

SECRETARÍA DE ESTADO DE PRESUPUESTOS Y GASTOS DIRECCIÓN GENERAL DE FONDOS EUROPEOS GOVERN ILLES BALEARS \

**BUENAS PRÁCTICAS** 

**Actuaciones** Cofinanciadas



## Una manera de lacer Europa

Electrification Project of the railway corridor Enllaç-Manacor Serveis Ferroviaris de Mallorca (SFM)

Programa Operativo de Illes Balears

Año 2018

Fondo Europeo de Desarrollo Regional

## ELECTRIFICATION PROJECT OF THE RAILWAY CORRIDOR ENLLAÇ-MANACOR

Basic description of the project.

Serveis Ferroviaris de Mallorca (SFM) is the public company of the Government of the Balearic Islands responsible for managing the services and railway infrastructures in the Island of Mallorca.

The co-financed activity consists of the electrification of the railway corridor between the stations of S'Enllaç and Manacor in Mallorca, and involves the construction of four 1.5 kV traction substations (Manacor, Sant Joan, Petra and Enllaç) and five energy transformation centers, 34 kilometers of single-track flexible catenary and five energy transformation centers to feed the catenary with an electrical connection from the distribution network, as well as its own internal distribution network, since the distribution network of the area did not have the capacity to service the railway line until now.

Because that this railway line connects Palma with all the towns that the electrified line crosses to Manacor, the entire population residing in Mallorca will be able to benefit from the action.

The eligible cost of the action is  $26,955,192 \in$ , of which  $50\% \in 13,477,596$ ) are co-financed by the European Regional Development Fund.

Below are the arguments that make this action a Good Practice, according to the criteria defined for these purposes.

Criterion 1. High diffusion among the beneficiaries and the general public.

This action has been widely diffused through the different information and advertising measures developed.

First of all, the publication of the tender for the work in the Platform for Contracting of the Autonomous Community of the Balearic Islands has referred to the co-financing of the contract by the EU through the ERDF. The co-financing of the ERDF is also announced, both in the announcement of the Official State Gazette (BOE) and in the Official Gazette of the European Union (DOUE).

Núm. 199	Jueves 18 de agosto de 2016	Sec. V-A. Pág. 48146	
	<ul> <li>a) Descripción: Serveis Ferroviaris de Mallorca. Apertura de las proposit técnicas (sobre n°2).</li> <li>b) Dirección: Passatge Cala Figuera, 8.</li> <li>c) Localidad y código postal: Palma - 07009.</li> </ul>	ciones	
	<ul> <li>d) Fecha y hora: 7 de octubre de 2016 a las 13:00 horas.</li> <li>10. Gastos de publicidad: A cargo del adjudicatario.</li> </ul>		
	<ol> <li>Fecha de envío del anuncio al "Diario Oficial de la Unión Europea": 8 de agosto de 2016.</li> <li>Otras informaciones: -El presente contrato tiene condiciones especiales de ejecución, establecidas en el cuadro de características básicas de la contratación, en el pieco de cidausulas administrativas particulares.</li> </ol>		
	<ul> <li>-El presente contrato podrá ser cofinanciado en un 50% con cargo al pro- operativo 2014-2020 del Fondo Europeo de Desarrollo Regional (FEDER) Illes Balears.)</li> </ul>		
	<ul> <li>-La apertura del sobre nº3 (oferta económica) será el día indicado en el perfil de contratante 72 horas antes.</li> </ul>		
	Palma, 8 de agosto de 2016 El Director Gerente, Mateu Capellá Ribot. ID: A1600:	50190 1	

← Image of the publication in the Official State Gazette of the contract notice of the contract

In all the documentation related to the contracting file, the European Union logo and the reference to the European Regional Development Fund are included, as well as the mention of the co-financing under the ERDF Operational Program 2014-2020 of the Balearic Islands (in the

administrative clauses, the Report justifying the need for the contract, Reception Acts, among other documents).

Once the action has been completed, an informative plaque identifying the action developed has been placed, as established in the Application Regulation, as it is an investment with a public contribution of more than  $\in$  500,000.



Image of the documents in the file of public

Informative plaque of the electrification works of the Enllaç - Manacor Section

This visibility has been reinforced by the information contained on Serveis Ferroviaris de **Mallorca's website** on the different projects it promotes within the framework of the 2014-2020 Balearic ERDF PO, where this project is included:

http://82.194.85.213/user31/SFM2013/seccions.php?register\_vars[sec1]=24&register\_vars[sec2]=0&register\_vars[sec3]=0

In addition, and in order to diffuse the action, during the month of June 2018, a total of 40 Vocational Training students of the IES Felanitx and IES Manacor Public Institutes of the training course of Electrical and Automatic Installations visited the electrification works. SFM has promoted these guided tours in order to inform students about the environmental benefits of the project, and has consisted of an explanation by a company technician of the construction and operation of Petra's electrical substation and its surroundings. On the occasion of these visits, the financial contribution of the European Union in the execution of the project has also been reported.



