

## Overview of the results of the household OR01 Single Person Office 0

Calculation Time  
Freitag, 1. Januar 2016 - Sonntag, 1. Januar 2017

Energy Intensity: Random

Seed 677

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:35:02

# Table of Contents

Totals.....	3
Persons.....	5
Activity Frequency Charts.....	6
Activity Distribution per Person.....	7
Time Use per Person per Affordance Per Person.....	8
Energy use per person per affordance.....	10
Time Use per Person Per Affordance according to different category definitions.....	12
Overview of the actions of each member of the household.....	14
Overview of the time of the use per load type per device.....	15
Energy/Resource use distribution per load type per affordance.....	17
Energy use for each load type for each device.....	22
Duration curve for each device for each load type.....	26
Duration curve for each load type.....	28
Grouped energy use for each load type for each device.....	30
Example of the device profiles for each load type.....	34
Overview of the time and power of the use per load type per device.....	48
Energy use per load type during different seasons, split by weekday/saturday/sunday.....	50
Location Distribution per Person.....	52
Actions.csv.....	53
Sum Profiles.....	54
Time Profiles.....	58
Variables.....	59

## Totals

### Totals for each Loadtype

Load Type	Value	Unit
Cold Water	6283.27	L
Electricity	367.21	kWh
Warm Water	3810.00	L

### Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	17.17	L
Electricity	1.00	kWh
Warm Water	10.41	L

### Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	6.37	L/Min
Electricity	0.00	2128.02	Watt
Warm Water	0.00	5.00	L/Min

### Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	6283.27	L
Electricity	367.21	kWh

Warm Water	3810.00	L
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### Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	17.17	L
Electricity	1.00	kWh
Warm Water	10.41	L

## Persons

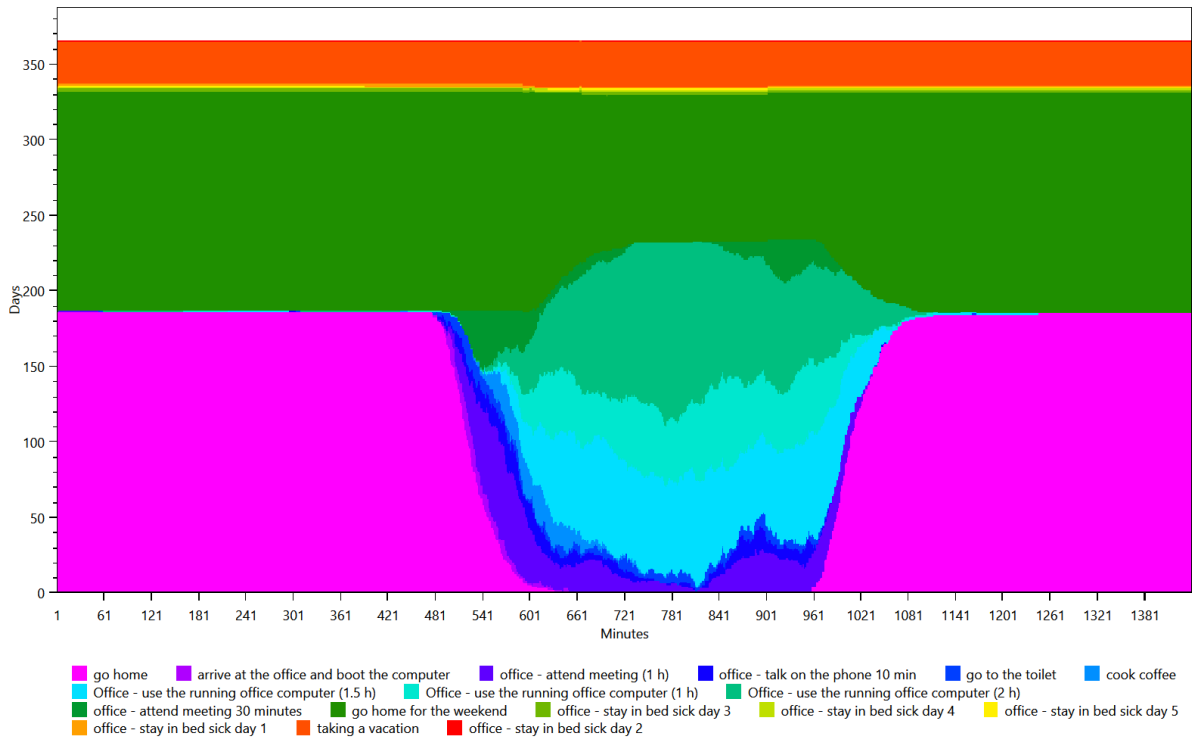
- HH0
  - OR01 Ellen (26/Female)(26/Female)

# Activity Frequency Charts

This is made from the files starting with: ActivityFrequenciesPerMinute

These charts show an ordered distribution of times of the activities of each person. This helps with judging quickly if a person is sleeping correctly and if they are going to work regularly.

HH0 - OR01 Ellen (26 Female)

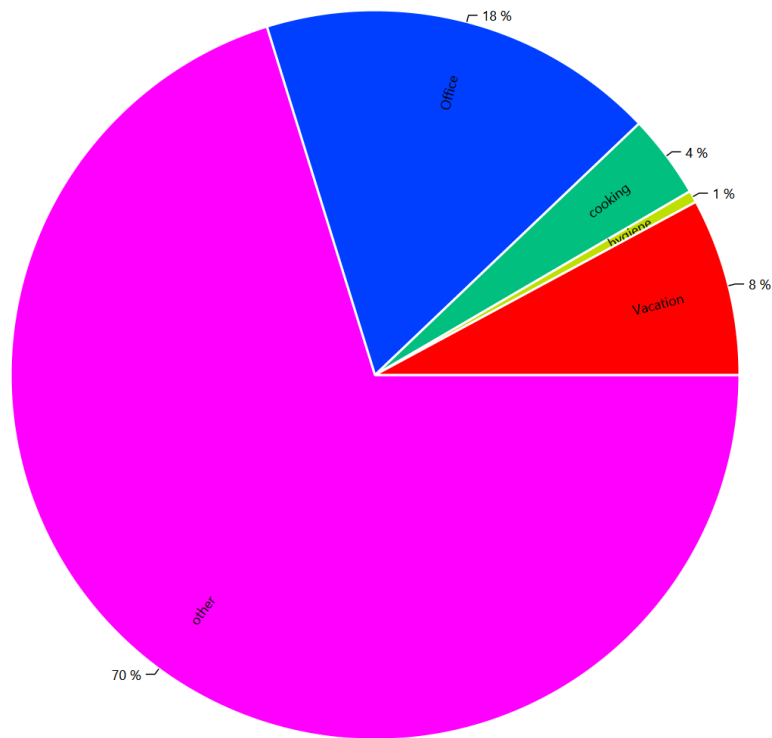


# Activity Distribution per Person

This is made from the files starting with: ActivityPercentage

This shows the distribution of the activities, grouped by the affordance AffordanceToCategories.

HH0 - OR01 Ellen (26 Female)

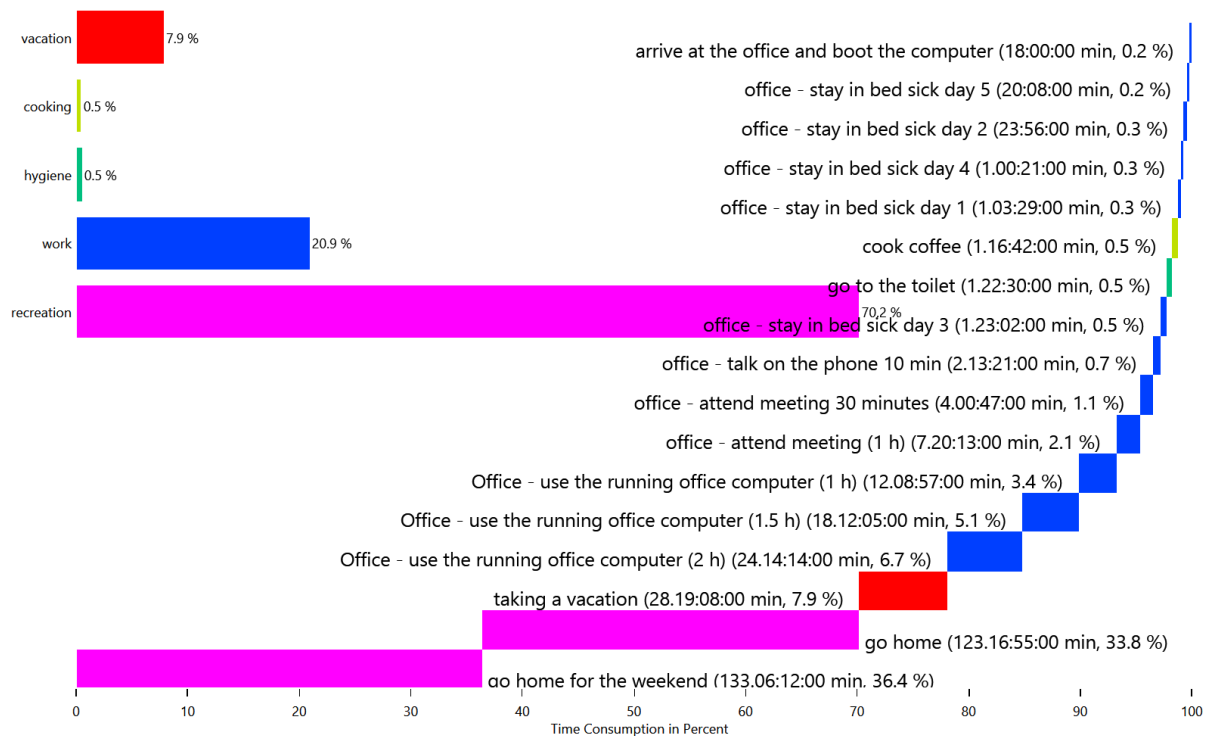


# Time Use per Person per Affordance Per Person

This is made from the files starting with: AffordanceTimeUse

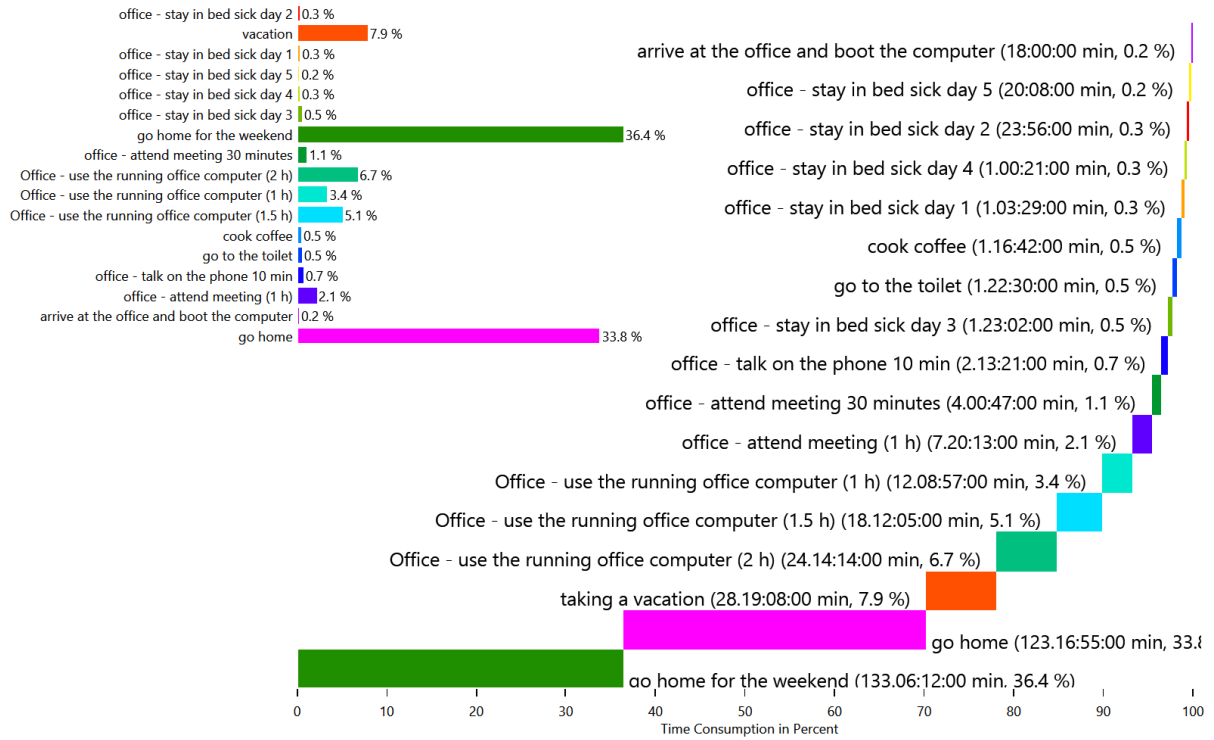
These charts show how the people in the household use their time. This shows the individual affordances to help find problems in the household definition.

