Transforming Fábrica de Gas da Matinha

LISBON

LISBON 1 | ALFACINHA
Khadija Benis
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4.433 URBAN ENERGY MODELING | FINAL PRESENTATION | 3 May 2016
CONTEXT | TAGUS RIVER
Part of the landscape

LISBON CITY | 600K inhab
LISBON METROPOLITAN AREA | 2.8M inhab
(more than 1/4 of Portuguese population)

Estuary of Tagus River | 19 km of riverfront

LEISURE           bars, restaurants, night clubs
CULTURE           monuments and museums
GREEN AREAS       for walking and cycling

+ great weather conditions during most of the year
RIVERBANK REHABILITATION

1990s | for the world Expo’98
RIVERBANK REHABILITATION

2010 | areas of “Praça do Comércio” and “Belém”
RIVERBANK REHABILITATION VS. ABANDONED AREAS

Cais da Matinha

Museu da Electricidade, Belém
SITE LOCATION
SITE INFORMATION

Former Gasification Plant
Constructed in 1947
Demolition of Mathinha Gas Plant and Warehouses in 2007

GOAL:
Mixed Use Development
Target No. of Occupants: 15,000
Total Site Area: 220,737 m²
CONTEXT

PORTUGAL
2nd LEAST ENERGY CONSUMER IN EU (Residential sector)

AVERAGE ELECTRICITY CONSUMPTION | kWh/m²/yr

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Residential</td>
<td>35-40</td>
</tr>
<tr>
<td>Retail</td>
<td>81</td>
</tr>
<tr>
<td>Office</td>
<td>156</td>
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</tbody>
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Source: ADENE, Agencia para a energia
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