



PHAETHON CoE Brand Book

Contents

Brand Kit

| | |
|--|-----------|
| Logos | 4 |
| FOSS Evolving to Phaethon | 4 |
| Phaethon Centre of Excellence Logo | 5 |
| Phaethon Teaming Project Logo | 7 |
| Sub Units Logo Design | 9 |
| Stationery Design | 10 |
| Business Cards | 10 |
| Letterhead Design | 11 |
| Envelope Design | 12 |
| Folder Designs | 13 |
| CoE Documents Templates | 16 |
| Teaming Project Documents Templates | 17 |
| Whitepaper Design | 18 |
| Digital Use | 19 |
| CoE Email Signature | 19 |
| Social Media Pages | 20 |
| Social Media Posts | 22 |
| Internship Programme Promotion | 23 |
| Online Workspace and Teams Backgrounds | 24 |
| PowerPoint Presentation Templates | 25 |

Visual Guidelines

| | |
|---------------------------------|-----------|
| Brand Colours | 28 |
| Primary Colour Palette | 28 |
| Secondary Colour Palette | 28 |
| Brand Colours Examples | 29 |
| Brand Fonts | 30 |
| Character & Paragraph Styles | 31 |
| Logo Guidelines | 32 |
| Logo Colour Variations Examples | 32 |
| Logo Colour Variations to Avoid | 33 |
| Logo Resizing | 34 |
| Clear Space Around the Logo | 35 |
| Logo Spacing | 36 |
| Logo Positioning | 37 |

Brand Kit

The background is a solid teal color. On the right side, there are several overlapping, semi-transparent teal shapes that resemble stylized, curved lines or abstract geometric forms, creating a sense of depth and movement.

Logos

FOSS Evolving to Phaethon

PHAETHON is a "Teaming for Excellence" Horizon Europe project that will lead to the establishment of the PHAETHON Centre of Excellence (CoE) for Research and Innovation in the field of Intelligent, Efficient and Sustainable Energy Solutions, signaling in parallel the evolution and upgrade of the existing FOSS Research Centre for Sustainable Energy at the University of Cyprus.

Similarly, the PHAETHON logo is an evolution of the FOSS logo; the copper orange colour is turning to "verdigris", the bluish-green colour copper changes into when it matures. The new font, its colour and weight, are now bolder to reflect the Centre's bolder ambitions.



Phaethon Centre of Excellence Logo

Long version/ Main version

This is the main version of the logo used more often.



Short version

This version of the logo can be used when the “main version” has already been used and the logo needs to be repeated, i.e. in the header of a document from page 2 onwards.



Phaethon Centre of Excellence Logo
Colour Variations

Full Colour



Greyscale



Monochrome



Phaethon Teaming Project Logo

This logo is used in deliverables that refer to the Phaethon Teaming Project.



Phaethon Teaming Project Logo
Colour Variations

Full Colour



Greyscale



Monochrome



Sub Units Logo Design

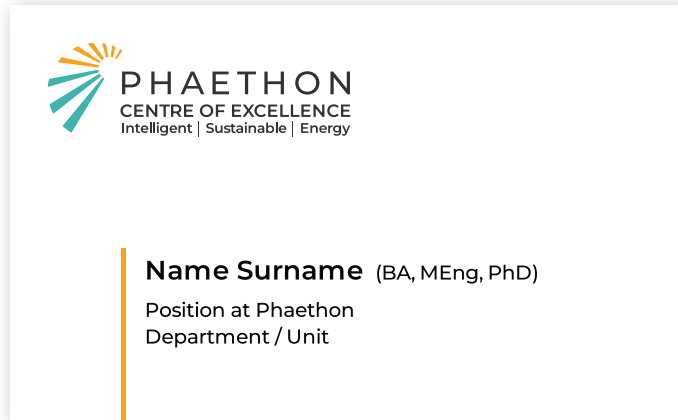


Stationery Design

Business Cards

General Purpose / Single Role

Including only the
PHAETHON CoE role.

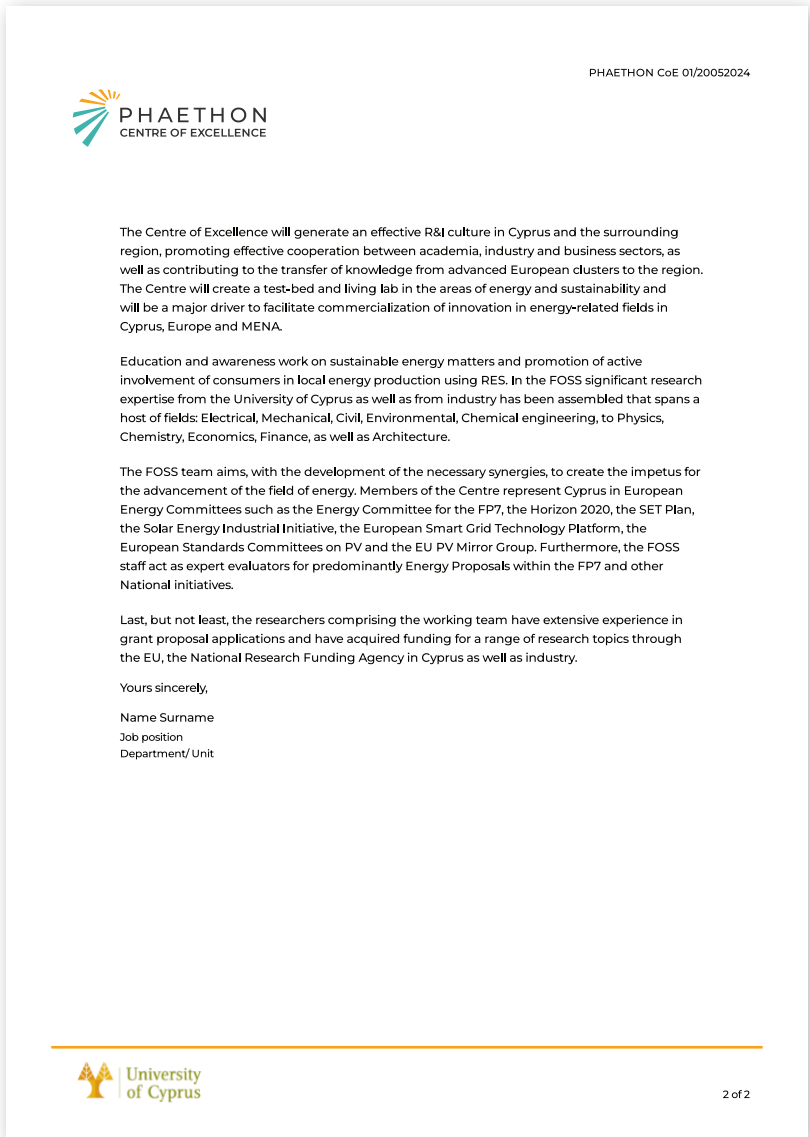


Dual Role

Including both PHAETHON
CoE and University of
Cyprus roles.



