



ICoWEFS

2026

INTERNATIONAL CONFERENCE ON WATER, ENERGY, FOOD AND SUSTAINABILITY

MAY 13 - 15, 2026

PORTALEGRE, PORTUGAL

Programme

Portalegre Portugal 13–15 May 2026

Important notes:

- Oral presenters will have 10 minutes.
- Poster presenters must submit their posters in digital format by 4 May to the conference email address. The presenter will have 3 minutes to present the posters.

Day 1 – May 13th

08.45-9.15 h: Registration

Opening Ceremony

(Room NEXUS – BioBIP II)

09.15-09.40 h: President of the Polytechnic University of Portalegre, Dr Luís Loures
Mayor of Portalegre City - Dr Fermelinda Carvalho

Director of the School of Health at the Polytechnic University of Leiria, Dr Rui Pinto

Previous Conference Chairs, Dr Paulo Brito and Dr João Galvão

Conference Chairs, Dr Roberta Panizio and Dr Vânia Ribeiro

Keynote

(Room NEXUS, BioBIP II, Chair: Paulo Brito)

ID: 390980830898736

Pass: 2ew3Sq6N

09.40-10.00 h – “Scaling Thermochemical Technologies: Opportunities and Barriers in the Swedish Energy Landscape”

Klas Kengvall (KTH Royal Institute of Technology, Sweden)



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Poster Session 1 – Online

10.00-10.30 h

(Room NEXUS – BioBIP II, Chair: João Galvão)

ID: 390980830898736

Pass: 2ew3Sq6N

Poster 1: “Strategies to improve quality of life in Social Housing and prevent degradation into Urban Ghettos” – Daniel Delgado

Poster 2: “Application of Value Stream Mapping in the Food Industry: Financial Impact of Reducing Waste Production” – Pedro Ramos

Poster 3: “Evaluation of Surfactant Compounds on the Enhancement of Enzymatic Hydrolysis of Pretreated Biomass” – Nuno Pedro

Poster 4: “Companies as Learning Spaces: An Interpretive-Narrative Analysis of the ESG School Project in Amazonian Public Education” – Teresa Eugénio

Poster 5: “Carbon Footprint Assessment of electricity production from residual eucalyptus forest biomass in Portugal” – Nuno Pedro

Poster 6: “Impact Of Environmental Factors On The Relocation Of Zea Maize Crops” – Maryna Sturko

Poster 7: “A Structural Analysis of Decentralized Energy Market Designs in the EU” – Gabriel Roma

Poster 8: “Removal of dyes from wastewater using raw agricultural waste as absorbents” – Pedro Geraldo

10.30-10.40 h: **Coffee break**

Parallel Sessions

Session 1

(Room NEXUS, BioBIP II, Chair: Ricardo Gomes)



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10.45-10.55 h: “Integrated Monitoring of Water and Suspended Solids for Sedimentation Management in Reservoirs for Hydropower Generation” – Emanuel Moreno

10.55-11.05 h: “HVO's Contributions Regarding the WEF Nexus” – Márcio R Labigalini

11.05-11.15 h: “Study of Temporal Variation in Siltation Rates of Marginal Basins in the Santana Reservoir” - Emanuel Moreno

11.15-11.25 h: “Occurrence and Analytical Detection of Emerging Contaminants in Water Resources: A Systematic Review” - Pedro Esperanço

11.25-11.35 h: “Segmentation in sustainable adventure destinations” – Wilmer Carvache-Franco

11.35-11.45 h: “Effects of ultrasound and nitrite concentration on the mortality rate of *Daphnia* spp. present in a wastewater treatment plant” - Pedro Esperanço

11.45-11.55 h: “Demand segmentation in a sustainable coastal destination” – Wilmer Carvache-Franco / Natalia Conejero-Riquelme

11.55-12.05h: Innovative activities in companies with sustainability-oriented Innovation: A study from Chile – Wilmer Carvache-Franco

12.05-12.30h: Discussion

Session 2

(Room E105, BioBIP II, Chair: Paulo Mourão)

