

# Hyclean Automation System

# Varmtvands- Energiberegner

Energiforbrug for varmt vand:  
beregner, simulerer, optimerer

**Building characteristics**

Name of the building: My building  
 Building use type: Large public building  
 Building age class: 1980 to 1995  
 before 1980 | 1980 to 1995 | 1995 to 2010 | after 2010  
 Usable space: 770 m<sup>2</sup>  
 Year of construction of the hot water system: 1994  
 Continue

**Your current energy demand for water heating**

Energy demand per year: 28324 kWh  
 CO<sub>2</sub> emissions per year: 8781 kg  
 Energy costs per year: 2266 €

**Optimising your hot water energy consumption**

Hyclean AS with electronic balancing valves and insulation optimization where deficient  
 Retrofit Hyclean AS  
 Lowering the temperature  
 Lowering the temperature to 60 °C  
 Modernisation of the plant technology  
 Modernise water heating technology

**Energetic losses before and after optimisation**

Category	Originally	Optimised
Hot water consumption	12036 kWh	6576 kWh
Generation losses	3413 kWh	2349 kWh
Storage losses	2790 kWh	2272 kWh
Distribution losses	9274 kWh	3272 kWh

**Possible energy savings per year**  
5529 kWh/Year

**Saved energy costs per year**  
499 €/Year

**Reduction of losses**  
35 %

**Saved CO<sub>2</sub>-emissions**  
1774 kg/Year

**Saving on the cost of care**  
1980 €/Year

An investment in Hyclean AS pays off

# Beregn dit potentiale for energibesparelser

Energiforbruget i bygninger skal reduceres yderligere for at nå klimamålene. Der er et kæmpe besparelspotentiale ved optimering af drikkevandsinstallationer som er værd at se på.

GF Piping Systems har udviklet en online-beregner, der nemt kan beregne den mængde energi, der er nødvendig for at producere varmt vand i en bygning: „Varmtvands-Energiberegner“. Onlineberegneren kan også bruges til at simulere den potentielle energibesparelse, hvis der er truffet tiltag til at optimere drikkevandssystemet – samtidig med at drikkevandshygien opretholdes. Afskrivningsperioden for de foretagne investeringer og besparelserne i de efterfølgende år er også vist grafisk.

Varmtvands-Energiberegneren kan bruges gratis via følgende link: [www.gfps.com/hot-water-energy-calculator](http://www.gfps.com/hot-water-energy-calculator)

### 1 - beregn

**Building characteristics**

Name of the building: GF Danmark

Building use type: Apartment building > 10 apartments

Building age class: 1980 to 1995

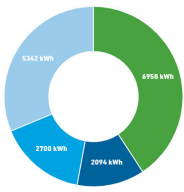
Usable space: 4386,39 m<sup>2</sup>

Year of construction of the hot water system: 1990

**Continue**

### 2 - simulér

**Your current energy demand for water heating**



Energy demand per year	17094 kWh
CO <sub>2</sub> emissions per year	11683 lbs
Energy costs per year	1197 \$

### 3 - optimér

**Hycclean AS with electronic balancing valves and insulation optimization where deficient**

Retrofit Hycclean AS

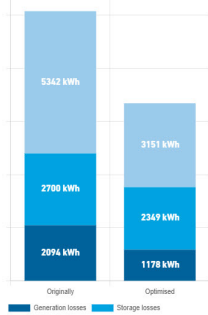
**Lowering the temperature**

Lowering the temperature to 60 °C

**Modernisation of the plant technology**

Modernise water heating technology

**Energetic losses before and after optimisation**



**Possible energy savings per year**

3621 kWh/Year

**Saved energy costs per year**

293 \$/Year

**Saved CO<sub>2</sub>-emissionen**

2564 lbs/Year

**Saving on the cost of care**

1702 \$/Year

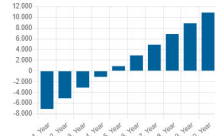
**Reduction of losses**

34 %

**Total savings**

21 %

**An investment in Hycclean AS pays off**



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#### Din kontakt

Georg Fischer A/S  
Roskildevej 342E  
2630 Taastrup

Telefon 70 22 19 75  
salg.dk.ps@georgfischer.com  
www.gfps.com

