

# Sustainable Infrastructure



The contribution of  
National Promotional Banks  
and Institutions in Europe



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Infrastructure in all its dimensions is crucial for the well-being of people and the efficient functioning of societies. In too many cases we are taking clean drinking water, electricity, warm housing facilities, energy for our companies, high-speed trains, good highway connections or functioning hospitals, schools, universities or the existence of homes for elderly people for granted.

Our efforts to reach the goals of the Paris Agreement showed that in order to fight climate change, we need further investments for our energy infrastructure, especially in difficult times. Renewable energy should replace fossil fuels wherever possible and the sooner this is done the better. With the European Green Deal the European Union prepared the ground to think in different dimensions and not only promote the production of clean energy but to use energy more efficient and save energy wherever possible. In times of crisis – as it is the case in 2022 – the strategy for reshaping the energy network became even more evident. And we saw once more that energy security has a strong European dimension.

Infrastructure investment projects are long-term investments due to their high investment volumes as well as their long-term use. Today we see many cross-border projects notably for renewable energy. Long-term investors such as National Promotional Banks and Institutions (NPBIs) with their public mission are best placed to provide the necessary financing volumes as well as the expertise for the implementation of these projects.

In 2021 NPBIs provided financing in the range of 1.800 billion EUR of which 40% served to (co-)finance sustainable projects. In a number of cases NPBIs have gone beyond national borders as it is the case for off-shore wind parks very often. This brochure highlights only a few projects in very different fields of infrastructure all over Europe. They demonstrate the creativity of project promoters and the willingness and ability to take risks of NPBIs for more sustainable infrastructure. I'm looking forward to discuss sustainable infrastructure with you and would be even more happy if this documentation will help to enable more sustainable infrastructure projects.

More than ever, NPBIs are needed to ensure our common future.

Together we can do more!



Laurent Zylberberg  
**ELTI President**

# CONTENTS

Preface .....	3-4
Bulgaria (BDB) .....	7-10
Croatia (HBOR) .....	11-14
Czechia (NRB).....	15-18
France (CDC) .....	19-22
Germany (KfW) .....	23-26





# CONTENTS

Germany (NRW.Bank) .....	27-29
International (CEB) .....	30-33
Italy (CDP) .....	34-39
Netherlands (Invest-NL) .....	40-43
Poland (BGK) .....	44-47
Spain (ICO) .....	48-52





**BULGARIA**







# BULGARIAN DEVELOPMENT BANK



Bulgarian Development Bank / All rights reserved



Source: ips-group.net

**IPS (International Power Supply)** was established in 1989 and specializes in the R&D and precision manufacturing of power electronics and energy conversion technologies.

Over the past three decades, IPS has delivered world leading products and currently has a portfolio of 33 different product lines including hybrid and off-grid power systems, rectifiers, inverters, frequency converters and turnkey outdoor power systems.

In 2019 a new IPS factory with an annual production capacity of about €120m is being launched in Bulgaria. The IPS factory, with a total floor area of 16.800 m<sup>2</sup>, is the first 100% self-sufficient, zero emission manufacturing facility of its kind in Europe. The 240 kWp solar modules and 24 kW wind turbines + battery storage for a 3-day back-up enable completely autonomous and uninterrupted electricity production to meet the facility's needs. EXERON is managing the power and the energy storage.

With the help of BDB's subsidiary for equity investments **CIF (Capital Investments Fund)**, IPS is to expand its operations in the Middle East and the USA as well as R&D activities. The role of the Capital Investments Fund, part of BDB Group, will be key to the successful future development of IPS as it is going to invest BGN 6,5 mln (approx. EUR 3.3 mln).

Фондът за капиталови инвестиции (ФКИ) е дъщерно дружество на Българска банка за развитие, което осигурява дялов капитал за растеж на малките и средни предприятия в страната.

Екипът ни се състои от висококвалифицирани експерти със значителен международен професионален опит в областта на финансовия, стратегически и маркетинг мениджмънт, както и в управлението на предприятия от различни икономически сектори.

Компаниите, в които инвестираме, могат да разчитат както на управленската ни експертиза и пазарни познания, така и на синергии при използване на различни финансови продукти и услуги в рамките на групата на ББР.

### Why this story?

Given the global deficit of grids and electricity in 2022, the role of renewable energy sources is becoming more pivotal for supporting struggling regions and people's green future.

