

REF. No.: ΥΠΕΝ/Δ ΙΠΑ/114847/6959

Date: 09/12/2019



Inclusion in Directive 2010/75/EU

HELLENIC REPUBLIC
Ministry of Environment and Energy
GENERAL DIRECTORATE OF ENVIRONMENTAL POLICY
Environmental Licensing Directorate
Department AD

TO : MYTILINEOS SA
Electricity Generation Sector
Artemis 8
15125 MAROUSSI

Post. Address : Alexandras Avenue 11
Post Code : Athens, 11473
Information: : E. Mitsaki
Telephone: : 210 6417809
FAX : 210 6417753
EMAIL: e.mitsaki@prv.ypeka.gr

DECISION
OF THE GENERAL DIRECTOR OF ENVIRONMENTAL POLICY OF THE MINISTRY OF ENVIRONMENT AND ENERGY

SUBJECT: Amendment of no. prot. ΥΠΕΝ/ΔΙΠΑ/82557/5356/17.09.2019 Decision of Approval of Environmental Terms, of the project "Construction and Operation of a New Power Generation Plant of the company MYTILINEOS SA/TED Electricity (former PROTERGIA Center SA) at YY Agios Nikolaos Boeotia", in terms of its rated power from 775 MW to 826 MW.

Considering:

1. Law no. 998/1979 (Government Gazette 289/A/1979) "On the protection of forests and forest areas in general of the country", as amended by Law. 2040/92 (Government Gazette 70/A/23.4.1992), the Law no. 3208/03 (Government Gazette 303/A/24.12.2003) and the Law no. 4280/2014 (Government Gazette 159/A/8.8.2014).
2. Law no. 1650/86 (Government Gazette 160/A/86) "For the protection of the environment", as amended and in force.
3. Law no. 2244/1994 (Government Gazette 168/A/07-10-1994) "Regulation of electricity generation issues from renewable energy sources and from conventional fuels and other provisions".
4. Law no. 2939/2001 (Government Gazette 179/A/2001) "Packaging and alternative management of packaging and other products - Establishment of a National Organization for Alternative Management of packaging and other products (EOEDSAP) and other provisions", as amended and in force.

5. Law no. 3010/02 (Government Gazette 91/A/02) "Harmonization of Law 1650/86 with the Directives 97/11/E.U. and 96/61/E.U., demarcation procedure and regulations of issues for watercourses and other provisions".
6. Law no. 3028/2002 (Government Gazette 153/A/2002) "For the protection of antiquities and Cultural Heritage in general".
7. The Law no.3199/2003 (Government Gazette 280/A/2003) "Protection and Water Management - Compliance with Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 ', as amended and in force.
8. Law no. 3325/05 (Government Gazette 68/A/2005) "Establishment and operation of industrial - craft facilities in the context of sustainable development and other provisions", as supplemented by Law. 4072/12 (Government Gazette 86A) "Improvement of business environment-New corporate form-Signals-Real Estate Brokers-Regulation of shipping, port and fisheries issues and other provisions".
9. Law no. 3378/2005 (Government Gazette 203/A/2005) "Ratification of the European Convention for the Protection of the Archaeological Heritage (revised)".
10. Law no. 3852/10 (Government Gazette 87/A/2010) "New Architecture of Local Government and Decentralized Administration - Kallikratis Program".
11. Law no. 3937/2011 (Government Gazette 60/A/2011) "Conservation of biodiversity and other provisions".
12. The Law no. 3982/11 (Government Gazette 143/A/17-6-2011) "Simplification of the licensing of technical professional and processing activities and business parks and other provisions", as amended by Law. 4072/12 (Government Gazette 86A) "Improvement of business environment-New corporate form-Signals-Real Estate Brokers-Regulation of shipping, port and fisheries issues and other provisions" and Law no. 4155/13 (Government Gazette 120A) "National System of Electronic Public Procurement and other provisions".
13. Law no. 4014/11 (Government Gazette 209/A/2011) "Environmental licensing of projects and activities, regulation of arbitrary in relation to the creation of an environmental balance and other provisions within the competence of the Ministry of Environment", as in force.
14. The Law no. 4042/12 (Government Gazette 24/A/2012) "Criminal protection of the environment-Harmonization with the directive 2008/99/EC-Framework for production and management of waste-Harmonization with the directive 2008/98/EC- Regulation of issues of the Ministry of Environment, Energy and Climate Change ".
15. The P.D. 51/2007 (Government Gazette 54/A/2007) "Definition of measures and procedures for the integrated protection and management of waters in accordance with the provisions of Directive 2000/60/EC".
16. The P.D. 132/2017 (Government Gazette 160/A/30-10-17) "Organization of the Ministry of Environment and Energy".
17. The P.D. 81/2019 (Government Gazette 119A/08.07.2019) "Establishment, merger, renaming and abolition of Ministries and definition of their responsibilities Transfer of services and responsibilities between Ministries."
18. The P.D. 83/2019 (Government Gazette 121A/2019) "Appointment of Deputy Prime Minister, Ministers, Deputy Ministers and Undersecretaries"
19. The P.D. 84/2019 (Government Gazette 84/A/17-7-19) "Establishment and abolition of General Secretariats and Special Secretariats/Unified Administrative Sectors of Ministries".
20. Decision No., YPEN/YPRG/67409/8288/2-8-19 (Government Gazette 3107 B) Decision of the

