

## NOTICE TO THE PUBLIC



### PRESENTATION OF THE APPLICATION FOR THE START OF THE PROCEDURE OF ENVIRONMENTAL IMPACT ASSESSMENT

Edison SpA with registered office in Milan (MI), Via Foro Buonaparte n.31 - 20121 postcode announces that on 19/10/2020 to the Ministry of the Environment and the Protection of the Territory and the Sea, pursuant to Article 23 of Legislative Decree 152/2006, an application for the initiation of the procedure Environmental Impact Assessment of the project

#### **"San Quirico Thermoelectric Plant: Renovation project for technological updating"**

included in the type listed in Annex II to Part Two of Legislative Decree 152/2006 point 18 called *"any modification or extension of the projects listed in this annex, where the modification or extension in itself complies with any limits established in this annex"*.

The project and related works are located in the Emilia-Romagna and Lombardy regions, the provinces of Parma and Cremona, the municipalities of Sissa Trecasali, Torricella del Pizzo, Gussola and San Giovanni in Croce.

The project concerns the renovation by technological updating of the existing Edison SpA thermoelectric plant in San Quirico, in the municipal area of Sissa Trecasali, in the province of Parma, in the Emilia-Romagna Region.

The existing plant is of the combined cycle type, fueled by natural gas, and is mainly composed of a gas turbine (TG), a recovery boiler (GVR) with three pressure levels, a condensing steam turbine (TV) and an air condenser. The gross electrical power of the plant in the current configuration is equal to 138 MWe in full condensation mode (ref. ISO conditions, ambient temperature 15 ° C, ambient pressure 1,010 mbar, relative humidity 60%) while the thermal combustion power (in the same conditions ) is equal to 299 MWt.

The operation of the plant is currently authorized with Integrated Environmental Authorization pursuant to DD of the Province of Parma no. 4824 of 28/12/2006 and subsequent updating acts.

The project, in summary, includes:

- the demolition of existing equipment and buildings, with the exception of the current electrical substation and related electrical building;
- the reuse of the existing interconnection systems for water supply (wells jointly owned with Eridania Sadam and Lesaffre Italia), the discharge of wastewater (conducted in the Lorno Canal) and the supply of natural gas to the thermoelectric plant;
- the installation of a new combined cycle (CCGT) of the latest generation, of approximately 870 MWe gross (ref. ISO site conditions, ambient temperature 15 ° C, ambient pressure 1,010 mbar, relative humidity 60%), fueled by natural gas, basically from a turbogas of about 590 MWe of class "H" (TG), a recovery steam generator (GVR) with an internal catalytic system for reducing NOx (SCR system), a condensing steam turbine (TV) of about 280 MWe and an air condenser. The new plant will also be equipped with a by-pass chimney. At nominal load, in ISO conditions, the combustion thermal power of the new combined cycle will be approximately 1,382 MWt;
- the construction of a new electrical user station (GIS) inside the border of the plant, a new 380 kV overhead high voltage (HV) power line approximately 16.3 km long and

a new electrical station for connection to the National Transmission Grid which will be built through an in-out connection on the existing 380 kV "Caorso - Carpi Fossoli" line; the project also provides for the adaptation, with respect to the new plant layout, of a section of the existing 132 kV power line, in particular the replacement of an overhead section (which would interfere with the CTE project layout) with a section in underground cable. The connection works to the NTG (HV power line, sorting station and in-out on the existing 380 kV line) also involve the municipalities of Torricella del Pizzo, Gussola and San Giovanni in Croce, in the Province of Cremona, Lombardy Region;

- the construction, within the power plant site, of a new back-up well to be used in the event of unavailability of the water supply from the existing wells jointly owned with Eridania Sadam and Lesaffre Italia;
- the adaptation, with respect to the new plant layout, of the route of the gas pipeline entering the Central, creating a new section and disposing of an existing one;
- the installation of an electrical energy storage system using batteries (BESS - Battery Energy Storage System) capable of providing, in coordination with the plant in the project configuration, the regulation services required by the national electricity grid.