Discover more here

<https://ips-group.net/>



# CROATIA



# HBOR

HRVATSKA BANKA  
ZA OBNOVU I RAZVITAK



Source: hbor.hr





Source: hbor.hr



Source: hbor.hr

## Reconstruction and energy renovation of the public lighting system of the City of Kastav

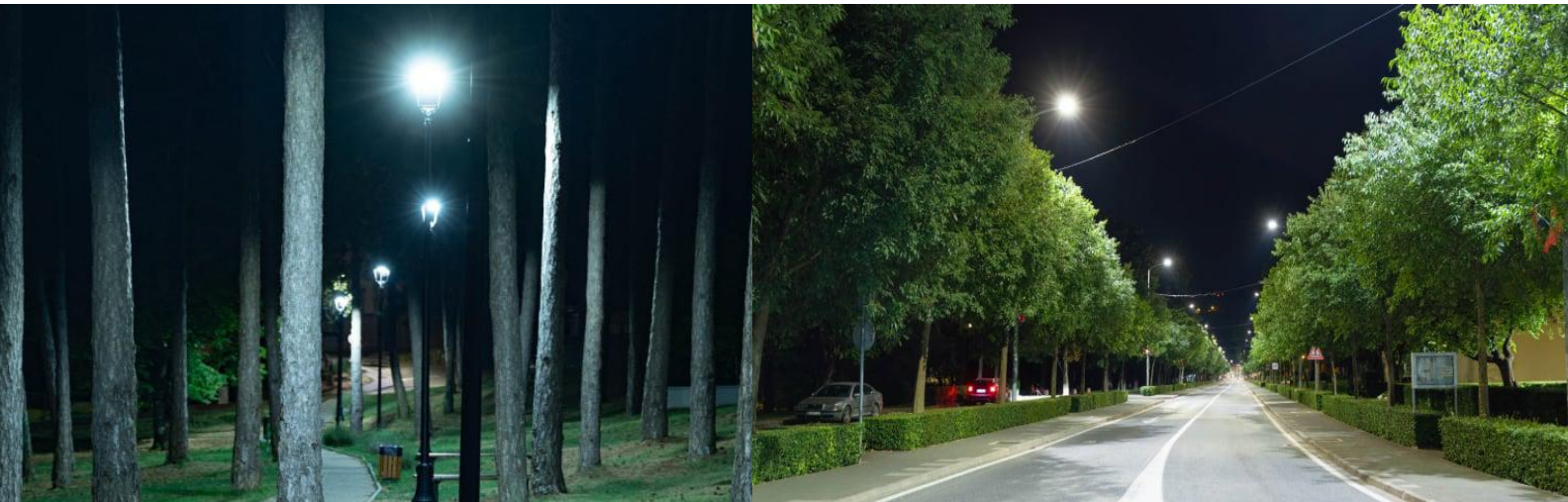
The Project includes the installation of new, energy efficient eco-friendly lamps based on LED technology on existing lighting locations and on existing lamp holders. The overall implementation includes supplementing the public lighting system by building new public lighting poles and equipping them with lighting equipment (243 new lighting fixtures).

The Project also envisages the introduction of an intelligent control and regulation system for public lighting lamps, as a segment of the Smart City, which will enable additional energy savings.

After the project completion, saving in electricity consumption of up to 85.82% is expected compared to the current situation, as well as a significant reduction in the cost of regular maintenance (public lighting), CO<sub>2</sub> emissions reduction and light pollution.

The City of Kastav will also protect its environment by removing mercury from the public lighting system.





Source: hbor.hr

Source: hbor.hr

## Public lighting modernisation project in the City of Knin

Through the project of modernisation of public lighting in the City of Knin, altogether 1,990 new light fixtures of the latest LED technology have been installed, which will provide lighting on roads and public areas of the City of Knin.

Altogether 1,990 lighting fittings have been replaced by the latest LED technology fittings. By replacing outdated and obsolete technology with a new and modern lighting system, the City intends to achieve significant savings in electricity consumption and limit light pollution.

After the completion of the project, it is expected to achieve savings in electricity consumption of 81.70% compared to the current situation and to significantly reduce maintenance costs of public lighting system.

Discover more here

[https://www.hbor.hr/wp-content/uploads/2018/06/ESIF-Krediti-za-javnu-rasvjetu\\_12.8.2021.pdf](https://www.hbor.hr/wp-content/uploads/2018/06/ESIF-Krediti-za-javnu-rasvjetu_12.8.2021.pdf)

**CZECHIA**





Source: nrby.cz





Source: Archiv investora

## Modern home for the elderly people in Karlovy Vary

Demographic trend in Europe for the coming decades is obvious – the population is aging. The Czech Republic is no exception to this trend. With the growing number of elderly people, it is in public interest to substantially increase the capacity of social care facilities across the country, including the private ones. It will ensure dignified living conditions for our grandparents, but it will also save scarce public resources. A home for the seniors in Karlovy Vary (Carlsbad), which was built with the support of the National Development Bank, is one of the most modern facilities of its kind in the Czech Republic.

Karlovy Vary is a beautiful city located in the Western part of the Czech Republic. It is famous for its thermal springs, recently inscribed on the UNESCO list of world heritage sites. However, despite attracting a number of visitors every year, the Karlovy Vary Region is one of the most disadvantaged in the country. According to official data, this is the region with the lowest number of available places for the elderly people in Czechia. Building new facilities is highly desirable and welcomed. A new privately owned home for the elderly people is among the top ones in Czechia in terms of comfort and staff attitude. It operates as a home for the elderly as well as a home with a special regime for people suffering from Alzheimer's disease and various forms of dementia, offering a number of modern activation and rehabilitation programmes for the clients. Its capacity is 184 persons accommodated in single and double rooms.