Image of the students visit to the co-financed performance

Publication of news on the web of the Government

In order to be able to inform the public about the action, emphasizing its co-financing by the European Union, a portable roll-up of the performance has been designed, which is used every time that an act of communication is carried out. Likewise, in the bus shelters and in the monitors inside the train carriages, images have been projected to inform of the FEDER co-financing in the project.



In addition, small size promotional material has been developed, such as external battery units for charging electronic devices that include, according the regulations, the emblem and reference to the European Union.



Roll-up image

Image of the marquee

Image of the Power Bank Unit

There have been several advertising campaigns in various media of the Balearic Islands. All of them, in addition, have collected information about the action implementation, from the laying of the first stone, to the progress in its execution, in the written press, as can be seen in the images included, and in the regional emissions radio and television, as you can see in the following link:

https://ib3.org/al-juliol-els-trens-de-serveis-ferroviaris-de-mallorca-seran-totalmentelectrics.html



In the same way, several informative notes have also been prepared on this subject, which have been published in the news section of Balearic Island's Government website.



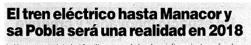
## La electrificación del tren estará finalizada a principios de verano

La inversión de 40 millones la aportan a partes iguales el Govern y los fondos Feder de la UE





News in the newspaper El Mundo of February 20th, 2018



Hay un superavi por la falta de inve		propios del Govern y ayudas de la UE		
MNADAL	El coste total de la obra será de 47 millones de eu-	Al margen	de tracción, que serán las que suministrarán la ener-	
Los unuarios del ferrosci- ril de sa Polsa y Manacor tendrán que bajarse en la estación Enlla y para cam- biar de tren hasta el 2018 la la la sola de la la sub- cando al la la la la la la la campa de la la la la la la la campa de la la la la la la la campa de la l	ere que te financie de 190 res que te financie de 190 y a través de fondos pro- pios del Govern balear y de la Unioh Europea (UE). El vicepresident del Go- vern, biel Barciel, señalo de la electrificación del en an objetivo importanti- simo la movilidad sosteni- tiano la movilidad sosteni- tiano la movilidad sosteni- la obra empezará a princepiso de 2017 y tendis La obra empezará a princepiso de 2017 y tendis La obra empezará a princepiso de 2017 y tendis a colarizabación de la constru- ciadad y en la construc- tiva de la construc- tiva de la construc- tiva de la construc-	SFM alhorrará 630.000 euros al año herectificación del ten permite alhorar 630.000 euros al año. Al biolificación del alhorar 640.000 euros de norma edel del al alhorar edel alhorar estas electrificada toda la red el electrificada toda la red electrificada toda la red electrifi	gia a la cutarata. A pesar del líncio en vicepresident la neclo daj claro que «el actual Go- vern confinuario esgliendo europia los compromisos adquiridos con los conve- nios ferroviarios, compro- misos que se dejaron de cumplia con el Gobierno de Cala a ratic de estor in- cumplimientos que el Go- ente de Cala Seara adelan- te al proyecto de electrificación con recumos de las faza militanes senti- de da faza Europea.	

News in the newspaper Última Hora of May 6th, 2016

Likewise, in June 2018, SFM edited a video on the execution of the work that can be seen on the YouTube channel where the logos and emblems of the EU are included. The video can be seen in this link:

https://www.youtube.com/watch?v=v8UnCTpBtj8&feature=youtu.be

The fourth issue of the Bulletin of European Funds in the Balearic Islands will also include information about the project and the ERDF contribution in its execution, paying special attention to the results achieved thanks to this investment.



Image of the project audiovisual on Youtube

Bulletin of European Funds in the Balearic Islands (No. 4, December 2018)

Finally, another way of dissemination is the mapping system for co-financed projects of the DG European Funds, located on this website. (http://www.caib.es/sites/fonseuropeus/ca/portada\_2016/?campa=yes. This online application, which is accessible to anyone, allows us to visualize, not only the geographical location of the investment, but also offers systematized data on the name, scope of intervention, co-financing fund, EU aid, total eligible cost and even images of the investment made.

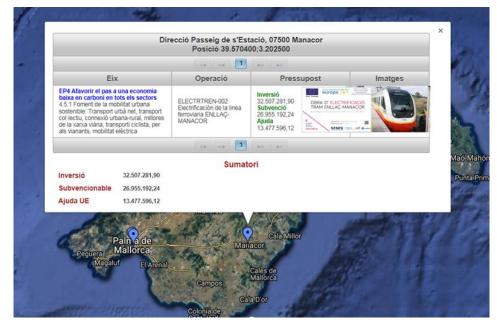


Image of the location system for co-financed projects of the Balearic Islands

All these actions allowed all investment target groups to have first-hand information about the development and results of the project.

Criterion 2. Incorporation of innovative elements.

The main innovative element of the used technology allows an annual energy saving of 25% and reduces up to 30% of the maintenance costs of the trains in comparison to the diesel units.

In addition, remote telecontrol units and a medium-voltage ring of 15 kV have been installed, which allow permanent monitoring from the control center in case of a power failure. Optical fibre has also been extended along the way in order to be able to pass the information.