ID: 340868601287717

Pass: Uh9vU7vc

10.45-10.55 h: “Enhancing Sustainability in Traditional Alentejo Cheese Production through Renewable Energy Integration: A Case Study” – João Garcia

10.55-11.05 h: “Characterization of Household Hazardous Waste Through Citizen Science: The DaWeZard Case Study” – Lizete Heleno

11.05-11.15 h: “Decarbonising Mediterranean Forage Systems through Innovative Bayesian Modelling and Real Time Variable Rate Nitrogen Sensing” – Luís Silva



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11.15-11.25 h: “Assessing Energy Recovery Potential of Urban Pruning Residues in Cúcuta, Colombia” - [Mario Cabellero](#)

11.25-11.35 h: “Optimizing Prodigiosin Bioproduction by *Serratia marcescens* ESACB 596” – [Ana Ferraz](#)

11.35-11.45 h: Urban rivers in the Ecuadorian Amazon: water quality criteria for recreational use and environmental perception in Tena City” - [Felipe Villacrés](#)

11.45-11.55 h: “Responsible Consumption in Colombia: Household Patterns and Pathways Toward Sustainability Transitions” - [Angélica Robayo-Avenidaño](#)

11.55-12.05h: “Preliminary insights of community composting practices in Portugal” – [Verónica Oliveira](#)

12.05-12.30h: Discussion

Session 3

(Room E024, BioBIP II, Chair: Liliana Ferreira)

ID: 390980830898736

Pass: 2ew3Sq6N

10.45-10.55 h: “From Innovation to Adoption: Market Frictions Con-straining Digital Circular Transitions in Agri-Food SMEs” – [Ricardo Jorge Correia](#) – [Eduardo Borges](#)

10.55-11.05 h: “Mechanical Evaluation of Vine Pruning Harvesting Systems for Energy Valorization” – [Francesco Toscano](#)

11.05-11.15 h: “A bibliometric and technical review of energy efficiency metrics in urban LED street lighting” - [Juan Unión-Sánchez](#)”

11.15-11.25 h: “Impact of Global Warming on the Thermal Design of Residential Slab-on-Grade Floors in Poland and Portugal” – [Anna Staszczuk](#)

11.25-11.35 h: “Cryogenic Energy Storage Technologies for Renewable Energy Integration” – [Arian Semedo](#)

11.35-11.45 h: “Environmental footprint of biohythane (H₂-CH₄-CO₂) production from renewable resources: A simplified model based on six-carbon sugars” – [Dorian Prato-Garcia](#)



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11.45-11.55 h: “Impact of voltage level standardization in power distribution systems” –

João Duarte

11.55-12.30h: Discussion

12.30-14.00 h: Lunch

Poster Session 2

14.00-14.30 h

(Room LEI – BioBIP II, Chair: Filipe Neves)

Poster 1: “Impact of Kristin Depression on Water Supply Systems in Leiria: Operational Challenges, Emergency Response, and Climate Adaptation Strategies” – Ricardo Gomes

Poster 2: “Sheep Wool-Based Nature-Based Solutions for Post-Fire Sediment Stabilization: A Pilot Study in Serra da Gardunha, Portugal” – Daniel Santana

Poster 3: “A mixed methods study to identify the factors affecting the acceptance of insect-containing foods, with a focus on labelling” - Aoibhinn Keane

Poster 4: “Hydrodeoxygenation of Lignocellulosic Pyrolysis Bio Oil: Comparative and Sequential Pathways Using NiMo and FCC Catalysts” – João Tavares

Poster 5: ““SDG in Motion” - Expanding SGD Outreach through informal process” – Filipa Ferreira

Poster 6:” Water efficiency in the glass packaging industry” – Sandra Mourato

Poster 7: “Constraints and challenges encountered in community composting: an overview” – Inna Shyshka

Poster 8: “Indoor Air Quality as a Learning Opportunity: Monitoring, Awareness and Behaviour in Highly Occupied Classrooms” – Sandra Mourato

Industry session

(Room NEXUS, BioBIP II)