## HH0 - OR01 Ellen (26 Female)

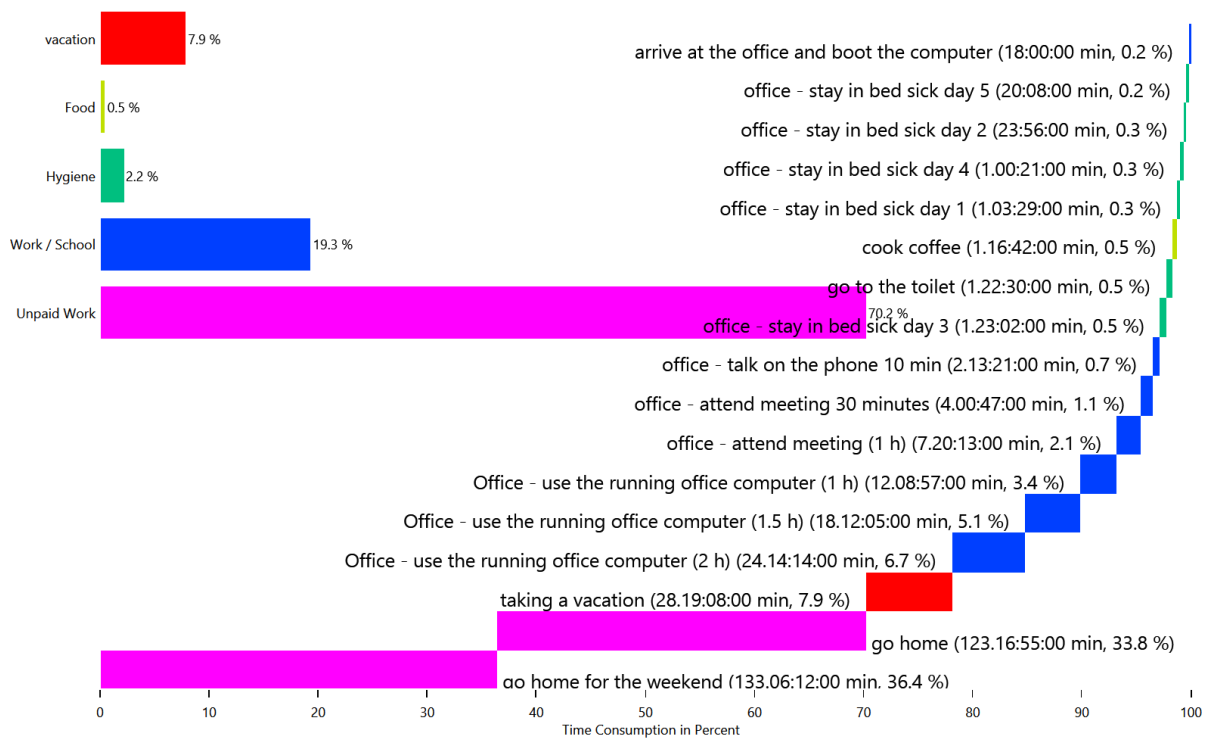




## HH0 - OR01 Ellen (26 Female)



## HH0 - OR01 Ellen (26 Female)

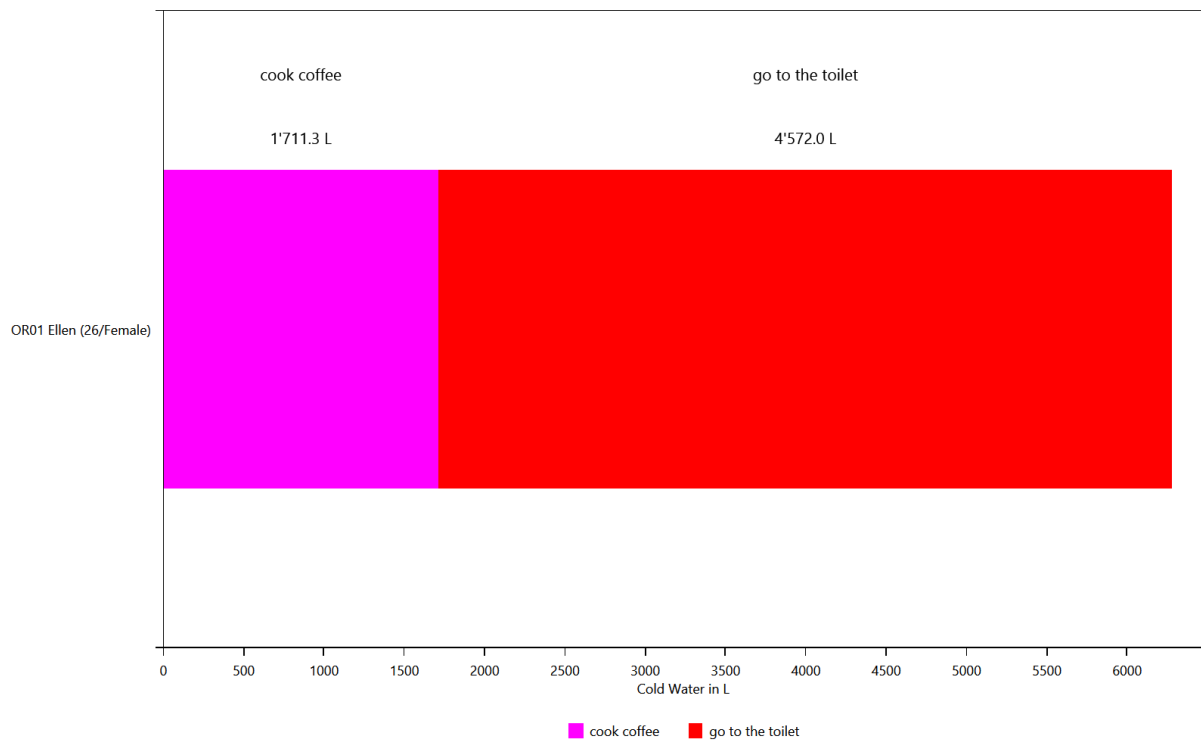


# Energy use per person per affordance

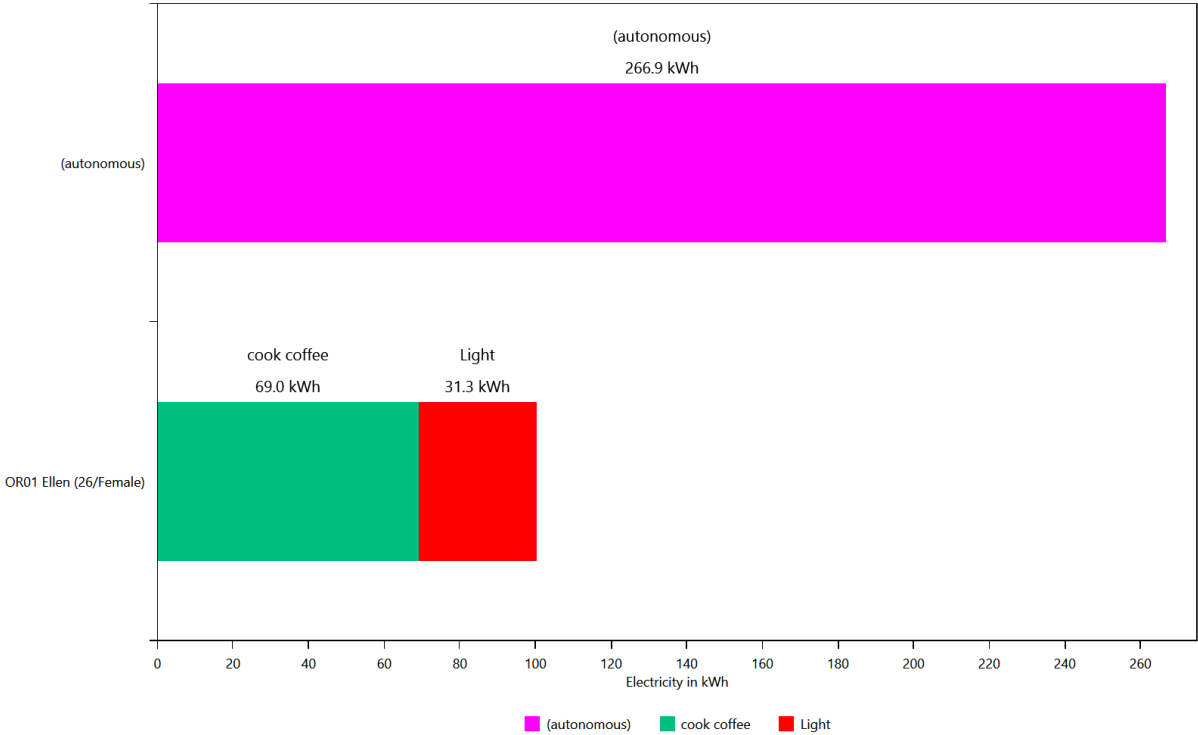
This is made from the files starting with: **AffordanceEnergyUsePerPerson**

This shows the distribution of the energy/ressource use to each affordance by load type and by person. This helps with figuring out if a person is using too much electricity.

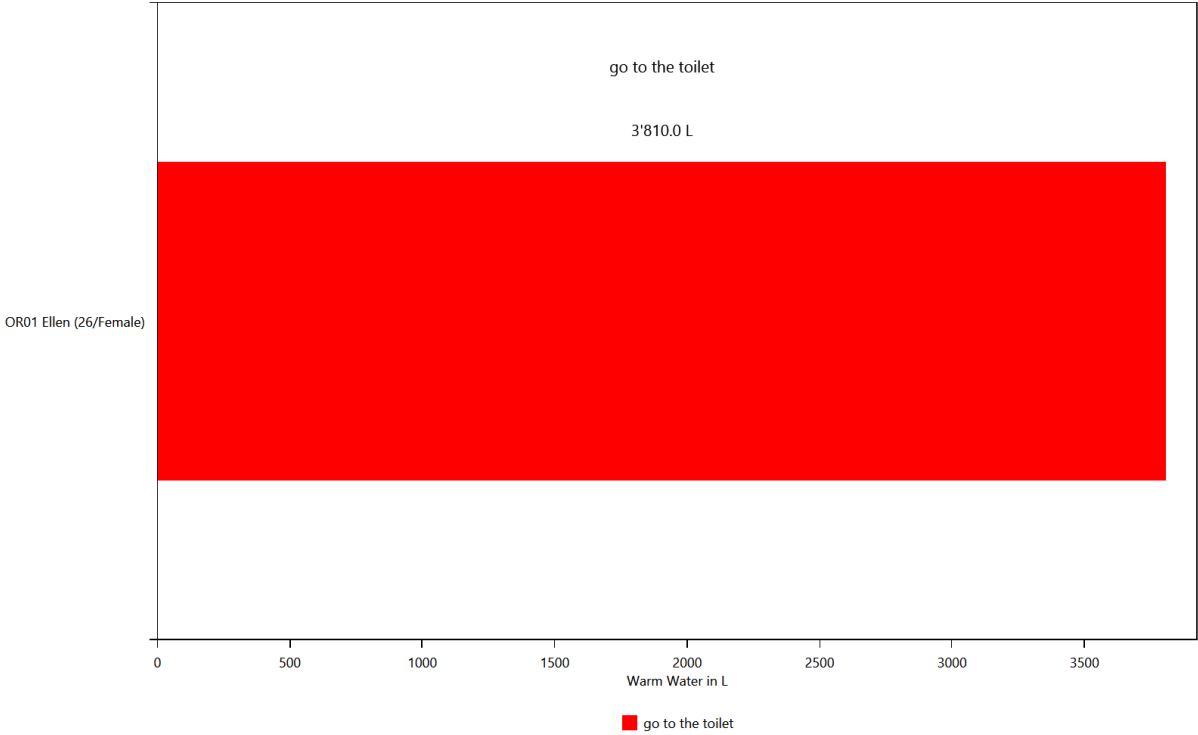
## HH0 - Cold Water



# HH0 - Electricity



# HH0 - Warm Water

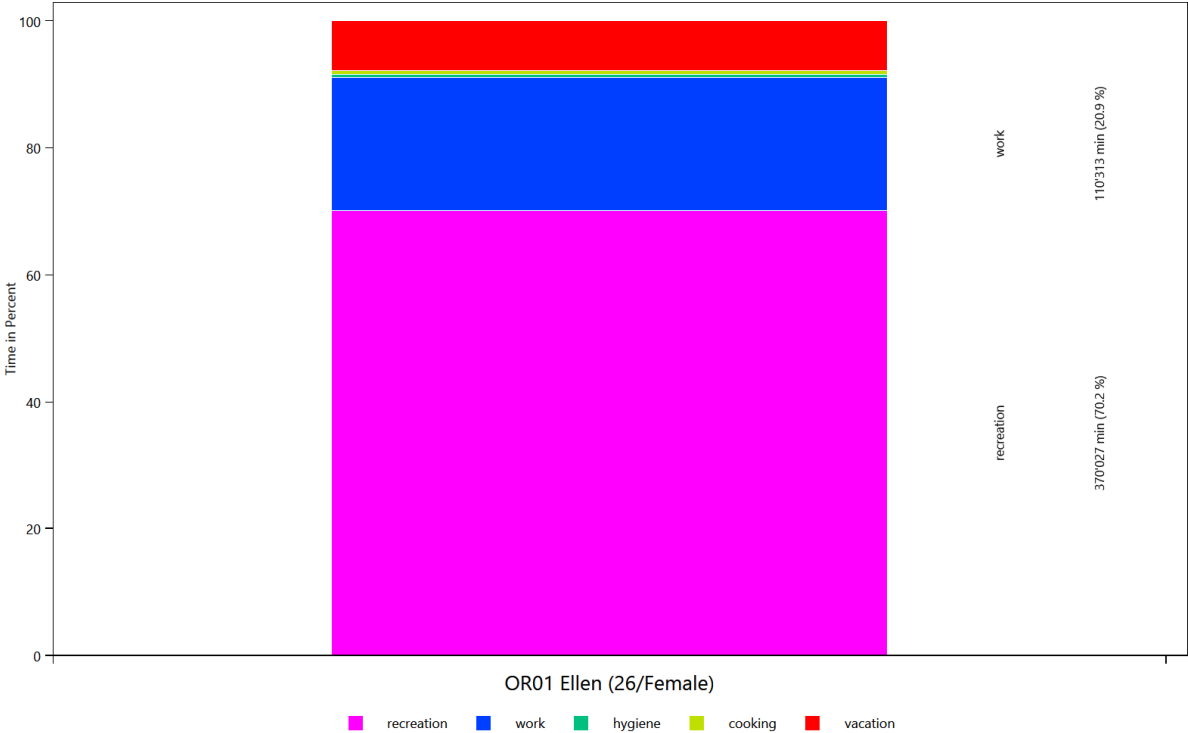


# Time Use per Person Per Affordance according to different category definitions

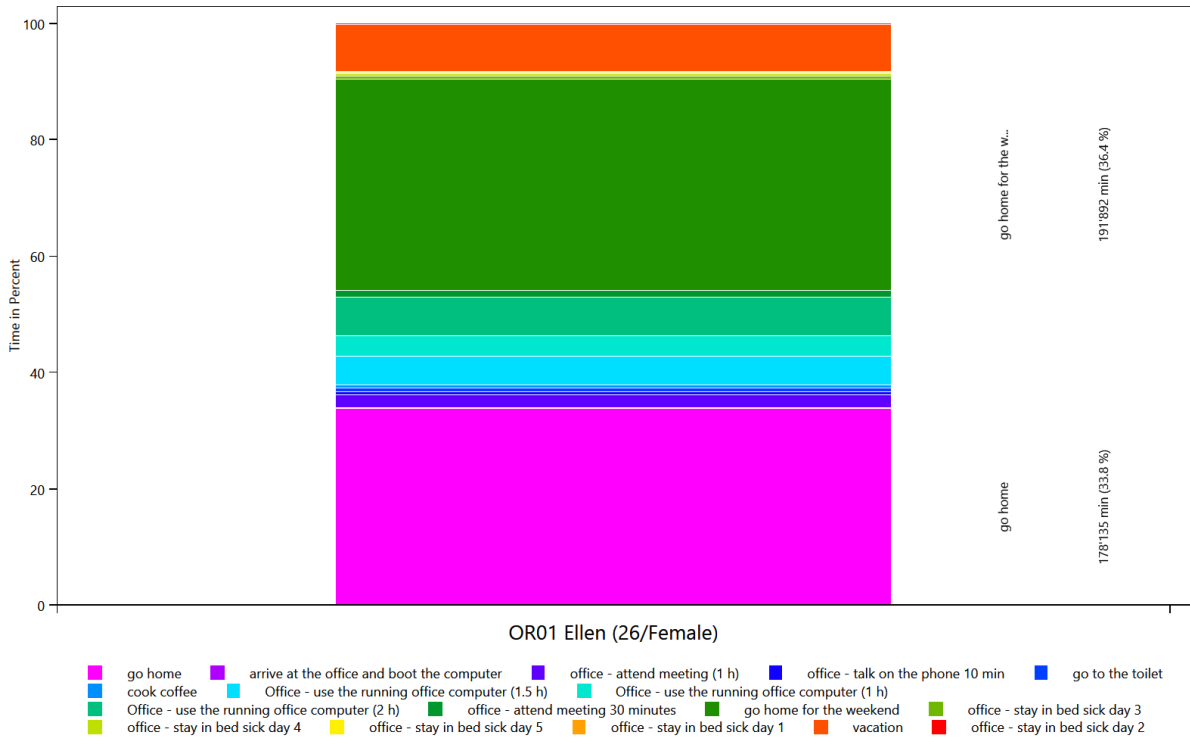
This is made from the files starting with: AffordanceTaggingSet

These charts show how the people in the household use their time. To help with analysis, the activities can be grouped by various criteria. This is done with the affordance tagging sets in the LPG.

