

CLIMATE NEUTRALITY PLAN

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Language version:	English
Reference filename:	CNP Template COM en 210224.xls

Information about this file:

Installation name:	EL PACK AE
Unique Installation Identifier:	GR0000000000000114
Reference date of the CNP:	19/4/2024

If your competent authority requires you to hand in a signed paper copy of the climate-neutrality plan, please use the space below for signature:

Date

Name and Signature of
legally responsible person

A. CLIMATE NEUTRALITY PLAN VERSIONS

List of climate-neutrality plan versions

This sheet is used for tracking the actual version of the climate-neutrality plan. Each version should have a unique version number, and a reference date.

Depending on the requirements of the Member State, it is possible that the document is exchanged between competent authority and operator with various updates, or that the operator alone keeps track of the versions. In any case, the operator should keep in his files a copy of each version of the climate-neutrality plan.

The status of the climate-neutrality plan at the reference date should be described in the "status" column. Possible status types include, "working draft", "submitted to the competent authority (CA)", "returned with remarks", etc.

At several locations this document makes reference to external files. Please note that any information contained in such still forms an integral part of the CNP.

II Effectiveness evaluation periods

Periods at which the effectiveness of the climate neutrality plan is evaluated regarding greenhouse gas emissions reductions:										
Year of next effectiveness evaluations:										

B. INSTALLATION DATA

I Consent to use the data contained in this file

The information contained in this file will be used by the competent authority for determining the fulfilment of the climate neutrality plan conditionality of free allocation pursuant to Article 10b of the EU ETS Directive and Article 22b of the FAR Regulation. Furthermore this information might be notified to the European Commission in part or as a whole, if requested so, for the purpose of scrutinising the national implementation measures pursuant to Article 11(1) of the EU ETS Directive.

Please confirm consent to use information contained in this climate neutrality plan.

The operator of this installation confirms that this plan may be used by the competent authority and the European Commission.

The system boundaries and types of greenhouse gases covered by historical emissions, emissions levels and specific targets are consistent with the greenhouse gas emissions permit of the installation and the requirements laid down in the Monitoring and Reporting Regulation (EU) 2018/2066 (MRR) and in the FAR. This also applies when applying for additional allocation for district heating pursuant to Article 22b of the FAR.

The scope of emissions do not include any carbon removals or emission reductions outside the system boundaries of the installation and acquired via carbon offset credits.

Please confirm that the emissions entered comply with the conditions described above.

The operator of this installation confirms the conformity of the system boundaries of emissions.

II Identification of the Installation(s)

1 About the operator

- (a) Operator Name: EL PACK AE
- (b) Member State: Greece
- (c) Emissions trading permit number: member state/CA prefix: EL/ΥΠΕΝ/ΔΚΑΠ/93732/1589/5-10-2020
- (d) Competent Authority: ΥΠΕΝ / Τμήμα Μηχανισμών Αγοράς και Μητρώου Εκπομπών
- (e) Is the climate neutrality plan submitted by a district heating company at company level? ☐

Point (e) is only relevant for district heating companies in Bulgaria, Czechia, Latvia or Poland.

If the climate neutrality plan is submitted at company level, historical emissions and targets are to be summed up over all installations covered by the climate neutrality plan and the totals are to be entered in sheets D_HistoricalEmissions and G_FallBackBM and H_OtherProcesses.

2 About your installation(s)

- (a) Name of the installation and ID
- i. Installation name: EL PACK AE
- ii. Registry ID of the installation (as in NIMs): 114
- This is usually a natural number, i.e. a code different from the Permit identifier used in the Registry (EUTL).
For example, if the Registry ID is BE000000000123456, please enter here 123456. Together with the Member State selected under (c), this Registry ID (unique ID) will be displayed automatically in
- iii. Unique ID: GR000000000000114
- Include any Member State specific guidance on naming of installations.

(b) Address / location of the site of the installation

- i. Address Line 1: ΠΕΡΙΟΧΗ ΔΑΜΑΣΤΑ
- ii. Address Line 2: ΔΑΜΑΣΤΑ
- iii. City: ΦΘΙΩΤΙΔΑ
- iv. State/Province/Region: 35100
- v. Postcode/ZIP: Greece
- vi. Country: Greece

The following table is only relevant for district heating companies in Bulgaria, Czechia, Latvia or Slovakia, that submit the climate neutrality plan at company level.
Please list all additional installations linked to and operated by the operator and covered by the climate neutrality plan.

No.	Installation Name	Registry ID (as in NIMs)	Unique ID	Address	City	State/Province/Region	Postcode/ZIP	Country
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

III Contact details

Who can we contact about your climate neutrality plan?

It will help us to have someone who we can contact directly with any questions about your climate neutrality plan. The persons you name should have the authority to act on behalf of the operator.

- (a) Authorised representative:
- Title: ΚΥΡΙΟΣ
- First Name: ΑΡΙΣΤΟΤΕΛΗΣ
- Surname: ΧΡΙΣΤΟΔΟΥΛΟΠΟΥΛΟΣ
- Job title: ΔΙΕΥΘΥΝΤΗΣ ΕΡΓΟΣΤΑΣΙΟΥ
- Organisation name (if different from the operator):
- Telephone number: 22310 81211
- Email address: tchristodouloupoulos@elpack.gr
- (b) Primary contact:
- Title: ΚΥΡΙΟΣ
- First Name: ΕΥΣΤΑΘΙΟΣ
- Surname: ΚΟΥΡΝΙΩΤΗΣ
- Job title: ΣΥΜΒΟΥΛΟΣ
- Organisation name (if different from the operator):
- IPPC AE
- Telephone number: 22210 25314
- Email address: skourniotis@ippc.gr

C. INSTALLATION DESCRIPTION

List of sub-installations

1 Product benchmark sub-installations

Please select here all relevant product benchmark sub-installations, consistent with the ones provided in the baseline data report.