Letterhead Design



Envelope Design

A4 size



DL size

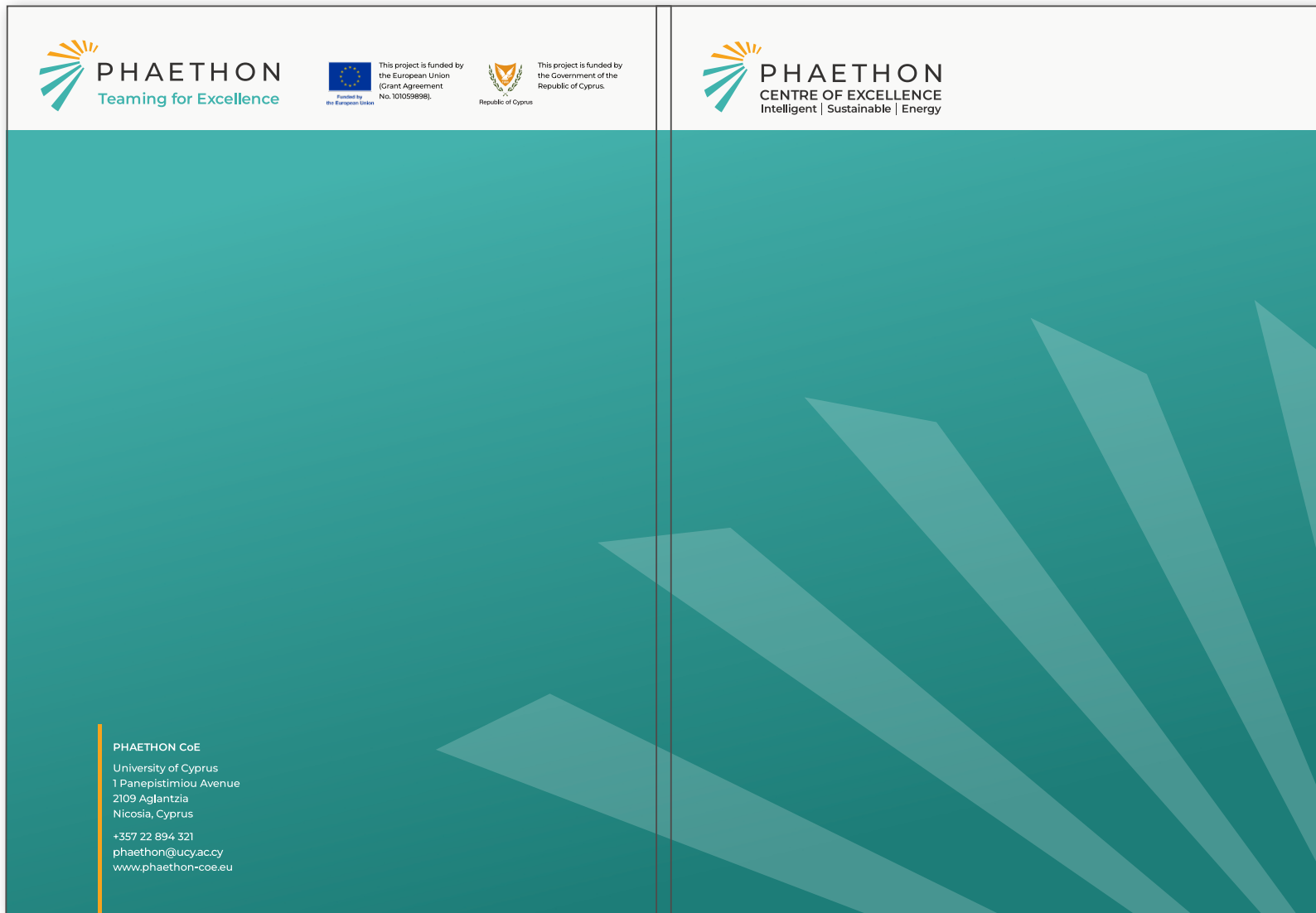
CoE Folder Design

Back & Front Cover (Open)



