



## ORIGINAL NEED

The Municipality of San Casciano dei Bagni was intended to realize depuration systems with low environmental impact to treat wastewater of its various small settlements. Constructed wetland, in particular horizontal subsurface flow system, came to be the best choice to achieve this goal.



## DESCRIPTION

The treatment plant is composed of a primary treatment system (grid + Imhoff tank) and a secondary treatment system with 5 basins with subsurface horizontal flow. HF basins are disposed in two parallel lines.

### LOCATION

Settlement of Celle sul Rigo  
Municipality of San Casciano dei Bagni  
Province of Siena  
Italy

### COMMITTANT

Municipality of San Casciano dei Bagni

### NUMBER OF PERSON EQUIVALENT

620

### WASTEWATER TYPOLOGY

Civil

### PLANT TYPOLOGY

SFS-h (5 basins)

### AREA (M2)

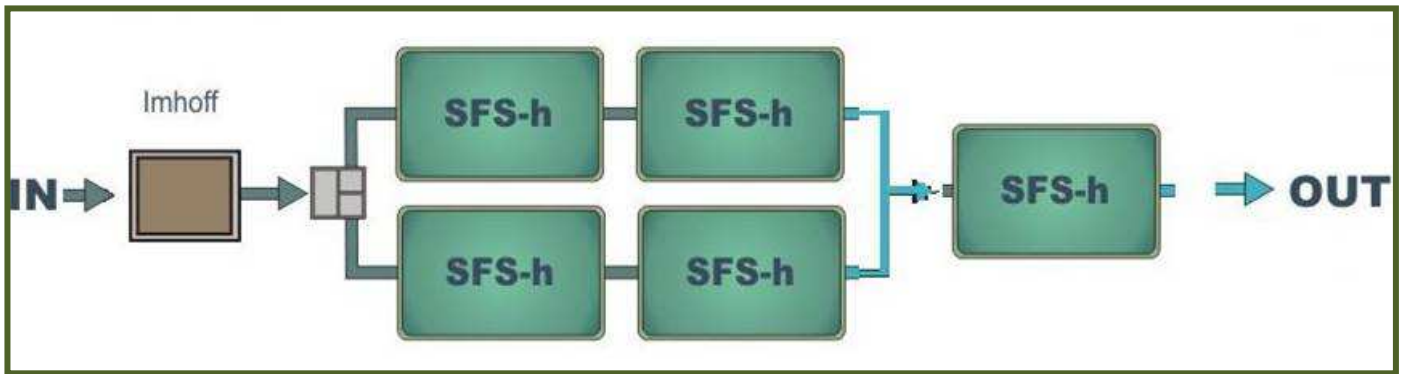
2100

### YEAR OF REALIZATION

2004

Each line of the horizontal flow system is composed of:

- a first stage with horizontal subsurface flow;
- a second stage with horizontal subsurface flow;
- a third stage in common between the two lines, with horizontal subsurface flow.



Scheme of the plant