Please also list here any sub-installations that are planned to start operating after the submission of the CNP.

Where a sub-installation is planned to start operating or to cease operations after the submission of the CNP, please select the relevant period from the drop-down list, respectively. In case no entries are made, it is assumed that the sub-installation is already existing and will remain operational at least until 2050.

No.	Product type	Starting	Cessation?	CL exposed?	CBAM?	Unit
1	Testliner and fluting	<= 2023	None	TRUE	FALSE	Adt
2						
3						
4						
5						
6						
7						
8						
9						
10						

2 Sub-installations with fall-back approaches

Please select here all relevant sub-installations with fall-back approaches, consistent with the ones provided in the baseline data report.

Please also list here any sub-installations that are planned to start operating after the submission of the CNP.

Where a sub-installation is planned to start operating or to cease operations after the submission of the CNP, please select the relevant period from the drop-down list, respectively. In case no entries are made, it is assumed that the sub-installation is already existing and will remain operational at least until 2050.

According to the Annex of the CNP Regulation, you may provide specific emissions in later sheets of this template relative to other units than the default units of the relevant activity, where more appropriate. For instance, you may want to provide specific emissions for a heat benchmark sub-installation per tonne of (aggregated) production, instead of per TJ.

Please enter the relevant unit of production in column N. If no entries are made there, the default units of TJ will be used for the heat and fuel benchmark sub-installations. For process emissions the default units will be tonnes of (aggregated) production.

No.	Sub-installation type	Relevant?	Starting	Cessation?	CL exposed?	CBAM?	Unit
11	Heat benchmark sub-installation, CL, non-CBAM	FALSE			TRUE	FALSE	
12	Heat benchmark sub-installation, non-CL, non-CBAM	FALSE			FALSE	FALSE	
13	Heat benchmark sub-installation, CBAM	FALSE			TRUE	TRUE	
14	District heating sub-installation	FALSE			FALSE	FALSE	
15	Fuel benchmark sub-installation, CL, non-CBAM	FALSE			TRUE	FALSE	
16	Fuel benchmark sub-installation, non-CL, non-CBAM	FALSE			FALSE	FALSE	
17	Fuel benchmark sub-installation, CBAM	FALSE			TRUE	TRUE	
18	Process emissions sub-installation, CL, non-CBAM	FALSE			TRUE	FALSE	
19	Process emissions sub-installation, non-CL, non-CBAM	FALSE			FALSE	FALSE	
20	Process emissions sub-installation, CBAM	FALSE			TRUE	TRUE	

3 Other processes not covered by sub-installations

The CNP Regulation requires the system boundaries to cover all relevant emissions of the installation determined in accordance with the Monitoring & Reporting Regulation (EU) 2018/2066. This means that emissions may be relevant that are not eligible for free allocation, e.g. electricity production or non-safety flaring.

Therefore, please provide here a short description of each process not covered by sub-installations and enter the relevant units of production. For example, for electricity production, you may want to enter production expressed as "MWh" of net electricity produced.

Where a process is planned to start operating or to cease operations after the submission of the CNP, please select the relevant period from the drop-down list, respectively. In case no entries are made, it is assumed that the sub-installation is already existing and will remain operational at least until 2050.

The processes identified here will be treated similarly to all other sub-installations above in subsequent sheets concerning measures, investments, milestones, targets and impacts.

No.	Short name or ID	Description of the process	Starting	Cessation?	CL exposed?	CBAM?	Units
21					N.A.	N.A.	
22					N.A.	N.A.	
23					N.A.	N.A.	

D. HISTORICAL EMISSIONS**I Specific historical emissions****1 Product benchmark sub-installations**

Please enter here the specific historical emissions (consistent with the attributed emission pursuant to the FAR rules and the MRR) for each product benchmark sub-installation for each year of the baseline period.

The average of the specific historical emissions during 2019-2023 will be used as the baseline for setting (intermediate) targets in sheets F to H.

The specific emissions shall be calculated by dividing the attributed emissions by the activity level in each year, both based on the corresponding rules of the FAR in consistency with the data entered in the baseline data report used for calculation of free allocation for 2026-2030.

Years in which the sub-installation did not operate should be left empty, including for cases of new sub-installation planned to start operating only after the submission of the CNP. In the case of the later, please provide an estimate of the specific emissions at the future start of operations.

No.	Product type	Unit	2019	2020	2021	2022	2023	Estimate
1	Testliner and fluting	t CO ₂ e / Adt	0.4443	0.4413	0.4125	0.3851	0.4062	
2								
3								
4								
5								
6								
7								
8								
9								
10								

2 Sub-installations with fall-back approaches

Please enter here the specific historical emissions (consistent with the attributed emission pursuant to the FAR rules and the MRR) for each fall-back benchmark sub-installation for each year of the baseline period, taking into consideration the guidance provided for product benchmark sub-installations above.