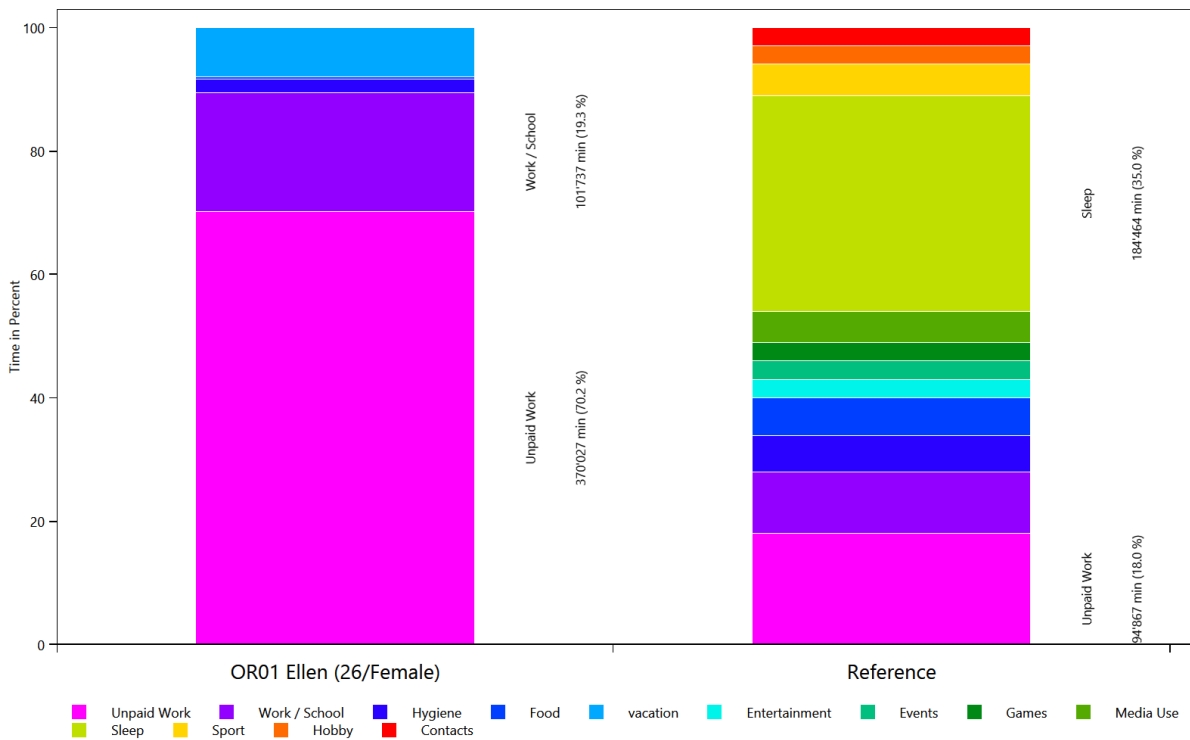
## Basic Tagging - HH0



## Tagging Set For Planning - HH0



## Wo bleibt die Zeit - HH0

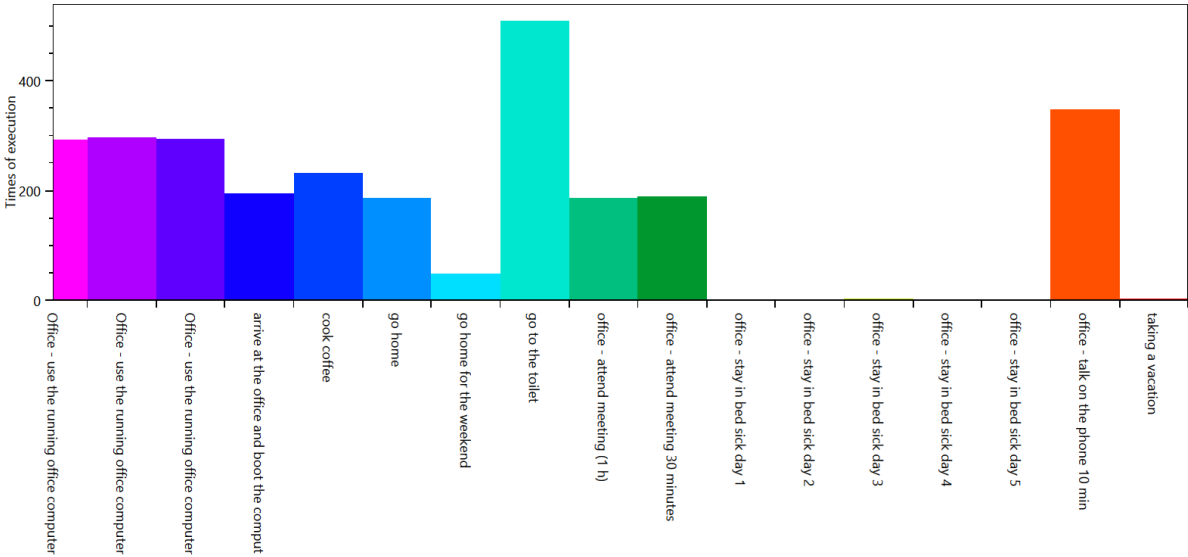


# Overview of the actions of each member of the household

This is made from the files starting with: ExecutedActionsOverviewCount

These charts show how often each affordance was executed.

HH0 - OR01 Ellen (26 Female)

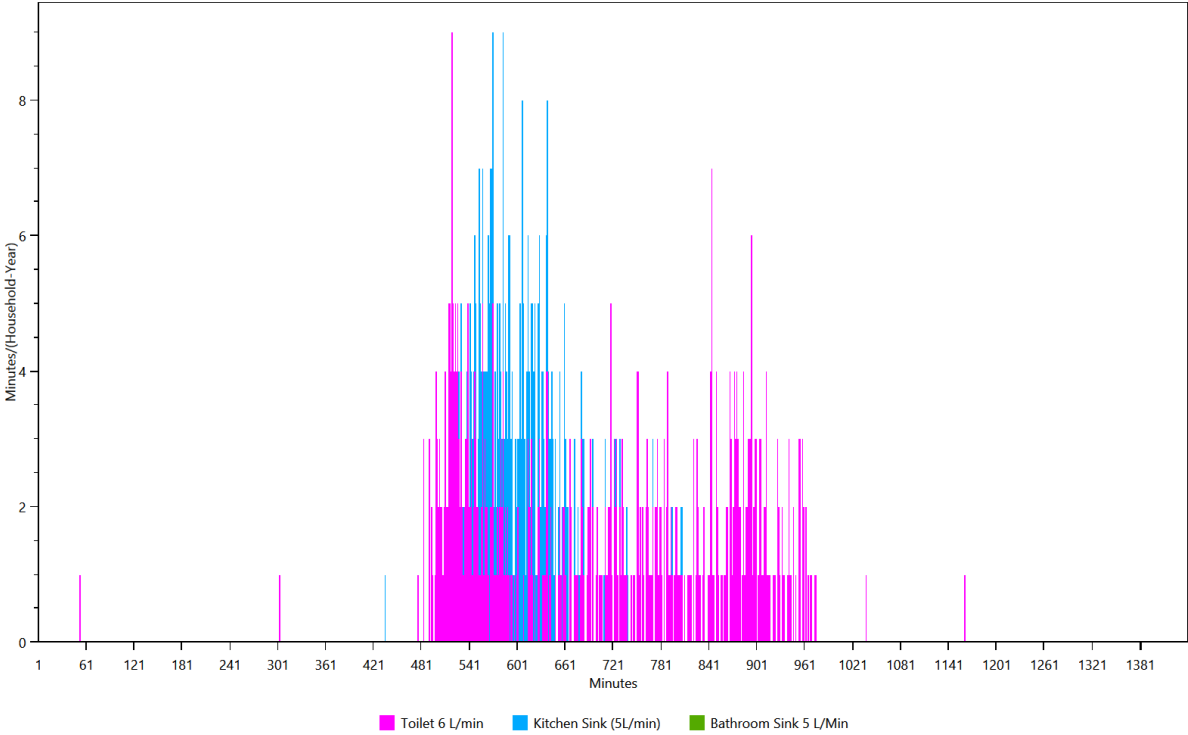


# Overview of the time of the use per load type per device

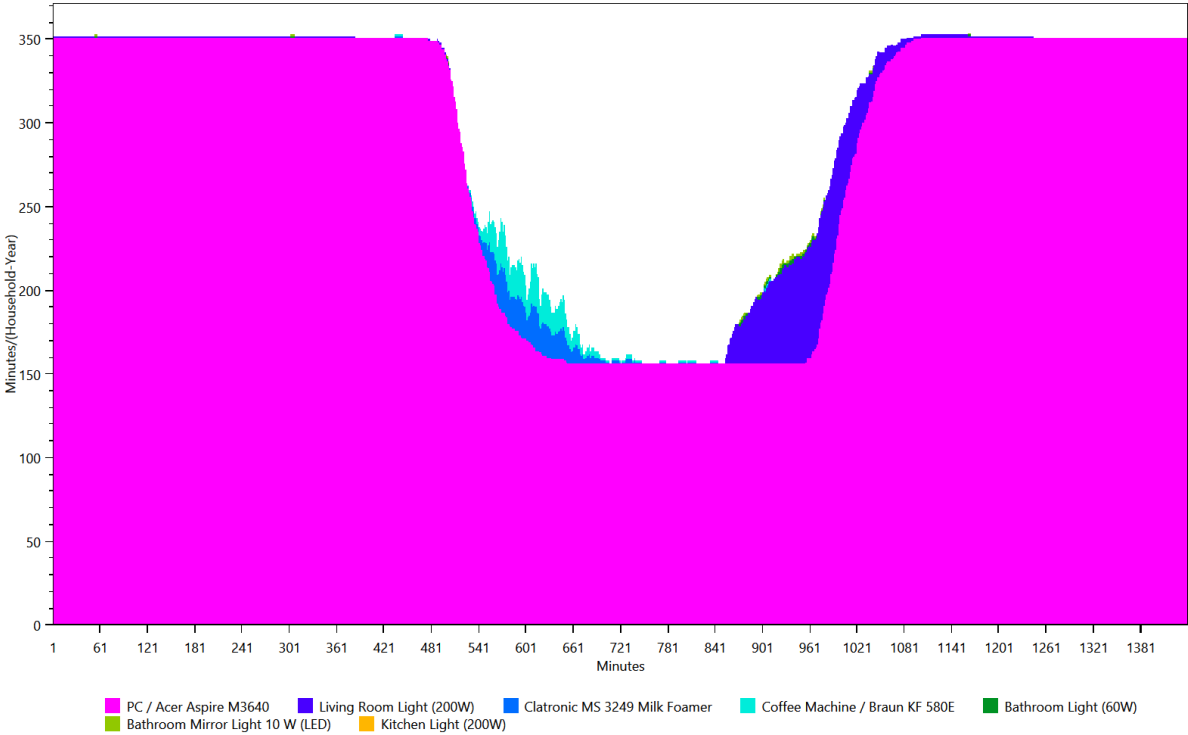
This is made from the files starting with: TimeOfUseEnergyProfiles

The time of use energy profiles shows when each device was used.