Prime Minister and the Minister of Environment and Energy "Assignment of responsibilities to the Deputy Minister of Environment and Energy, Gerasimos Thomas".

21. The M.D. Δ6/Φ1/ΟΙΚ. 8295/19.04.1995 (GOVERNMENT GAZETTE 385/B/10.05.1995) «A. Procedures and supporting documents required for the issuance of licenses for the installation and operation of power plants, the fees to be paid and any other necessary details. B. Determination of general technical and financial terms of the contracts between producers and PPC, details of the formation of the invoices as well as terms of interconnection ".
22. JMD 11294/93 (Government Gazette 264B) "Operating conditions and permissible emission limits of waste gas from industrial boilers, steam generators, oil heaters and air heaters operating on fuel oil, diesel or gas".
23. The JMD. 37111/2021/03 (Government Gazette 1391/B/03) "Determining the manner of informing the participation of the public in the process of approval of environmental conditions of projects and activities according to paragraph 2 of article 5 of Law 1650/86 as replaced by paragraphs 2, 3 of article 3 of Law no. 3010/02» as amended by JMD 1649/45/2014 (Government Gazette 45/B/14).
24. The JMD 50910/2727/2003 (Government Gazette 1909/B/22-12-2003): "Measures and conditions for solid waste management".
25. The JMD. 13588/725/06 (Government Gazette 383B) Measures, conditions and restrictions for the management of hazardous waste in accordance with the provisions of Council Directive 91/689/EEC "On hazardous waste" of 12 December 1991. Replacement of no. 19396/1546/1997 of joint ministerial decision "Measures and conditions for the management of hazardous waste", as amended by Law no. 4042/12 (GOVERNMENT GAZETTE 24A).
26. The JMD. US 24944/1159/06 (Government Gazette 791B) "Approval of General Technical Specifications for the management of hazardous waste in accordance with article 5 (par. B) of no. 13588/725 of joint ministerial decision "Measures, conditions and restrictions for the management of hazardous waste, etc." (B '383) and in compliance with the provisions of article 7 (par. 1) of Council Directive 91/156/EC of 18 March 1991 ", as amended by Law. 4042/12 (Government Gazette 24A) and is valid.
27. The JMD 3137/191/Φ.15/12 (Government Gazette 1048B) "Assignment of the categories of industrial and craft activities and electricity generation activities with the degrees of nuisance referred to in the urban decrees", as supplemented and amended by the K.Y.A. 13234/800/Φ.15/12 (Government Gazette 3251B), Φ15/48/5/14 (Government Gazette 27B), house 10432/1115/Φ.15/14 (Government Gazette 2604B) and 132894/1751/Φ15/2017 (Government Gazette 4421B).
28. The JMD. 21398/2012 (Government Gazette 1470/B/2012) "Establishment and operation of a special website for the posting of decisions approving environmental conditions (AEPO), decisions for renewal or amendment of AEPO, in accordance with article 19a of Law 4014/2011 (Government Gazette A/209/2011) ».
29. The JMD 48963/12 (Government Gazette 2703/B/2012) "Content specifications of Decisions approving Environmental Terms (A.E.Π.O.) for projects and activities of category A 'of no. 1958/13-1-12 decision of the Minister of Environment, Energy and Climate Change (B '21) as in force, according to article 2 par. 7 of Law no. 4014/2011 (A '209) "as amended and in force.
30. The JMD 167563/ΕΥΠΕ/13 (Government Gazette 964/B/2013) "Specialization of the procedures and the specific criteria of environmental licensing of the projects and activities of articles 3, 4, 5, 6 and 7 of Law no. 4014/2011, in accordance with the provisions of article 2, paragraph 13 thereof, of the special forms of the above procedures, as well as any other issue related to these procedures ".