Once the installation and commissioning of the new gas turbine has been completed, it will be made available for the open cycle electricity market (OCGT) for approximately 8 months (corresponding to the time required for the completion of the combined cycle), using the by-pass chimney.

Once all the interventions have been completed, the Power Plant will operate in a combined cycle: operation in an open cycle, which cannot be defined in advance, is generally envisaged in the event of unavailability of the steam cycle and / or for specific needs dictated by the demands of the electricity market.

The new combined cycle will be aligned with the BAT conclusions for Large Combustion Plants and will respect the lower limits of the BAT-AELs for NOx emissions.

The proposed project is part of the infrastructural interventions considered indispensable by the PNIEC to ensure that Italy is able to achieve the phase-out from coal by 2025 in conditions of safety of the energy system, while implementing the development of energy. renewable, to ensure compliance with the decarbonisation objectives set for 2030. In order for the energy transition to take place safely, it is in fact necessary to acquire new, highly efficient gas-powered generation capacity, which contributes to covering needs and maintaining safety levels, adequacy and quality of the national electricity system service.

The new plant proposed for San Quirico fully responds to the need identified by the PNIEC to acquire new efficient, sustainable and reliable generation capacity, making available an electrical power reserve of approximately 850 MWe (net electrical power; ref. ISO site conditions ambient temperature 15 ° C, ambient pressure 1,010 mbar, relative humidity 60%), which can be quickly supplied and easily modulated according to the requests of the network manager, using an already industrialized site ("brownfield"), on which there is already a thermoelectric plant which is not suitable for the flexibility required due to technological age, but of which it is possible to exploit a large part of the existing infrastructures (such as water supply systems, natural gas supply systems and waste water discharges in the Lorno Canal).

In summary, the proposed reconstruction project for the San Quirico power plant by installing a new, latest generation combined cycle will make it possible to achieve the objectives of the PNIEC and, at the same time, guarantee the continuation of the plant itself, in line with the changed national energy scenario as well as significant greater efficiency and fewer environmental effects.

The construction site activities for the construction of new works and the operation of the power plant in the project configuration do not determine significant impacts on all environmental components.

Pursuant to Article 10, paragraph 3 of Legislative Decree 152/2006 and subsequent amendments, the Environmental Impact Assessment procedure includes the Incidence Assessment referred to in Article 5 of Presidential Decree 357/1997 as, although the Thermoelectric Plant in the project configuration is external to the Natura 2000 Network Sites, the HV power line connecting to the NTG crosses, exclusively by plane, two areas belonging to the Natura 2000 Network; for what has been said, the potential effects induced by the project on the following protected areas present within about 5 km from the interventions were assessed: SPA IT20A0503 "Isola Maria Luigia", ZSC / ZPS IT4020017 "Areas of the resurgences of Viarolo, Torrile Basins, Po", ZSC IT20A0014 "Lancone di Gussola", SPA IT20A0502 "Oxbow of Gussola", SPA IT20A0402 "Regional Reserve Oxbow of Gerole" and ZSC / SPA IT4020022 "Basso Taro".

The documentation is available for public consultation on the Evaluation Portal e Environmental Authorizations VAS-VIA-AIA ([www.va.minambiente.it](http://www.va.minambiente.it)) of the Ministry of the Environment and the Protection of the Territory and the Sea.

Pursuant to Article 24 paragraph 3 of Legislative Decree 152/2006 within the term of 60 (sixty) days from the date of publication of this notice, anyone with an interest can view the project and the related environmental study, submit in written form own observations, also providing new or additional cognitive and evaluative elements, directing them to the Ministry of the Environment and the protection of the territory and the sea, General Directorate for Sustainable Growth and Quality of Development, via C. Colombo 44, 00147 Rome ; comments can also be sent by certified e-mail to the following address: [cress@pec.minambiente.it](mailto:cress@pec.minambiente.it)

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Luigi Mottura

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<sup>1</sup> Apply digital signature in PAdES format (PDF Advanced Electronic Signatures) on PDF files.