However, where other units of production levels than the units for the relevant activity level were chosen in section C.I.2 (note, that the default unit for process emissions is tonnes of production), the emissions shall be expressed relative to those relevant (aggregated) production levels. The attributed emissions should however still be calculated in accordance with the corresponding FAR rules, consistent with the data provided in the baseline data report.

No.	Sub-installation type	Unit	2019	2020	2021	2022	2023	Estimate
11	Heat benchmark sub-installation, CL, non-CBAM	t CO ₂ e / TJ						
12	Heat benchmark sub-installation, non-CL, non-CBAM	t CO ₂ e / TJ						
13	Heat benchmark sub-installation, CBAM	t CO ₂ e / TJ						
14	District heating sub-installation	t CO ₂ e / TJ						
15	Fuel benchmark sub-installation, CL, non-CBAM	t CO ₂ e / TJ						
16	Fuel benchmark sub-installation, non-CL, non-CBAM	t CO ₂ e / TJ						
17	Fuel benchmark sub-installation, CBAM	t CO ₂ e / TJ						
18	Process emissions sub-installation, CL, non-CBAM	t CO ₂ e / t						
19	Process emissions sub-installation, non-CL, non-CBAM	t CO ₂ e / t						
20	Process emissions sub-installation, CBAM	t CO ₂ e / t						

3 Specific emissions not covered by sub-installations

Please enter here the specific historical emissions (consistent with the attributed emission pursuant to the FAR rules and the MRR) for each process not covered by a benchmarked sub-installation for each year of the baseline period, taking into consideration the guidance provided for product benchmark sub-installations above.

Please ensure that the emissions are specific to the relevant units of production chosen in section C.I.3. The attributed emissions should be calculated in accordance with the corresponding FAR rules, consistent with the data provided in the baseline data report.

No.	Emission source description	Unit	2019	2020	2021	2022	2023	Estimate
21								
22								
23								

II Absolute historical emissions (optional)**1 Product benchmark sub-installations absolute emissions**

Please enter here the historical absolute emissions, expressed as t CO₂e, for each sub-installation for each year of the baseline period. Entries here are optional.

No.	Product type	Unit	2019	2020	2021	2022	2023	Estimate
1	Testliner and fluting	t CO ₂ e	17.053	15.183	14.741	14.824	13.751	
2								
3								
4								
5								
6								
7								
8								
9								
10								

2 Sub-installations with fall-back approaches absolute emissions

Please enter here the historical absolute emissions, expressed as t CO₂e, for each sub-installation for each year of the baseline period. Entries here are optional.

No.	Sub-installation type	Unit	2019	2020	2021	2022	2023	Estimate
11	Heat benchmark sub-installation, CL, non-CBAM	t CO ₂ e						
12	Heat benchmark sub-installation, non-CL, non-CBAM	t CO ₂ e						
13	Heat benchmark sub-installation, CBAM	t CO ₂ e						
14	District heating sub-installation	t CO ₂ e						
15	Fuel benchmark sub-installation, CL, non-CBAM	t CO ₂ e						
16	Fuel benchmark sub-installation, non-CL, non-CBAM	t CO ₂ e						
17	Fuel benchmark sub-installation, CBAM	t CO ₂ e						
18	Process emissions sub-installation, CL, non-CBAM	t CO ₂ e						
19	Process emissions sub-installation, non-CL, non-CBAM	t CO ₂ e						
20	Process emissions sub-installation, CBAM	t CO ₂ e						

3 Specific emissions not covered by sub-installations

Please enter here the historical absolute emissions, expressed as t CO₂e, for each sub-installation for each year of the baseline period. Entries here are optional.

No.	Emission source description	Unit	2019	2020	2021	2022	2023	Estimate
21								
22								
23								

E. MEASURES, INVESTMENTS AND MILESTONES

I Measures

1 Measure description and reasons

Please list here all relevant planned measures (e.g. electrification of fossil-powered furnaces) until 2050, providing for each measure the following information:

- the period during which the measure is planned to be taken. If a measure has impacts in more than one period, please select the period in which it will be first implemented;
- a short name or internal ID for each measure in order to facilitate making reference to each measure later in this template;
- a detailed description of each measure. It is possible to refer to an attached document file, if the description exceeds the space provided here (then please list the exact file name here and in sheet K, Comments).

Measures should be entered as aggregated as possible. E.g. process optimisations over different periods can be entered as one measure with the period of the first optimisation.

No.	Period	Short name or internal ID	Detailed description
Ex.1	2031-2035	Hydrogen steel	Replacement of BF/BOF with DRI using green hydrogen (further details see separate file 'CNP file.docx')
Ex.2	2025-2030	Measures AB 5 to 7	Process optimisations over different periods starting from 2027
ME1	2026-2030	Μίγμα καυσίμου	Αλλαγή μίγματος καυσίμου με μικρότερο αποτύπωμα άνθρακα. Πλήρης αντικατάσταση μαζούτ με lng.
ME2	2031-2035	ΣΗΘΥΑ	Εγκατάσταση μονάδας συμπαράγωγής ηλεκτρισμού-θερμότητας υψηλής απόδοσης, η οποία θα επιφέρει ακόμη μεγαλύτερη μείωση ανθρακικού αποτυπώματος αφού θα καταναλώνεται μικρότερη ποσότητα καυσίμου.
ME3	2036-2040	Φ/Β σύστημα	Εγκατάσταση φωτοβολταϊκών για μερική αντικατάσταση της θερμικής ενέργειας από ηλεκτρική ενέργεια που θα παράγεται από ΑΠΕ.
ME4	2041-2045	Μίγμα καυσίμου	Αλλαγή μίγματος καυσίμου με μικρότερο αποτύπωμα άνθρακα.
ME5	2046-2050	Κλιματική ουδετερότητα	Ολική αντικατάσταση θερμικής ενέργειας από ηλεκτρική.
ME6			
ME7			
ME8			
ME9			
ME10			

