



LABORATÓRIO NACIONAL
DE ENGENHARIA CIVIL

VISITS TO TECHNICAL AREAS

Main Building
N 38° 45.509 W 009° 08.462

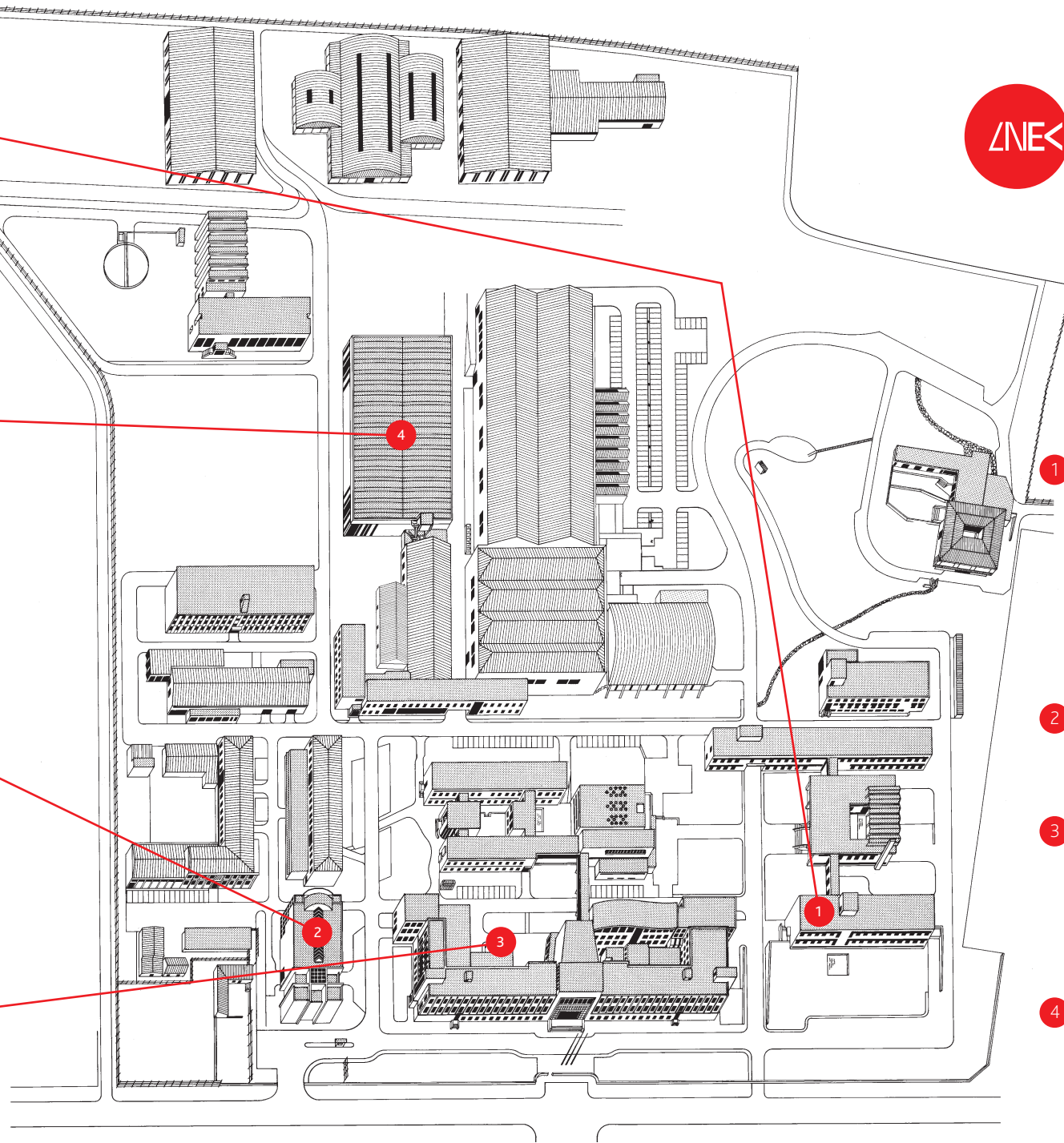
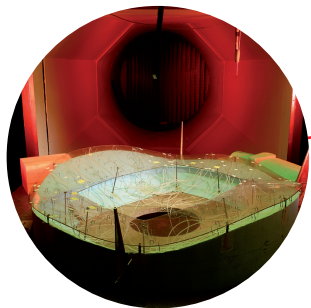
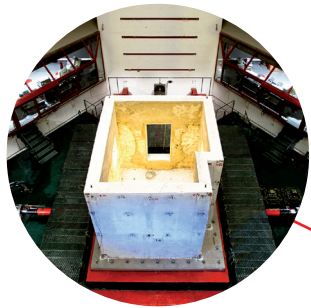
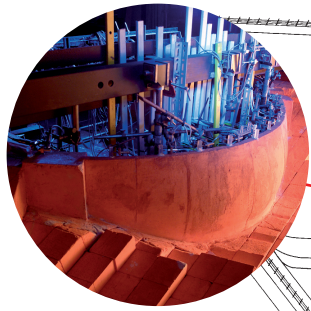
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LABORATÓRIO NACIONAL DE ENGENHARIA CIVIL
Av. do Brasil 101 | 1700-066 Lisbon | Portugal

www.lnec.pt

tel.: +351 218 443 000
fax: +351 218 443 011
lnec@lnec.pt





Concrete Dams Department

1 Modelling and Rock Mechanics Unit

Study of the structural behaviour of concrete dams through physical modelling. Main studies performed include: hydrostatic pressure, weight, seismic action, interaction foundation - dam, geological accidents. Comparison between physical and mathematical modelling.

Structures Department

Earthquake Engineering and Structural Dynamics Unit

2 **Triaxial shaking table:** Activities related to the earthquake phenomena; seismic action characterization and study of its effects upon constructions. Features of the shaking table and description of tests performed.

3 **Aerodynamics:** Wind tunnel; description of the several types of tests performed; study of building ventilation related problems, comfort and safety, assessment of the aeolian potential and consultancy regarding the definition and implantation of aeolian parks. Observation of physical models.

Hydraulics and Environment Department

4 **Water Resources and Hydraulic Structures Unit**
Hydraulic structures and works. Study of the dimensioning of the hydraulic components of dams. Fluid mechanics. Dam safety and hydric resources. Observation of several physical models of on-going studies.