

The objective of the SpotView project is to develop and demonstrate innovative, sustainable and efficient processes and technology components, in order to optimize the use of natural resources, especially water, in three industrial sectors (Dairy, Pulp and Paper and Steel).

Resource optimization (including water, energy, raw materials and additives) is a key issue for competitiveness and sustainability. During the SpotView project, 14 existing and new technologies will be assessed for 9 new water management practices. Up to 7 selected technologies demonstrators are planned in real industrial environment. These technologies will be evaluated in terms of environmental impacts and benefits, generated by achieving the SpotView targets (20% to 90% reduction of water usage, wastewater emissions, chemicals and energy use).



The SpotView consortium covers the whole value chain, from technology development to industrial applications. Economic exploitation of the technologies is pursued through a well described business case scenario. Dissemination and training activities are planned to maximize the impact of the project. Market opportunities for services and technology products beyond the SpotView project are expected to generate up to 2800 new equipment and 7000 new jobs in Europe!





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a new industrial partnership for water efficiency!

"the XV of Europe"

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## Sustainable Processes and Optimized Technologies for Industrially Efficient Water Usage

## Pilot scale processes

Separation technologies



Filtration, flotation of suspended solids (KL, AMIII)





Elevated Pressure sonication (SERE)



Ultrafiltration of colloïds (VAL)



Deionization (BFI, AMIII)



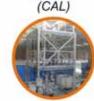
Aerobic/ Anaerobic MBR (CERTH)

Disinfection



Biocontrol concept (XC)

**Chemical Heat** pump



 Dairy product process effluents - Wash water - WWTP effluents

Applications demonstrated in the project Industrial water sources

PAPER industry (SCA, EL, CTP, VTT)



- Pulp and paper processes water WWTP effluents

STEEL industry (AMIII, BFI)



 Steel processes water - Cooling water Sea water

DAIRY industry ( MEVGAL, CERTH)





**Technical & Economical** 

benefits

Productivity / competitiveness

New technologies development



Valuable substance recovery





Reduced chemical usage



Environmental benefits &

Process sustainability

Reduced fresh water usage



Biogas production

Heat recovery

Reduced



Minimized water foot print



Reduced energy consumption



Reduced greenhouse gases emissions

