

## REQUIREMENTS



### Space

0.7 m<sup>2</sup>/p.e. in the basement (in total 30 m<sup>2</sup>)  
1.7 m<sup>2</sup>/p.e. outside (in total 50 m<sup>2</sup>)  
Needed for all treatments



### Energy use

4.4 - 11.1 kWh/p.e./year  
(in total 200 - 500 kWh/year)  
Heating system urine treatment & small pumps for compost leachate



### Cost

CAPEX: 889 - 3,111 CHF/p.e.  
(in total 40,000 - 140,000 CHF)  
OPEX: 100 CHF/p.e./year



### Operations & Maintenance

Operation by inhabitants: 100 h/year  
Maintenance by aneco: 30-40 h/year  
Each apartment operates its own composting chamber

## TARGET OUTPUT



### (Vermi)Compost

Used onsite in the garden after maturation



### Urine based fertilizer (Pitribon)

Part (1.5 m<sup>3</sup>/year) is used onsite in the garden. Once certified, rest (up to 20 m<sup>3</sup>/year) could be used as fertilizer in agriculture and/or urban public spaces



### Treated water

The treated water is not reused on site but reenters water cycle via to stormwater drains



Urine & feces treatment



Feces & greywater treatment

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Graphic: Delia Gregori

p.e. = Population Equivalent  
CAPEX = Capital Expenses  
OPEX = Operating Expenses

## CRESSY

Cooperative Equilibre, 2011  
45 p.e. (13 apartments)

The first circular sanitation building in Geneva, built by the Cooperative Equilibre. It is a 13-apartment building that uses source separation of urine, feces and greywater. Feces are collected in dry toilets and composted in the basement, urine is collected by a diversion in the toilet seat and turned into fertilizer in the basement, and greywater is treated in a constructed wetland in the garden.

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