31. The JMD. 36060/1155/E.103/13 (Government Gazette 1450B) "Defining a framework of rules, measures and procedures for the integrated prevention and control of environmental pollution from industrial activities, in compliance with the provisions of Directive 2010/75/EU" on industrial emissions (integrated pollution prevention and control) "of the European Parliament and of the Council of 24th November 2010", as amended and in force.
32. The M.D. 1649/45/14 (Government Gazette 45B) "Specialization of the opinion procedures and the way of informing the public and participation of the interested public in the public consultation during the environmental licensing of projects and activities of Category A of the decision of the Minister of Environment, Energy and Climate. 1958/2012 (Government Gazette A 21) according to article 19 paragraph 9 of law. 4014/11 (A 209), as well as each of the relevant details".
33. The JMD 51373/4684/15 (Government Gazette 2706/B/2015) "Ratification of the National Waste Management Plan (ESDA) and the National Strategic Waste Prevention Plan".
34. The JMD 51575/26.10.2016 "Approval of the Strategic Environmental Impact Assessment (EIA) of the National Hazardous Waste Management Plan (ESDEA)".
35. The JMD 1915/2018 (Government Gazette/304/B/2018) "Amendment of no. 48963/2012 (B'2703) of joint ministerial decision, no. 167563/2013 (BA 964) of joint ministerial decision and no. 170225/2014 (BA 135) of ministerial decision, which have been issued by authorization of Law no. 4014/2011 (AD 209), in compliance with Directive 2014/52/EU "amending Directive 2011/92/EU on the assessment of the effects of certain public and private projects on the environment" of the European Parliament and of the Of the Council of 16 April 2014".
36. The M.D. 170225/14 (Government Gazette 135B) "Specialization of the contents of the environmental licensing files of projects and activities of Category A of the decision of the Minister of Environment, Energy and Climate Change with no. 1958/2012 (21 B) as in force, according to article 11 of law. 4014/11 (A 209), as well as each of the relevant details".
37. The MD no. ΔΙΠΑ/οικ.37674/2016 (Government Gazette 2471/B/2016) by which the MD was modified and codified. 1958/2012 (Government Gazette 21/B/13.1.2012) "Classification of public and private projects and activities in categories and subcategories according to Article 1 paragraph 4 of L. 4014/21.9.11 (Government Gazette 209/A/2011) "as it has been amended with no. 2307/18 (Government Gazette 439/B/2018) and is valid.
38. The MD 62952/5384/2016 (Government Gazette 4326/B/30.12.2016) "Approval of the National Hazardous Waste Management Plan (ESDEA), according to article 31 of L. 4342/2015".
39. The P.Y.S. 49 of 15-12-2015 (Government Gazette 174/A/2015) "Amendment and approval of the National Waste Management Plan (ESDA) and the National Strategic Plan for the Prevention of Waste Generation that were ratified with 51373/4684/25-11-2015 joint decision of the Ministers of Interior and Administrative Reconstruction and Environment and Energy, according to article 31 of L. 4342/2015".
40. The no. circular 153914/2.12.15 Circular of the Minister of Environment and Energy regarding the application of article 18 of JMD 36060/1155/E.103/13 (Government Gazette 1450B) regarding the obligation to submit a basic report (AΔA: 7ΔΨ14653Π8-8O2).
41. The Best Available Techniques referred to in Guides and Reference Texts and in particular the Executive Decision (EU) 2017/1442, of the Commission of July 31st 2017 laying down the conclusions on Best Available Techniques (BAT) under Directive 2010/75/EU of the European Parliament and of the Council, for large combustion plants, the Reference Manuals (BREFs) for the Identification of the Best Available Techniques for Cooling Systems (Reference Document on the application of Best Available Techniques to Industrial Cooling Systems, December 2001), the reference text for monitoring (Reference Report on Monitoring of Emissions to Air and Water from IED installations, July 2018).

