>Status:</td> <td>In operation</td> </tr> </table>	Country:	France	Sector:	Renewable Energy	Type of Investment:	Junior Funds	Total project size (€ m):	36.0	eef investment size (€ m):	5.1	Financial close:	12 March 2013	Maturity:	Perpetual	Status:	In operation
Country:	France																
Sector:	Renewable Energy																
Type of Investment:	Junior Funds																
Total project size (€ m):	36.0																
eef investment size (€ m):	5.1																
Financial close:	12 March 2013																
Maturity:	Perpetual																
Status:	In operation																

General description

The CHP plant with an installed capacity of 7.5 MW in electricity and 17 MW in thermal heat supplies the heat to the City of Orléans and sells the electricity via a Power Purchase Agreement (PPA) to Electricité de France (EDF) at a negotiated tariff fixed over 20 years. The plant is fired by wood biomass (90,000 tonnes p. a.) from a supply radius of less than 100 km. This project is the first equity investment of eef (majority owner of the plant with 84%). The operation of the CHP plant achieves a reduction of CO2 emissions by 18,533 tonnes p. a., approx. 65% compared to the baseline.

Recent developments

- Project performance in line with envisaged plan

Advancing Sustainable Energy for Europe

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eef closed transactions

Existing projects (continued)

<p>Project: University Hospital S. Orsola Malpighi</p> 	<table> <tr> <td>Country:</td> <td>Italy</td> </tr> <tr> <td>Sector:</td> <td>Energy Efficiency</td> </tr> <tr> <td>Type of Investment:</td> <td>Senior Debt</td> </tr> <tr> <td>Total project size (€ m):</td> <td>41.0</td> </tr> <tr> <td>eef investment size (€ m):</td> <td>32.0</td> </tr> <tr> <td>Financial close:</td> <td>8 May 2013</td> </tr> <tr> <td>Maturity:</td> <td>20 years</td> </tr> <tr> <td>Status:</td> <td>In operation</td> </tr> </table>	Country:	Italy	Sector:	Energy Efficiency	Type of Investment:	Senior Debt	Total project size (€ m):	41.0	eef investment size (€ m):	32.0	Financial close:	8 May 2013	Maturity:	20 years	Status:	In operation
Country:	Italy																
Sector:	Energy Efficiency																
Type of Investment:	Senior Debt																
Total project size (€ m):	41.0																
eef investment size (€ m):	32.0																
Financial close:	8 May 2013																
Maturity:	20 years																
Status:	In operation																
General description																	
<p>The project entity, Progetto ISOM S. p.A., a special purpose vehicle (SPV) which is the counterparty of eef, signed a concession agreement with the University Hospital S. Orsola Malpighi (UHSOM) in Bologna. Planned initiatives are intended to raise the energy efficiency of the entire fluid production and distribution system and reduce energy consumption via adoption of energy efficient equipment such as centrifugal chillers and absorbers, reconstruction of heat distribution networks, renovation of heat exchange substations and inclusion of a tri-generation plant for the combined production of cooling, heat and power (CCHP) sized on the basis of the energy consumption of the hospital facility which is fuelled by methane gas. The project will achieve a reduction of CO₂ emissions by 7,881 tonnes p. a., approx. 26% compared to the baseline. It has been the largest energy efficiency upgrade in Italy under a public-private partnership (PPP) framework so far and is a lighthouse project which demonstrates the positive impact of energy efficiency measures in public healthcare.</p>																	
Recent developments																	
<ul style="list-style-type: none"> • Project performance in line with envisaged plan. 																	

