

Meteor™ -IFAS

BIOLOGICAL PURIFICATION
OF WASTEWATER BY
COMBINED CULTURES



URBAN
WASTEWATER

REMOVE CARBON AND NITROGEN IN WASTEWATER
USING A VERY COMPACT SOLUTION

⊕ **FLEXIBILITY**

A solution that supports strong load variations, notably in cold zones.

⊕ **ENVIRONMENT**

A solution that conforms to the strictest discharge regulations while controlling costs.

suez
environnement

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INNOVATION

AN INTERMEDIARY (COMBINED CULTURES) SOLUTION COMBINING THE ADVANTAGES OF FIXED-FILM CULTURE (LIKE BIOFILTRATION) AND SUSPENDED GROWTH TECHNOLOGY (LIKE ACTIVATED SLUDGE).

KEY FIGURE:

Nitrification potential

3 times higher than in conventional activated sludge.



Meteor™-IFAS TECHNOLOGY...

Meteor™-IFAS can be used for the treatment of raw water from urban areas and the pretreatment of industrial water.

This process adapts equally well to the upgrading of existing systems, and the construction of new units.

Two biomass systems, a single reactor: Meteor™-IFAS is a biological process by combined culture specially developed for nitrogen and carbon removal.

The treatment of carbon is assured by suspended growth technology (activated sludge) while nitrogen treatment is assured by fixed-film technology: two distinct biomass systems (biomass flocculation and biofilm carriers) coexist within the same reactor.

AMONG OUR REFERENCES:

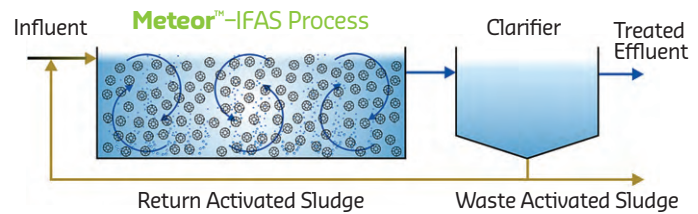
- Groton, CT, USA (19,000 m³/d capacity)
- Falling Creek, VA, USA (53,000 m³/d capacity)
- Proctor's Creek, VA, USA (135,000 m³/d capacity)

Degrémont

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Meteor™
-IFAS

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Meteor™-IFAS is a biological process by combined culture specially developed for the removal of nitrogen and carbon.

...WHAT IT CAN DO FOR YOU

- + COMPACT:**
 - Volume needs of the structures are considerably reduced compared to conventional activated sludge
- + FLEXIBILITY:**
 - The process supports strong load variations particularly in cold zones (i.e. mountainous zones).
- + ENVIRONMENT:**
 - An effluent quality that conforms to the strictest regulations on discharge while controlling costs
- + EASY TO OPERATE:**
 - No load loss or washing
 - A high level of automation/system reliability
 - Ease of integration within existing stations
 - Ideal for upgrades: raise the quality level of discharge, as well as the load to be treated