2 Enabling conditions and qualitative impacts

Please provide for each measure identified under 1) above the following information:

- a detailed description of enabling conditions and infrastructure needs (e.g. CO2 pipeline infrastructure, green hydrogen infrastructure, H2 costs below "x" €/MWh);
- a comprehensive reasoning for measure decision why the measures were chosen rather than other potential measures for decarbonisation;
- a qualitative assessment of the impacts of each measure (e.g. where this installation is the worldwide first to implement a certain decarbonisation technology, it demonstrates the feasibility of wider uptake by other installations). The quantitative assessment will be done later in the template in sheets F to H.

It is possible to refer to an attached document file, if the description exceeds the space provided here (then please list the exact file name here and in sheet K, Comments).

No.	Detailed description of enabling conditions	Reasons for measure decision	Qualitative impacts
ME1	Εγκατάσταση νέων δεξαμενών καυσίμου. Σύνδεση με λέβητα. Παραμετροποίηση λέβητα καυσίμου. Εκπαίδευση προσωπικού.	Η αντικατάσταση μαζούτ με lng θα επιφέρει εξοικονόμηση καυσίμου και μείωση εκπομπών διοξειδίου του άνθρακα.	Μείωση του ειδικού συντελεστή εκπομπών διοξειδίου του άνθρακα ανά παραγόμενο τόνο προϊόντος.
ME2	Διαμόρφωση χώρου. Αγορά μονάδας ΣΗΘΥΑ και εγκατάστασή της. Σύνδεση με παραγωγική διαδικασία. Εκπαίδευση ή/και πρόσληψη προσωπικού.	Η χρήση της μονάδας ΣΗΘΥΑ θα επιφέρει περαιτέρω εξοικονόμηση καυσίμου και παραγωγή ηλεκτρικής ενέργειας προς χρήση ή πώληση.	Μείωση του ειδικού συντελεστή εκπομπών διοξειδίου του άνθρακα ανά παραγόμενο τόνο προϊόντος.
ME3	Καθαρισμός και διαμόρφωση χώρου. Αγορά και εγκατάσταση φωτοβολταϊκού συστήματος.	Μερική αντικατάσταση της θερμικής ενέργειας από ηλεκτρική. Αντικατάσταση ηλεκτρικής ενέργειας από ενέργεια ΑΠΕ στο εργοστάσιο συνολικά.	Αύξηση της ενεργειακής ασφάλειας του εργοστασίου. Ελαχιστοποίηση των έμμεσων εκπομπών Score 2.
ME4	Διαμόρφωση χώρων αποθήκευσης μεικτών καυσίμων και καυσίμων βιομάζας. Εκπαίδευση τεχνικού προσωπικού. Δοκιμαστική λειτουργία διαφορετικών ειδών βιομάζας. Ανάπτυξη διαδικασιών δειγματοληψίας και ανάλυσης των εναλλακτικών καυσίμων.	Η ενσωμάτωση μεικτών καυσίμων και καυσίμων βιομάζας απαιτεί μικρές μόνο επενδύσεις παγίων στην εγκατάσταση για τη διαμόρφωση χώρων αποθήκευσης. Απαιτεί επίσης την αλλαγή των διαδικασιών παραγωγής και την ανάπτυξη διαδικασιών διαχείρισης των νέων καυσίμων.	Μείωση του ειδικού συντελεστή εκπομπών διοξειδίου του άνθρακα ανά παραγόμενο τόνο προϊόντος.
ME5	Έρευνα και αγορά απαιτούμενου εξοπλισμού για κατάργηση χρήσης θερμικής ενέργειας. Διαμόρφωση χώρου και λειτουργίας εργοστασίου.	Ολική αντικατάσταση της θερμικής ενέργειας από ηλεκτρική.	Μηδενισμός του ειδικού συντελεστή εκπομπών CO2 ανά παραγόμενο τόνο προϊόντος.
ME6			
ME7			
ME8			
ME9			
ME10			

3 Categorisation of measures

Please attribute each measure to one or more of the following types of GHG savings or decarbonisation technologies, as applicable:

- switch to low- or zero-emission technologies
- energy efficiency and energy savings
- switch from fossil fuels to:
 - hydrogen
 - electricity
 - biomass fulfilling the sustainability and greenhouse gas savings criteria referred to in Article 38(5) of Implementing Regulation (EU) 2018/2066
 - alternative fuels from waste streams
 - other sources of renewable energy
- resource efficiency, including reduced consumption of materials and recycling
- carbon capture utilisation and storage
- other

No.	(i) switch to low- or zero-emission technologies	(ii) energy efficiency and energy savings	(iii) (1) hydrogen	(iii) (2) electricity	(iii) (3) sust. Biomass	(iii) (4) to alternative fuels	(iii) (5) other sources of renewable energy	(iv) resource efficiency, etc.	(v) carbon capture utilisation and storage	(vi) other
ME1	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
ME2	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
ME3	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE
ME4	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE
ME5	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE
ME6										
ME7										
ME8										
ME9										
ME10										

II Investments

1 Investment

Please list here all investments providing the following information:

- the year in which the investment is planned to be taken (where appropriate, investments may be combined as 5-year averages will be calculated under point 2. below);
- a short name or internal ID for each investment in order to facilitate making reference to each investment later in this template;
- the corresponding investment costs in mio. € (best estimate at the time of preparing the CNP). This value should be expressed as the one-off investment costs, annualising will be done automatically under point 2) below;

- a detailed description of each investment. It is possible to refer to an attached document file, if the description exceeds the space provided here (then please list the exact file name here and in sheet K_Comments).

