

# Utility Management Training

## MODULE 6: PLANT MANAGEMENT (PM)

### Institutional Partners



### PM Module Team

**Module Development Partner:**  
Hydrolia

**Trainers:**  
Nikolay Nikolov, Radoslav Zlatkov

**Competence Partner:**  
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**Utility Partner:**  
Sofiyaska voda



## PM Module Logistics

**Format and Venue:** One-week residential course, Sofia and Haskovo, Bulgaria

**Module timeline:** June – August 2022

**Introductory webinar:** July 1

**Core training week:** July 18 – July 22



## PM Module Outline

Water utilities are, by definition, “operations” companies. That is why functions related to operating water and sanitation assets are the real core of the sector. Earlier in its program, the UMT covered the important topic of Network Operations and now is the time to pay attention to the other major operations function, the treatment plants.

The **Plant Management (PM)** module aims to provide both technical/technological and organizational/management view on treatment plants – potable water and wastewater ones.

The module starts with a session on **Potable Water Treatment: Processes and Technologies**. It is a rather technical introduction to the various techniques of treatment – mechanical, chemical, biological. An overview of parameters and regulations is also included alongside an opinion on novel technologies.

After this technical part a session on **Potable Water Treatment: Management Perspective** follows. The management perspective includes a couple of complementary angles – financial management, operations control (via SCADA/ automation), investment planning and, probably

most importantly, staff management and core competences.

The wastewater topics in the module follow a similar sequence. The section on **Wastewater Treatment: Processes and Technologies** places a focus on treatment methods, evolution of regulations and technologies. Again, it is followed by the **Management Perspective** – alongside financial, investment and organizational aspects this session looks at trendy energy efficiency aspects of wastewater management and not only.

**Methane Capture and Sludge Management**, albeit aspects of wastewater treatment plants, deserve special attention (not least because of climate-change focus) and that is why such a dedicated section is included in the module.

The whole module has a strong practical element with field visits to some of the biggest treatment plants in Eastern Europe (operated by Sofiyska voda) but also a half-day practical visit/discussion at a mid-size WWTP operated by Hydrolia. Similar to other UMT modules, the PM one will give the floor to a couple of guest speakers and participants who are deeply into the topic and can share opinions.

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