<p>Project: Banca Transilvania</p> 	<table> <tr> <td>Country:</td> <td>Romania</td> </tr> <tr> <td>Sector:</td> <td>Financial Institution</td> </tr> <tr> <td>Type of Investment:</td> <td>Subordinated Debt</td> </tr> <tr> <td>Total project size (€ m):</td> <td>25.0</td> </tr> <tr> <td>eef investment size (€ m):</td> <td>25.0</td> </tr> <tr> <td>Financial close:</td> <td>26 September 2013</td> </tr> <tr> <td>Maturity:</td> <td>10 years</td> </tr> <tr> <td>Status:</td> <td>Investment phase</td> </tr> </table>	Country:	Romania	Sector:	Financial Institution	Type of Investment:	Subordinated Debt	Total project size (€ m):	25.0	eef investment size (€ m):	25.0	Financial close:	26 September 2013	Maturity:	10 years	Status:	Investment phase
Country:	Romania																
Sector:	Financial Institution																
Type of Investment:	Subordinated Debt																
Total project size (€ m):	25.0																
eef investment size (€ m):	25.0																
Financial close:	26 September 2013																
Maturity:	10 years																
Status:	Investment phase																
General description																	
<p>Banca Transilvania (BT), one of the leading banks in Romania, and eef signed a letter of intent regarding green lending to support energy efficiency and renewable energy investments in Romania. It is the first cooperation of the eef with a financial institution and also its first transaction in Eastern Europe. With BT, eef has a strong local partner with experience in financing several energy efficiency projects.</p>																	
Recent developments																	
<ul style="list-style-type: none"> • N/A 																	

<p>Project: City of Rennes</p> 	<table> <tr> <td>Country:</td> <td>France</td> </tr> <tr> <td>Sector:</td> <td>Renewable Energy</td> </tr> <tr> <td>Type of Investment:</td> <td>Junior Funds</td> </tr> <tr> <td>Total project size (€ m):</td> <td>47.6</td> </tr> <tr> <td>eef investment size (€ m):</td> <td>7.3</td> </tr> <tr> <td>Financial close:</td> <td>12 December 2013</td> </tr> <tr> <td>Maturity:</td> <td>Perpetual</td> </tr> <tr> <td>Status:</td> <td>In operation</td> </tr> </table>	Country:	France	Sector:	Renewable Energy	Type of Investment:	Junior Funds	Total project size (€ m):	47.6	eef investment size (€ m):	7.3	Financial close:	12 December 2013	Maturity:	Perpetual	Status:	In operation
Country:	France																
Sector:	Renewable Energy																
Type of Investment:	Junior Funds																
Total project size (€ m):	47.6																
eef investment size (€ m):	7.3																
Financial close:	12 December 2013																
Maturity:	Perpetual																
Status:	In operation																
General description																	
<p>The fund has completed its second equity transaction, investing in Rennes Biomasse Energie, which operates a combined heat and power facility with an electrical output of 9.8 MWe and thermal output of 22 MWth over 20 years. This junior fund investment has been realised through the purchase of 85% of the shares of Rennes Biomasse Energie by eef. Dalkia France is co-investor along with eef and is shareholder of the remaining 15% of Rennes Biomasse Energie. The plant supplies 21,000 households in the city with green heat. The facility is estimated to save 13,258 tonnes of CO₂ per year.</p>																	
Recent developments																	
<ul style="list-style-type: none"> • Project performance in line with envisaged plan 																	

eeef closed transactions

Existing projects (continued)

<p>Project: Bolloré</p> 	<table> <tr> <td>Country:</td> <td>France</td> </tr> <tr> <td>Sector:</td> <td>Clean Urban Transport</td> </tr> <tr> <td>Type of Investment:</td> <td>Senior Debt</td> </tr> <tr> <td>Total project size (€ m):</td> <td>30.0</td> </tr> <tr> <td>eeef investment size (€ m):</td> <td>30.0</td> </tr> <tr> <td>Financial close:</td> <td>23 December 2013</td> </tr> <tr> <td>Maturity:</td> <td>5 years</td> </tr> <tr> <td>Status:</td> <td>In operation</td> </tr> </table>	Country:	France	Sector:	Clean Urban Transport	Type of Investment:	Senior Debt	Total project size (€ m):	30.0	eeef investment size (€ m):	30.0	Financial close:	23 December 2013	Maturity:	5 years	Status:	In operation
Country:	France																
Sector:	Clean Urban Transport																
Type of Investment:	Senior Debt																
Total project size (€ m):	30.0																
eeef investment size (€ m):	30.0																
Financial close:	23 December 2013																
Maturity:	5 years																
Status:	In operation																
General description																	
<p>The French company Bolloré signed a bond subscription agreement for floating rate notes worth € 30m issued by Bolloré and purchased by the eeef with a maturity of 5 years. eeef's investment is used to finance electric cars and required infrastructure used in Bolloré's European electric car rental concession. This transaction is within the framework of a green transportation initiative for the cities of Paris, Lyon and Bordeaux.</p>																	
Recent developments																	
<ul style="list-style-type: none"> • N/A 																	

