

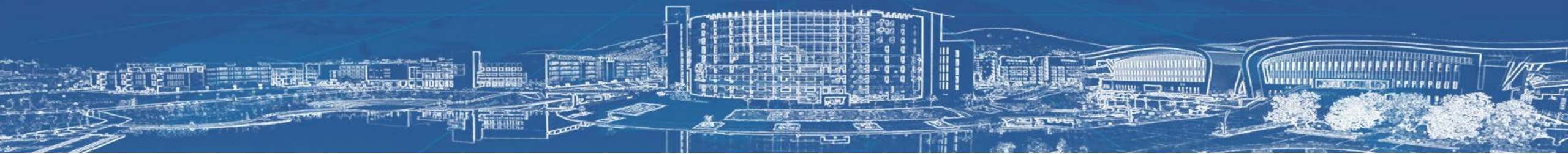


矿大全球讲坛—智能电网与欧盟电力市场介绍

时间：2025年11月6日 上午

线下报告：文昌校区教四楼101

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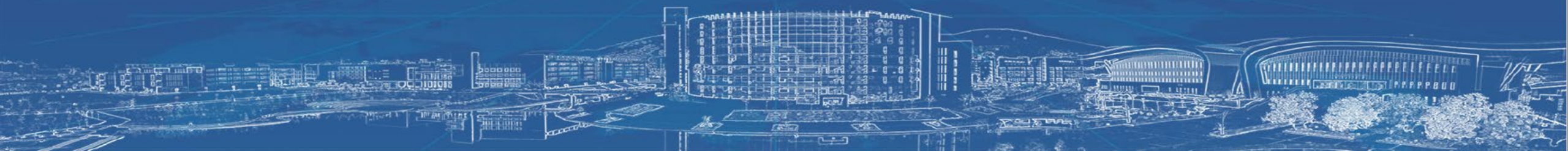


矿大全球讲坛—智能电网与欧盟电力市场介绍



中国矿业大学
CHINA UNIVERSITY OF MINING AND TECHNOLOGY

- 学术报告1: Introduction to Smart Grids
- 报告人: Emmanuel S. Karapidakis(Hellenic Mediterranean University) 时间: 11月6日9:30-10:20
- 报告简介: The transition toward sustainable, efficient, and resilient energy systems has intensified global interest in Smart Grids. Smart Grids integrate advanced sensing, communication, and control technologies into the traditional power network, enabling real-time monitoring, bidirectional energy flows, improved reliability, and enhanced integration of distributed energy resources such as solar and wind. This lecture will explore the key components and enabling technologies of Smart Grids. Additionally, it will address challenges related to cybersecurity, interoperability, regulatory frameworks, and consumer engagement. By examining recent developments, pilot projects, and global deployment trends, the presentation will highlight how Smart Grids are reshaping the future of energy markets, improving operational efficiency, and supporting the decarbonization of modern power systems.



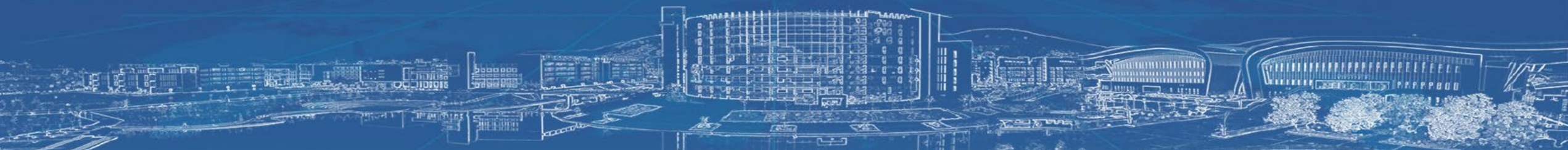


- **学术报告2: Introduction to Electricity Markets**
- **报告人: Emmanuel S. Karapidakis(Hellenic Mediterranean University) 时间: 11月6日10:20-11:10**
- **报告简介: European electricity markets are undergoing profound transformation driven by the rapid expansion of renewable energy, ambitious decarbonization policies, and evolving regulatory frameworks. This lecture provides an overview of the structure and functioning of the European market architecture, including day-ahead, intraday, balancing mechanisms, and the role of market coupling in enhancing cross-border efficiency. Particular emphasis will be placed on the Greek electricity market, which has recently transitioned to the European Target Model, integrating with regional markets and introducing competitive wholesale segments. Key topics include price volatility under high renewable penetration, capacity adequacy concerns, congestion management and the influence of emerging technologies such as energy storage and demand response. By examining current trends and future prospects, this presentation will highlight how Europe and Greece are reshaping their electricity markets to ensure sustainability, reliability, and long-term competitiveness.**



报告专家简介:

Emmanuel S. Karapidakis, 希腊地中海大学工程学院院长、电气与计算机工程系教授, 希腊能源存储系统协会 (HAESS) 主席。他于1997年获雅典国家技术大学 (NTUA) 电气与计算机工程学士学位, 2003年获该校博士学位, 研究方向为高比例可再生能源电力系统的动态安全评估与计算智能应用, 是希腊能源系统建模与智能电网领域的权威专家。



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