Source: Archiv investora

## Source of funding: ESIF 2014-2020; ERDF

Name of the programme: EXPANSION – LOANS: Interest-free, investment loan

Structure of financing:

- Budget of the project: CZK 100 million (EUR 4 million)
- Interest-free NRB loan 40 mil. CZK (€ 1.6 m) with the duration of 10 years;
- interest rate subsidy for commercial part of the project
- Other resources: commercial loan and own funding
- Construction period: July 2020 – August 2021

Case Study video : Domov seniorů Karlovy Vary



<https://www.youtube.com/watch?v=9GqwEBxA5vs>





**FRANCE**





Source: Xavier POPY/REA



## Green public transport: hydrogen buses in Dijon

Being one of France's pioneering hydrogen cities and a model for territorial ecological transition, Dijon Metropole is developing cleaner public transportation solutions based on green hydrogen. As of 2023, twenty-seven hydrogen buses will be able to circulate in public transport in Dijon.

As part of an ecosystem based on the recycling of household waste and the region's renewable energies, these buses will be powered by local hydrogen produced in short circuits. The construction of two hydrogen infrastructures in the municipality of Dijon allows hydrogen production in a clean way by a process of electrolysis of water supplied by electricity produced by recycling waste from the metropolis of Dijon.

The CDC (Banque des Territoires) is supporting Dijon Metropole with a fixed-rate "Mobi Loan" of € 5 million over a period of 15 years. This offer dedicated to the modernization of transport infrastructure gives priority to projects linked to environmentally friendly mobility, as is the case with the one carried out by Dijon Metropole. The CDC aims to facilitate the deployment of green mobility solutions for more sustainable territories and hydrogen is an important axis in the years to come.

Moreover, this green hydrogen project led by Dijon Metropole has been selected by the European Commission and is part of the projects co-financed by the European Union with the aim of promoting alternative fuels. It has been awarded € 2 million in grants from the Connecting Europe Facility (CEF) call for projects.

## Transport en commun vert : financement de bus à hydrogène vert à Dijon métropole

Vingt-sept bus à hydrogène vert circuleront dès 2023 sur le réseau DiviaMobilités, opérateur du réseau de transports en commun de Dijon métropole. Un déploiement qui s'inscrit dans l'objectif de la ville de Dijon de convertir sa flotte de bus en commun ainsi que ses bennes à ordures ménagères.

Ces bus seront alimentés en hydrogène local produit en circuit-court. Il sera produit de façon propre par un procédé d'électrolyse de l'eau et alimenté par de l'électricité produite par valorisation des déchets de la métropole de Dijon. Pour alimenter cette flotte, deux infrastructures hydrogène seront construites sur la commune de Dijon.

En partenariat avec la Commission européenne, la Banque des Territoires accompagne Dijon métropole avec un « Mobi Prêt » de 5 M€ sur une durée de 15 ans à taux fixe, sur ressource de la Banque européenne d'investissement. Cette offre dédiée à la modernisation des infrastructures de transport donne une priorité aux projets liés à la mobilité décarbonée, comme celui porté par Dijon métropole. À travers ce financement, la Banque des Territoires souhaite ainsi contribuer à l'émergence d'une filière hydrogène territoriale et au déploiement de solutions de mobilité durable



Discover more here

<https://www.banquedesterritoires.fr/financement-bus-hydrogene-vert-dijon-metropole>





# GERMANY

# KfW



KfW-Bildarchiv / Alex Habermehl

## “Green cable” to link Norway and Germany

Especially electricity from renewable energy will flow between the two countries. The interconnector will make it possible to export surplus solar and wind power from Germany to Norway, while Norway will export hydroelectric power to Germany when the weather is cloudy and calm. The water reservoirs in Norway will function as natural storage for the energy imported from Germany as they will be able to retain their water.



Copyright: KfW-Bildarchiv / Benne Ochs

**The cable inside the ship installing the cable in the subsea.**

The 1,400 megawatt subsea cable will link the electricity markets of both countries for the first time. The connection will boost integration among the energy markets in northwestern Europe, improve power supply reliability, and help keep energy prices stable. Both countries adhere to the EU's climate policies, and the subsea cable will be a great leap forward towards CO<sub>2</sub>-free energy supply.



The North Sea cable project has a total investment volume of almost EUR 1.8 billion. The three contracting partners of the project, Statnett (Norwegian state-owned power company), KfW (represented by KfW IPEX-Bank) and TenneT TSO GmbH (German transmission system operator) agreed on a 50/50 partnership between Norway and Germany in their corresponding framework agreement. Under this agreement Statnett will own 50 per cent of the project, while on the German side, KfW and TenneT will jointly own the remaining 50 per cent through a project company founded especially for the cable project.



Copyright: KfW-Bildarchiv / Benne Ochs

**New relay station in Tonstadt for Nordlink**

**Discover more here**

<https://www.kfw.de/stories/environment/renewable-energy/nordlink/>



**NRW.BANK**



Source: nrwbank.de



NRW.BANK



## Batteries instead of diesel in local public transport

Supporting the ecological transformation of North Rhine-Westphalia's economy is one of NRW.BANK's central tasks. This includes the targeted promotion of sustainable infrastructure projects. The Niederrhein-Münsterland network shows how this is put into practice. Here, the promotional bank supports the acquisition of low-emission electric trains by the local public transport operators, Verkehrsverbund Rhein-Ruhr (VRR) and Nahverkehr Westfalen-Lippe (NWL).