<p>Project: Société Publique Locale Efficacité énergétique (SPL)</p> 	<table> <tr> <td>Country:</td> <td>France</td> </tr> <tr> <td>Sector:</td> <td>Energy efficiency measures, public buildings upgrades</td> </tr> <tr> <td>Type of Investment:</td> <td>Senior Debt</td> </tr> <tr> <td>Total project size (€ m):</td> <td>approx. 25</td> </tr> <tr> <td>eeef investment size (€ m):</td> <td>5.0</td> </tr> <tr> <td>Financial close:</td> <td>3 April 2014</td> </tr> <tr> <td>Maturity:</td> <td>5 years</td> </tr> <tr> <td>Status:</td> <td>Implementation phase</td> </tr> </table>	Country:	France	Sector:	Energy efficiency measures, public buildings upgrades	Type of Investment:	Senior Debt	Total project size (€ m):	approx. 25	eeef investment size (€ m):	5.0	Financial close:	3 April 2014	Maturity:	5 years	Status:	Implementation phase
Country:	France																
Sector:	Energy efficiency measures, public buildings upgrades																
Type of Investment:	Senior Debt																
Total project size (€ m):	approx. 25																
eeef investment size (€ m):	5.0																
Financial close:	3 April 2014																
Maturity:	5 years																
Status:	Implementation phase																
General description																	
<p>The Société Publique Locale d'Efficacité Énergétique (SPL) signed a mid-term loan agreement for € 5 m to finance the refurbishment of public buildings during their construction phase and to pave the way for raising further long term financing. The SPL was initiated by the Région Rhône-Alpes as a private special purpose company under the French Commercial Code, but operating with public capital. It is associated with a number of public authorities in the region and is dedicated to implementing energy-efficient refurbishment projects of public buildings (high schools, schools and gymnasiums), including renewable energy production. By setting an example of upgrading public buildings, while going beyond standard thermal regulations, the SPL is thinking ahead and aims to achieve its long-term objectives of energy savings and greenhouse gas reduction.</p>																	
Recent developments																	
<ul style="list-style-type: none"> • N/A 																	

<p>Project: City of Venlo</p> 	<table> <tr> <td>Country:</td> <td>The Netherlands</td> </tr> <tr> <td>Sector:</td> <td>Energy Efficiency</td> </tr> <tr> <td>Type of Investment:</td> <td>Senior Debt</td> </tr> <tr> <td>Total project size (€ m):</td> <td>8.6</td> </tr> <tr> <td>eeef investment size (€ m):</td> <td>8.5</td> </tr> <tr> <td>Financial close:</td> <td>3 April 2014</td> </tr> <tr> <td>Maturity:</td> <td>15 years</td> </tr> <tr> <td>Status:</td> <td>In operation</td> </tr> </table>	Country:	The Netherlands	Sector:	Energy Efficiency	Type of Investment:	Senior Debt	Total project size (€ m):	8.6	eeef investment size (€ m):	8.5	Financial close:	3 April 2014	Maturity:	15 years	Status:	In operation
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Sector:	Energy Efficiency																
Type of Investment:	Senior Debt																
Total project size (€ m):	8.6																
eeef investment size (€ m):	8.5																
Financial close:	3 April 2014																
Maturity:	15 years																
Status:	In operation																
General description																	
<p>The City of Venlo signed a long-term financing contract for € 8.5 m to finance street lighting upgrades with the objective of equipping a minimum of 16,000 lighting points with LED lights (73% of the total lighting points of the city) and achieving more than 56% energy savings. The existing public lighting is the largest consumer of electricity with approximately 36% of total consumption of the municipality. The large-scale street lighting upgrade is a further sign of the city's commitment towards environmental sustainability including, among other things, being one of the first cities in the world to support the principle of 'Cradle to Cradle' (C2C), a framework for using sustainable energy resources only, phasing out conventional energy sources.</p>																	
Recent developments																	
<ul style="list-style-type: none"> • Project performance in line with envisaged plan 																	

eef closed transactions

Existing projects (continued)