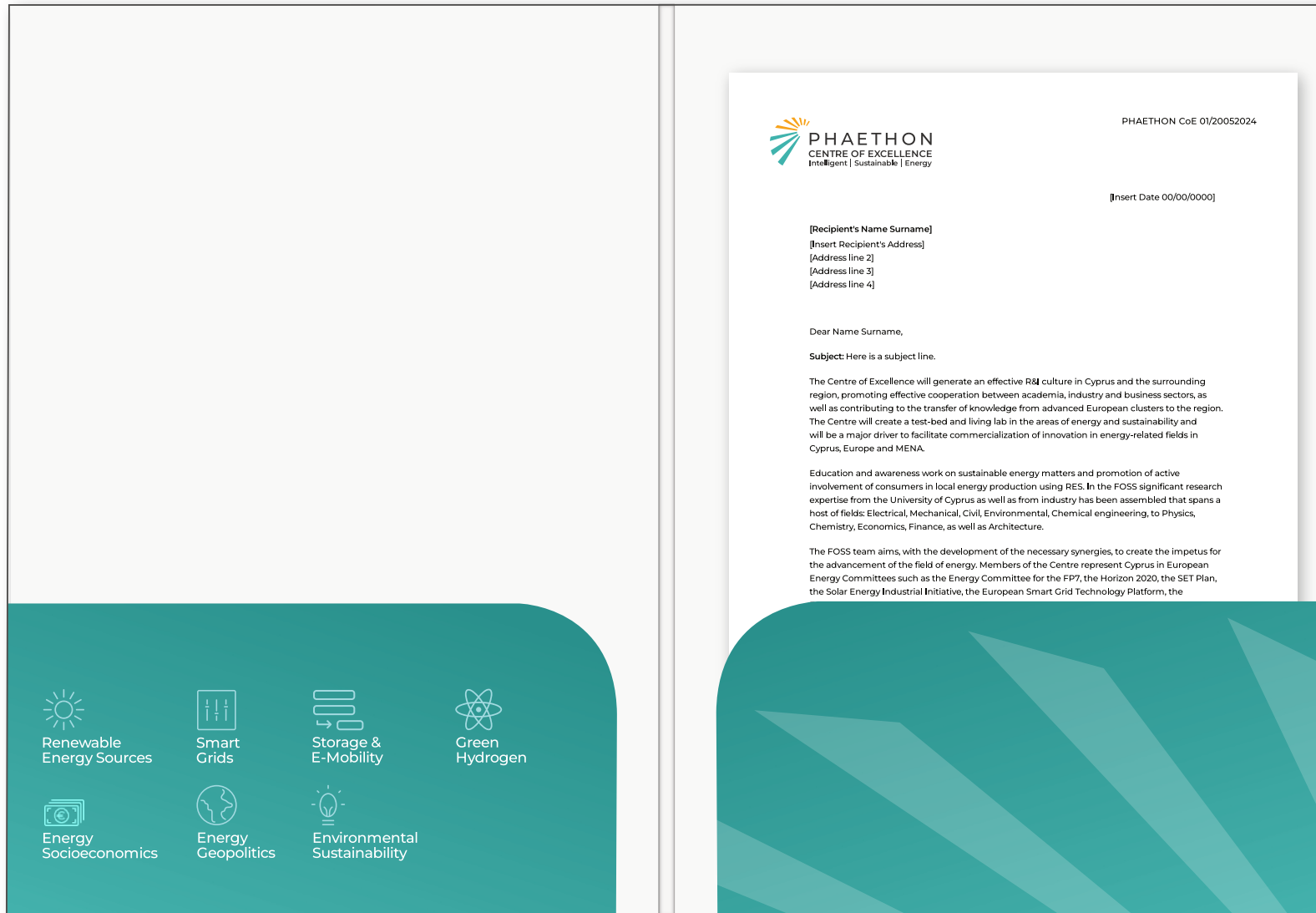
Hybrid Folder Design

Back & Front Cover (Open)

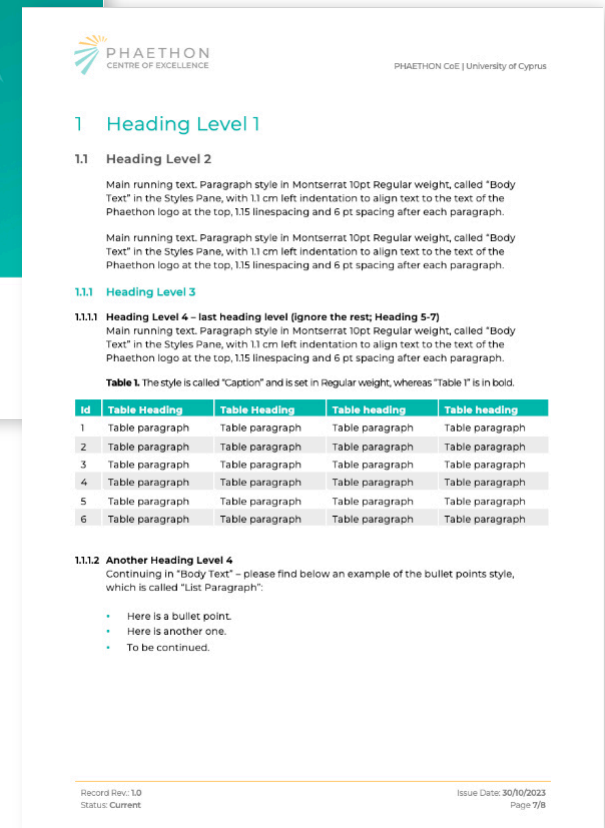
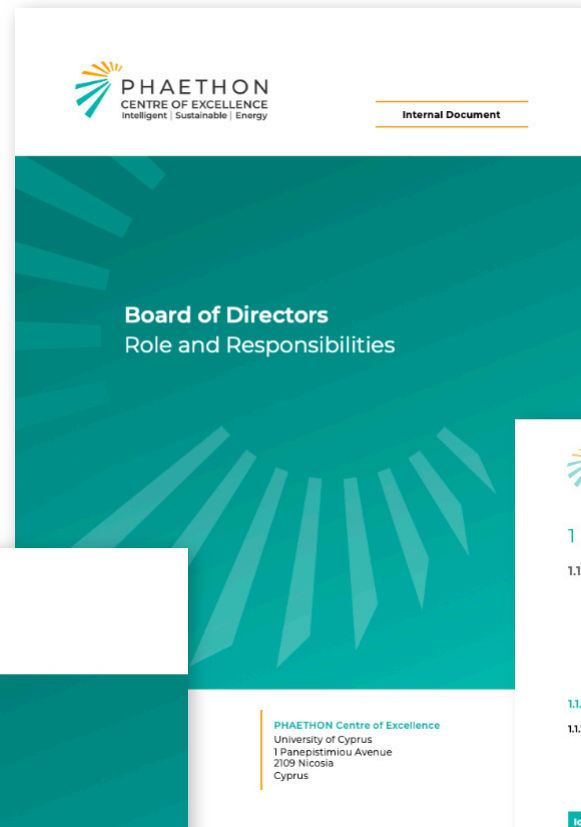
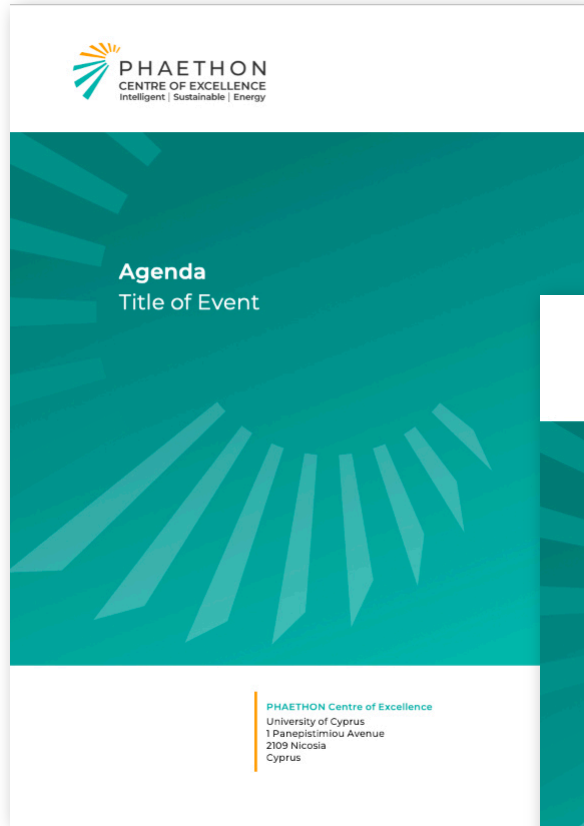


CoE & Hybrid Folder Design

Inside (Open)



CoE Documents Templates



Teaming Project Documents Templates

PHAETHON
Teaming for Excellence

Agenda

Title of Event

University of Cyprus
 Technical University of Denmark
 university of groningen
 cyprusseeds

This project is funded by the European Union (Grant Agreement No. 101059898).
 This project is funded by the Government of the Republic of Cyprus.