NRW.BANK finances this investment project with 67.3 million euros.



Copyright: VRR

**The first trains are to run on the lines from 2025 (draft design).**

Nordrhein-Westfalens Wirtschaft bei der ökologischen Transformation zu unterstützen, ist eine zentrale Aufgabe der NRW.BANK. Dazu gehört auch die gezielte Förderung nachhaltiger Infrastrukturprojekte. Im Niederrhein-Münsterland-Netz zeigt sich, wie das konkret aussieht. Hier unterstützt die Förderbank die örtlichen Nahverkehrsbetreiber, den Verkehrsverbund Rhein-Ruhr (VRR) sowie den Nahverkehr Westfalen-Lippe (NWL), bei der Anschaffung emissionsarmer Elektrozüge.

Die NRW.BANK ist bei dem Investitionsprojekt mit einer Finanzierung von 67,3 Millionen Euro beteiligt.





The fleets operating there are now to be completely replaced by electrically powered trains. From 2025, 63 trains of the Spanish manufacturer Construcciones y Auxiliar de Ferrocarriles (CAF) will run between Düsseldorf, Kleve and Coesfeld.

Where the railway tracks do not yet have overhead lines, the trains will be powered by batteries which can be charged via the overhead lines on the already electrified railway sections.

This not only saves 24,000 t of CO<sub>2</sub> per year, but also reduces pollution and even noise levels.

The investment volume totals approximately 355 million euros.

Teile des deutschen Schienennetzes sind bislang noch nicht elektrifiziert und somit auf den Einsatz dieselgetriebener Fahrzeuge angewiesen.

So auch in Nordrhein-Westfalen: Das Niederrhein-Münsterland-Netz verbindet hier die Räume des urbanen Ruhrgebiets mit den ländlichen Gebieten im Münsterland und am Niederrhein.

Die dort verkehrenden Flotten sollen nun vollständig durch elektrisch angetriebene Züge ersetzt werden. Ab 2025 werden zwischen Düsseldorf, Kleve und Coesfeld 63 Züge des spanischen Herstellers Construcciones y Auxiliar de Ferrocarriles (CAF) eingesetzt.

Da, wo die Strecken noch keine Oberleitungen besitzen, werden die Züge mit Batterien angetrieben. Diese lassen sich auf den schon elektrifizierten Streckenabschnitten über die Oberleitungen aufladen.

Das spart nicht nur 24.000 t CO<sub>2</sub> im Jahr, sondern verringert auch die Schadstoff- und sogar die Lärmbelastung.

Das Investitionsvolumen beläuft sich auf insgesamt ca. 355 Millionen Euro.

[Discover more here](https://www.vrr.de/de/magazin/batterieelektrische-zuege-fuer-den-niederrhein-und-das-westliche-muensterland/)

<https://www.vrr.de/de/magazin/batterieelektrische-zuege-fuer-den-niederrhein-und-das-westliche-muensterland/>



— COUNCIL OF EUROPE DEVELOPMENT BANK —  
BANQUE DE DEVELOPPEMENT DU CONSEIL DE L'EUROPE



© Sylvie Dupic





## Albania : supporting sustainable infrastructure development

A EUR 28.7 million loan from the CEB, combined with a EUR 1 million technical assistance grant from the CEB's Social Dividend Account, has financed the development of public infrastructure in Albania's Alps region and Southern coast, in cooperation with the Albanian Development Fund (ADF). The aim was to support sustainable tourism, while also protecting the environment as well as the cultural and historical heritage of the regions.



© Albanian Development Fund



© Albanian Development Fund

The development programme financed by the CEB was wide-ranging and involved the construction of new infrastructure or the rehabilitation of existing facilities, including roads, and sewage, water supply and waste management systems.

As a result of this regeneration programme, tourist numbers in the areas concerned doubled to one million, unemployment dropped significantly, and the number of people with access to clean drinkable water and modern sewage systems increased almost twofold.

Overall, an estimated 365,000 inhabitants and 11,000 businesses have benefited from the programme.



## Bulgaria : increasing energy efficiency in residential buildings

A EUR 150 million loan from the CEB has helped the Bulgarian government implement its housing stock renovation programme, aimed at reducing energy consumption and greenhouse gas emissions by improving energy efficiency. Bulgarian households are the third largest energy consumer in the country, so the modernisation of housing stock built in the 1960s, with an emphasis on energy efficiency improvements, has helped the government to reach its sustainability targets. The programme concerns 19,000 apartment buildings and approximately 1.8 million residents.



© Vera Gotseva

**The refurbished Boulevard Osvobojdienie building in Karlovo**

The programme has given homeowners' associations of eligible buildings access to grants covering the full cost of renovation and modernisation. These have not only improved the energy consumption of the buildings in question but have also extended their lifespan and improved significantly the living conditions of their residents.

Commenting on his own renovation project and how his life changed, Dimcho Topchiiski, a resident of the renovated Boulevard Osvobojdienie building in Karlovo, said: "The cost of heating my apartment has fallen by more than 40% to 130 lev, which is enough of a benefit in itself."