	<p>Project: Universidad Politécnica de Madrid</p> <p>Country: Spain Sector: Energy Efficiency Type of Investment: Forfeiting Total project size (€ m): 2.5 eef investment size (€ m): 2.5 Financial close: 18 November 2015 Maturity: 9 years Status: In operation</p>
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General description

eef provided financing for the replacement of existing oil boilers providing hot water and heating to the Universidad Politécnica de Madrid (“UPM”). The retrofit of new gas boilers, thermal valves and thermal PV solutions will be completed in 32 buildings of the UPM. The project will realise 22 % of Primary Energy Savings and 36 % CO₂e savings annually compared to baseline. The transaction resulted from the public tendering process launched by the UPM earlier this year. Ingeniería y Servicios de Eficiencia Energética S. L. (“Eneritika”) was awarded with the nine year mandate, and the Energy Management Contract (“EMC”) was signed on the 4th of September 2015. The EMC will consist of measures to provide and install the technology required to upgrade existing infrastructure and perform operation and maintenance services as required to ensure optimal performance of the new technology.

Recent developments

- Project performance in line with envisaged plan

	<p>Project: Cardenden Heat & Power (CHAP)</p> <p>Country: United Kingdom Sector: Energy Efficiency, Renewable Energy Type of Investment: Senior Loan Total project size (€ m): 5.5 eef investment size (€ m): 4.34 Financial close: 31 October 2016 Maturity: 16 years Status: In operation</p>
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General description

The project involves the replacement of gas boilers in residential buildings owned by Ore Valley Housing Association (OVHA) and small wind farms in the Fife Region in Scotland developed by CHAP. OVHA is a Scottish Housing Association, a registered social landlord with charitable status operating in central Fife, while CHAP is a subsidiary of OVHA. The boilers will be leased to OVHA and the wind plants will benefit of the national Feed in Tariff. The senior debt facility provided by eef is complemented by junior funds from the Scotland’s Renewable Energy Investment Fund (REIF) and equity from OVHA/CHAP. Overall, the project’s target is to achieve cumulative annual savings of 99 % for primary energy and 96 % for CO₂e compared to baseline.

Recent developments

- First disbursement in November 2016.
- Implementation of boilers and wind turbine completed in March 2017.

	<p>Project: City of Santander</p> <p>Country: Spain Sector: Energy Efficiency Type of Investment: Forfeiting Loan Total project size (€ m): 9.2 eef investment size (€ m): 9.2 Financial close: 18 August 2017 Maturity: 14 years Status: End of construction</p>
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General description

The project consists of the upgrade of the existing street lighting luminaires from predominantly high pressure sodium vapour lamps to the last generation PHILIPS LEDs. In the 12 months construction period, ending in November 2017, the number of lighting points replaced will come to a total of around 22,300 units. A system of UVEX wireless sensors will connect the whole infrastructure point-by-point with the City’s digital communication network and the remote CEMILUX control system. Savings in CO₂ and primary energy are envisaged to reach 80 % compared to the baseline. The project emerges from the European Commission Technical Assistance, successfully completed in 2015, with the Municipality of Santander receiving €450k of funding to conduct energy audits, set up the street lighting investment programme and the tender documents. The project is one of the largest street lighting upgrades in Spain under a Public Private Partnership (PPP) framework.

Recent developments

- €9.2m fully disbursed in December 2017 as planned, when more than 98 % of installations were completed. The project is expected to achieve final commissioning in April 2018.

eeef closed transactions

Existing projects (continued)

<p>Project: Wattosun</p> 	<p>Country: Portugal Sector: Renewable Energy Type of Investment: Junior funds (equity and shareholder loan) Total project size (€ m): 10 eeef investment size (€ m): 5.1 Financial close: 29 December 2017 Maturity: 15 years Status: Signed MoU, portfolio under construction</p>
General description	
<p>The project consists of a portfolio of small-scale PV plants, allowing self-consumption up to 5.6 MW in total to end-users in the public sector across Portugal. Beneficiaries will be public entities such as municipalities, state-owned companies and other public authorities. The portfolio developer is Wattosun, an agile player with a highly skilled management team, which comes to a total of over 50 years of experience in developing, financing and operating rooftop and ground mounted PV plants globally.</p> <p>The portfolio, comprising seven sub-projects, foresees installation of circa 21,100 solar panels. When compared to the baseline and the Portuguese electricity grid, the project is expected to allow seven public authorities to save globally CO₂e emissions of 2,650 tonnes per year and primary energy savings of 20,736 MWh per year. The self-consumed electricity would enable the public authorities to minimise or even exclude any exposure to changes in energy prices and benefit from effective electricity cost reduction.</p>	
Recent developments	
<ul style="list-style-type: none"> • Signed MoU, portfolio under construction 	