No.	Year	Short name or internal ID	Costs in M€	Detailed description of investments
Ex.1	2032	New electric furnaces	152	Purchase and installation of electric furnaces (further details see separate file 'CNP file.docx')
IN1	2026	Ing	3	Αγορά και εγκατάσταση δεξαμενών Ing. Σύνδεση με λέβητα καυσίμου. Παραμετροποίηση λειτουργίας εργοστασίου.
IN2	2031	ΣΗΘΥΑ	6	Αγορά και εγκατάσταση μονάδας και λοιπού απαιτούμενου εξοπλισμού για σύνδεση με παραγωγική διαδικασία.
IN3	2036	Φ/Β σύστημα	4	Αγορά και εγκατάσταση συστήματος και λοιπού απαιτούμενου εξοπλισμού για σύνδεση με παραγωγική διαδικασία.
IN4	2044	εναλλακτικά καύσιμα	2	Αγορά σιλό, διαμόρφωση χώρων αποθήκευσης καυσίμων βιομάζας
IN5	2049	εξηλεκτρισμός	4	Αγορά και εγκατάσταση απαιτούμενου εξοπλισμού για τον εξηλεκτρισμό της παραγωγικής διαδικασίας. Αγορά επιπλέον ΑΠΕ.
IN6				
IN7				
IN8				
IN9				
IN10				

2 Investments annualised Euros

The annualised Euros per year for each five-year period are automatically calculated based on the inputs under point 1) above.

Period	<= 2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050
Annualised M€	N.A.	0,60	1,20	0,80	0,40	0,80

III Milestones

Please list here all milestones providing the following information:

- the year in which the milestone is planned to be reached;
- a detailed description of each milestone;
- the relevant measure for each milestone. Please select them from the drop-down list or, where more than one measure is relevant, enter corresponding information in the form of "ME1, ME3", etc.

It is possible to refer to an attached document file, if the description exceeds the space provided here (then please list the exact file name here and in sheet K_Comments).
Milestones shall be commensurate to the targets entered in the following sheets.

No.	Period	Detailed description of the milestones	Measure(s)
Ex.1	2031-2035	Final investment decision taken (further details see separate file 'CNP file.docx')	ME1: New electric furnaces
Ex.2	2031-2035	Dismantling of old furnaces (further details see separate file 'CNP file.docx')	ME1, ME3
M11	2026-2030	Ολοκλήρωση εγκατάστασης δεξαμενών Ing και εργασιών σύνδεσης με λέβητα. Κατάργηση χρήσης μαζούτ.	ME1: Μίγμα καυσίμου
M12	2031-2035	Ολοκλήρωση εγκατάστασης μονάδας ΣΗΘΥΑ και λειτουργία της.	ME2: ΣΗΘΥΑ
M13	2036-2040	Ολοκλήρωση εγκατάστασης Φ/Β συστήματος και λειτουργία του.	ME3: Φ/Β σύστημα
M14	2041-2045	Ολοκλήρωση των απαιτούμενων χώρων αποθήκευσης εναλλακτικών καυσίμων και βιομάζας.	ME4: Μίγμα καυσίμου
M15	2046-2050	Πλήρης αντικατάσταση θερμικής ενέργειας από ηλεκτρική.	ME5: Κλιματική ουδετερότητα
M16			
M17			
M18			
M19			
M110			
M111			
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M121			
M122			
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M127			
M128			
M129			
M130			

IV Measures and investments prior to submission of the CNP (optional)

Optionally, you may list and describe all measures and investments already implemented prior to the submission of the climate-neutrality plan.

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F. Targets & Impacts ProdBM

I Quantitative impact assessment product BM sub-installations

1 Sub-installation with product benchmark: **Testliner and fluting**
The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets	0,418	t CO2e / Adt		0,250	0,200	0,180	0,075	0,000
ii. Absolute emission targets	15.110	t CO2e						

(b) Relative emission targets
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value t CO2e / Adt	2025	2030	2035	2040	2045	2050
i. Relative to baseline value	0,4179		60%	48%	43%	18%	0%
ii. Relative to relevant BM value	0,1880		133%	106%	96%	40%	0%

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments".
Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.), in which case the total emission reduction displayed under iii. equals the specific reduction under i.
Following the entries made in sections C.I and E.I.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value t CO2e / Adt	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)	0,4179		-0,168	-0,218	-0,238	-0,343	-0,418

	Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1	ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex.2	ME2: New furnace	IN2: New furnace				70%	80%	100%
1	ME1: Μίγμα καυσίμου	IN1: Inq		100%	50%	45%	20%	
2	ME2: ΣΗΘΥΑ	IN2: ΣΗΘΥΑ			50%	45%	20%	30%
3	ME3: Φ/Β σύστημα	IN3: Φ/Β σύστημα				10%	10%	20%
4	ME4: Μίγμα καυσίμου	IN4: εναλλακτικά καύσιμα					50%	
5	ME5: Κλιματική ουδετερότητα	IN5: εξηλεκτρισμός						50%
6								
7								
8								
9								
10								
iii.	Reduction compared to baseline (100% = values under i.)		-0,168	-0,218	-0,238	-0,343	-0,418	
iv.	Consistency check (= iii. / i.)		100%	100%	100%	100%	100%	
v.	Consistency check (error message)							

(d) Any further comments

2 Sub-installation with product benchmark:

The name of the product benchmark sub-installation is displayed automatically based in the inputs in sheet "C_InstallationDescription".