42. Regulation 166/2006 (L 033/04.02.2006) of the European Parliament and of the Council of 18 January 2006, Regulation E-PRTR, "establishing a European Pollutant Release and Transfer Register and amending Directives 91/689/EEC and Council 96/61/EC".
43. The no. 2012/249/EU Commission Implementing Decision of 7 May 2012 fixing the start-up and shutdown periods for the purposes of Directive 2010/75/EU of the European Parliament and of the Council on industrial emissions.
44. The fact that the unit in question falls under the provisions of JM 54409/2632/04 (Government Gazette 1931B as amended by JM 181478/965/2017 (Government Gazette 3763B) "Amendment and codification of no. US 54409/2632/2004 of the Joint Ministerial Decision "Greenhouse gas emission allowance trading scheme in accordance with the provisions of Directive 2003/87/EC" establishing a greenhouse gas emission allowance trading scheme within the Community and amending Directive 96/61/EC of the Council "of 13 October 2003 and other provisions" (BD 1931) as amended "and applies to the greenhouse gas emission allowance trading scheme, in accordance with Article 21 of which no emission limits are imposed on the unit concerned no requirements for the energy efficiency of combustion plants that emit carbon dioxide.
45. The B.D. from 24.10.1962 (Government Gazette 138 D ' / 1.11.1962 which expropriated the wider area to which the disputed property belongs, in favor and at the expense of the company then "SA Aluminum of Greece "for public benefit and specifically for industrial use with the establishment of an Aluminum industry.
46. The Decision no. 902/21.12.2017 (Government Gazette 4673/B/29.12.17) of the National Water Committee on "Approval of the 1st Revision of the River Basin Management Plan of the Water Department of Eastern Central Greece and the corresponding Strategic Plan" ».
47. The Decision no. ΥΠΕΝ/ΓΡΕΓΥ/41375/328/6.7.2018 (B '2682) of the National Water Committee on: "Approval of the Flood Risk Management Plan of the River Basin of the Water Department of Eastern Central Greece (EL07) and the corresponding Strategic Environmental Impact Study".
48. The no. ΥΠΕ/ΔΙΠΑ/82557/5356/17.09.2019 Decision of Approval of Environmental Terms, concerning the plant in question.
49. The no. 904/2019 Decision Amending the Electricity Generation License concerning the plant in question regarding the nominal (gross) power which now amounts to 826MW
50. The no. prot. ΥΠΕΝ/ΔΙΠΑ/88527/5675/02.10.2019 application of the company «ΜΥΤΙΛΗΝΑΙΟΣ Α.Ε. Electricity Sector "with an attached file for modification of the aforementioned AEPO of the activity development and operation of a new Power Plant at the existing energy center of Agios Nikolaos, Boeotia, as submitted to the FSM with PET 1902042017.
51. The no. prot. ΥΠΕΝ/ΔΙΠΑ/88529/5676/05.11.2019 document of ΔΙΠΑ/ΥΠΕΝ for the submission of copies of the Environmental Impact Study file after the completeness check.
52. The no. ΔΙΠΑ/ΥΠΕΝ/102869/6402/08.11.2019 application of the company "MYTILINEOS SA Electricity Sector "with attached copies, in printed and digital form, of the submitted modification dossier.
53. The no. prot. ΥΠΕΝ/ΔΙΠΑ/102869/6402/12.11.2019 document of ΔΙΠΑ/ΥΠΕΝ with which the file of modification of the examined activity was forwarded to the Committee of Environment and Development of the Region of Central Greece for publication without the requirement of consultation with the interested public.
54. The no. 264241/405/22.11.19 document of the Committee of Environment and Development of the Region of Central Greece on "Sending an announcement for the publication of an amendment file of A.E.P.O." (prot. no. ΥΠΕΝ/ΔΙΠΑ/108795/6712/25.11.19).