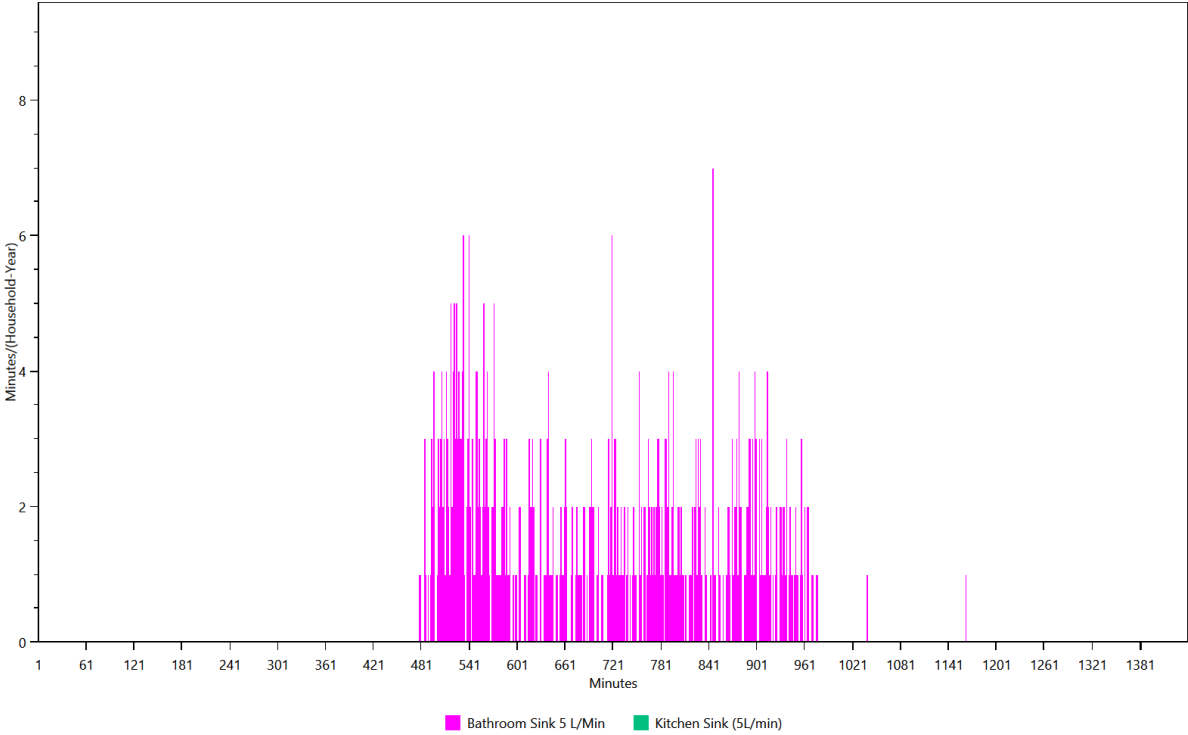
## Cold Water



# Electricity



# Warm Water



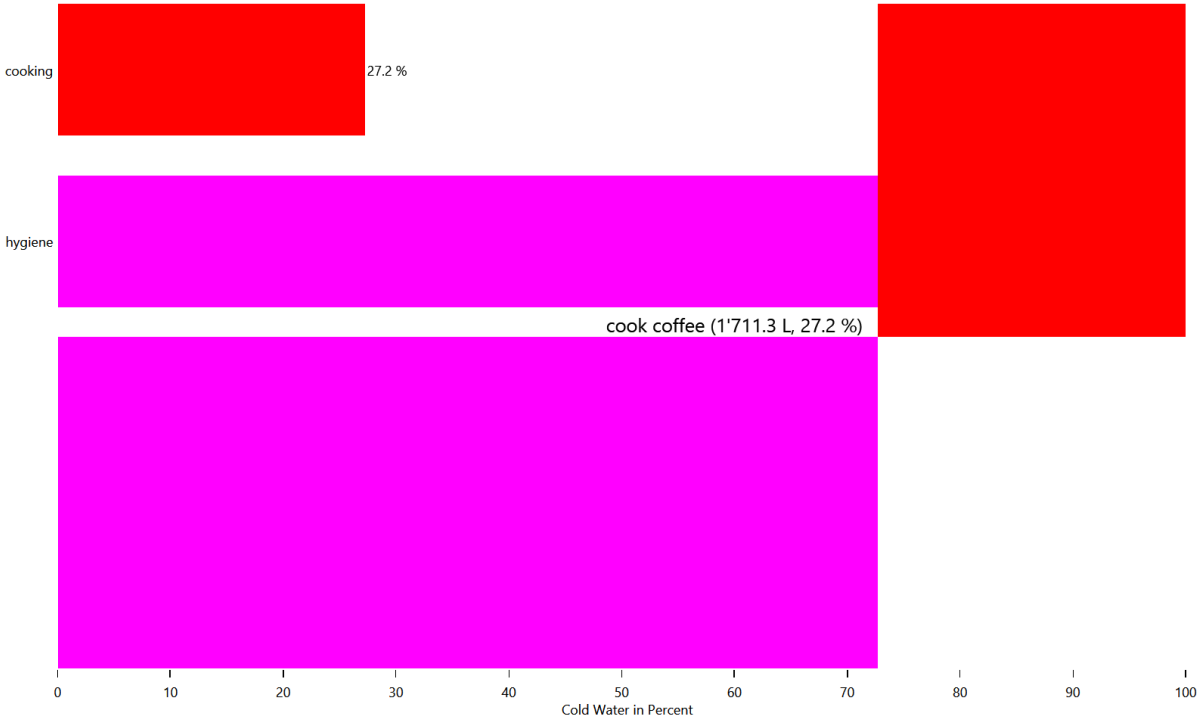


# Energy/Resource use distribution per load type per affordance

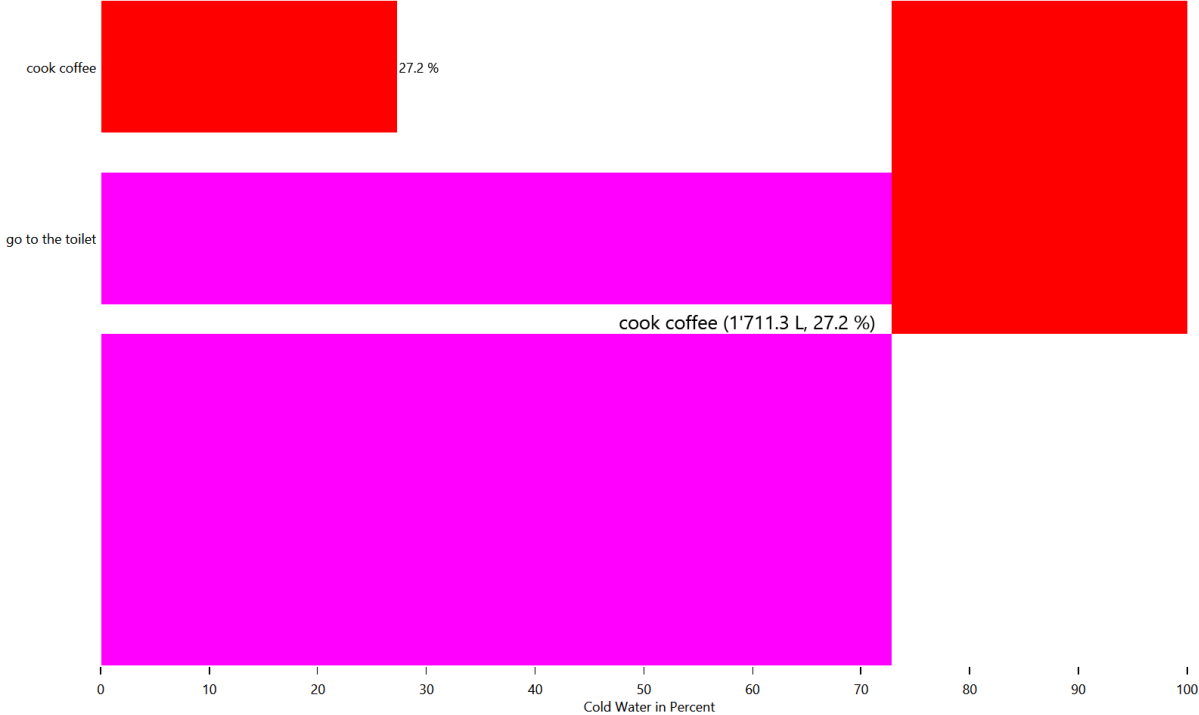
This is made from the files starting with: AffordanceEnergyUse

This shows the distribution of the energy/ressource use to each affordance by load type.