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14.30-15.00 h: A Full Value Chain Approach to Green Hydrogen in Alentejo, University of Évora Hugo Silva, Prof. at the Physics Department

15:00-15:30 h: Hydrogen Infrastructure: Industrial Applications and Real Use Cases, PRF Diogo Couto, Business Developer

15.30-16.00 h: *Coffee break*

16.00-16.30 h: Upscaling Hydrogen Application in Ceramic Industries: From Design to Validation of End-uses, CTCV Inês Rondão, Researcher & Project Manager

16.30-17.00 h: Engineering Green Hydrogen: From Feasibility to Operation – WinPower João Camões, Head of Hydrogen Business Unit

17.00-19.00: *Portalegre de Honra*

Day 2 – May 14th

09.00-09.20 h: Registration

Keynote

(Room NEXUS, BioBIP II, Chair: Paulo Brito)

ID: 390980830898736

Pass: 2ew3Sq6N

09.20-09.40 h – “Technological Roadmap for Sustainable Biomethane and Hydrogen Production from Municipal Solid Waste: An EESG Approach”

Ronney Boloy (CEFET-RJ, Brazil)

09.40-09.55 h: *Coffee break*

Parallel Sessions

Session 4

(Room NEXUS, BioBIP II, Chair: Henrique Almeida)

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10.00-10.10 h: “Sustainable Stabilisation of Sheep Whey through Controlled Acidification: A Circular Approach for Safe Animal Feed” – [Ana Ferraz](#)

10.10-10.20 h: “Variability of Microplastic Content According to Soil Type and Use” – [Luis Araújo Santos](#)

10.20-10.30 h: “Recovery of Phosphorus from Sewage Sludge via Hydrothermal Carbonization and Citric Acid Leaching: A Sustainable Route for Biofertilizer Production” – [Junior Diego Becker](#)

10.30-10.40 h: “Beyond Sustainability: Measuring Regenerative Leadership to Transform Business Models” - [Ricardo Jorge Correia / Eduardo Borges](#)

10.40-10.50 h: “Proposed Correction to the Shear Stress Formula in Structural Design Standards for Guadua angustifolia Kunth Bamboo in South America” - [Angel Chicaiza](#)

10.50-11.00 h: “Comparative Assessment of Energy Performance and Climate Change Impacts on Residential Buildings in Lisbon/PT and Florianópolis/BR” – [Flávio Craveiro](#)

11.00-11.30 h: Discussion

Session 5

(Room E105, BioBIP II, Chair: Ana Luísa Fernando)

ID: 340868601287717

Pass: Uh9vU7vc

10.00-10.10 h:” Application of a Renewable-Based Energy Management Simulation Tool in the Cheese Industry: A Case Study in Portalegre, Portugal” – [João Garcia](#)

10.10-10.20 h: “IoT-Based Multiparametric System for Continuous Water Quality Monitoring and Web-Based Data Visualization” – [Santiago Daza](#)

10.20-10.30 h: “Measuring Climate Change Adaptation in Hungarian Agriculture within the Water–Energy–Food–Sustainability Nexus” - [Csaba Vaszkó](#)

10.30-10.40 h: “Leaching Approaches for Lithium Recovery from Spodumene” – [Joana Almeida](#)

10.40-10.50 h: “Assessing Irrigation Effectiveness in Kiwifruit Orchards Using Multitemporal Sentinel-2 Imagery and ERA5-Land Time Series in southern Italy” – [Francesco Toscano](#)



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10.50-11.30 h: Discussion

Poster Session 3 - Online

11.40 – 12.50

(Room NEXUS, BioBIP II, Chair: Paulo Brito)

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Pass: 2ew3Sq6N

Poster 1: “Impact of an Awareness-Raising Intervention on Food Waste in a Portuguese Primary School: A Pre–Post Study” – [Beatriz Silva](#)

Poster 2: “Effect of Pyrolysis Temperature on Product Yields and Properties from Olive Pomace in a Fixed-Bed Reactor” – [Albina Ribeiro](#)