(a) Specific emission targets
Please enter here the intermediate targets, expressed as specific emissions consistent with the historical emissions (baseline), for the end of each five year period. Additionally absolute emission targets can be entered optionally.
The baseline is automatically calculated based on the input of historical emissions in sheet D_HistoricalEmissions.

	Baseline	Unit	2025	2030	2035	2040	2045	2050
i. Specific emission targets								
ii. Absolute emission targets		t CO2e						

(b) Relative emission targets
The reduction of specific emissions relative to the baseline (average historic emissions or estimate in sheet D) and the relevant benchmark value are automatically calculated, based on the inputs for the specific emission targets under point (a) above.

	Reference value	2025	2030	2035	2040	2045	2050
i. Relative to baseline value							
ii. Relative to relevant BM value							

(c) Split of specific emission reduction by measure and investment
Please select from the drop-down list each measure that has an impact on the targets specified above for this sub-installation.
For each measure please select from the drop-down list the relevant investments. Where no investment is related to the measure, e.g. only process optimisation, please select "no investments".
Where more than one investment relates to a certain measure, please enter corresponding information in the form of "IN1, IN4", etc.
Subsequently, please provide for each period the percentage to which each measure and investments contributes to the specific emission reduction displayed under i. The sum of all measures should equal 100% (consistency check under iv.) in which case the total emission reduction displayed under iii. equals the specific reduction under i.
Following the entries made in sections C.I and E.I.1, years prior to the period in which the measures are implemented or prior and after the sub-installation is operational are greyed out.

The consistency check under v. will prompt an error message in the following cases:

- no targets are set before a cessation or targets are set after a cessation;
- impacts are entered for years where there are either no targets set or the targets are equal to the baseline, i.e. reduction under i. equals zero;
- the impacts do not add up to 100%.

	Reference value	2025	2030	2035	2040	2045	2050
i. Specific reduction (target versus baseline)							

i. Specific reduction (target versus baseline)								
ii.	Measure	Investment	2025	2030	2035	2040	2045	2050
Ex.1	ME1: Process optimisations over	IN1, IN3		100%	100%	30%	20%	
Ex.2	ME2: New furnace	IN2: New furnace				70%	60%	100%
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
iii.	Reduction compared to baseline (100% = values under i.)							
iv.	Consistency check (= iii. / i.)							
v.	Consistency check (error message)							
(d) Any further comments								

I. SUMMARY

I General information about the CNP

(a) About the operator

Operator Name	EL PACK AE
Member State	Greece
Emissions trading permit number	member state/CA prefix EL/ΥΠΕΝ/ΔΚΑΠΑ/93732/1589/5-10-2020
Competent Authority	ΥΠΕΝ / Τμήμα Μηχανισμών Αγοράς και Μητρώου Εκπομπών
CNP submitted by DH company at company level	
The operator of this installation confirms that this plan may be used by the competent authority and the European Commission.	
The operator of this installation confirms the conformity of the system boundaries of emissions.	

(b) About the installation(s)

No.	Installation Name	Registry ID (as in NIMs)	Unique ID	Address	City	State/Province/Region	Postcode/ZIP	Country
1	EL PACK AE	114	GR0000000000000114	ΠΕΡΙΟΧΗ	ΔΑΜΑΣΤΑ	ΦΘΙΩΤΙΔΑ	35100	Greece
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II Historical emissions

No.	Product type	Unit	2019	2020	2021	2022	2023	Estimate
1	Testliner and fluting	t CO2e / Adt	0,444	0,441	0,413	0,385	0,406	0,000
2								
3								
4								
5								
6								
7								
8								
9								
10								
11	Heat benchmark sub-installation, CL, non-CBAM	TJ						
12	Heat benchmark sub-installation, non-CL, non-CBAM	TJ						
13	Heat benchmark sub-installation, CBAM	TJ						
14	District heating sub-installation	TJ						
15	Fuel benchmark sub-installation, CL, non-CBAM	TJ						
16	Fuel benchmark sub-installation, non-CL, non-CBAM	TJ						
17	Fuel benchmark sub-installation, CBAM	TJ						
18	Process emissions sub-installation, CL, non-CBAM	t CO2e						
19	Process emissions sub-installation, non-CL, non-CBAM	t CO2e						
20	Process emissions sub-installation, CBAM	t CO2e						
21								
22								
23								

III Specific targets relative to the relevant benchmark and to the baseline value