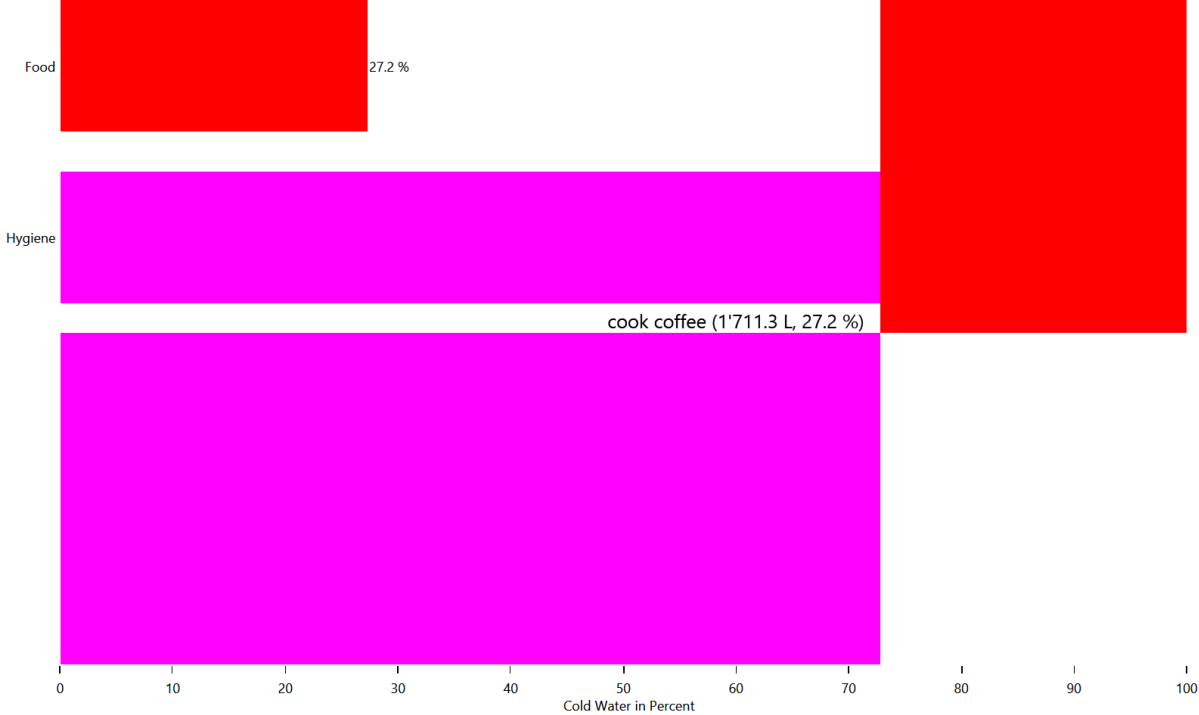
## HH0 - Cold Water



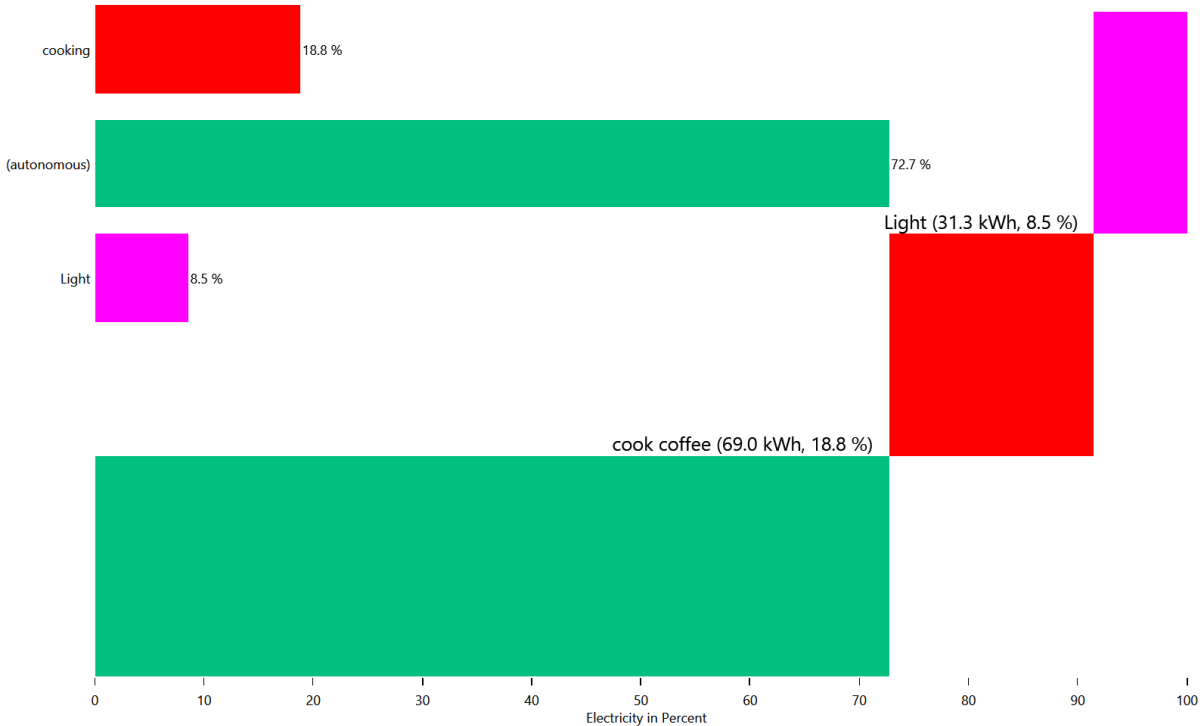
### HH0 - Cold Water



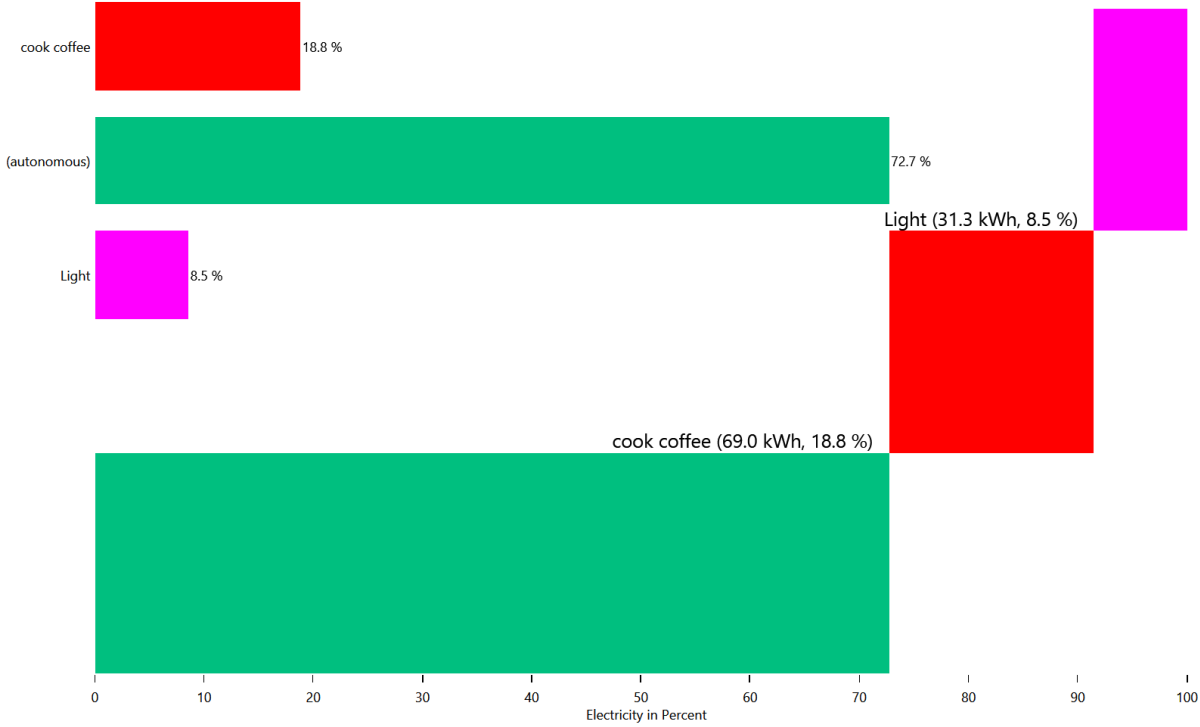
### HH0 - Cold Water



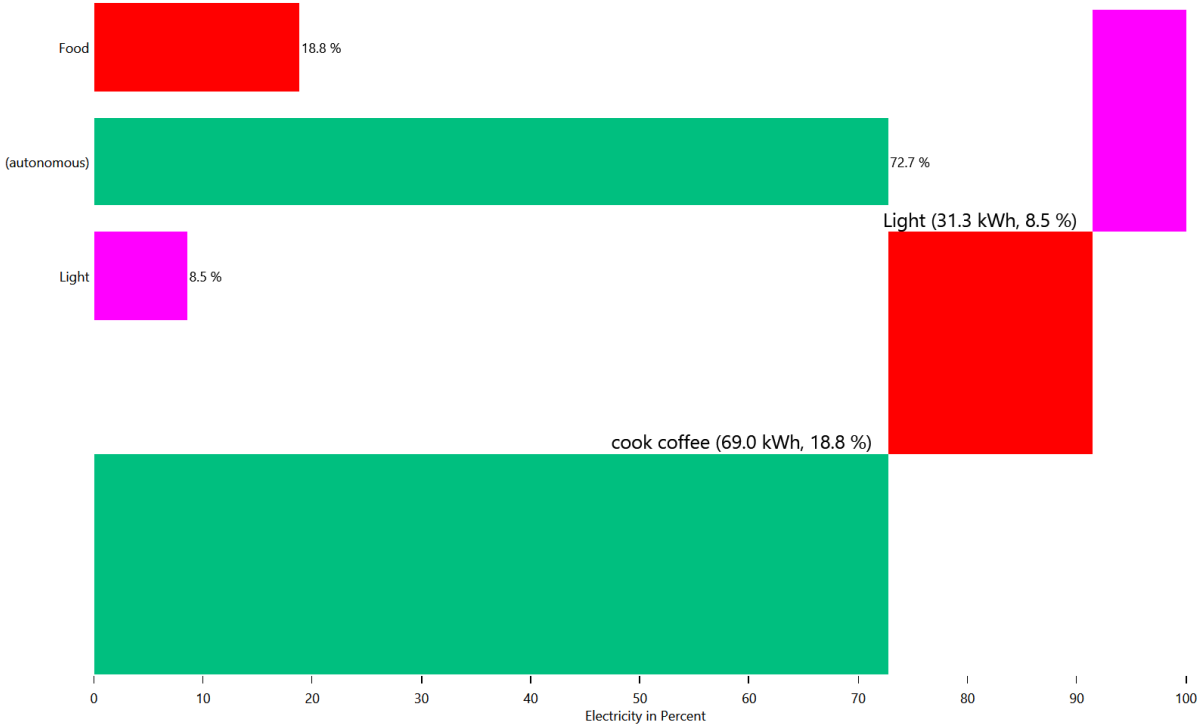
# HH0 - Electricity



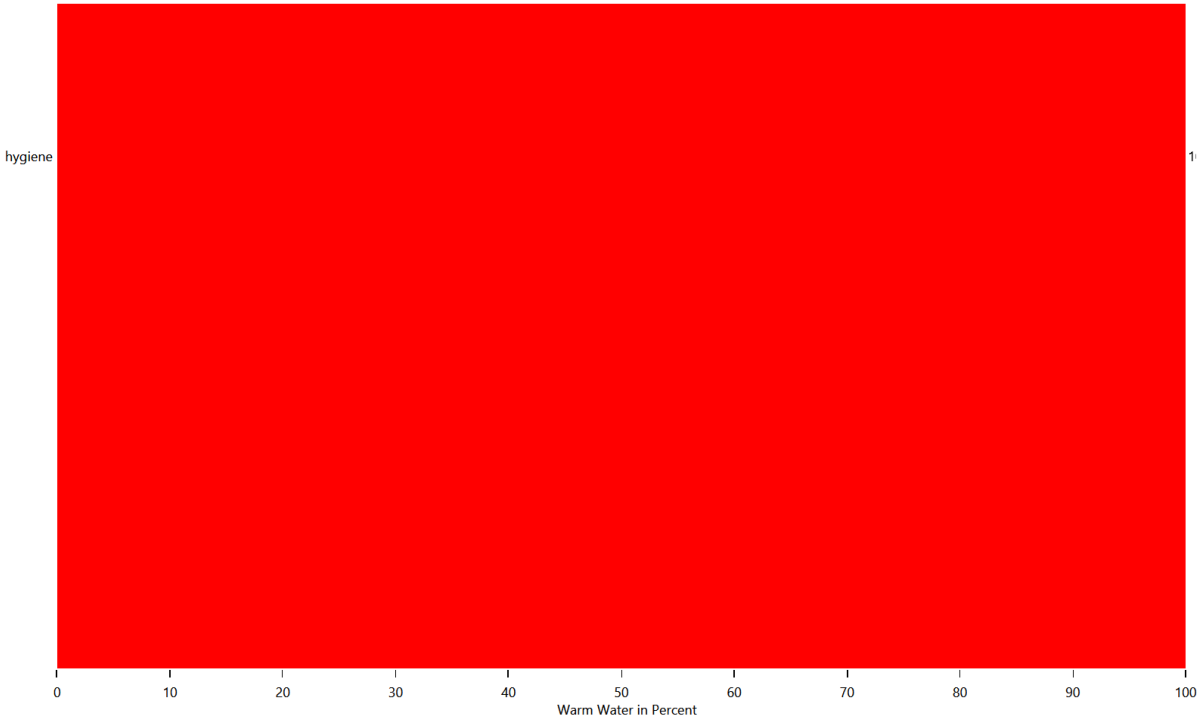
# HH0 - Electricity



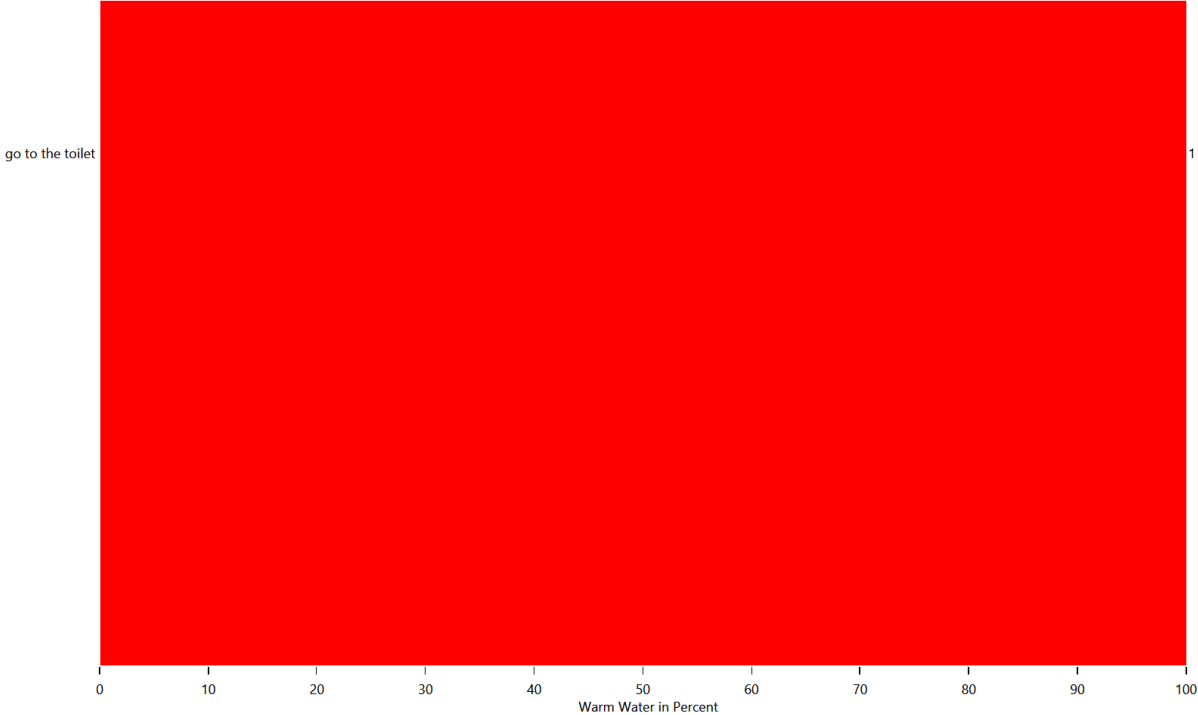
# HH0 - Electricity



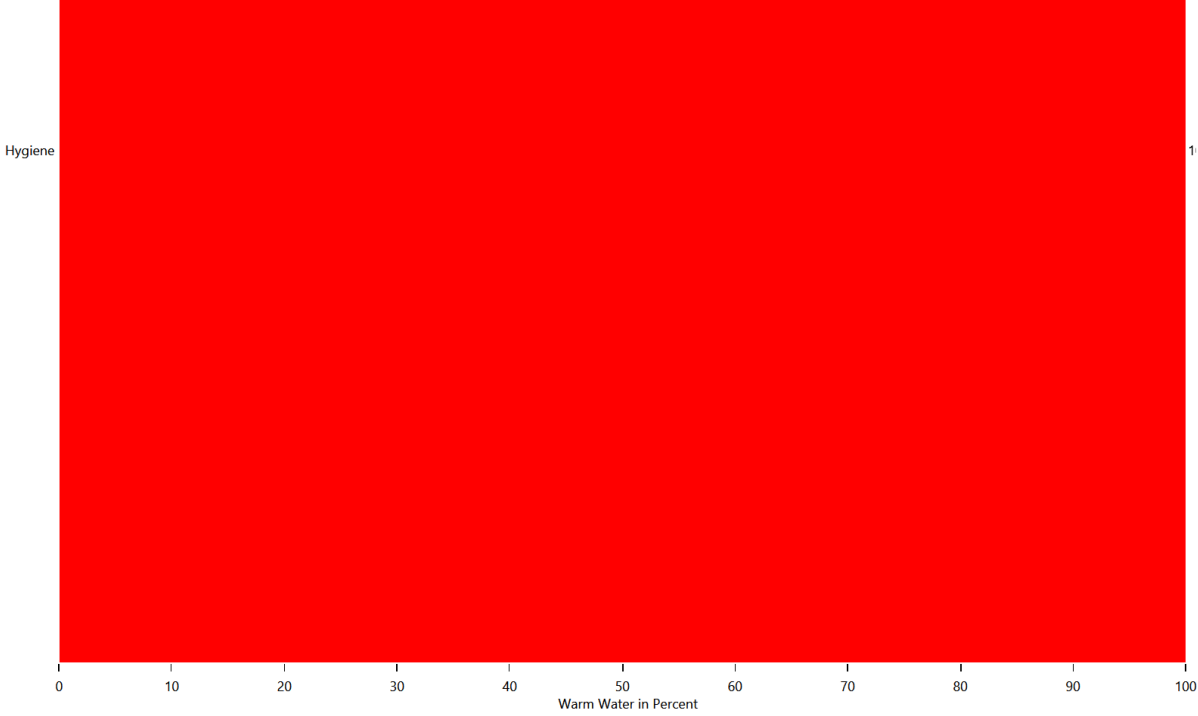
# HH0 - Warm Water



HH0 - Warm Water



HH0 - Warm Water

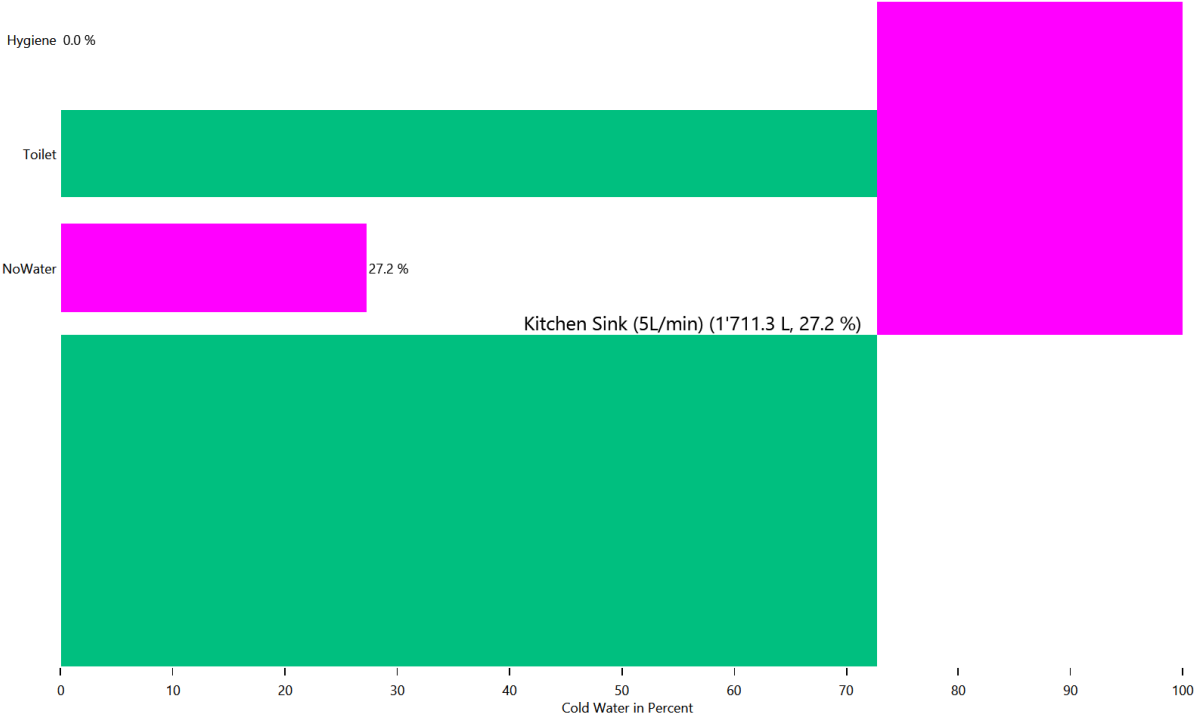


# Energy use for each load type for each device

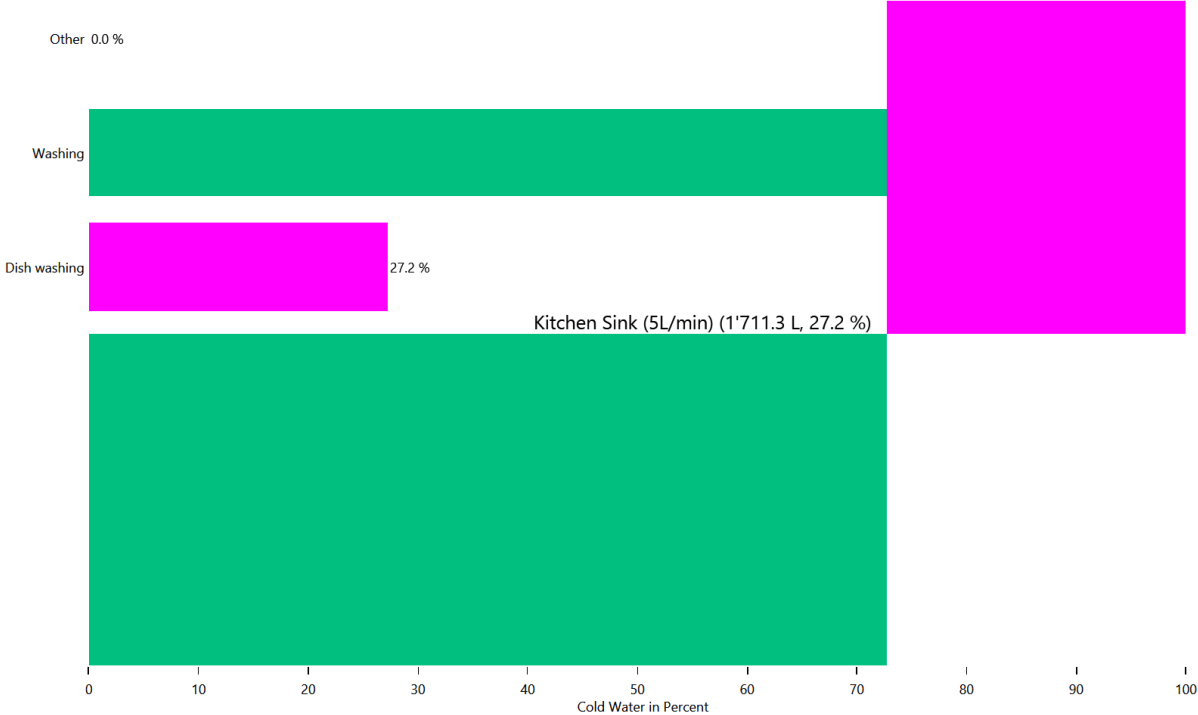
This is made from the files starting with: DeviceSums

These pie charts show the energy use for each individual device in each load type.

