

IST – LNEC Joint Doctoral Initiative

## Thesis Topic Proposal Form

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| <b>TITLE:</b> Water-energy nexus in large facilities: consumption characterization and impact assessment in networks |
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| <b>Short Description</b> (max. 500 characters) |
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| Large facilities have an important role in water management because of high levels of water and energy consumption and of significant wastewater production. The main objective of this doctoral project is to develop a methodology focusing on large facilities' characterization in terms of water and energy consumption and on the analysis of their impact in systems outside buildings through modeling their water supply and wastewater drainage networks. |
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| <b>Keywords:</b> Large consumers; water-energy nexus; water supply; drainage systems |
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| <b>SUPERVISORS</b> |
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| Planned start date: 1 <sup>st</sup> March 2018 |
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| Start institution: LNEC |
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