Criterion 3. Adaptation of the results obtained to the established objectives.

The start-up of the project means a great advance for the users since the transhipment has been eliminated, the travel time has been reduced, it has supposed a considerable increase of the comfort for the passengers, since the electric train implies a disminution of noises and vibrations. In addition, it has meant greater reliability in the service offered, since electric trains make it possible to offer a better service to the user.

Other results achieved have to do with the decrease in the production of waste and emissions of carbon dioxide into the atmosphere.

The implementation of this service will improve the travellers service, raising the benefits there it and reducing travel time.



Criterion 4. Contribution to the resolution of a regional problem or weakness.

Between the thirties and the sixties of the twentieth century, Mallorca was one of the most railway islands in the Mediterranean. For decades, the railroad was permanently at risk of disappearing and its progressive collapse was initiated by automobile competition. The generalized motorization of the population, and the tourist boom that moved the main economic activity of the island from the interior to the coasts, were responsible for the last wave of line closures.

The transport sector in the Balearic Islands is the main consumer sector of energy (58%) and uses liquid petroleum products as a fuel, practically in its entirety. It is aimed at reducing greenhouse gas emissions and increasing energy self-sufficiency, the electrification of the railway line has made it possible to achieve environmentally sustainable transport, by replacing diesel with electricity, as well as reducing the use of private vehicles.

Till the date, the railway network of Mallorca was electrified from Palma to the station of S'Enllaç and from this section to the Manacor station had to change trains, which caused great discomfort for passengers, loss of safety and quality of service.



All this has enabled the reduction of energy consumption, the reduction of pollution in urban and rural environments and the promotion of sustainable mobility in Balearic Islands.

Currently, with the important weight of tourism in the insular economy, the railway lines do not provide service to the coastal cores that generate mobility. Therefore, it is about bringing the railroad to the main population centres so that they can benefit from the advantages of the railway throughout the whole year, (work trips, studies, leisure ...), becoming a real alternative to the use of the private car.

In addition, this action will reduce the notorious deficit of public transport infrastructures suffered in Balearic Islands, improving the connectivity of the affected municipalities (Inca, Sineu, Petra, Sant Joan and Manacor) with the rest of the municipalities of Mallorca.

Criterion 5. High degree of coverage of the target population.

Rail transport is used by 6.5 million passengers per year in Mallorca. In any case, the entire population residing in Mallorca will be able to benefit from the action, since it means linking Palma with all the towns that the electrified line crosses to Manacor.



The thousands of tourists visiting the Island will also benefit, since it will allow them to access the different municipalities.

The Palma-Manacor routes, that used to take 60 minutes, will be done in 50 minutes and the frequencies that used to be every 60 minutes have been converted into 40-minute frequencies.

Criterion 6. Consideration of the horizontal criteria of equal opportunities and environmental sustainability.

Railway electrification has many advantages from the environmental point of view. The main one is a regenerative braking since electric trains, unlike diesel where braking is mechanical,

can brake electrically and recover braking energy between trains (20-30% of the energy used), thus improving energy efficiency from service.



In addition to energy savings and operating costs, there is also a considerable reduction in greenhouse gas emissions by 60% (estimated at around 452 tons of CO2 per year). Acoustic emissions have also been significantly reduced and less polluting lubricants are used.

From the point of view of equal opportunities, it is important to point out that SFM has applied measures against sexist violence in public transport, by signing an agreement in August 2018 that includes a series of measures related to transport interurban public.



Signing of the agreement between IB Dona and SFM on 08/01/2018

The first action, which has already entered into force, is to offer discounts on transportation. In this way, women victims of gender violence have benefited since July 2 from discounts on interurban public transport trips: bus, train and metro.

On the other hand, other commitments have also been acquired, such as spreading the 24-hour telephone service of the *Institut Balear de la Dona* (IB Dona) in train stations and user service offices, train the staff in gender equality and perspective aspects adapted to their work environment to establish guidelines for action in situations of sexist and sexual assault . Nowadays, IB Dona campaigns are already being developed in stations and on the trains, and training courses have also been started.

Criterion 7. Synergies with other policies or instruments of public intervention.

The electrification of the Enllaç-Manacor line is an investment included in the Transport Plan of Mallorca, which is also part of an integrated urban strategy, conherent with the Insular Territorial Plan of the Island of Mallorca, approved in 2011.

The strategic nature of this project is also confirmed by its inclusion in the Plan for Renewable Energies and Energy Efficiency in the Balearic Islands, Strategies and Lines of Action, 2014, as well as in the Climate Change Mitigation Action Plan in the Balearic Islands 2013-2020 for the reduction of greenhouse gases in the islands.

It is also part of the Sectoral Transport Master Plan of the Balearic Islands, approved in 2006 and now in the revision phase, as well as the Sectorial Mobility Management Plan of the Balearic Islands, approved in June 2018.

In addition, Law 4/2014 on land transport and sustainable mobility of the Balearic Islands supports this action by establishing, as objectives for transport, its contribution to the improvement of the urban and rural environment.





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