55. The no. prot. ΥΠΕΝ/ΔΙΠΑ/110621/6793/28.11.2019 application of the company "MYTILINEOS S.A./TED Electricity "regarding the obligation to comply with the environmental condition 4.12.8 of no. prot. ΥΠΕ/ΔΙΠΑ/82557/5356/17.09.2019 Decision of Approval of Environmental Terms, concerning the power plant
56. The fact that during the previous environmental licensing of the New Power Generation Plant of the company MYTILINEOS SA/TED Electricity (former PROTERGIA SA) at the Existing Energy Center of Agios Nikolaos Boeotia for the issuance of sub 'no. prot. ΥΠΕΝ/ΔΙΠΑ/82557/5356/17.09.2019 ΑΕΡΟ, in the relevant a.a. 61 of it, it was inadvertently reported incorrect no. prot. of the application of the company with attached topographic diagram in ΥΠΕΝ/ΔΙΠΑ, which after checking the electronic protocol of ΔΙΠΑ/ΥΠΕΝ is formed as follows: the no. ΥΠΕΝ/ΔΙΠΑ/57981/3613/26-06-2019 letter of the company "MYTILINEOS SA - GROUP OF COMPANIES Electricity Sector ", following no. prot. 1898/63637/07-06-2019 document of the Livadia Forest Service, with attached topographic diagram.
57. The fact that the activity is included in case 1.1 of Annex I of K.Y.A. 36060/1155/E.103 (Government Gazette 1450/B/14-6-13) "Defining a framework of rules, measures and procedures for the integrated prevention and control of environmental pollution from industrial activities, in compliance with the provisions of Directive 2010/75/EU "on industrial emissions (integrated pollution prevention and control of pollution" of the European Parliament and of the Council of 24 November 2010 ".
58. The fact that for the examined modification no submission of a new EIA is required, since according to the submitted file there is no substantial change of the environmental effects from the operation of the activity (Law 4014/11, article 5, par. 2b), as they were assessed and evaluated during its previous environmental permitting.

WE DECIDE

The amendment of no. ΥΠΕΝ/ΔΙΠΑ/82557/5356/17.09.2019 Decision Approval of Environmental terms of the project "Construction and operation of a New Power Generation Plant of the company MYTILINEOS SA at the Existing Energy Center of Agios Nikolaos Boeotia "in terms of rated power from 775 MW to 826 MW, as follows:

- I. Subsections A.1.1. "Company Summary Data" and A.1.2 "Unit Size" in paragraph 1 "Brief Description of the Activity" in Section A "Description of the Activity" are replaced by the following:

REF. DESCRIPTION OF THE ACTIVITY

1. BRIEF DESCRIPTION OF THE ACTIVITY

1.1. Brief business details

Name: MYTILINEOS SA

Type of activity: Combined Cycle Power Plant, from natural gas fuel, rated power 826 MW, under ISO conditions, new and clean (nominal thermal power: 1.284MW).

Category A, Sub-Group 1 9 (ΔΙΠΑ/οικ 37674/16) α/α 209: "Power plants with gaseous fuels other than biogas, rated thermal power > 300 MW

Address: Distomou Beach, PC 320 03, Agios Nikolaos Boeotia

Head offices address: Artemidos 8, Maroussi, PC 151 25, Attiki
Tel. 210 3448300, Fax. 210 3448470

Contact Person: Kyriakos Berdebes
210 344 8340, Kyriakos.berdebes@protergia.gr

1.2. Unit size

Capacity: Average Annual Electricity Generation: 5.000 GWh

Stadium Description: next to the alumina-aluminum industrial unit (former ALUMINUM OF GREECE and now MYTILINEOS SA), the High Efficiency Electricity-Heat Cogeneration Unit (SITHYA) and the Independent Power Plant (IPP) as described in the preamble of no. prot. ΥΠΕΝ/ΔΙΠΑ/82557/5356/17.09.2019 ΑΕΠΟ with s/n. (61) (owned by the former ALUMINUM OF GREECE and now MYTILINEOS SA, within an alienated plot of land with a total area of 7,035,700 m²)