PHAETHON
Teaming for Excellence

Agenda

Agenda

Title of Event

Some information about the meeting or the project. Some information about the meeting or the project. Some information about the meeting or the project. Some information about the meeting or the project. Some information about the meeting or the project. Some information about the meeting or the project.

Dates: 12/10/2023 – 14/10/2023

Day 1

12/10/2023
09:00–14:00
Location, Institution, City

Participants:
Name Surname (Institution)
Name Surname (Institution)
Name Surname (Institution)

00:00 – 00:00 **Introductions**

10:00 – 11:00 **Presentations**

10:00 – 10:20 **Welcome and Opening Remarks**

Presentation Title
Presenter's Name
Position
Institution/ Company

10:20 – 10:40 **Presentation Title**
Presenter's Name
Position
Institution/ Company

Presentation Title
Presenter's Name
Position
Institution/ Company

10:40 – 11:00 **Presentation Title**
Presenter's Name
Position
Institution/ Company

00:00 – 00:00 **Coffee break**

PHAETHON
Teaming for Excellence

WP1 Deliverable 1

Quality assurance and risk management plan

University of Cyprus
 Technical University of Denmark
 university of groningen
 cyprusseeds

This project is funded by the European Union (Grant Agreement No. 101059898).
 This project is funded by the Government of the Republic of Cyprus.


PHAETHON
Teaming for Excellence

Monitoring Record


Monitoring Report

| Deliverable Number | Deliverable Title | Expected Completion Date | Status | Nonconformance (NCF) | Comments |
|--------------------|---------------------------|--------------------------|--------------------------|----------------------|---------------------|
| D1 | Project progress meetings | M1-M36 | ●●● (Major / Minor / No) | No NCF | Approved version v1 |
| D2 | | | | | |
| D3 | | | | | |
| D4 | | | | | |
| D5 | | | | | |
| D6 | | | | | |
| D7 | | | | | |
| D8 | | | | | |
| D9 | | | | | |
| D10 | | | | | |
| D11 | | | | | |

Page 1/2




PHAETHON
CENTRE OF EXCELLENCE
Intelligent | Sustainable | Energy



University
of Cyprus

Whitepaper

Arc fault circuit interrupter and rapid shutdown field tests



HUAWEI

A collaborative output between the University of Cyprus PHAETHON CoE and Huawei.

Background

Solar photovoltaic potential

The proliferation of distributed solar photovoltaic (PV) systems is experiencing rapid acceleration. In the year 2022, distributed PV, denoting small-scale solar PV installations catering to residential, commercial, industrial, and off-grid applications, constituted 48% of the total global solar PV capacity expansions, marking the highest annual growth rate on record [1].

Projections from the International Energy Agency's (IEA) latest Renewable Energy Market Update suggest that the annual growth of distributed PV is poised to intensify further over the upcoming two years. Moreover, by the year 2024, solar PV is anticipated to attain a capacity of 140 gigawatts, reflecting a growth surge exceeding 30% in comparison to 2022 levels [1]. The global distributed solar PV net additions per year 2017-2024 depicted in Fig. 1 verifies the fact that the technology is adopted and integrated at high shares worldwide.

The European Green Deal (EGD) stands as a landmark initiative devised by the European Union (EU) to steer the continent towards a sustainable and carbon-neutral future. This comprehensive strategy outlines ambitious goals spanning various sectors, including energy, transport, agriculture, and industry, aiming "to achieve net-zero greenhouse gas emissions by 2050. At its core, the EGD envisions a profound transformation of Europe's economy, fostering green growth, enhancing resource efficiency, and ensuring social inclusivity. Integral to this vision is the Repower EU initiative, a key component designed to revamp the EU's energy infrastructure, bolster renewable energy deployment, and fortify energy security. Repower EU seeks to accelerate the transition towards clean energy by investing in renewable technologies, upgrading energy grids, and promoting energy efficiency measures. Together, the EGD and Repower EU signify the EU's commitment to combating climate change, fostering sustainable development, and leading the global transition towards a greener future.

Renewables and efficiency are key to drive fossil fuel demand down. To align with the urgent transformation need for a sustainable and secure energy supply, European nations have implemented a greater number of policy and regulatory adjustments aimed at streamlining permitting processes than throughout the entire preceding decade. While permitting has emerged as a central policy priority in Europe to expedite the rollout of solar PV projects, initial positive outcomes are beginning to manifest. As presented in Fig. 2 solar PV additions are forecast to more than double by 2028 compared with 2022, continuously breaking records over the forecast period to reach almost 710 GW [2].

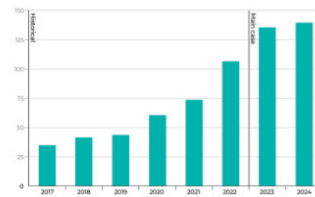


Figure 1 Global distributed solar PV net additions per year (2017-2024) [1].

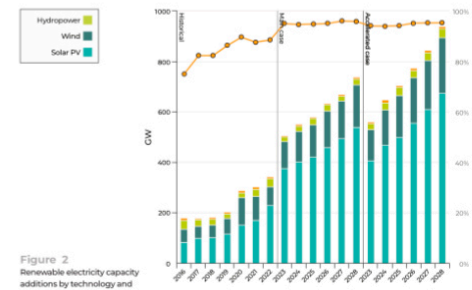


Figure 2 Renewable electricity capacity additions by technology and segment, 2016-2028 [2].

> Technical

Huawei AFCI and RSD technology solution

To address the threat posed by DC arc effective method is to stop the current DC side by disconnecting the inverter, developed an innovative solution for m arc faults, utilising advanced artificial intelligence for arc detection. Integrating Huawei's inverters, the AFCI combi functions into a single solution, the space and reducing additional installation costs. This technology is featured in Huawei's SUN2000 inverter series and can be seamlessly integrated with Smart PV Optimisers. Together, they offer pinpoint arc fault detection and rapid shutdown functionality, particularly when the system is fully configured with optimisers. This comprehensive solution ensures safety in commercial, industrial (C&I), and residential applications.