## Spain : clean, inclusive public transport for Barcelona

A EUR 47 million loan from the CEB is helping Barcelona to improve its air quality and public transport services by enabling Transports Metropolitans de Barcelona to replace some 254 diesel and compressed-natural-gas buses with new electric and hybrid vehicles and construct charging stations for electric vehicles. The EIB is co-financing the project, which will help to reduce significantly energy consumption and CO2 emissions in Spain's second largest city.



© iStock - Thomas Demarczyk



© iStock - AdrianHancu

Catalonia's public authorities have been working to increase the use of public transport and reduce the use of private vehicles in the broader metropolitan area of Barcelona, which is Europe's fifth largest urban area.

The new generation buses offer a more environmentally friendly, sustainable and comfortable means of transport to commuters. They are fully accessible to persons with disabilities, provide ramps and reserved seating, and are linked to special apps for blind people.

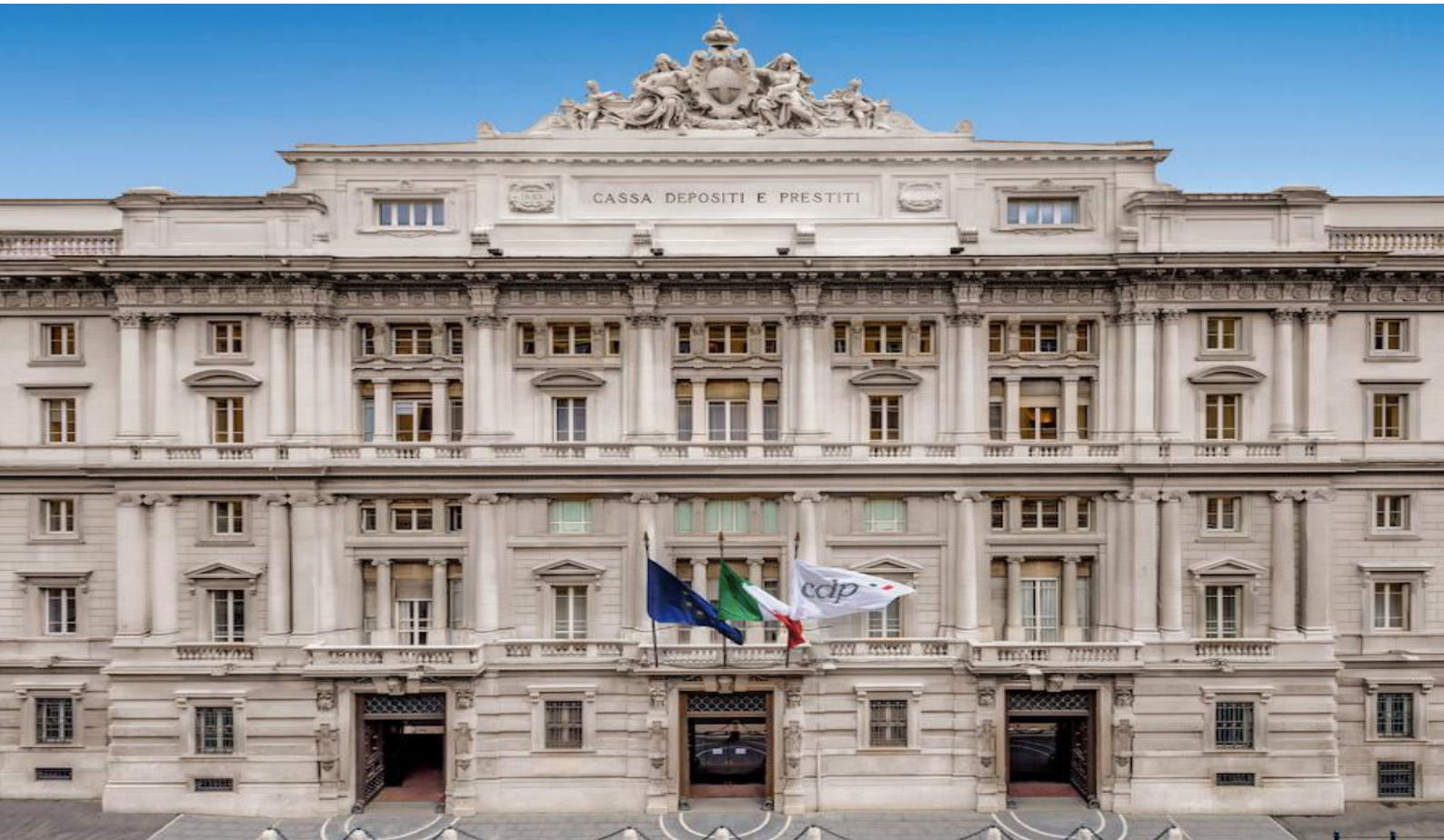
An estimated 2.3 million transport users will benefit from the upgraded transport system, including vulnerable population groups, such as people with disabilities, the elderly, low-income families, and students.

ITALY





cdp 



Source: Cassa Depositi e Prestiti



Source: cdp.it

## Clean energy for Sicilian families

**ENGIE**, a leader in low-carbon energy and services, secured a €105 million loan from Cassa Depositi e Prestiti, together with Bnp Paribas and Société Générale, to build a **wind farm and two agrivoltaic plants in Sicily**.

