


ENEL'S PROJECTS OF BIODIVERSITY CONSERVATION

Country	Conserved species or aggregate species	IUCN cat. (1)	Project (2)	GRI Indicator
Bulgaria	Griffon Vulture (<i>Gyps fulvus</i>)	LC	Central Balkan National Park: as part of the project for reintroduction of the species, installation of a release cage (used for growth and gradual release of the raptor), with the two first raptors coming from Spain. [Enel Maritza East 3, Bulgarian Society for the Protection of Birds of Prey]	EU13
France	Common Buzzard (<i>Buteo buteo</i>)	LC	Conservation of the original habitat in an area of 1 hectare, used as natural permanent meadow, where nesting and egg-laying take place. [Enel Erelis]	EU13
Italy	Red Deer (<i>Cervus elaphus</i>)	LC	Parco Nazionale dell'Appennino Lucano Val D'Agri Lagonegrese: take-off of the project of study of the deer. [Enel jointly with Legambiente and under the aegis of the Italian Environment Ministry]	
	White Stork (<i>Ciconia ciconia</i>)	LC	Parco Nazionale del Cilento e Vallo di Diano: enhancement of the value of storks' staging areas, also in view of educational-scientific activities. [Enel jointly with LIPU and WWF]	EN13 EN14
	Griffon Vulture (<i>Gyps fulvus</i>)	LC	Sardinia: study and monitoring of the species and of its habitat in the area surrounding the town of Bosa (Nuoro); attention to threats to its survival; awareness actions in schools and among local communities; creation of sighting points and of a nature trail. [Enel jointly with Legambiente]	EN13 EN14
	European Otter (<i>Lutra lutra</i>)	NT	Upper Volturno river valley: habitat monitoring and protection; population estimates; demarcation of home ranges; and creation of sighting points and educational signs. [Enel jointly with the Pianeta Terra association]	EN13 EN14
	Northern Pike (<i>Esox lucius</i>)		Thermal power plant of La Casella: restocking of the Po river with 5,000 trout juveniles, replaced in 2009 (at the request of the Piacenza province) with 1,500 Northern Pike juveniles; the obligation is laid down in the Po river water abstraction specifications. [Enel Produzione]	EU13
	Loggerhead Sea Turtle (<i>Caretta caretta</i>)	EN	Sea turtle recovery center of Brancaleone (Reggio Calabria): development of the center, dealing with recovery and care of injured animals; awareness & education actions; supply of data to the national database. [Enel jointly with CTS, owner of the center]	EN13 EN14
			Sea turtle recovery centers of the Lake Salso Sanctuary (Foggia) and of the Raucchio Forest (Lecce): activities of support to the centers; study of habitats suitable for egg-laying and youth awareness actions in local schools. [Enel jointly with Legambiente]	EN13 EN14
	Montagu's Harrier (<i>Circus pygargus</i>), Short-Toed Snake-Eagle (<i>Circaetus gallicus</i>), Lanner Falcon (<i>Falco biarmicus</i>), Peregrine Falcon (<i>Falco peregrinus</i>)	LC	Mt. Labbro and upper Albegna river valley, Tuscany: mitigation of avian fauna electrocution on 5 km of MV lines by insulating potentially hazardous live components (near transformers, pole-mounted isolators, branching points, etc.); replacement of pin insulator supports with boxer-type cross-arms, equipped with suspension insulators. [Enel Distribuzione, LIFE Nature project of habitat and raptor conservation in the Mt. Labbro and upper Albegna river valley area]	EU13 EN14
	Eel, trout, trout juveniles, cyprinids (various species including species at risk, among which Marble Trout (<i>Salmo trutta marmoratus</i>), salmonoids	LC	Various sites: restocking of various species of local fishes. [Enel Produzione and Enel Green Power]	EU13
	Fish fauna		Hydro power plants of Amandola, Arci and Carassai: alternative route to the fish ladder. [Enel Green Power]	EU13
Bioluminescent marine organisms		"20,000 volts under the sea": study of marine biodiversity related to bioluminescence (numerous marine organisms, often of small size and emitting energy, are increasingly threatened by degradation of their habitats). [Enel, Marevivo]	EN13 EN14	
<i>Posidonia oceanica</i>		Thermal power plant of Torrealvaldiga Nord: planting of a marine prairie over a surface of 1 hectare. [Enel Produzione]	EU13	
Autochthonous flora		Thermal power plant of Leri Cavour: on a surface of about 0.15 km ² , creation of a hill by using spoil from excavations during construction of the plant; revegetation and planting of autochthonous species, e.g. acacia, beech, ash, horse-chestnut, poplar and plane tree. [Enel Produzione]	EU13	
Romania	White Stork (<i>Ciconia ciconia</i>)	LC	Danube: mounting of circular supports on power line towers to favor nesting. [Enel Electrica Dobrogea]	EN12