Learning capabilities enable it to continuously learn unknown spectra, thereby enhancing the device's adaptability to noise, as presented in Fig. 4. These features have significantly improved the AFCI's ability to distinguish DC arcs from other characteristics, reducing the occurrence of false alarms commonly experienced with traditional methods. The AFCI device solution is designed to monitor the electrical waveform and identify

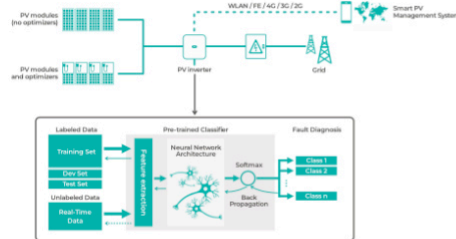


Figure 4 AI BOOST AFCI smart arc detection method block diagram.

enhancing safety by quickly detecting and interrupting arc faults.

- System integrity** – By default, the AFCI function is activated and can only be adjusted locally via the FusionSolar App. This limitation prevents unauthorized alterations to critical parameters, ensuring system integrity. Sensitivity settings are customizable and the option for temporary disabling the feature to facilitate related testing procedures is provided.
- AI deep learning** – By leveraging AI principles the arc characteristics are continuously learned and analyzed in order to correctly distinguish arc conditions and adapt to different environmental conditions.
- Noise differentiation** – Through its AI and deep learning capabilities, the AFCI continuously learns from unknown spectra, enhancing its ability to adapt to various noise levels. This advancement significantly improves the device's capability to differentiate DC arcs from other characteristics that often trigger false alarms in traditional detection methods.
- Fast response and adaptability** – DC arcs tend to be more stable and can persist for longer durations compared to AC arcs. This prolonged duration may lead to greater damage and increased safety risks if not detected promptly. In the event of a DC arc, the AFCI promptly shuts down the inverter operation within milliseconds, as corroborated by various technical reports. These response times significantly exceed the safety thresholds outlined in standards such as UL9998, and IEC 63027, which mandate a maximum response time of 2.5 seconds.

personnel, property, and neighbouring structures. By promptly cutting off the flow of electricity from the PV array to the rest of the system, the RSD technology helps prevent the escalation of arcing incidents, safeguarding both the integrity of the PV installation and the surrounding environment. Both AFCI and RSD solutions have been demonstrated as effective and efficient in multiple technical reports from independent certification organizations.

Digital Use

CoE Email Signature

General Purpose / Single Role

Including only the PHAETHON CoE role.

Name Surname (BA, MA)

Position

Department / Unit



University of Cyprus
1 Panepistimiou Avenue
2109 Aglantzia, Nicosia, Cyprus

+357 22 XXX XXX
surname.name@ucy.ac.cy
phaethon-coe.eu

Find us on



PHAETHON CoE is a Research and Innovation Centre at the University of Cyprus.

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You should note that email is susceptible to data corruption, unauthorized amendment, and interception by unauthorized third parties for which we accept no liability. If you reply to this email sending confidential information and personal data which are governed by the Regulation (EU) 2016/679 "General Data Protection Regulation", these will be for exclusive collection and process by Phaethon CoE based on relevant internal Policy for the Protection of Personal Data which is located on the Centre's website (<http://www.xxxxxx>).

All reasonable precautions have been taken to ensure that this email neither contains nor transmits any viruses and we recommend that you ensure that your anti-virus programmes and procedures are up to date.

Dual Role

Including both PHAETHON CoE
and University of Cyprus roles.

Name Surname (BSc, MEng, PhD)

Position

Department / Unit

Academic rank

Department of X

University of Cyprus



University of Cyprus
1 Panepistimiou Avenue
2109 Aglantzia, Nicosia, Cyprus

+357 22 XXX XXX
surname.name@ucy.ac.cy
phaethon-coe.eu

Find us on



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All reasonable precautions have been taken to ensure that this email neither contains nor transmits any viruses and we recommend that you ensure that your anti-virus programmes and procedures are up to date.

Social Media Pages

PHAETHON CoE Pages

X / Twitter

name: PHAETHON Centre of Excellence

handle: @PHAETHONCoE

<https://twitter.com/PHAETHONCoE>



Facebook

name: PHAETHON-Centre of Excellence

handle: @PHAETHONCoE

<https://www.facebook.com/PHAETHONCoE>

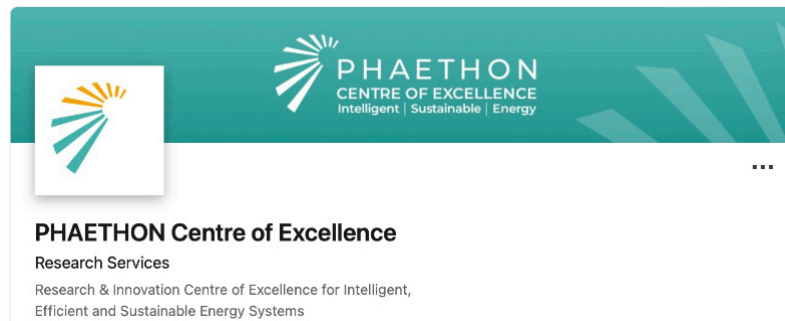


LinkedIn

name: PHAETHON Centre of Excellence

handle: @PHAETHONCoE

<https://www.linkedin.com/company/phaethoncoe/>



PHAETHON Teaming Project Pages

X / Twitter

name: PHAETHON Teaming Project

handle: @teamingphaethon

<https://twitter.com/teamingphaethon>

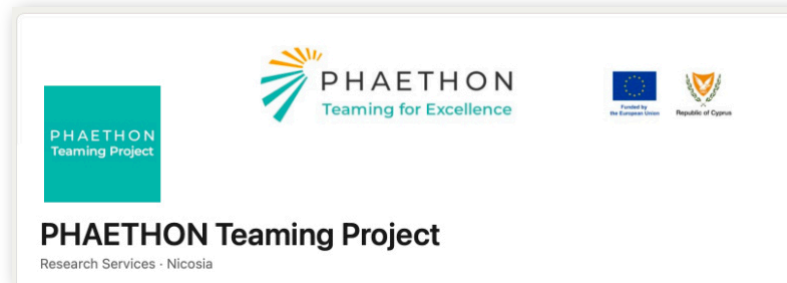


LinkedIn

name: PHAETHON Teaming Project

handle: @teaming-phaethoncoe

<https://www.linkedin.com/showcase/teaming-phaethoncoe/>



Social Media Posts

Posts advertising job vacancies on social media.