The initiative is based on an innovative technology that is not yet widely used across Italy: **agrivoltaics**, which allows for the **coexistence of energy production and agriculture**. With a **total production of over 140 MW**, the plants - located in Marsala, Mazara del Vallo and Paternò - will **avoid the emission of almost 140 thousand tonnes of CO<sub>2</sub>** into the atmosphere.

This transaction is a further step towards the country's sustainable **energy transition**, contributing to the achievement of the targets set at European level to combat climate change and to implement the **UN's 2030 Agenda**.

## CDP finanzia impianti eolici e agro-fotovoltaici per oltre 140 MW

**ENGIE**, leader nell'energia e nei servizi a bassa emissione di carbonio, ha ottenuto un prestito da **105 milioni di euro da Cassa Depositi e Prestiti**, insieme a Bnp Paribas e Société Générale, per realizzare **un impianto eolico e due impianti agro-fotovoltaici in Sicilia**. L'energia prodotta da questi ultimi verrà destinata per l'80% ai centri distributivi di un'importante azienda con un accordo di lungo termine e per il restante 20% al fabbisogno energetico di circa 20 mila utenze domestiche.

Gli impianti - localizzati tra Marsala, Mazara del Vallo e Paternò - grazie a una **produzione complessiva di oltre 140 MW** eviteranno l'immissione nell'atmosfera di quasi **140 mila tonnellate di CO2**, pari al contributo di più di 7,5 milioni di alberi.

Questa operazione rappresenta un ulteriore passo verso la **transizione energetica** del Paese in chiave sostenibile contribuendo al raggiungimento degli obiettivi fissati a livello europeo per contrastare il cambiamento climatico e a implementare l'**Agenda 2030 delle Nazioni Unite**.



Source: cdp.it

Discover more here

[https://www.cdp.it/sitointernet/page/en/clean\\_energy\\_for\\_sicilian\\_families?contentId=PRG39419](https://www.cdp.it/sitointernet/page/en/clean_energy_for_sicilian_families?contentId=PRG39419)





Source: iStock/cdp.it

## Viveracqua Hydrobond 2022, a bond issuance of €148.5 million concluded

Around €350 million will be invested over the next four years to **support the upgrading and efficiency of the Veneto water network** for the benefit of businesses and families, in keeping with the principles of sustainable water management (Goal 6 of the United Nations 2030 Agenda). This is the target of **Viveracqua Hydrobond 2022**, the **long-term issuance of €148.5 million** implemented by **six consortium managers in Viveracqua**, to which **Cassa Depositi e Prestiti, European Investment Bank** and **Kommunalkredit Austria AG** have subscribed.

This private placement operation will enable innovative financing of the investment plans of the six companies – Acque del Chiampo, Acque Veronesi, BIM Gestione Servizi Pubblici, ETRA, Livenza Tagliamento Acque and Piave Servizi – which serve over 290 municipalities and more than 2.3 million inhabitants thanks to an aqueduct network of over 22,000 kilometres. Specifically, there are plans to improve sewerage systems and purification plants.

## Un nuovo Hydrobond per Viveracqua

**Investimenti per circa 350 milioni di euro** nei prossimi quattro anni per ammodernare e rendere più efficiente la **rete idrica del Veneto**. Questo l'obiettivo di **Viveracqua Hydrobond 2022**, l'**emissione a lungo periodo del valore di 148,5 milioni** da parte di sei gestori consorziati in Viveracqua alla quale hanno aderito **Cassa Depositi e Prestiti**, Banca Europea per gli Investimenti e Kommunalkredit Austria AG.

Le sei società del consorzio - Acque del Chiampo, Acque Veronesi, BIM Gestione Servizi Pubblici, ETRA, Livenza Tagliamento Acque e Piave Servizi - servono più di **290 Comuni** e oltre **2,3 milioni** di abitanti grazie a una rete acquedottistica superiore ai 22,000 chilometri. L'operazione consentirà di migliorare le reti fognarie e gli impianti di depurazione.

Questa emissione segue le positive esperienze già maturate nel 2014 (150 milioni di euro, tradotti in oltre 341 milioni di investimenti realizzati), nel 2016 (77 milioni di euro, con cantieri per più di 197 milioni) e nel 2020 con Viveracqua Hydrobond 2020 (248 milioni di euro, con investimenti pianificati per 700 milioni).



Source: cdp.it

Discover more here

[https://www.cdp.it/sitointernet/page/en/infrastructure\\_viveracqua\\_hydrobond\\_2022\\_fourth\\_bond\\_iss\\_contentId=CSA38459](https://www.cdp.it/sitointernet/page/en/infrastructure_viveracqua_hydrobond_2022_fourth_bond_iss_contentId=CSA38459)



**NETHERLANDS**



# INVESTNL



Source: invest-nl.nl

## How a new standard legal contract makes flexible Energy Storage Solutions better financeable

The rapid increase in generated wind and solar energy implies that energy systems are constantly evolving. Due to the variety in the supply of sustainable electricity (the amount of wind and sun varies per hour), flexibility in the power grid is of great importance. Storage solutions such as batteries play an important role in this respect. There is plenty of innovation in the market for such Energy Storage Systems (ESS), both in technologies and in business models.

