

PhD Candidate full name:

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Dissertation Title: A bilevel model for long-term studies of grid access tariffs considering behind-the-meter decentralized generation

Date: 27/04/2026 08:00

Location: Universidad Pontificia Comillas | Escuela Técnica Superior de Ingeniería ICAI | Aula P. Pérez del Pulgar

Public Announcement Link: <https://eventos.comillas.edu/152886/detail/defensa-de-la-tesis-doctoral-a-bilevel-model-for-long-term-studies-of-grid-access-tariffs-consideri.html>

Higher Education Institution: Universidad Pontificia Comillas

Doctoral Programme: Doctoral Program in Industrial Engineering and Management (FEUP)

Abstract or Public Summary: This thesis develops a bilevel model to study how grid access tariffs shape long-term investment in centralized and behind-the-meter decentralized generation. It captures how regulators, producers, and customers interact through energy & capacity markets, and grid-access tariff values.

Principal Supervisor at INESC TEC: José Villar Collado

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Scientific Domain: [Power and Energy Systems]

Keywords: Bilevel programming; Energy markets; Grid-access tariffs; Behind-the-meter decentralized generation; Long-term power system planning