eeef created a number of videos to show the projects evolution, please watch them on the eeef website <https://www.eeef.eu/home.html>

eeef Technical Assistance development

The Technical Assistance (TA) Facility of the Fund, which has also received funding from the ELENA Facility under Horizon 2020 Programme of the European Union, was launched end of 2016. The objective of the new facility is to support public authorities to prepare investment programmes for a sustainable transformation in the areas of energy efficiency (mainly public building renovation

and street lighting upgrades) as well as small scale renewable energy. eeef has selected a pool of consultants to work closely with the public authorities during the preparation of feasibility studies, energy audits, public tender processes etc. Up to now, three projects have been selected under this facility: City of Gijón, Ferrara Province and Italian Ministry of Defence – Ducal Palace.

<p>Project: City of Gijón</p> 	<p>Country: Spain Sector: Energy Efficiency Total investment volume (€ m): 21.7 TA amount approved (€): 400,000 Financial close: 24 April 2017</p>
General description	
<p>City of Gijón is planning the implementation of an ambitious sustainable investment programme to complete energy audits for 98 public buildings and 40,000 street lighting points, identifying the appropriate set of energy efficiency and/or renewable energy related interventions, preparing and publishing the tendering documentation as well as preferably selecting an ESCO company to realise the measures within a two-year timeframe. As a Covenant of Mayor and RECI member (Spanish Association for Smart Cities), the city is fully committed to share its experience and best practices with other public authorities, thereby boosting the replication potential for such type of projects in Spain but also Europe-wide.</p>	
Recent developments	
<ul style="list-style-type: none"> • Data collection for street lighting inventory completed • Master lighting plan established, technical and economic analysis of proposed interventions in progress • Energy inventory of facilities ongoing 	

<p>Project: Ferrara Province – via SIPRO</p> 	<p>Country: Italy Sector: Energy Efficiency Total investment volume (€ m): 15.3 TA amount approved (€): 389,500 Financial close: 31 May 2017</p>
General description	
<p>Joining forces with SIPRO (Agenzia Provinciale per lo Sviluppo) – a development agency with a 40-year track record – the investment programme of the Province of Ferrara addresses the implementation of energy efficiency measures in several municipalities to prevent high energy consumption and heat loss going forward. Municipalities directly involved in this TA project are Ferrara, Cento, Argenta, Bondeno, Mesola, Copparo and Voghiera. The investment programme includes deep energy retrofitting measures (in 13 buildings such as schools, offices, town halls and sport facilities) and the replacement of 27,000 public lighting points to LED technology in the cities of Ferrara and Voghiera. The tender for a LED replacement is planned to be launched by the end of 2017.</p>	
Recent developments	
<ul style="list-style-type: none"> • Energy audits carried out for 15 buildings, reports in progress • Screening and validation of public lighting database for Voghiera finalised; reports in progress • Planning of public lighting interventions for Ferrara completed; tender specifications finalised; tender publishing expected in Q1 2018 	

eeef Technical Assistance development (continued)