In the Netherlands a growing number of companies and entrepreneurs are working on groundbreaking ideas to stimulate the further electrification of our energy system with the use of batteries. Their solutions are often so innovative, and therefore risky, that scaling up and financing are difficult. In this case investors didn't feel comfortable with the market risk caused by uncertainty related to foreseen additional grid capacity.



Source: invest-nl.nl

### Waar Invest-NL in deze case het verschil maakt

Samen met SemperPower heeft Invest-NL een standaardcontract ontwikkeld waarmee batterij-exploitanten hun opslagcapaciteit kunnen aanbieden aan meerdere aanbieders van duurzame energie in verschillende markten. Dit vergroot de inkomsten per ingezette batterij, biedt potentiële investeerders in 'multi-use batterijen' meer zekerheid en maakt zo nieuwe technologieën en businessmodellen in de energietransitie (beter) financierbaar.

## Cable Pooling with Energy Storage enables faster growth of renewable energy solutions

In the Netherlands wind and solar energy projects are being developed on an ever-increasing scale. To guarantee the 24x7 availability of sustainably generated electricity, energy storage systems are playing an increasingly important role. Dutch companies and entrepreneurs active in innovative sustainable energy projects are therefore increasingly focusing on integrated future energy solutions. However, their technical and business opportunities for scaling up sustainable electrification quickly are often held back by limited access to and capacity of existing electricity grids. So the question is how can we ensure that (integrated) sustainable energy solutions can grow faster without overloading the electricity grid?

To answer this question, Invest-NL partnered with Ventolines and Energy Storage NL, and developed the new 'Cable Pooling Agreement with Energy Storage'. Cable Pooling with Energy Storage enables renewable energy producers to share one single grid-connection for (combined) wind, solar and storage projects. This has several advantages: sustainable energy producers can introduce new services and business models faster, it reduces the pressure on grid operators to realize new connections and it increases the resilience and efficiency of the electricity network as a whole.

### Waar Invest-NL in deze case het verschil maakt

Door duurzame energieproducenten de mogelijkheid te bieden één aansluiting te gebruiken voor verschillende doelen, maakt Invest-NL het mogelijk dat (geïntegreerde) duurzame energieoplossingen sneller kunnen groeien en dat een steeds voller elektriciteitsnetwerk efficiënter wordt gebruikt.

Discover more here

<https://www.invest-nl.nl/>



A photograph of a large stone castle with several towers and a Polish flag flying on a tall pole. The castle is made of light-colored stone and has dark, conical roofs on the towers. The sky is overcast. A dark blue banner with the word 'POLAND' is overlaid on the image.

**POLAND**



Source: wikiwand.com



**Thanks to the revitalization loan in Pomerania Ustka City Commune has created the possibility to spend free time for seniors and disabled people.**

The main goal of the project was creating a Social Services Center of Ustka (Usteckie Centrum Usług Społecznych). To achieve this goal reconstruction and extension of the warehouse building was completed in 2020.

The revitalized center has a usable area of 700 m<sup>2</sup> which will host: specialist and individual clinics, trainings, workshops, social and professional reintegration services at the Social Integration Center, support groups for caregivers of disabled people and a senior club. During the project also a legal status of the building was changed to a public utility building. The investment was co-financed using 3,3 million PLN revitalization loan.



Source: ustka.pl



## **Dzięki pożyczce rewitalizacyjnej na Pomorzu Gmina Miasto Ustka stworzyła możliwości spędzania wolnego czasu dla seniorów, osób chorych i niepełnosprawnych.**

Pod koniec 2020 r. zakończono przebudowę i rozbudowę istniejącego budynku magazynowego oraz zmianę sposobu użytkowania na budynek użyteczności publicznej, w którym mieści się obecnie Usteckie Centrum Usług Społecznych.

Inwestycja była współfinansowana pożyczką rewitalizacyjną w kwocie 3,3 mln zł. Prace rewitalizacyjne pozwoliły na uzyskanie powierzchni użytkowej na poziomie 700 m<sup>2</sup>, na której przewidziane są poradnie specjalistyczne i indywidualne, szkolenia, warsztaty, reintegracja społeczno-zawodowa w Centrum Integracji Społecznej, grupy wsparcia dla opiekunów osób niepełnosprawnych oraz klub seniora.



Source: [ustka.pl](http://ustka.pl)



SPAIN



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## Kincardine – First floating offshore wind farm

The project is located in Aberdeen, Scotland, and represents the first offshore floating wind farm in the world, designed, supplied, constructed and commissioned by Cobra, a subsidiary of ACS Group. It has a nominal capacity of 50 MW provided by 6 turbines and will have an operational life of 25 years. Kincardine is expected to generate up to yearly 218 GWh of clean electricity, which will allow to power approximately 55,000 Scottish households.