PHAETHON
CENTRE OF EXCELLENCE
Intelligent | Sustainable | Energy

Apply by
18 March
2024

NOW HIRING

Financial Controller

#JoinTheJourney
Email your application to:
phaethon.vacancies@ucy.ac.cy

This social media post features a teal background with a white header. The Phaethon logo is in the top left. A yellow circle in the top right contains the application deadline. The main text is white, and the background has a subtle geometric pattern of teal arrows.

PHAETHON
CENTRE OF EXCELLENCE
Intelligent | Sustainable | Energy

Apply by
30 Nov
2023

NOW HIRING

Office Administrator

#JoinTheJourney
Email your application to:
foss.vacancies@gmail.com

This social media post features a teal background with a white header. The Phaethon logo is in the top left. A yellow circle in the top right contains the application deadline. The main text is white, and the background has a subtle geometric pattern of teal arrows.

Internship Programme Promotion

Social media post and email promoting the summer internship programme.



PHAETHON
CENTRE OF EXCELLENCE
Intelligent | Sustainable | Energy

Call for Applications
Internship Programme 2024
for Undergraduate Students

Topics

- PV and Hydrogen Implementation
- Smart Devices and Interoperable Protocols for Control and Communication
- Smart Grids
- Renewable Energy
- Data Analytics
- Fault Detection
- Emerging PV metrology.

Join us in realising the energy transition!

Deadline
23 Feb
2024



PHAETHON
CENTRE OF EXCELLENCE
Intelligent | Sustainable | Energy

Call for Applications

Internship Programme 2024
for Undergraduate Students

Join us in realising the energy transition!

The PHAETHON Centre of Excellence is expanding the educational activities of FOSS, investing in the younger generation, by offering a limited cohort of undergraduate students in the fields of **Electrical Engineering, Mechanical Engineering, Computer Engineering, Physics** and **Mathematics**, the opportunity to participate this summer in an enriched Internship Programme.

Join a cohort of like-minded interns from across the globe and gain the know-how to accelerate your career, through technical coursework, workshops, and hands-on experiments!

Topics:

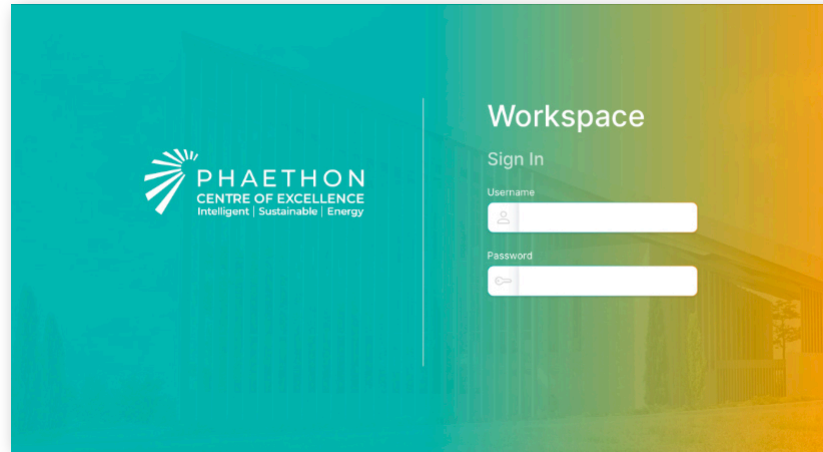
- Smart Grids
- Renewable Energy
- Data Analytics
- Fault Detection
- PV and Hydrogen Implementation
- Smart Devices and Interoperable Protocols for Control and Communication
- Emerging PV metrology.

Apply now

Deadline
23 Feb
2024

Online Workspace and Teams Backgrounds

Workspace "Log In" Web Page



Teams Background Options



PowerPoint Presentation Templates

CoE Presentations



PHAETHON
CENTRE OF EXCELLENCE
Intelligent | Sustainable | Energy

PHAETHON Teaming Project

WP1 – Project management and coordination



George Makrides
Special Scientist
University of Cyprus
PHAETHON Centre of Excellence



PHAETHON
CENTRE OF EXCELLENCE
Intelligent | Sustainable | Energy

PHAETHON Teaming Project


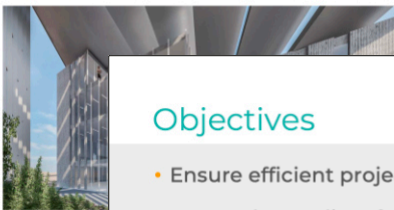

WP1 – Project management and coordination



George Makrides
Special Scientist
University of Cyprus
PHAETHON Centre of Excellence

Outline

- Overview
- Aim & Objectives
- Implementation
- Deliverables & Milestones
- Summary

10/01/2024

Objectives

- Ensure efficient project operation and coordination.
- Assess the quality of activities and monitor risks.
- Manage data collected and generated by the project.
- Ensure compliance with European ethical, fundamental rights and legal framework.
- Promote gender equality and gender processes.




10/01/2024


Insert Title of Presentation 5

Overview

Lead Beneficiary: 1-UCY
Participants: 2-DTU | 3- UG | 4-CS
Effort: 168 PMs | 8.3%
UCY: 135 | DTU: 10 | UG:13 | CS: 10
Timeline: Sep 2023 – Aug 2029
(72 Months)



■ WP1 ■ WP2 ■ WP3 ■ WP4 ■ WP5 ■ WP6 ■ WP7



10/01/2024

Insert Title of Presentation 6

PowerPoint Presentation Templates

Teaming Project Presentations

PHAETHON
Teaming for Excellence

European Union
Republic of Cyprus

PHAETHON Teaming Project

WP1 – Project management and coordination

George Makrides
Chief Operating Officer
PHAETHON Centre of Excellence

University of Cyprus | DTU Technical University of Denmark | university of groningen | cyprusseeds

Overview

■ WP1 ■ WP2 ■ WP3 ■ WP4 ■ WP5 ■ WP6 ■ WP7

PHAETHON
Teaming for Excellence

Test Name Workshop | 10.11.2023

Here is a heading

Here is a sub-heading

- Bullet point one
- Bullet point two
- Another bullet point
 - Bullet point level 2
- Another bullet point
 - Bullet point level 2

PHAETHON
Teaming for Excellence

Test Name Workshop | 10.11.2023 | 5

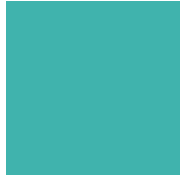
Visual Guidelines

The image features a solid teal background. On the right side, there are three diagonal stripes of varying shades of teal, extending from the top right towards the bottom left. The stripes are layered, with the lightest shade at the top and the darkest at the bottom. The text 'Visual Guidelines' is positioned on the left side of the image.