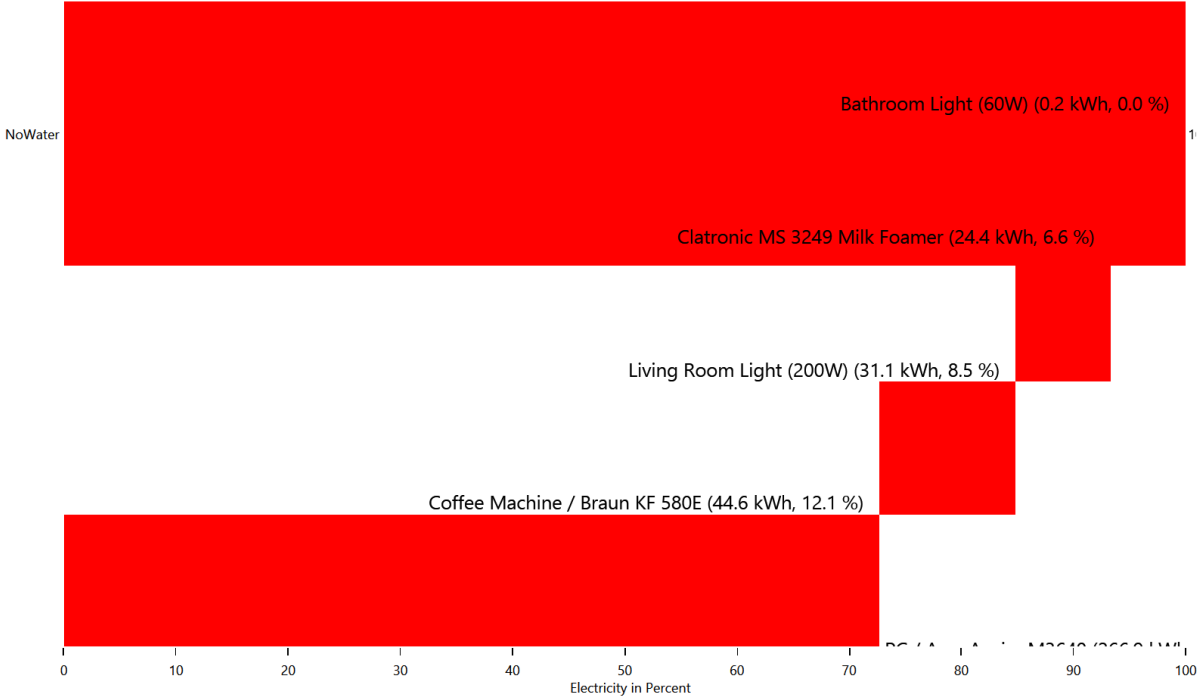
## Cold Water



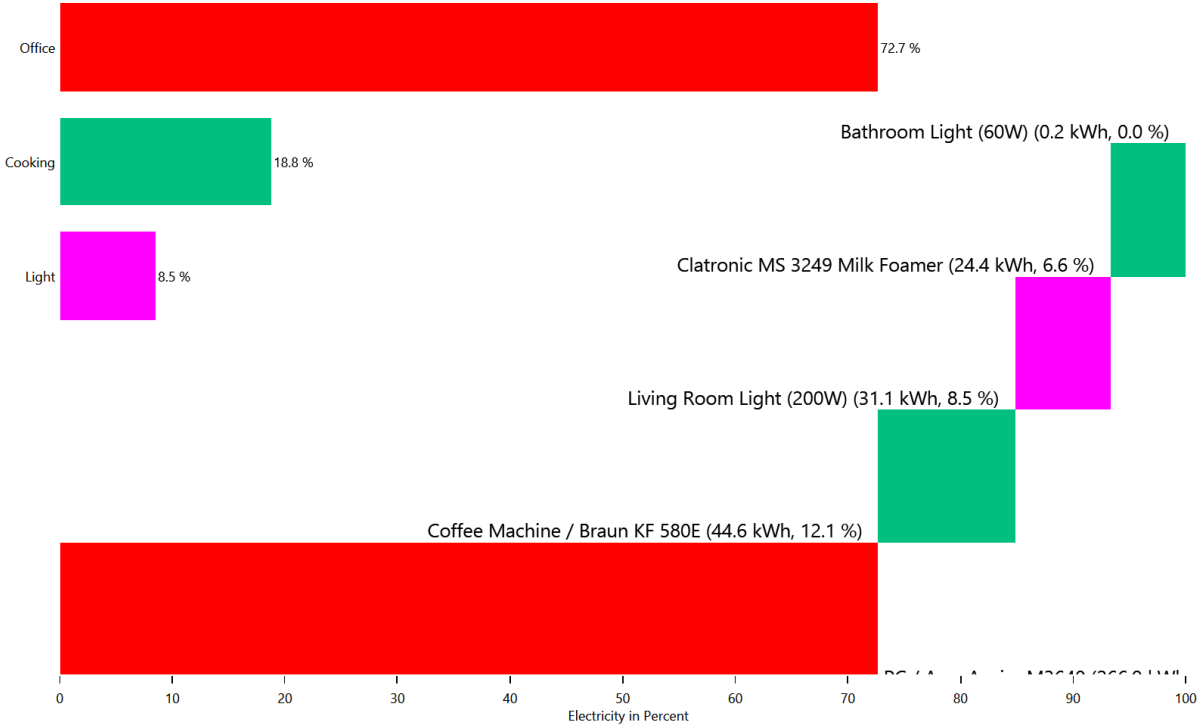
# Cold Water



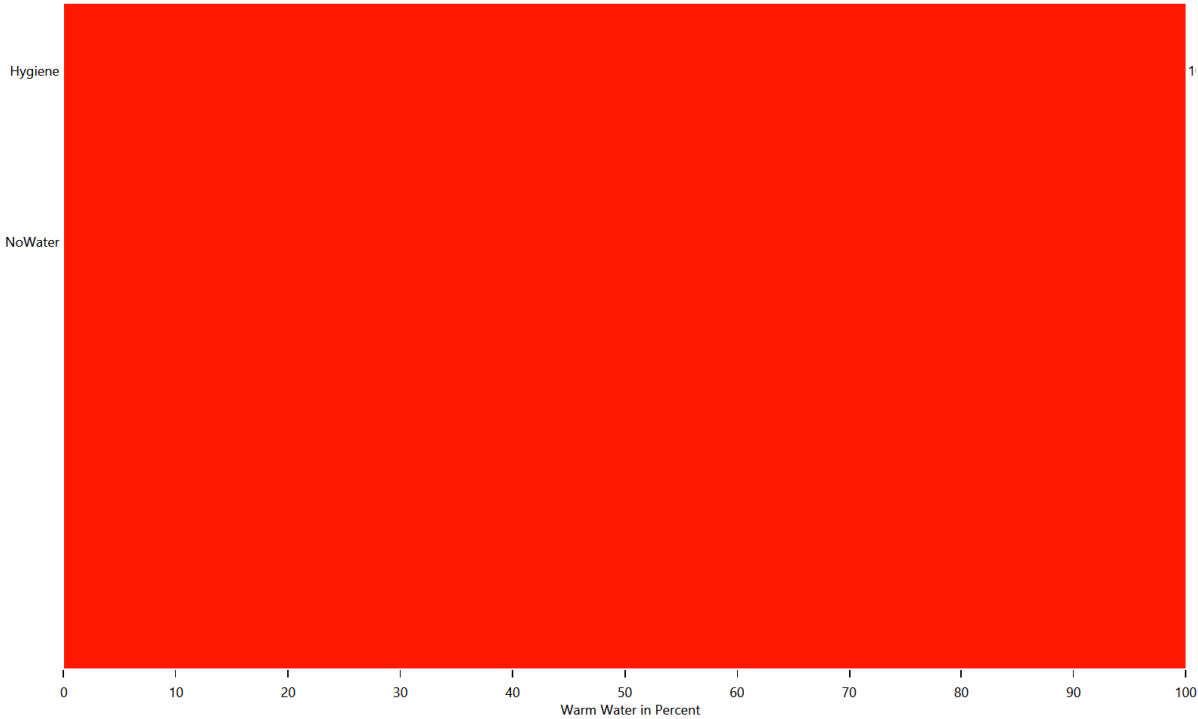
# Electricity



# Electricity

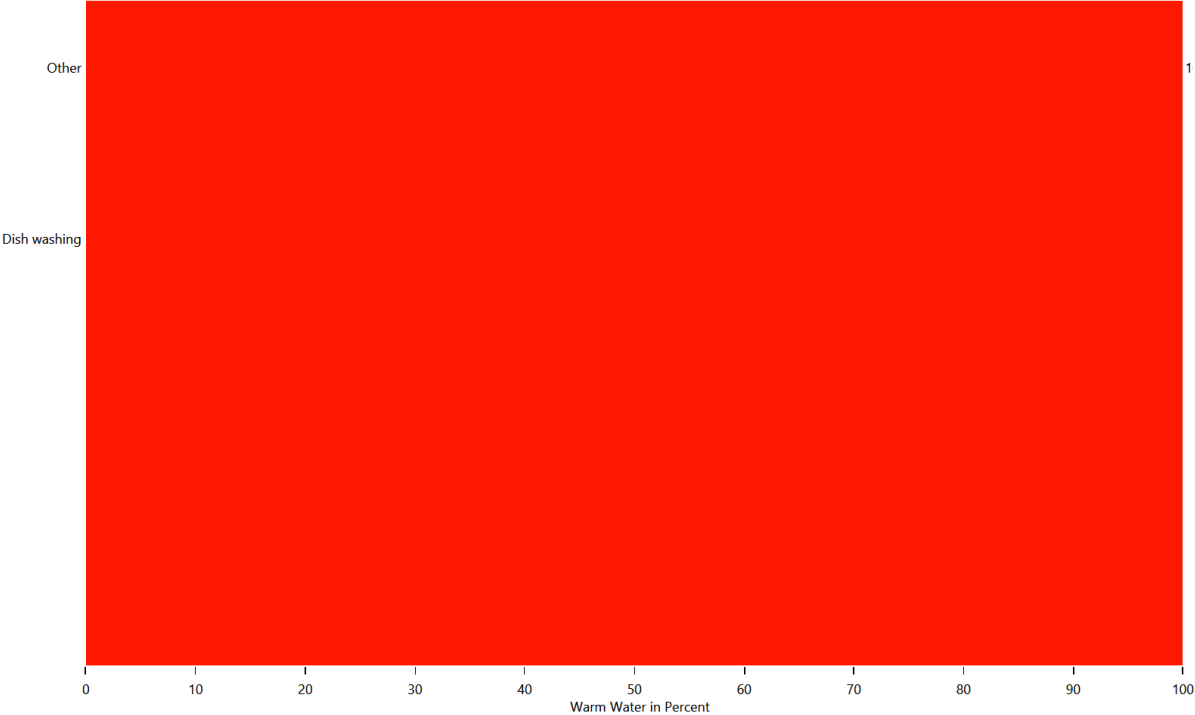


# Warm Water





# Warm Water

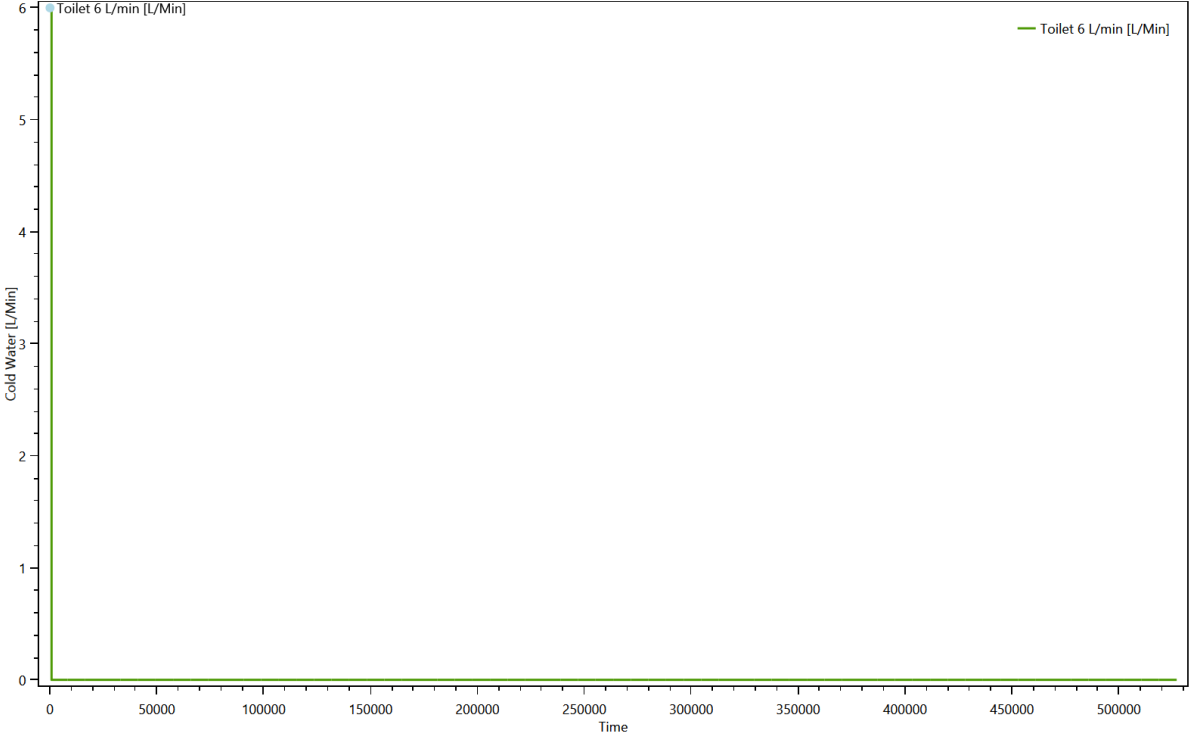


# Duration curve for each device for each load type

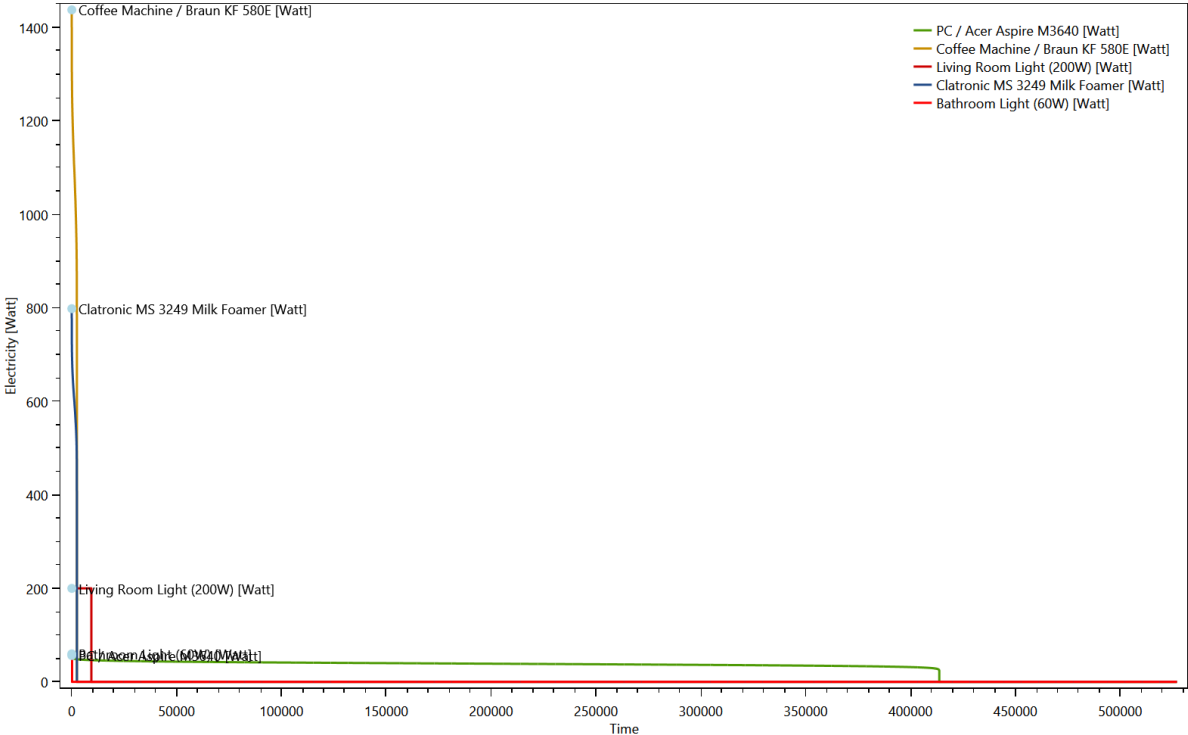
This is made from the files starting with: DeviceDurationCurves