There is a strong European focus in the project, as it includes Cobra-ACS as main contractor, Vestas as turbine provider, and Bourbon Subsea Services and Windar as turbine installers. The estimated cost amounts to £380m and ICO provided a £60 million green loan under LMA (Loan Market Association) Green Bond principles, along with BBVA and other commercial banks.

Kincardine project contribution to the principles of sustainability is highly relevant, not only as a renewable and low carbon emission energy generation project, but also as of its floating platforms cutting-edge technology, less harmful to the marine environment that also allows operating in greater depths. Offshore wind production is fully recognised by the European Green Deal strategy as of its contribution to an efficient and competitive economy



Source: ico.es





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## Kincardine – Primer parque eólico marino flotante

El proyecto está situado en Aberdeen, Escocia, y representa el primer parque eólico marino flotante del mundo, diseñado, suministrado, construido y puesto en marcha por Cobra, filial del Grupo ACS. Tiene una capacidad nominal de 50 MW proporcionada por 6 turbinas y tendrá una vida útil de 25 años. Se espera que Kincardine genere hasta 218 GWh anuales de electricidad limpia, lo que permitirá abastecer a unos 55.000 hogares escoceses.

El proyecto tiene un fuerte enfoque europeo, ya que incluye a Cobra-ACS como contratista principal, a Vestas como proveedor de turbinas y a Bourbon Subsea Services y Windar como instaladores de las turbinas. El coste estimado ascendió a 380 millones de libras y el ICO concedió un préstamo verde de 60 millones de libras bajo los Principios de Bonos Verdes de la LMA (Loan Market Association), junto a BBVA y otras entidades bancarias.

La contribución del proyecto Kincardine a los principios de sostenibilidad es muy relevante, no sólo por tratarse de un proyecto de generación de energía renovable y bajo en emisiones de carbono, sino también por su tecnología de vanguardia de plataformas flotantes, menos dañina para el medio ambiente marino y que permite a su vez operar en zonas de mayor profundidad. La producción eólica marina está plenamente reconocida por la estrategia del Pacto Verde Europeo, por su contribución a una economía más eficiente y competitiva.

Cobra Wind, a subsidiary of ACS Group, is responsible for the engineering, design, supply, construction, and commissioning of the Kincardine floating wind farm. Cobra awarded the turbine supply contract for the project to MHI Vestas in 2018, while Bourbon Subsea Services was contracted for turbine installation.

Principle Power provided WindFloat™ semi-submersible foundation for the 2MW turbine of the wind farm, while a joint venture between Navantia and Windar was contracted to supply the remaining five floating turbine foundations for the project in February 2019.

According to ABS, the global leader in the Classification of floating offshore wind, Kincardine is expected to generate up to 218 GWh of clean electricity a year, which will be enough to power approximately 55,000 Scottish households.

## Network of ultrafast electric car chargers

Repsol is a global multi-energy company that is leading the energy transition with its ambition of achieving zero net emissions by 2050 with a strong focus on investments in the development and acceleration of the commercial rollout of low-emissions technologies.

The general objective of the project, which is considered as a Project of Common Interest, is to **implement and deploy a decentralised network of fast and ultrafast electric charging point across the Atlantic and Mediterranean corridors in Spain and Portugal.**



Repsol service station in Europe

Source: Repsol

Total investments are estimated at around EUR 34 million (project is to be carried-out over a 3-year period), which will be financed through a mix of CEF co-funding (grant) and Implementing Partner (ICO) financing. Repsol's commitment is not only technical but also financial.

The net socio-economic present value (ENPV) is EUR 88.71 million for the period and the economic rate of return (ERR) reaches 35.1%, showing the benefits of the implementation of the project for society as a whole.

In summary, the project enhances the sustainability of transport as an objective and identifies the promotion of clean transport through the deployment of electric vehicle charging infrastructure, with a clear impact coming from the reduction in emissions.

Un punto de recarga para coches eléctricos cada 50 kilómetros

## Más de 1000 puntos públicos de recarga eléctrica en España y Portugal

Consolidamos nuestra oferta multienergética en movilidad sostenible, con más de 1.000 puntos de recarga para coches eléctricos públicos a finales de 2022, para acelerar la transición energética. Nuestro objetivo es tener un punto de recarga cada 50 kilómetros, en los principales corredores viarios de la Península Ibérica. Un proyecto que se suma a nuestro compromiso de convertirnos en una compañía cero emisiones netas en 2050.

Repsol aims to play an important role in the energy transition. Its contribution includes research in the electric battery field, promoting the use of electric vehicles and creating an infrastructure for battery charging points.

Repsol was the first Oil & Gas company to set the objective to become a net zero emissions company by 2050 and to launch a comprehensive sustainable financing framework to accompany its energy transition process.

It has 3,500 service stations in Spain and 515 in Portugal, being the 2nd biggest company in this country, and it is looking to improve its presence on the mobility sector with more green solutions. The project aims at deploying 183 charging stations; 148 of them will be placed in the Core Network, while 35 stations will be placed in the Comprehensive Network. 150 of the charging stations will be placed in Spain and 33 in Portugal. All of them will be upgraded with all-in-one electric charging stations, significantly contributing to the clean energy transition. The implementation will take place in the Atlantic TEN-T Network corridor.

This action will significantly boost electrification of transport





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