

## Technical Unit models, methods and technologies for the environmental assessment

# 意大利国家新技术、 能源及可持续经济发展署 环境评估技术部水资源保护及管理实验室

### Areas of activity

Urban Sustainable Development  
New Energies and Energy Saving

The ENEA mission is related to the support of Italy's competitiveness and sustainable development. The activities are mainly related to energy, new technologies and the environment. ENEA's activities are: end-use electricity efficiency, photovoltaic solar electricity, bioenergy, hydrogen and fuel cells, nuclear security, air quality and pollution, water pollution control and water management, climate change, earth observation technologies, life cycle analysis, environmental evaluation and certification and many others.

The ENEA's Laboratory "Water Resources Management" has 20 years of experience in research activities and field application on wastewater treatment, anaerobic digestion, biological nutrient removal and water reuse. In the field of water and wastewater treatment technologies Enea has a large experience in developing and applying new technologies for the pollution control, water consumption reduction and water reuse in industrial and civil sector.

Related to surface water the main expertise is mainly related to the following topics:

Surface water monitoring mainly for the protection and prevention of the eutrophication phenomena;

Environmental processes and biogeochemical cycles for surface water protection;

Sewer management and wastewater treatment management for reduction of the impacts from wastewaters;

Buffer zones (e.g. lagoons) processes for the control and protection of the water bodies.

Moreover, the laboratory has a background in supporting the Public Authorities in the implementation of legislation related to water and water bodies use and management.

### 业务范围

城市可持续发展  
新能源及节能

该项目组涵盖了多个有关环境评估的主题。特别是有关大气层活动和空气污染监测和建模、及水资源的管理和生命周期评估方面的研究。水资源保护及管理实验室在废水处理的科研和应用领域有20多年的经验，厌氧生物处理技术、生物营养素去除技术以及水管理和再应用技术。许多研究成果正在为各类工业、农业和民用单位所使用。