

# Agenda

## PHAETHON Training School Summer 2025

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## PHAETHON Summer Training School 2025

**Date:** 22-26/09/2025  
**Location:** University of Cyprus (New University Campus)  
1 University Avenue, 2109 Aglantzia, Nicosia  
**Duration:** 20 hours  
**Attendance:** Physical and Virtual (online)  
Weblink: [Online event access link](#)

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### Day 1

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#### Monday 22/09/2025

09:00 – 13:00 (4 hours)  
University of Cyprus (New University Campus)  
Room LRC019, Stelios Ioannou Learning Resource Centre – Library

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**08:45 – 09:00 Welcome and Opening Remarks**

**09:00 – 09:45 Keynote Session**

**09:00 – 09:45 Keynote Speech: Curtailments: A blasphemy or a challenge**  
Dr Venizelos Efthymiou, PHAETHON CoE – UCY

**09:45 – 10:00 Coffee Break**

**10:00 – 13:00 Lecture Session – Solar photovoltaic technology**

**10:00 – 11:00 Introduction to photovoltaic technology**  
Mr Panagiotis Herodotou, PHAETHON CoE – UCY

**11:00 – 12:00 Advances in photovoltaic systems**  
Mr Demetris Marangis, PHAETHON CoE – UCY

**12:00 – 12:15 Coffee Break**

**12:15 – 13:00 Networking Session**

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Participants & staff introductions and discussions

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## Day 2

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### **Tuesday 23/09/2025**

09:00 – 13:00 (4 hours)

University of Cyprus (New University Campus)

Room LRC019, Stelios Ioannou Learning Resource Centre – Library

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#### **09:00 – 10:45 Keynote Session**

##### **09:00 – 09:45 Keynote Speech: Energy Transition – A supply chain perspective on a just energy transition**

Prof Klaus Hubacek, University of Groningen

#### **09:45 – 10:00 Coffee Break**

#### **10:00 – 12:00 Lecture Session – Battery storage and energy carriers**

##### **10:00 – 11:00 Battery storage technologies and fundamentals**

Dr Andreas Olympios, PHAETHON CoE – UCY

##### **11:00 – 12:00 Green hydrogen – Technology fundamentals**

Dr Alexandros Arsalis, PHAETHON CoE – UCY

#### **12:00 – 13:00 Site Visit**

##### **12:00 – 13:00 PV system tour**

PV system and outdoor test facility site visit (PHAETHON CoE - UCY)

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## Day 3

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### Wednesday 24/09/2025

09:00 – 14:00 (4 hours)

University of Cyprus (New University Campus)

Room LRC019, Stelios Ioannou Learning Resource Centre – Library

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#### 09:00 – 10:45 **Keynote Session**

**09:00 – 09:45 Keynote Speech: Flexibility of consumption – good or bad**  
Dr Henrik Bindner, Technical University of Denmark

#### 09:45 – 10:00 **Coffee Break**

#### 10:00 – 12:00 **Lecture Session – Energy-field data-driven applications**

**10:00 – 11:00 Energy-field data exploration and cleaning**  
Mr Demetris Marangis, PHAETHON CoE – UCY

**11:00 – 12:00 Application of AI in solar energy systems**  
Mr Demetris Marangis, PHAETHON CoE – UCY

#### 12:00 – 13:00 **Workshop Session**

**12:00 – 13:00 Case Study – Solar Forecasting**  
Application demonstration of machine learning principles for forecasting energy produced by solar assets (use of Python programming language).  
Mr Demetris Marangis, Paris Kaimakis Herodotou, PHAETHON CoE – UCY

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## Day 4

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### Thursday 25/09/2025

09:00 – 14:00 (4 hours)

University of Cyprus (New University Campus)

Room LRC019, Stelios Ioannou Learning Resource Centre – Library

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#### 09:00 – 10:45 **Keynote Session**

##### 09:00 – 09:45 **Keynote Speech: Intermittent generation, Storage and grid challenges**

Dr Andreas Stavrou, Electricity Authority of Cyprus

#### 09:45 – 10:00 **Coffee Break**

#### 10:00 – 12:00 **Lecture Session – Green Smart Cities**

##### 10:00 – 11:00 **Net Zero Energy Buildings**

Mr Fanourios Kourougianni, PHAETHON CoE – UCY

##### 11:00 – 12:00 **Smart heating and cooling in the built environment**

Dr Andreas Olympios, PHAETHON CoE – UCY

#### 12:00 – 13:00 **Workshop Session**

##### 12:00 – 13:00 **Advanced monitoring of energy assets**

Hands-on: Demonstration of monitoring energy assets at microgrid.

Dr Andreas Olympios, PHAETHON CoE – UCY

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## Day 5

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### Friday 26/09/2025

09:00 – 14:00 (4 hours)

University of Cyprus (New University Campus)

Room LRC014, Stelios Ioannou Learning Resource Centre – Library

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#### 09:00 – 10:45 **Practical Session – Solar system design**

**09:00 – 09:45 Dimensioning and design of grid-connected PV-plus storage system**  
Mr Demetris Marangis, PHAETHON CoE – UCY

#### 09:45 – 10:00 **Coffee Break**

#### 10:00 – 12:00 **Lecture Session – Solar and battery systems**

**10:00 – 11:00 Solar-plus-storage systems**  
Dr George Makrides, PHAETHON CoE – UCY

**11:00 – 12:00 Basic operation principles, O&M and safety of battery systems**  
Dr George Makrides, PHAETHON CoE – UCY

#### 12:00 – 13:00 **Laboratory Visit**

**12:00 – 13:00 Laboratory tour**  
Facility premises of Smart Energy Infrastructure (PHAETHON CoE - UCY)