Poster 3: “Constructed Wetlands as an Alternative for Sewage Treatment: Comparative Analysis of Experiences in The State of Rio De Janeiro, Brazil.” – [Ana Herrera](#)

Poster 4: “Technical-Economic Feasibility Analysis of Organic Waste Valorization through Anaerobic Digestion for Biomethane Production and Grid Injection” – [Isabelle Lessa](#)

Poster 5: “Tulsi (*Ocimum tenuiflorum*): Agricultural practices and cultivation strategies for Iberian crops” – [Maria Isabel Silva](#)

Poster 6: “From Raw to Cooked: Impact of Boiling, Steaming and Sous-vide on the Nutritional Composition, Fatty Acid Profile and Mineral Content of Atlantic Mackerel (*Scomber scombrus*)” – [Marta Neves](#)

Poster 7: “Data-Driven Predictive Framework for Concrete 3D Printing: Machine Learning-Assisted Material Development for Construction Applications” – [Karim Fahfouhi](#)

Poster 8: “Multilevel Governance of the Circular Economy in Brazil: Regulatory Fragmentation and Implementation Pathways” – [Ana Herrera](#)

Poster 9: “Regulation and Incentives for Waste-to-Energy (WTE) Power Generation from Solid Waste in Brazil in Light of the 2035 Mitigation and Adaptation Targets under the Paris Agreement” – [Isabelle Lessa](#)

Poster 10: “Potential of Entomopathogenic Fungi as Biological Control Agents Against Green Leafhoppers in Portuguese” – [Sana Bashir](#)



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Poster 11: “Artificial Intelligence for Thermal Optimization of Additively Manufactured Walls in Construction: A Review and Research Agenda” – [Sofia Pessoa](#)

Poster 12: “Technological Model for Agricultural Monitoring of Two Crop Zones in Mexico: Integrating Drones, IoT Sensors, and Satellite Imagery for Lime and Banana-Palm Cultivation” – [Laura Arteaga](#)

Poster 13: “Adsorption of ciprofloxacin in activated carbon derived from pinecones” – [Paula Cristina Silva](#)

Poster 14: “Seaweed-Based Bioplastic Plant Pots: A Review of End-of-Life Scenarios from a Life Cycle and Ecodesign approach.” – [Larissa Togeiro](#)

Poster 15: “Energy Transition to Electromobility and Fuel Cell Technologies – Challenges” – [Jaqueline Silva](#)

Poster 16: “Valorisation of Mediterranean Acorns (*Quercus* spp.) for Sustainable Food Systems and Circular Bioeconomy” – [Susana Bernardino](#)

Poster 17: “Regenerative Practices in Douro Viticulture: Indicators, Outcomes, and Sub-regional Impacts” – [Susana Campos](#)

Poster 18: “The SDGs alignment with Additive Manufacturing “– [Joel Vasco](#)

Poster 19: “Green Infrastructure in Viticultural Landscapes: Drivers, Barriers and Perceived Impacts in the Alto Douro Region” – [Francisco Pinheiro](#)

Poster 20: “A Mini-Review on Inhibition and Stability in Anaerobic Co-Digestion of Swine Manure” – [Pedro Esperanço](#)

12.50-14.30 h: Lunch

Poster Session 4

14.30-15.00 h

(Room LEI – BioBIP II, Chair: Vânia Ribeiro)

Poster 1: “The microstructure of freeze-dried food products” - [Jakub Chrobak](#)

Poster 2: “Challenges in Fish-Specific Habitat Conditions Analysis and Modelling” - [Gorana Čosić Flajsig](#)



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Poster 3: “Collaboratively Localizing the SDGs - local actors in the municipality of Loulé (Portugal) moving towards sustainability” – [Filipa Ferreira](#)

Poster 4: “European Energy Policies and Their Impact on Energy Consumption and Greenhouse Gas Emissions: An Econometric Scenario Analysis” - [Orlando Soares](#)

Poster 5: “Transforming Waste into Beverages: Antioxidant Activity and Total Phenolic Content of a Coffee Husk-Based Beverage as a Sustainable Alternative Compared with Roasted Coffee, and Fully Washed Roasted Coffee from East-Timor” – [Daniela Costa](#)