(a) Specific targets relative to the relevant benchmark values

No.	Product type	BM value	2025	2030	2035	2040	2045	2050
1	Testliner and fluting	0,1880	0%	133%	106%	96%	40%	0%
2								
3								
4								
5								
6								
7								
8								
9								
10								
11	Heat benchmark sub-installation, CL, non-CBAM							
12	Heat benchmark sub-installation, non-CL, non-CBAM							
13	Heat benchmark sub-installation, CBAM							
14	District heating sub-installation							
15	Fuel benchmark sub-installation, CL, non-CBAM							
16	Fuel benchmark sub-installation, non-CL, non-CBAM							
17	Fuel benchmark sub-installation, CBAM							
18	Process emissions sub-installation, CL, non-CBAM							
19	Process emissions sub-installation, non-CL, non-CBAM							
20	Process emissions sub-installation, CBAM							
21								
22								
23								

(b) Specific targets relative to the average specific emissions during the baseline

No.	Product type	Baseline	2025	2030	2035	2040	2045	2050
1	Testliner and fluting	0,4179	0%	60%	48%	43%	18%	0%
2								
3								
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5								
6								
7								
8								
9								
10								

11	Heat benchmark sub-installation, CL, non-CBAM						
12	Heat benchmark sub-installation, non-CL, non-CBAM						
13	Heat benchmark sub-installation, CBAM						
14	District heating sub-installation						
15	Fuel benchmark sub-installation, CL, non-CBAM						
16	Fuel benchmark sub-installation, non-CL, non-CBAM						
17	Fuel benchmark sub-installation, CBAM						
18	Process emissions sub-installation, CL, non-CBAM						
19	Process emissions sub-installation, non-CL, non-CBAM						
20	Process emissions sub-installation, CBAM						
21							
22							
23							

III Gantt charts for measures, investments & milestones

(a) Measures	<= 2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050
1 ME1: Μίγμα καυσίμου						
2 ME2: ΣΗΘΥΑ						
3 ME3: Φ/Β σύστημα						
4 ME4: Μίγμα καυσίμου						
5 ME5: Κλιματική ουδετερότητα						
6						
7						
8						
9						
10						
(b) Investments	<= 2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050
1 IN1: lng						
2 IN2: ΣΗΘΥΑ						
3 IN3: Φ/Β σύστημα						
4 IN4: εναλλακτικά καύσιμα						
5 IN5: εξηλεκτρισμός						
6						
7						
8						
9						
10						
(c) Milestones	<= 2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050
1 MI1: Ολοκλήρωση εγκατάστασης δεξαμενών lng και εργασιών α						
2 MI2: Ολοκλήρωση εγκατάστασης μονάδας ΣΗΘΥΑ και λειτουργ						
3 MI3: Ολοκλήρωση εγκατάστασης Φ/Β συστήματος και λειτουρ						
4 MI4: Ολοκλήρωση των απαιτούμενων χώρων αποθήκευσης εν						
5 MI5: Πλήρης αντικατάσταση θερμικής ενέργειας από ηλεκτρικ						
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IV Details for measures, investments & milestones

(a) Measures										
No.	Period	Short name or internal ID	Detailed description							
ME1	2026-2030	Μίγμα καυσίμου	Αλλαγή μίγματος καυσίμου με μικρότερο αποτύπωμα άνθρακα. Πλήρης αντικατάσταση μαζούτ με lng.							
ME2	2031-2035	ΣΗΘΥΑ	Εγκατάσταση μονάδας συμπαραγωγής ηλεκτρισμού-θερμότητας υψηλής απόδοσης, η οποία θα επιφέρει							
ME3	2036-2040	Φ/Β σύστημα	Εγκατάσταση φωτοβολταϊκών για μερική αντικατάσταση της θερμικής ενέργειας από ηλεκτρική ενέργεια που θα							
ME4	2041-2045	Μίγμα καυσίμου	Αλλαγή μίγματος καυσίμου με μικρότερο αποτύπωμα άνθρακα.							
ME5	2046-2050	Κλιματική ουδετερότητα	Ολική αντικατάσταση θερμικής ενέργειας από ηλεκτρική.							
ME6										
ME7										
ME8										
ME9										
ME10										
No.	Detailed description of enabling conditions		Reasons for measure decision		Qualitative impacts					
ME1	Εγκατάσταση νέων δεξαμενών καυσίμου. Σύνδεση με λέβητα.		Η αντικατάσταση μαζούτ με lng θα επιφέρει		Μείωση του ειδικού συντελεστή εκπομπών					
ME2	Διαμόρφωση χώρου. Αγορά μονάδας ΣΗΘΥΑ και εγκατάσταση		Η χρήση της μονάδας ΣΗΘΥΑ θα επιφέρει		Μείωση του ειδικού συντελεστή εκπομπών					
ME3	Καθαρισμός και διαμόρφωση χώρου. Αγορά και εγκατάσταση		Μερική αντικατάσταση της θερμικής ενέργειας		Αύξηση της ενεργειακής ασφάλειας του					
ME4	Διαμόρφωση χώρων αποθήκευσης μεικτών καυσίμων και		Η ενσωμάτωση μεικτών καυσίμων και		Μείωση του ειδικού συντελεστή εκπομπών					
ME5	Έρευνα και αγορά απαιτούμενου εξοπλισμού για κατάργηση		Ολική αντικατάσταση της θερμικής ενέργειας		Μηδενισμός του ειδικού συντελεστή εκπομπών					
ME6										
ME7										
ME8										
ME9										
ME10										
No.	(i) switch to low- or zero-emission technologies	(ii) energy efficiency and energy savings	(iii) (1) hydrogen	(iii) (2) electricity	(iii) (3) sust. Biomass	(iii) (4) to alternative fuels	(iii) (5) other sources of renewable energy	(iv) resource efficiency, etc.	(v) carbon capture utilisation and storage	(vi) other
ME1	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
ME2	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
ME3	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE
ME4	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE
ME5	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE

ME6									
ME7									
ME8									
ME9									
ME10									

(b) Investments

No.	Year	Short name or internal ID	Costs in M€	Detailed description of investments						
IN1	2026	Ing	3	Αγορά και εγκατάσταση δεξαμενών Ing. Σύνδεση με λέβητα καυσίμου. Παραμετροποίηση λειτου						
IN2	2031	ΣΗΘΥΑ	6	Αγορά και εγκατάσταση μονάδας και λοιπού απαιτούμενου εξοπλισμού για σύνδεση με παραγω						
IN3	2036	Φ/Β σύστημα	4	Αγορά και εγκατάσταση συστήματος και λοιπού απαιτούμενου εξοπλισμού για σύνδεση με παρα						
IN4	2044	εναλλακτικά καύσιμα	2	Αγορά σιλό, διαμόρφωση χώρων αποθήκευσης καυσίμων βιομάζας						
IN5	2049	εξηλεκτρισμός	4	Αγορά και εγκατάσταση απαιτούμενου εξοπλισμού για τον εξηλεκτρισμό της παραγωγικής διαδι						
IN6										
IN7										
IN8										
IN9										
IN10										
Period				<= 2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	
Annualised M€				N.A.	0,60	1,20	0,80	0,40	0,80	

(c) Milestones

No.	Period	Detailed description of the milestones	Measure(s)
M11	2026-2030	Ολοκλήρωση εγκατάστασης δεξαμενών Ing και εργασιών σύνδεσης με λέβητα. Κατάργηση χρήσης μαζούτ.	ME1: Μίγμα καυσίμου
M12	2031-2035	Ολοκλήρωση εγκατάστασης μονάδας ΣΗΘΥΑ και λειτουργία της.	ME2: ΣΗΘΥΑ
M13	2036-2040	Ολοκλήρωση εγκατάστασης Φ/Β συστήματος και λειτουργία του.	ME3: Φ/Β σύστημα
M14	2041-2045	Ολοκλήρωση των απαιτούμενων χώρων αποθήκευσης εναλλακτικών καυσίμων και βιομάζας.	ME4: Μίγμα καυσίμου
M15	2046-2050	Πλήρης αντικατάσταση θερμικής ενέργειας από ηλεκτρική.	ME5: Κλιματική ουδετερότητα
M16			
M17			
M18			
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M130			

V Sub-installation data

1 Sub-installation with product benchmark:

Testliner and fluting

	Reference value	2025	2030	2035	2040	2045	2050
i. Targets relative to baseline value	t CO ₂ e / Adt 0,4179		60%	48%	43%	18%	0%
ii. Targets relative to relevant BM value	0,1880		133%	106%	96%	40%	0%

	Reference value	2025	2030	2035	2040	2045	2050
iii. Absolute specific reduction versus baseline	t CO ₂ e / Adt 0,4179		-0,168	-0,218	-0,238	-0,343	-0,418

iv. Impact share of each measure (100% = value under point iii.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1 ME1: Μίγμα καυσίμου	IN1: Ing	0%	100%	50%	45%	20%	0%
2 ME2: ΣΗΘΥΑ	IN2: ΣΗΘΥΑ	0%	0%	50%	45%	20%	30%
3 ME3: Φ/Β σύστημα	IN3: Φ/Β σύστημα	0%	0%	0%	10%	10%	20%
4 ME4: Μίγμα καυσίμου	IN4: εναλλακτικά καύσιμα	0%	0%	0%	0%	50%	0%
5 ME5: Κλιματική ουδετερότητα	IN5: εξηλεκτρισμός	0%	0%	0%	0%	0%	50%
6							
7							
8							
9							
10							
TOTAL		0%	100%	100%	100%	100%	100%

v. Impact share of each measure (100% = reference value during baseline, point i.)

Measure	Investments	2025	2030	2035	2040	2045	2050
1 ME1: Μίγμα καυσίμου	IN1: Ing	0%	-40%	-26%	-26%	-16%	0%
2 ME2: ΣΗΘΥΑ	IN2: ΣΗΘΥΑ	0%	0%	-26%	-26%	-16%	-30%
3 ME3: Φ/Β σύστημα	IN3: Φ/Β σύστημα	0%	0%	0%	-6%	-8%	-20%
4 ME4: Μίγμα καυσίμου	IN4: εναλλακτικά καύσιμα	0%	0%	0%	0%	-41%	0%
5 ME5: Κλιματική ουδετερότητα	IN5: εξηλεκτρισμός	0%	0%	0%	0%	0%	-50%
6							
7							
8							
9							
10							
TOTAL		0%	-40%	-52%	-57%	-62%	-100%

I. MS specific	Navigation area:	Table of contents			

I. ADDITIONAL DATA REQUIREMENTS BY THE MEMBER STATE**I To be defined by the Member State**

K. COMMENTS AND FURTHER INFORMATION**I Documents supporting this report**

Please list here all relevant documents which are submitted together with this plan

Please provide file name(s) (if in an electronic format) or document reference number(s) (if hard copy) below:

File name/Reference	Document description

II Free space for all kinds of supplemental information

In space below you can enter all information which was not suitable for input in other sheets and which you consider important for the competent authority