The device duration curve show the duration curve of each device to give an overview of the power consumption.

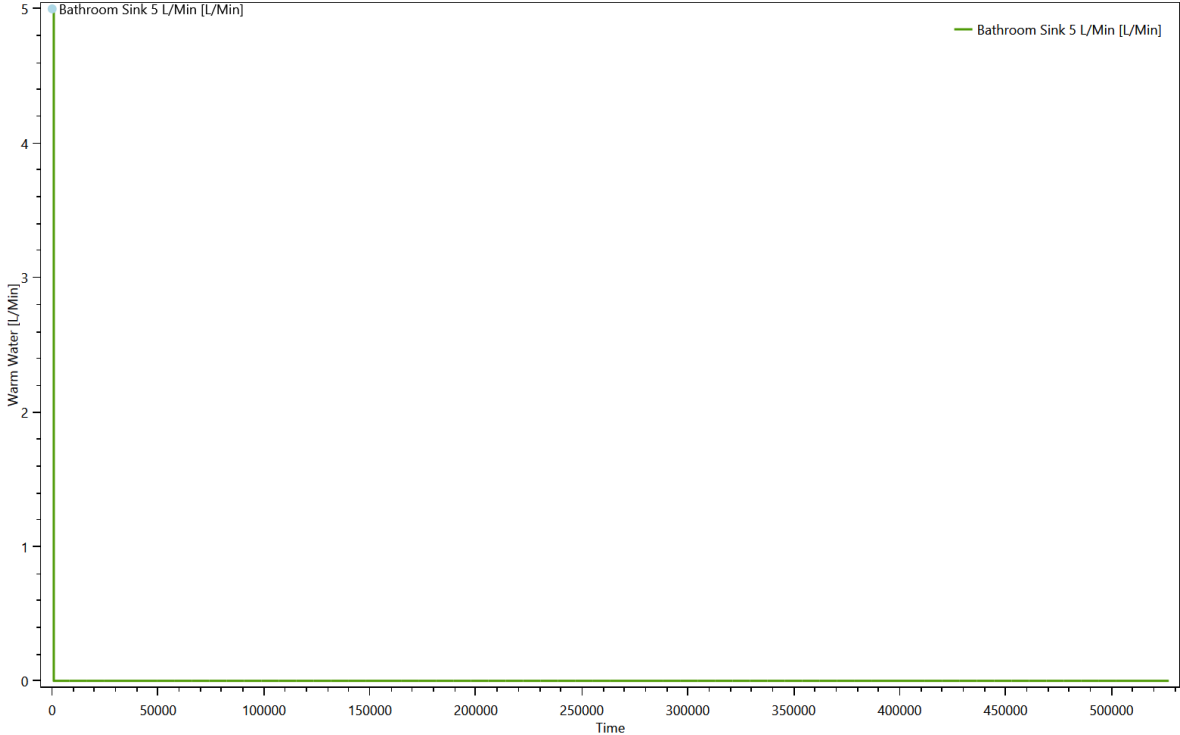
## Cold Water



# Electricity



# Warm Water

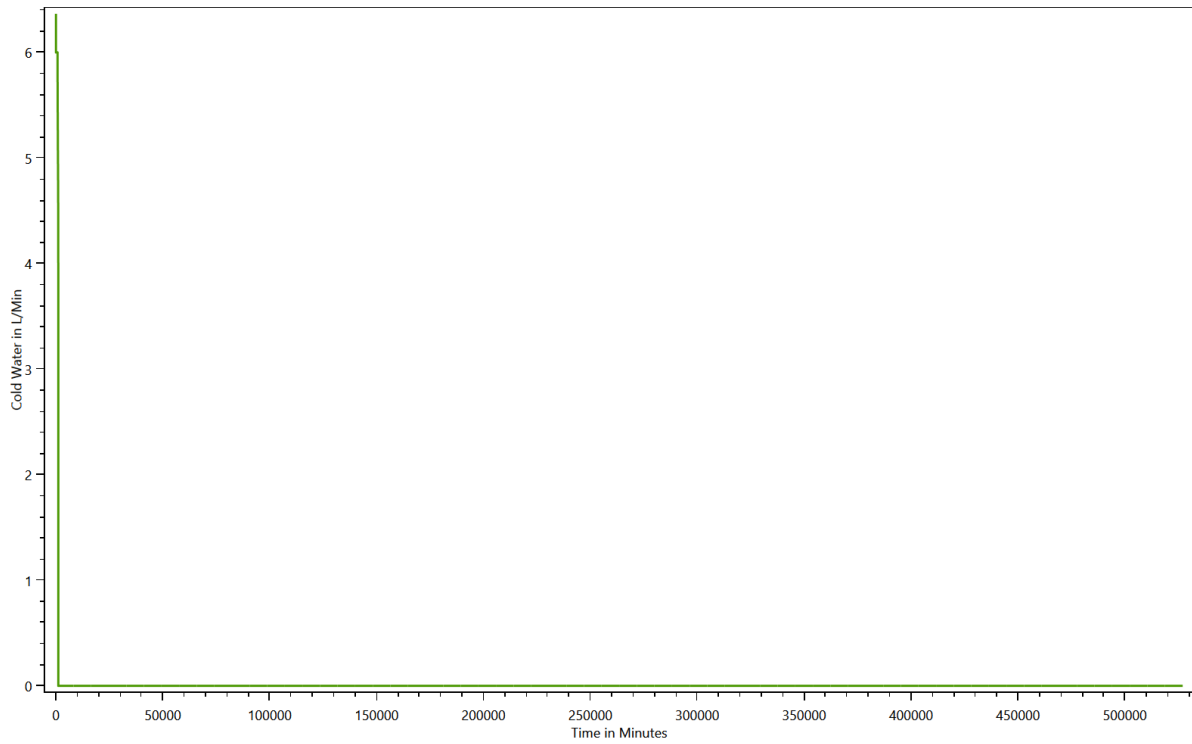


# Duration curve for each load type

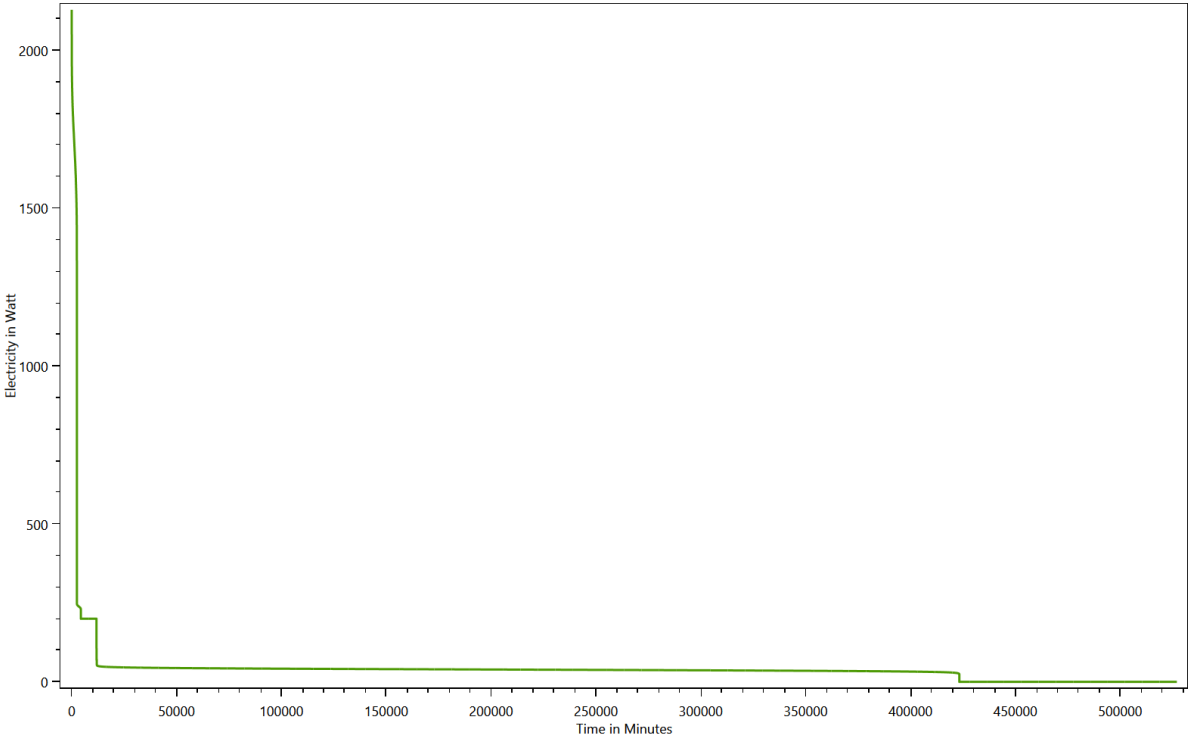
This is made from the files starting with: **DurationCurve**

The duration curve show the duration curve for the entire household to give an overview of the power consumption.