Brand Colours

Primary Colour Palette

Logo Colours



#43B3AE

"Logo Verdigris"



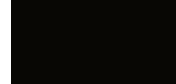
#F7A400

"Logo Orange"



#333333

"Logo Grey"



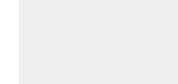
#000000



#333333



#575757



#EDED



#FFFFFF



#467D7A



#1C918B



#43B3AE



#8EBDBB



#D4EFEE

Examples

Text colour usage

Example in #000000

Text #000000 on #F7A400

Text #FFFFFF on #43B3AE to #F7A400 gradient

Example in #467D7A

Text #FFFFFF on #43B3AE

Text #FFFFFF on #1C918B to #43B3AE gradient

Example in #1C918B

Text #FFFFFF on #333333

Text #000000 on #D4EFEE

Text #000000 on #EDED

Brand Colours

Secondary Colour Palette

These colours can be used in graphs, infographics, data visualisations etc.



#21A368



#2A4999



#7F135F



#C27844



#57D99D



#4F7EBA



#F424B4



#F57C25



#20D111



#60AAC6



#7C11D1



#F5AE00



#C1D111



#8EFCF6

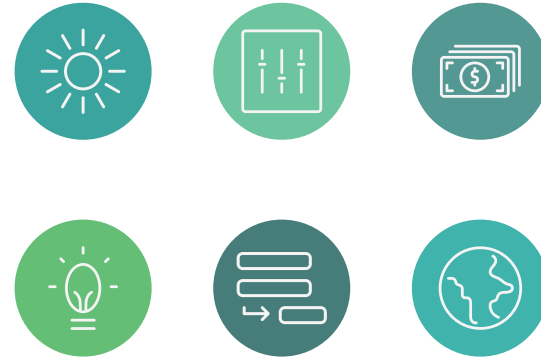
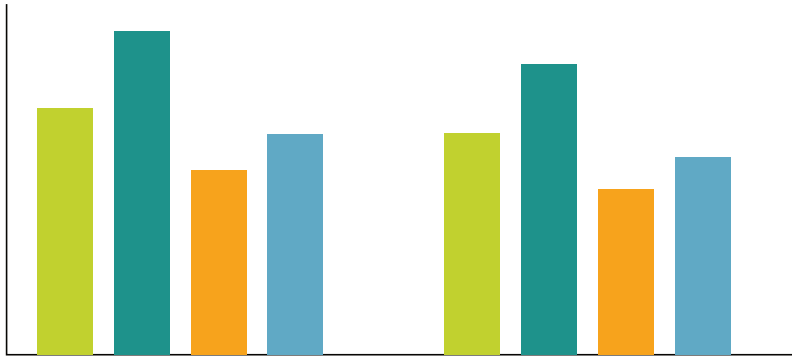


#BB11D1



#F5D73C

Brand Colours Examples



Renewable
Energy Sources



Energy
Geopolitics



Energy
Socioeconomics



Storage &
E-Mobility



Environmental
Sustainability

Brand Fonts

The font used throughout the Phaethon brand is **Montserrat**, available for free download at Google Fonts:

fonts.google.com/specimen/Montserrat

The styles used so far are the following:

Montserrat Regular 400

Montserrat Regular 400 Italic

Montserrat Medium 500

Montserrat SemiBold 600

Montserrat Bold 700

Whenever Montserrat is not available, the secondary font choice is **Helvetica**.

Helvetica Regular

Helvetica Oblique

Helvetica Bold

All templates, like Word document templates and PowerPoint templates, include style sheets of recommended font sizes, weights, spacing and colours for headings, main text, emphasis etc.

Here is an example:

1 Heading Level 1

1.1 Heading Level 2

Main running text. Paragraph style in Montserrat 10pt Regular weight, called "Body Text" in the Styles Pane, with 1.1 cm left indentation to align text to the text of the Phaethon logo at the top, 1.15 linespacing and 6 pt spacing after each paragraph.

Main running text. Paragraph style in Montserrat 10pt Regular weight, called "Body Text" in the Styles Pane, with 1.1 cm left indentation to align text to the text of the Phaethon logo at the top, 1.15 linespacing and 6 pt spacing after each paragraph.

1.1.1 Heading Level 3

1.1.1.1 Heading Level 4 – last heading level

Main running text. Paragraph style in Montserrat 10pt Regular weight, called "Body Text" in the Styles Pane, with 1.1 cm left indentation to align text to the text of the Phaethon logo at the top, 1.15 linespacing and 6 pt spacing after each paragraph.

Table 1. The style is called "Caption" and is set in Regular weight, whereas "Table 1" is in bold.

| Id | Table Heading | Table Heading | Table heading | Table heading |
|----|-----------------|-----------------|-----------------|---------------|
| 1 | Table paragraph | Table paragraph | Table paragraph | Table |
| 2 | Table paragraph | Table paragraph | Table paragraph | Table |
| 3 | Table paragraph | Table paragraph | Table paragraph | paragraph |
| 4 | Table paragraph | Table paragraph | Table paragraph | Table |
| 5 | Table paragraph | Table paragraph | Table paragraph | paragraph |
| 6 | Table paragraph | Table paragraph | Table paragraph | paragraph |

1.1.1.2 Another Heading Level 4

Continuing in "Body Text" – please find below an example of the bullet points style, which is called "List Paragraph":

- Here is a bullet point.
- Here is another one.
- To be continued.

Character & Paragraph Styles

- 1 The main reason font Montserrat was chosen is because of its circular "o", as a reference to the sun.

Thus, it is very important not to alter the font by stretching it in any way, which would also have an impact on the font's readability and may not be recognised as PHAETHON's brand font.

Here is some stretched text. PHAETHON

Here is more stretched text. PHAETHON

- 2 Please keep to the styles provided, as any differentiation may result in confusion and brand inconsistency.

E.g. When **emphasis** is needed within the text, it should be in **SemiBold** and **black**, not in any other colour, as accent colours are used for headings usually.

Example of a heading in colour

When emphasis is needed within the text, it should be in **SemiBold** and **black**. **When colour is used within the text, the reader will no longer perceive a pattern**; that a colour is used **only** for headings, it may confuse the reader and will make the document look **busier** and **less professional**.