II. Section A.1.4.1 "Plant Description" of paragraph 1 "Brief Description of the Activity" of Section A "Description of the Activity" is replaced by the following:

1.4.1 Plant Description

The Plant will include:

- Gas turbine 9HA.02 by GENERAL ELECTRIC, for operation with natural gas fuel power 572 MW.
- Exhaust heat recovery boiler for the production of three-stage superheated steam.
- Steam turbine D650 of GENERAL ELECTRIC, power 254 MW.
- Three-phase generator W88 by GENERAL ELECTRIC, 990MVA, with internal hydrogen cooling circuit and external water cooling circuit.
- Steam cycle management system.
- Chimney height 50m.
- Array of seawater cooling towers: Closed system of wet cooling tower type with recycling water and water supplement (make up) in the towers from the discharged cooling water of SITHYA.

Accompanying facilities include:

- Receiving, cleaning, measuring, pressure and temperature control and fuel (gas) systems.
- Seawater water intake infrastructure (make up of cooling towers) from the discharged cooling water of SITHYA, with an estimated flow of 3,706m³/h. The returned seawater, at a temperature approximately the same as that of the inlet water to the cooling system, will be about 75% of this flow.
- Water and liquid waste pumping stations.
- Closed auxiliary cooling circuit.
- Industrial and deionized water storage tanks and possibly a production facility for the production of additional deionized water and EDI water (deionized water of higher purity).
- Storage tanks for industrial acids, alkaline solutions, mineral oils and other additives.
- Firefighting installation.
- Electrical system consisting of main medium/high voltage transformers, as well as the necessary electrical equipment, which includes, but is not limited to, auxiliary voltage lowering transformers to supply the auxiliary loads of the unit, medium and low voltage panels, systems, batteries uninterruptible power supply etc.
- Generator pair approx. 1.700kVA.
- Expansion of the existing Agios Nikolaos KYT of IPTO SA (substation - GIS 400 kV).
- Storage facilities for hydrogen, nitrogen and carbon dioxide cylinders.
- Extra carbon dioxide tank.
- Exhaust gas quality monitoring/recording system.

- Central Control System of the operation of the P.
- Staff service facilities
- Warehouse and maintenance building.
- Auxiliary facilities and machinery.

The development of the Plant within the plot of MYTILINEOS SA and in the vicinity of the existing units SITHYA and ASI, of the Energy Center, enables the use of existing infrastructure, which include, among others:

- Auxiliary steam supply during start-up and booking
- Provision of emergency electrical connection with the SITHYA unit
- Use of the existing fire safety, firefighting infrastructure, as well as the means and intervention teams of MYTILINEOS SA
- Use of health services (ambulance and first aid center) of MYTILINEOS SA
- Use of the existing certified chemical analysis laboratory of the SITHYA and ASI units
- Road interconnection network with neighboring facilities of the plot of MYTILINEOS SA
- Water supply network
- Existing production facilities for industrial and deionized water
- Existing wastewater treatment plant and municipal wastewater treatment plant
- Telecommunication network

The above infrastructures are part of the facilities of MYTILINEOS SA. and are governed by the terms of the relevant Decision approving environmental conditions and are made available to the Plant whenever and to the extent required.

III. Subsections A.1.4.3 "Water use" and A1.4.4 "Energy/fuel use" of paragraph 1 "Brief description of the activity" of Section A "Description of the activity" are replaced by the following:

1.4.3 Use of water

The use of water for the operation of the Plant concerns:

- The industrial water to serve the needs of the new Plant (both industrial and deionized water) will come from the respective network that serves the adjacent units SITHYA and ASI. The industrial water for general use mainly covers the washing needs of the main and auxiliary equipment of the Plant, the (possible) cooling requirements of the heat recovery boiler during start-up, as well as the requirements of the fire extinguishing network. Any minimal losses during the operation phase in the closed water-steam circuit are replenished with deionized water that will come from the deionization unit of SITHYA and then from the EDI (Electrodeionization) treatment unit of the existing IPP. Part of these quantities of deionized water may be produced in corresponding facilities of the new Plant. The supply of industrial and deionized water is estimated at 12.3 m³/h or 295 m³/d.
- Water for water use which will also come from the network of MYTILINEOS SA. with

indicative average hourly consumption of 0.4 m³/h.