Poster 6: “Analysing the driving forces of CO₂ emissions in Portugal” – [Juan Aceituno](#)

Poster 7: “Valorization strategies for an oily sludge coming from a petrol refinery: process simulation” – [José Tuesta](#)

Poster 8: “Optimization and kinetic modelling of the carbonization of PAN for Carbon Felt production” – [José Tuesta](#)

Poster 9: “Sustainable Clothing Habits: Insights from an Exploratory Survey in Portugal, Albania and Greece” – [Henrique Almeida](#)

Parallel Sessions

Session 6

(Room NEXUS, BioBIP II, Chair: Pedro Gala)

ID: 390980830898736

Pass: 2ew3Sq6N

15.00-15.10 h: “ENSO and hydrometeorological extremes in Ecuador: a dominant forcing of recent intense rainfall and dry periods?” – [Daniel Delgado](#)

15.10-15.20 h: “Cradle-to-Grave LCA of a Washing Machine: A Case Study Using Open LCA – Preliminary results” [Bruno Barbosa](#)

15.20-15.30 h: “Infrastructural Factors Influencing Biowaste Management According to Citizens' Opinions” – [Luis Araújo Santos](#)

15.30-15.40h: “Integrated assessment of thermal comfort and energy consumption in urban housing in Portoviejo, Ecuador” – [Daniel Delgado](#)



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15.40-15.50 h: “Study of Compression Perpendicular to the Fibers of *Guadua angustifolia* Kunth in Ponceloma, Tena, Ecuador” – [Angel Chicaiza](#)

15.50-16.00 h: “From pyrolysis to policy: Regional action frameworks for the development of decentralised and mobile pyrolytic technologies” - [Catarina Nobre](#)

16.00-16.10 h: “Sustainable Plant Biostimulation: Seaweed Extracts Improve Early Tomato Growth” – [Teresa Mouga](#)

16.10-16.20 h: “From farm to table: understanding consumer behaviour in fresh tomato purchase and consumption in Portugal” - [Joaquina Pinheiro](#)

16.20-16.50 h: Discussion

Session 7

(Room E105, BioBIP II, Chair: Joel Vasco)

ID: 340868601287717

Pass: Uh9vU7vc

15.00-15.10 h: “Environmental Implications of Dietary Choices in Higher Education: A Quantitative Assessment of Canteen Meal Carbon Emissions” – [Alexandra Rodrigues](#)

15.10-15.20 h: “A Sustainable Functional Grissini Formulated with Barley Flour and Dried Lavender Flower Powder: A High β -Glucan, Medium Glycemic Approach” – [Kubra Ozkan](#)

15.20-15.30 h: “Microplastic Bioaccumulation in Fish: A One Health Perspective on Human Health and Global Sustainability” – [Maria Leonor Silva](#)

15.30-15.40h: “Life Cycle Assessment Tools in European Agri-Food SMEs: Evidence from a Multi-Country Industry Survey” – [Ana Paula Oliveira](#)

15.40-15.50 h: “Energy Demand Forecasting in Wineries During the Harvest Period” – [Cristina Matos](#)

15.50-16.00 h: “Lean Management as a Tool for Enhancing Biodiversity and Sustainability in Educational Institutions” – [Alexandra Rodrigues](#)



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16.00-16.10 h: “Winery Management: A proposal of a manual of good practices for water and energy efficiency” – [Cristina Matos](#)

16.10-16.20 h: “Recovery of Phosphorus from Sewage Sludge via Hydrothermal Carbonization and Citric Acid Leaching: A Circular Route for Biofertilizer Production” – [Junior Becker](#)

16.20-16.50 h: Discussion

Poster Session 5

(15.00 – 16.20)

(Room E024, BioBIP II, Chair: Flávio Craveiro)

ID: 390980830898736

Pass: 2ew3Sq6N

Poster 1: “Sustainability Assessment of Biodegradable Polymeric Materials in Cosmetic Packaging” – [Iris Correia](#)