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Slovakia	Rainbow Trout (<i>Oncorhynchus mykiss</i>)		National parks (including the one of the High Tatras): restocking; habitat restoration; clean-up of streams through investments and voluntary actions by employees. [Slovenské elektrárne]	EU13 EN13
	Golden Eagle (<i>Aquila chrysaetos</i>), Alpine Tatra Chamois (<i>Rupicapra rupicapra tatica</i>), Peregrine Falcon (<i>Falco peregrinus</i>), Alpine Marmot (<i>Marmota marmota latirostris</i>)	LC	High Tatras National Park: conservation of local species. [Slovenské elektrárne]	EN15
Spain	Osprey (<i>Pandion haliaetus</i>) and Black Kite (<i>Milvus migrans</i>)	LC	Balearic Islands: under the 2004-2009 cooperation agreement between Gesa-Endesa, the Environment Ministry and the Government of Balearic Islands, completion of 186 projects of conservation (128 in Majorca and 58 in Minorca), aimed above all at reducing collision with power lines. [Endesa Distribución]	EN15
	Avian fauna		Andalusia and Extremadura: under the 2008 agreement with the Government of Andalusia for co-funding of the LIFE-Nature and Biodiversity project of conservation and management of special protection areas for the birds of the Andalusian steppe, the European Commission's LIFE Committee selected the project of identification of critical points of birds' collision with and electrocution from power lines. Development of other research projects in conjunction with research centers and public institutions. [Endesa Distribución]	EN14
			Catalonia: census of the Pla d'Urgell (Ebro basin) avian fauna with identification of the technical requirements that power lines should fulfill to conserve the censused species. [Endesa Distribución jointly with the Forest Technology Center of Catalonia]	EN15
			Canary Islands: under the 2008 agreement with the Spanish Ornithological Society, completion of the study on risks of collision of avian fauna with overhead lines in Lanzarote and Fuerteventura and identification of critical points. [Endesa Distribución]	EN15
	Wild fauna		Guadalajara in Castile-La Mancha: inauguration of the site for construction of a wild fauna recovery center. [EUFER]	EN15
	Species threatened by the Zebra Mussel (<i>Dreissena polymorpha</i>)		Endesa is engaged at international level in research on <i>Dreissena polymorpha</i> , an invading exotic species which occurs in various Spanish water bodies. This is a freshwater bivalve zebra mollusk, similar to the common mussels and autochthonous of the Black Sea and Caspian Sea. This non-edible mollusk is known to withstand salty water and to rapidly propagate. Fluvial navigation and maritime transport have facilitated the spreading of this species, causing serious economic and ecological effects: among the latter, interference with feeding, growth, movement, respiration and reproduction of other species (in particular, mussels and clams).	EN13 EN14
	Flora, fauna and landscape		Mining areas of Andorra, As Pontes and Puertollano: hydrogeomorphological and landscape restoration to reinstate the local original biodiversity. [Endesa]	EN13
		Doñana National Park (Andalusia): support to initiatives of the Doñana 21 Foundation for conservation of natural heritage and maintenance of a wild avian fauna care center. [EUFER]	EN14	
Chile	Flora and fauna		Chilean Patagonia: study of the functioning of the aquatic ecosystem and assessment of the biodiversity value of ponds and lakes in the steppe. [Endesa]	EN14
			Cooperation with the San Ignacio del Huinay Foundation for conservation of the last rainforests of the planet. The foundation, traditionally oriented at the study of marine invertebrates, also conducts microbiological investigations on hot springs, surveys flora and fauna and performs limnological studies of previously uninvestigated water bodies. These activities led to identify numerous new species and ecosystems in areas of particular interest. [Endesa]	EN15
	Flora		Atacama Desert: conservation of the Incas' crops under agreements with local communities aimed at creating new areas of development improving their quality of life. [GDN Chile, geothermal energy company]	EN13 EN14
Colombia	Mangrovia		Thermal power plant of Cartagena: implementation of the 2008 plan of actions for biodiversity recovery, focused on the lagoonal mangroves located in the area of the plant (landscape restoration and solutions for drought periods). [Endesa]	EN13 EN14
Costa Rica	Flora		Hydro power plants of Don Pedro and Rio Volcán: funding of the activities conducted by the FUNDECOR NGO for maintenance of 3 and 5 hectares of reforested areas, respectively. [Enel Latin America]	EN14
Guatemala	Avian fauna		Maintenance of corridors near transmission lines over an overall surface area of about 6 hectares. [Enel Latin America]	EN12
	Flora		Hydro power plants of Matanzas/San Isidro and El Canadá/Montecristo: reforestation of the areas surrounding the plants (1.13 and 17.50 hectares, respectively), which are undergoing heavy deforestation by the local population. [Enel Latin America]	EU13 EN13

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Panama	Flora and fauna and, in particular, the Jaguar (<i>Panthera onca</i>)		Administration of 19,500 hectares of forest, a national protected area with unique animal species (large mammals, birds, reptiles, etc.) and vegetal species. Promotion of research activities starting with biodiversity monitoring in the Fortuna site, with the involvement of national- and international-standing institutes. These activities identified, among others, near-threatened species, such as the Jaguar. [Enel Latin America jointly with the Smithsonian Tropical Research Institute and the National Conservancy Association]	EN13 EN14









Extinct Threatened At lower risk

(1) IUCN risk of extinction:        

(2) For each project, the following data are generally reported: location/name, content (referring to the species shown in the first column, unless otherwise specified) and, between brackets, the project coordinator/s.