- Replenishment water due to evaporation losses and continuous removal of cooling towers, which will come from the discharged seawater cooling water of the adjacent SITHYA unit, through pumps installed near the cooling towers, with an estimated flow of 3.706 m³/h. In the event that the SITHYA unit is switched off (eg due to a fault), there will be provision for the maintenance of the seawater refill circuit of the Plant's cooling towers through a bypass valve of the auxiliary cooling circuit of the SITHYA unit.

1.4.4 Energy/fuel use (based on plant capacity)

To meet the energy requirements of the plant, natural gas is used with an average annual consumption of about 9,000 GWh HHV.

IV. Section 2.1.3 "NO_x and CO emission limit values" of section 2.1 "Atmospheric Emissions" of Section 2 "Emission limit values for air, water, soil, noise and vibration levels and environmental quality" is replaced by the following:

2.1.3 Observe the following maximum emission limit values for air pollutants from the Plant:

- until 31/07/2021 to take into account point 6 of part 1 of Annex V of JM 36060// 1155 /E.103 (Government Gazette 1450/B/14-6-2013):
 - NO_x (as NO₂): 75 mg/Nm³ (on a dry basis and 15% O₂) for natural gas combustion, operation with a load greater than 70% and according to ISO in basic load conditions, with an average annual total electrical efficiency greater than 55%. For other cases 50 mg/Nm³ (on a dry basis and 15% O₂) for operation with a load greater than 70% and according to ISO in basic load conditions.
 - CO: 100 mg/Nm³ for ISO operation with a load greater than 70%.

For the control of compliance with the emission limit values, point 1 of part 4 of Annex V of JM 36060/1155 /E.103 (Government Gazette 1450/B/14-6-2013) should be taken into account.

- from 01/08/2021 to apply the Executive Decision 2017/1442/EU for the combustion of natural gas:
 - NO_x (as NO₂): 30 mg/Nm³ annual average and 40 mg/Nm³ daily average or average of the sampling period
 - CO: 30 mg/Nm³ annual average
 - For units with a net electrical efficiency (HA) of more than 55% a correction factor may be applied to the upper limit of the range corresponding to the value: [upper limit] x HA/55, where HA is the unit's net electrical output at ISO base load conditions. Therefore the range of emissions for the case of the new Plant is set at 10-34mg/Nm³ ([30] x63.1/55 = 34mg/Nm³).

V The environmental condition 4.11.1 of paragraph 4.11 "Control of compliance with the environmental conditions of AEPO" of the Section "Environmental conditions during the operation phase of the plant" regarding the obligation of the operator to submit to the DIPA/YPEN the relevant license for electricity production of RAE for a power of at least 775MW, is satisfied with the issuance of this amending Decision regarding the nominal power of the new Power Generation Plant from 775 MW to 826 MW.

VI The environmental term 4.12.8 of paragraph 4.12 "Period of validity of AEPO - Other provisions" of the Section "Environmental conditions during the operation phase of the plant", is replaced as follows:

4.12.8 It is noted that the new power plant of the company "MYTILINEOS SA" will use the existing infrastructure for treatment and disposal of liquid waste of the alumina and aluminum production plant of MYTILINEOS SA. - TED Metallurgy. In view of the forthcoming submission of an environmental study of the alumina and aluminum production plant, for the renewal of its environmental conditions, in which the above infrastructures will be described in detail, a Technical Report must be submitted to DIPA within six months from the issuance of this Decision. that the capacity of the existing infrastructure to be used also covers the operating requirements of the new plant.

For the rest, the a.p. no. ΥΠΕ/ΔΙΠΑ/82557/5356/17.09.2019 Decision of Approval of Environmental Terms of the project of the subject.

The publication of this decision required by law, is done by posting it on the special website, at the website address aepo.ypeka.gr (according to the provisions of article 19a of N. 4014/2011, as well as in the JMC with number 21398/12 (Government Gazette 1470/B/2012).

**THE GENERAL DIRECTOR OF ENVIRONMENTAL POLICY
OF THE MINISTRY OF ENVIRONMENT & ENERGY**

K. DIMOPOULOS

Attachment:

Modification Folder