<p>Project: Italian Ministry of Defense – Ducal Palace</p> 	<p>Country: Italy Total investment volume (€ m): 8.1 TA amount approved (€): 340,000 Financial close: 5 March 2018</p>
General description	
<p>The Ducal Palace in Modena (Italy) is owned by the Italian government and is currently used by the Italian Ministry of Defense (MoD). With a total project volume of €8.1m, the upgrade of thermal systems (€5.0m) is expected to include new pipes for the network distribution plus improvement of the existing ones, advanced climate control system, replacement of old radiators and boilers and retrofitting the hot water system. For the building envelope (€3.1m) the MoD plans reducing thermal losses by introducing insulation in internal opaque walls and air infiltration with improved sealing of window frames. The the Ducal Palace of Modena is located in the City of Modena, in the Italian region of Emilia Romagna. The palace was the residence of the Este Dukes of Modena for more than two centuries and today is owned by the Italian government. The main part of the building is currently used by the MoD and houses the headquarters of the Military Academy. In this building, military students attend academic lessons of several university courses held by professors from the public University of Modena and Reggio Emilia (UNIMORE). Part of the Eastern Tower of the palace houses the geophysical-meteorological observatory of UNIMORE, while the first floor is a public museum of the Military Academy with guided tours offered by the Municipality of Modena.</p>	
Recent developments	
<ul style="list-style-type: none"> • Preliminary data screening for energy audits started 	

Advancing Sustainable Energy for Europe

Quarterly Fact Sheet as of 31/03/2018

EC Technical Assistance development

eef provided grant money under the European Commission TA Facility (until 31 March 2014) facilitating nine investments with a total investment volume of around € 130 m. The projects are at various stages. While Région Rhône-Alpes, OVHA and Venlo successfully achieved the financing stage with eef, further three

projects (Santander, Terrassa and CIMAC) are currently discussing financing with eef. A number of projects are under completion using other sources of funding, thereby generating € 95 m worth of investment programmes.

Public authority	Country	Description of the investment programme	Total size of the investment programme (EURm)	TA volume approved (EUR)	Estimation of CO ₂ reduction (tonnes per annum)	Estimation of Primary Energy Savings (mWh/y)	EEEF share (EURm)	
 City of Santander	Spain	EE – Public lighting/ building retrofit	14.3	452,560	4,396	39,848	9.2	
 City of Cordoba ¹	Spain	EE – Public lighting/ building retrofit	1.7	527,968	N/A	N/A	other sources of funding	
 Cabildo of La Palma	Spain	Public lighting/ building retrofit/ clean urban transport	TA termination, funds returned					
 City of Terrassa	Spain	Public lighting/ building retrofit/ clean urban transport/PV	16.2	623,467	3,952	12,695	5.0	
 City of Marbella	Spain	Public lighting/ building retrofit/PV	8.8	417,596	3,725	8,466	5.0	
 Région Rhône-Alpes ²	France	EE – Building retrofit	25.0	1,125,000	992	4,156	financing closed (€5 m)	
 Municipality of Ringkøbing-Skjern	Denmark	RE – Biomass	Based on TA outcome, project not feasible					
 Ore Valley Housing Association ³	UK	EE – District heating	5.5	1,382,520	1,612	8,968	financing closed (€4.3 m)	
 City of Elche	Spain	Public lighting/ building retrofit/ clean urban transport/ PV/biomass	TA termination, funds returned as agreed (Eligible TA funds provided: € 29.291,55)					
 City of Venlo	Netherlands	EE – Public lighting	8.6	425,000	948	4,632	financing closed (€8.5 m)	
 University of Liège	Belgium	EE – Building retrofit	32.6	1,340,073	2,718	19,277	other sources of funding	
 Limerick and Clare Education and Training Board	Ireland	Building retrofit/ PV/micro wind	Based on TA outcome, project not feasible					
 Groupement de Redéploiement Economique de la province de Liège	Belgium	EE – Building retrofit	59.9	2,000,000	1,449	29,900	other sources of funding	
 CIMAC (Comunidade Intermunicipal do Alentejo Central)	Portugal	Public lighting/ building retrofit/ clean urban transport/ PV/biomass	21.3	513,441	6,909	19,000	14	
 Municipality of Zaanstad	Netherlands	EE – Open and smart energy network	Based on TA outcome, project not feasible					
 Roscommon County Council	Ireland	EE – Biomass district heating	TA termination, funds returned					
Total:			193.9	8,807,626	26,701	146,942	51	

¹ TA amount will be reduced due to non-achievement of leverage factor (LF)

² To be determined after project implementation phase

³ Based on a conversion factor of 1.1912 for GBP as of 10th May 2017. Since the initial project structure (which received TA funds) was not pursued, LF and saving data not applicable. For the new project scope savings of 8,968 mWh and 1,732t CO₂ p. a. are expected

Investors



Disclaimer

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