The following table includes (but is not limited to) the species that are included in the IUCN Red List and that are located in the protected areas of some of Enel's installations (chiefly thermal power plants). Similar data on the high number of other protected areas where the Group carries out hydro and wind power generation activities are posted at <http://www.enel.com/it-IT/sustainability/environment/>.

CONSERVED SPECIES FALLING WITHIN ENEL'S INSTALLATION SITES

Country	Conserved species	IUCN cat. (1)	Protected area	GRI Indicator
Bulgaria	Branta ruficollis and Oxyura leucocephala		Protected area connecting the Maritza East III power plant with lake Rozov Kladenetz through the Sokolitza river.	EU13
	Aquila clanga and Aythya nyroca			
	Great White Egret (<i>Egretta alba</i>), Montagu's Harrier (<i>Circus pygargus</i>), Hen Harrier (<i>Circus cyaneus</i>), Purple Heron (<i>Ardea purpurea</i>), Spotted Eagle (<i>Aquila pomarina</i>), Goshawk (<i>Accipiter gentilis</i>), Red-Backed Shrike (<i>Lanius collurio</i>), Short-Toed Snake-Eagle (<i>Circaetus gallicus</i>), Tawny Pipit (<i>Anthus campestris</i>), Eastern Olivaceous Warbler (<i>Hippolais pallida</i>), Great Reed Warbler (<i>Acrocephalus arundinaceus</i>), Ruddy Shelduck (<i>Tadorna ferruginea</i>), Black-Winged Stilt (<i>Himantopus himantopus</i>), White Stork (<i>Ciconia ciconia</i>), Black Stork (<i>Ciconia nigra</i>), Bewick's Swan (<i>Cygnus bewickii</i>), Whooper Swan (<i>Cygnus cygnus</i>), Great Tit (<i>Parus major</i>), Long-Tailed Tit (<i>Aegithalos caudatus</i>), Ruff (<i>Philomachus pugnax</i>), Common Cuckoo (<i>Cuculus canorus</i>), Yellow Wagtail (<i>Motacilla flava</i>), Western Marsh Harrier (<i>Circus aeruginosus</i>), European Honey-Buzzard (<i>Pernis apivorus</i>), Honey Buzzard (<i>Pandion haliaetus</i>), Little Egret (<i>Egretta garzetta</i>), Lesser Kestrel (<i>Falco naumanni</i>), Pygmy Cormorant (<i>Phalacrocorax pygmeus</i>), Glossy Ibis (<i>Plegadis falcinellus</i>), Black-Crowned Night-Heron (<i>Nycticorax nycticorax</i>), Spanish Sparrow (<i>Passer hispaniolensis</i>), Dalmatian Pelikan (<i>Pelecanus crispus</i>), Syrian Woodpecker (<i>Dendrocopos syriacus</i>), Long-Legged Buzzard (<i>Buteo rufinus</i>), European Tree Frog (<i>Hyla arborea</i>), Eurasian Golden Oriole (<i>Oriolus oriolus</i>), Red-Rumped Swallow (<i>Hirundo daurica</i>), Squacco Heron (<i>Ardeola ralloides</i>), Eurasian Spoonbill (<i>Platalea leucorodia</i>), Arctic Loon (<i>Gavia arctica</i>), Little Bittern (<i>Ixobrychus minutus</i>), Great Bittern (<i>Botaurus stellaris</i>), Eurasian Hoopoe (<i>Upupa epops</i>)			
France	Red Kite (<i>Milvus milvus</i>)		Zone designated as ZICO (Zone d'Importance pour la Conservation des Oiseaux).	EN15
	White Stork (<i>Ciconia ciconia</i>) and Common Buzzard (<i>Buteo buteo</i>)			
Italy	Hermann's Tortoise (<i>Testudo Hermanni</i>) and European Pond Turtle (<i>Emys orbicularis</i>)		Littoral area facing the thermal power plant of Montalto di Castro (Viterbo), hosting two sites of Community importance.	EN15
	Little Egret (<i>Egretta garzetta</i>) and Black-Crowned Night-Heron (<i>Nycticorax nycticorax</i>)			
	Pied Avocet (<i>Recurvirostra avosetta</i>), Black-Winged Stilt (<i>Himantopus himantopus</i>), Kentish Plover (<i>Charadrius alexandrinus</i>), Black-Headed Gull (<i>Chroicocephalus ridibundus</i>), Little Egret (<i>Egretta garzetta</i>), Pygmy Cormorant (<i>Phalacrocorax pygmeus</i>), Glossy Ibis (<i>Plegadis falcinellus</i>), Whiskered Tern (<i>Chlidonias hybridus</i>), anatids, caradriforms		Pialassa Baiona lagoonal wetland area, adjoining the thermal power plant of Porto Corsini (Ravenna).	EN13

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