- 3 **Important note on justified text**

Justified text is **not** recommended, as it creates unnatural spaces between words, that have a negative impact in the flow of reading, whereas unjustified lines aid the eye in order not to lose track of one's reading.

However, justified text may be used when **multiple columns** are required and the line width is less than half the width of an A4 page (less than 10 words per line).

Traditional line length research, limited to print-based text, gave a variety of results, but generally for printed text it is widely accepted that line lengths fall between 45 and 75 characters per line (cpl), though the ideal is 66 cpl (including letters and spaces).[1] For conventional books line lengths tend to be 30 times the size of the type, but between 20 and 40 times is considered acceptable (i.e., 30 × 10pt font = 300 pt line).[1] Early studies considered line lengths of 59–97 mm (about 57 cpl) optimum for 10-point font.[2] For printed works with multiple columns, 40–50 cpl is often better.

- ✓ For justified, English-language text the minimum number of characters per line is 40; anything less than 38–40 characters often results in splotches of white spaces (or rivers) or too many hyphenations in the block of text. Longer lines (85–90 cpl) may be acceptable for discontinuous text such as in bibliographies or footnotes, but for continuous text lines with more than 80 characters may be too long. Short text, such as ragged marginal notes, may be as little as 12–15 characters per line.

- 4 Line length is also important for readability. Ideally an approximate of 10–12 words per line aids readability.

Here is some running text. Everyone has the right to freedom of thought, conscience and religion; this right includes freedom to change his religion or belief, and freedom, either alone or in community with others and in public or private, to manifest his religion or belief in teaching, practice, worship and observance.

Logo Guidelines

Logo Colour Variations Examples



Logo Colour Variations to Avoid

Please make sure to use the approved colour combinations of the logo that are provided. Any alterations on the colours could weaken the brand identity and compromise the logo's legibility.



*These examples refer to all Phaethon logos; both Centre of Excellence logo and Teaming for Excellence logo, and any future Phaethon sub unit logos.

Logo Resizing

Always resize proportionally, otherwise the logo will be altered and may not be as legible and/or recognizable. Please make sure that it is still legible when resizing in smaller sizes.



Minimum sizes

Minimum logo size for print:



4cm (width) x **1.23cm** (height)



4cm (width) x **1.19cm** (height)

Logo resizing to avoid



Clear Space Around the Logo

The logo, especially the long version, needs space around it to "breathe". The **minimum** amount of clear space required around the logo is equal to the height of the PHAETHON letters. This clear space is a minimum and should be increased where possible.



Logo spacing to avoid



Logo Spacing

When the logo is used next to other logos, a minimum space equal to the height of all the wording (wordmark) is recommended.



Logo spacing to avoid

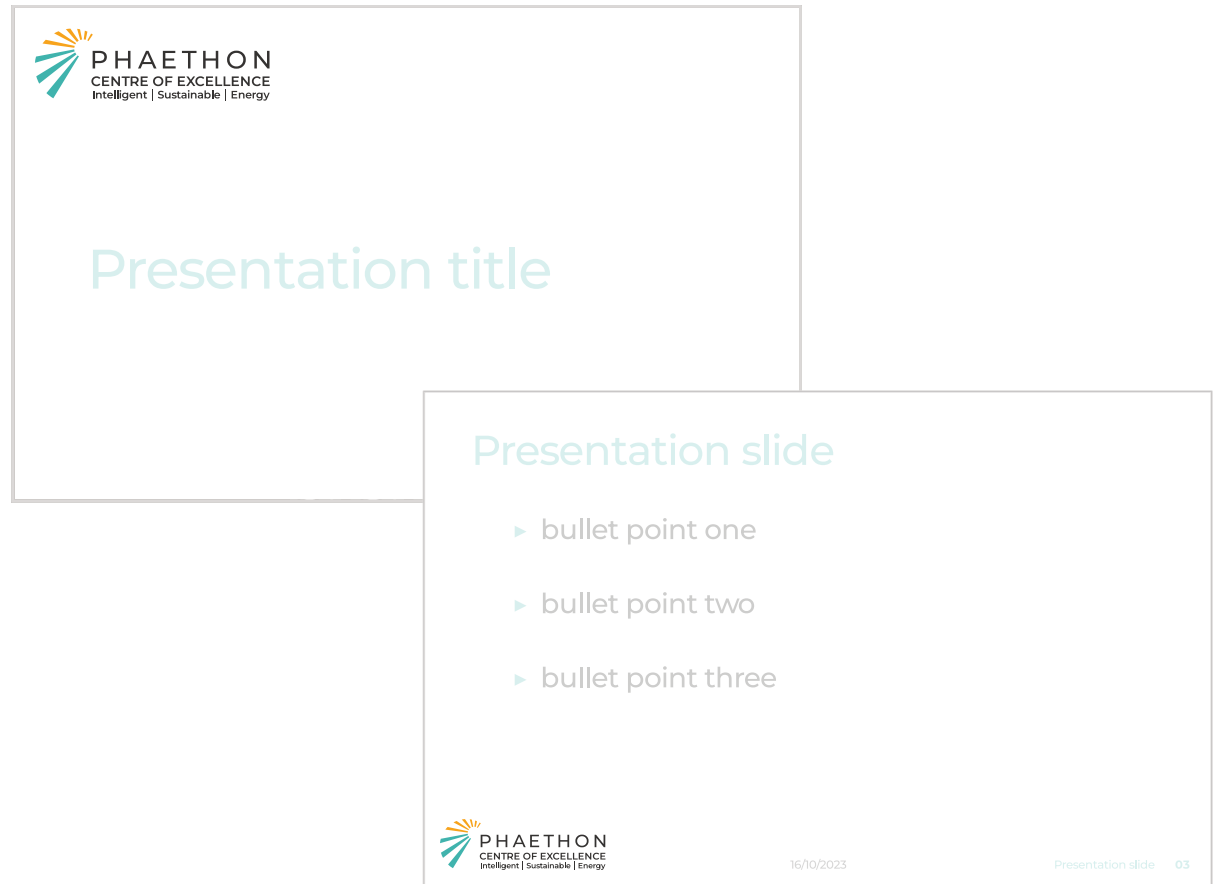


Teaming Project logo with partners



Logo Positioning

It is recommended to position the logo at the top left corner of a document or slide. As a second option, the logo can be at the bottom left corner of a document or slide.



This is a recommendation only, there are exceptions as well. For example, on the LinkedIn page the logo could not have been positioned on the left side, because of space limitations.