Poster 2: “Connections between energy and socio-economic indicators: A multi-scale correlation analysis” – [Lucía Galán-Cano](#)

Poster 3: “Environmental impact assessment (EIA) of the cultivation of three energy crops in three marginal soils” – [Mariana Abreu](#)

Poster 4: “Wastewater-Based Cultivation of Microalgae for Exopolysaccharide Production” – [Ana Luísa Fernando](#)

Poster 5: “Identification of Marginal Soils for Bioenergy Production – What Geospatial Tools Can Be Used?” - [Mariana Abreu](#)

Poster 6: “From Energy Crops to Nanolignin: Feedstock Selection and Processing Routes for Sustainable Valorization” - [Ana Luísa Fernando](#)

Poster 7: “The water-agriculture-food nexus: insights from the European case” – [MaJosé Acosta](#)

Poster 8: “Sustainability in the Plastic Mold Industry: - Case Study” – [João Galvão](#)



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Poster 9: “Bioenergy production and net-zero carbon dioxide emissions investigation for a small scale biorefinery unit” - [Charalambos Chasos](#)

Poster 10: “Building Miniatures as a Teaching–Learning Tool for Bioenergy Education in Sub-Saharan Africa” – [Luiz Rodrigues](#)

Poster 11: Nutritional quality of garden strawberries produced in a Koi Carp-integrated aquaponic system – [Damariz Ushiña](#)

Poster 12: “A Mini Review on Inhibition and Stability in Anaerobic Co-Digestion of Swine Manure” – [Verónica Oliveira](#)

17.00 – 19.00 h: Cultural Visit in Altas Quintas

Day 3 – May 15th

Keynote

(Room NEXUS, BioBIP II, Chair: Paulo Brito)

ID: 390980830898736

Pass: 2ew3Sq6N

09.30-09.50 h: “Challenges and Key Performance Indicators for Hydrogen Production Associated with Agrivoltaic Systems”

Carmen Mireya Rangel (LNEG, Portugal)

Poster Session 6

(09.50 – 10.10)

(Room LEI, BioBIP II)

Poster 1: “Designing hydrogen education pathways across EQF levels: Lessons from the H2Excellence project.” [Cecília Pedrero](#)

Poster 2: “A Circular Approach to Agro-Waste Valorization through Biohytane Production” – [Ana Paula Dias](#)

Poster 3: “Valorization of sewage sludge to produce sustainable biochar” – Bruna Rijo



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Poster 4: “Design and Evaluation of a Multi-Stage Biogas Upgrading System for High-Purity Methane Production” – Bruna Rijo

Poster 5: “Design of an Integrated Cleaning and Upgrading System for RDF-Derived Syngas to Produce High-Purity H₂/CO₂ Mixtures” - Bruna Rijo

Poster 6: “Agrivoltaic Shading Effects on Evaporative Demand and Water Balance” – Fernanda Azeredo

Poster 7: “Reconciling energy and agriculture through agrivoltaics: A spatial and scenario-based assessment in Portugal” – Fernanda Azeredo

Poster 8: “Comparative Assessment of Biomass Wastes for Energy Valorization: Physicochemical Characterization and Thermal Conversion Potential” – Catarina Nobre

Poster 9: “Life Cycle Assessment Applied to Sugarcane Biorefineries: A Systematic Review” – Fabiana Ramos

Poster 10: “Seasonal Availability of Vegetable Agro-Industrial Residues and Cascading Valorisation Pathways for Anaerobic Co-Digestion: A Review” – Nuno Martins

Poster 11: “From Waste to Energy and Value-Added Products” – Ana Carolina Assis

Poster 12: “Mitigation of Microplastics Using Floating Macrophytes: Experimental Evidence, Operational Limits, and Ecological Implications with a Focus on Lemna minor” – Madalena Picanço

10.10-10.20 h: **Coffee break**

Closing Ceremony

(10.20-10.40 h)

(Room NEXUS, BioBIP II)

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Presentation of the awards for best oral presentation and best poster presentation



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Optional Technical Visit

(10.40-12.00 h)