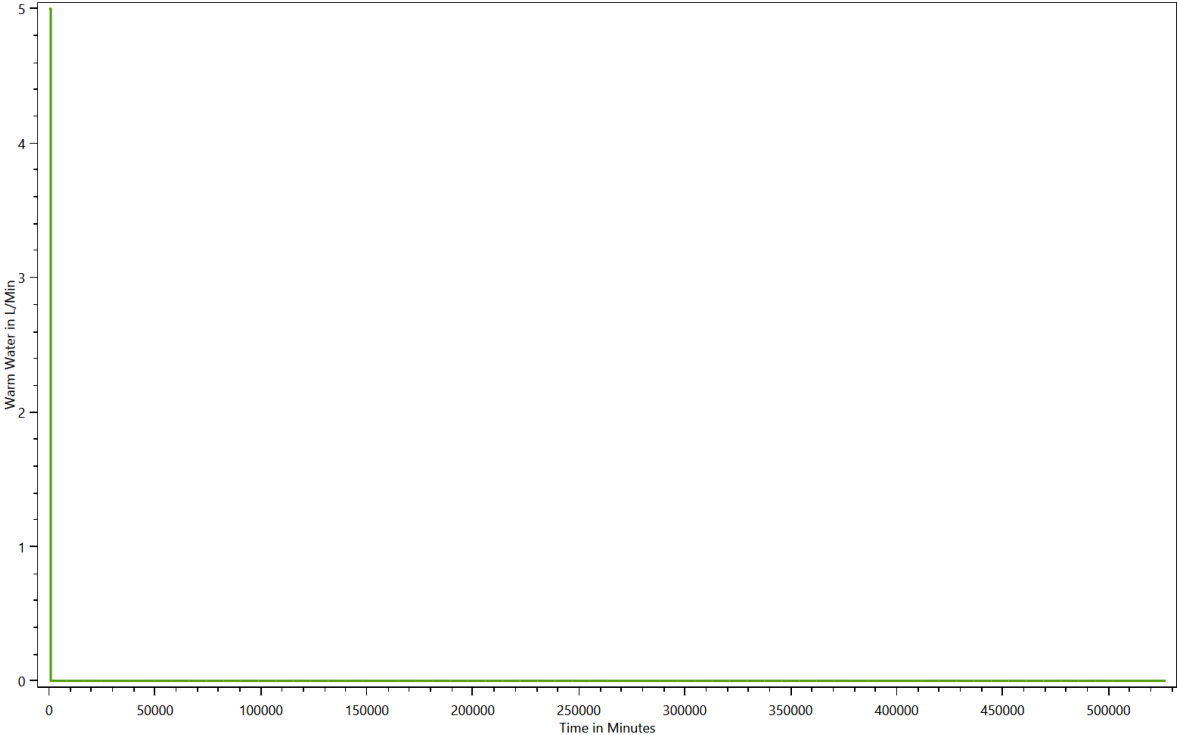
## Cold Water



# Electricity



# Warm Water

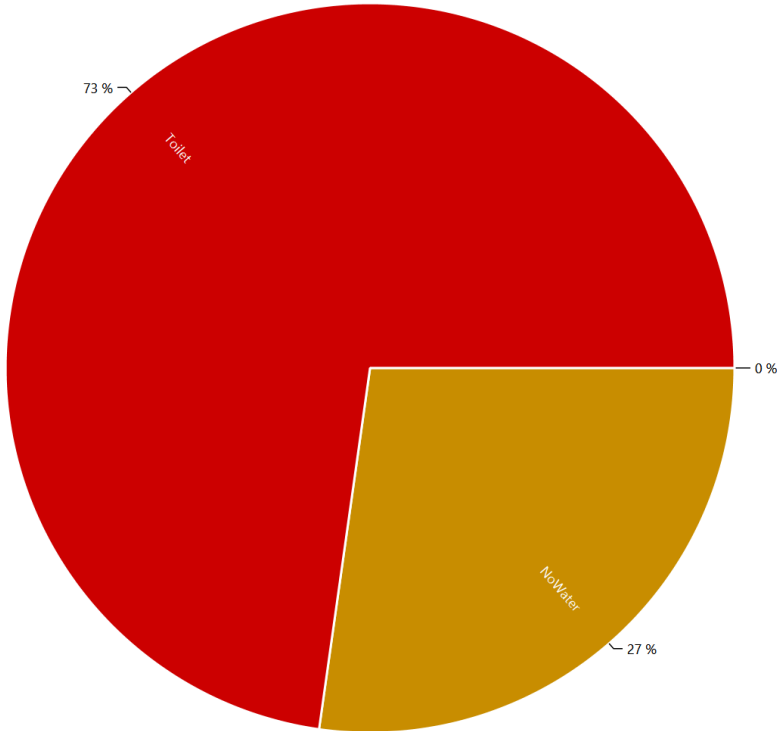


# Grouped energy use for each load type for each device

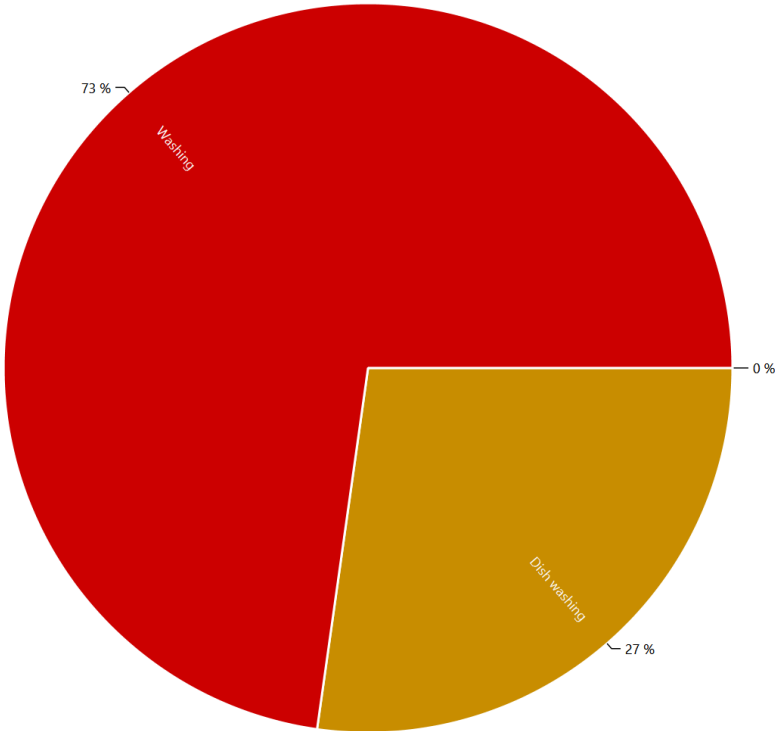
This is made from the files starting with: DeviceTaggingSet

The devices in the LPG can be grouped with various criteria by the device tagging sets. These charts show the results.

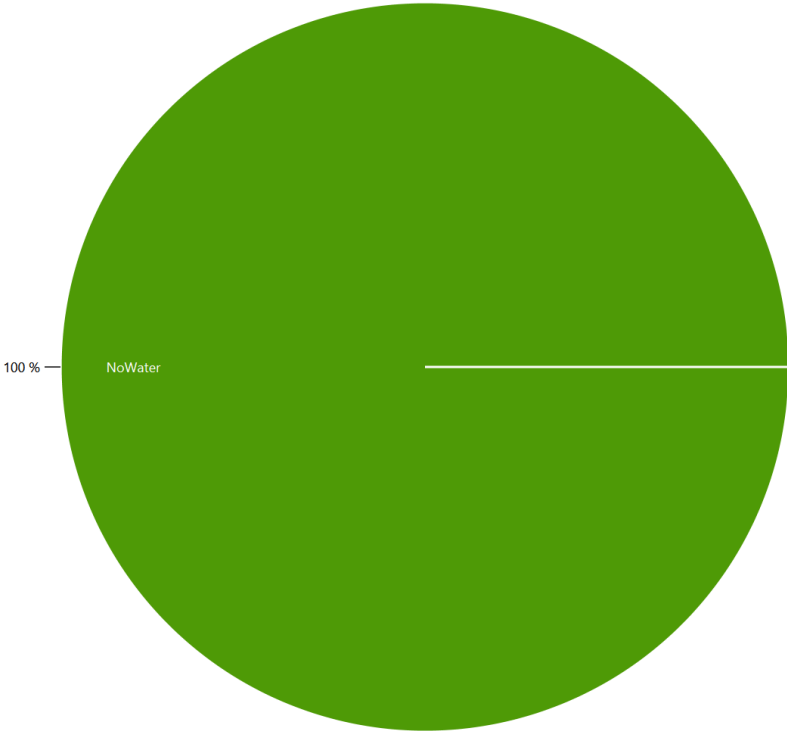
## HH0 - Destatis Water Usage Statistics - Cold Water



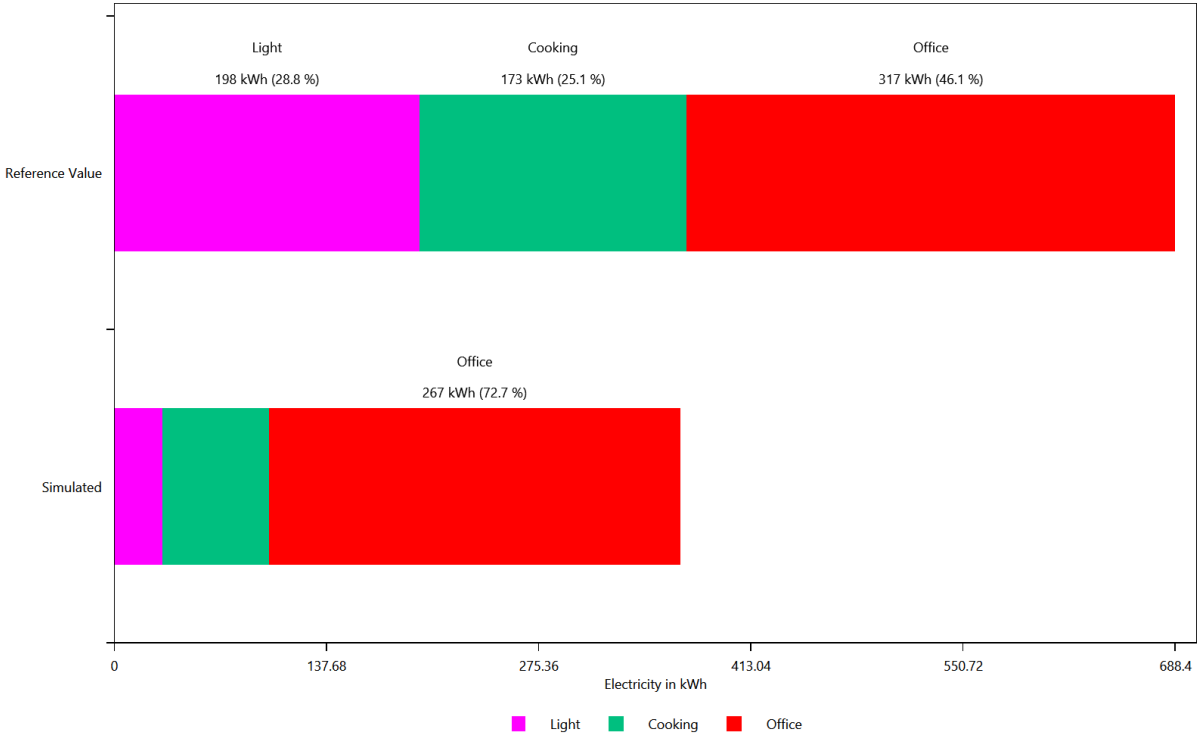
HH0 - Energieagentur - Cold Water



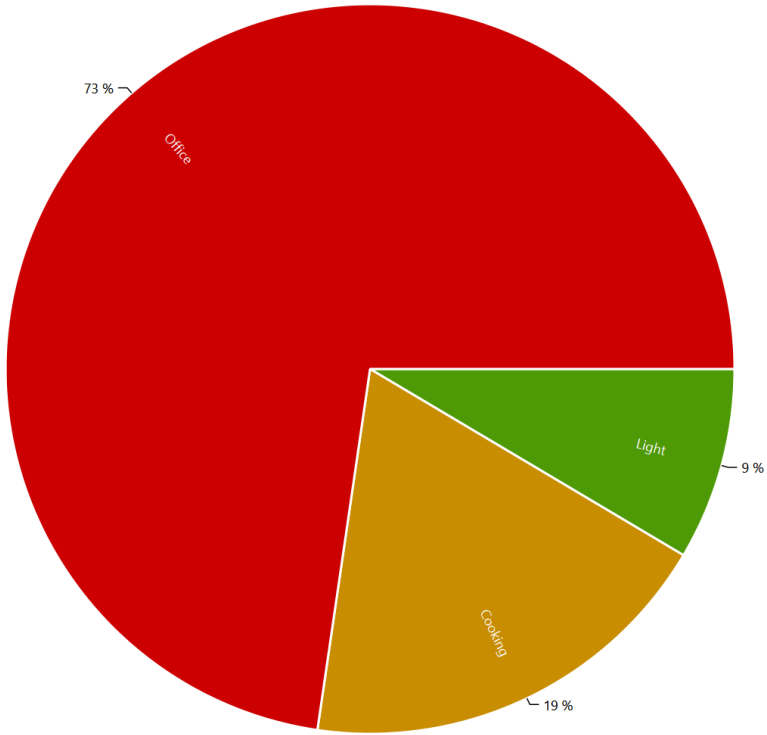
HH0 - Destatis Water Usage Statistics - Electricity



# HH0 - Energieagentur - Electricity

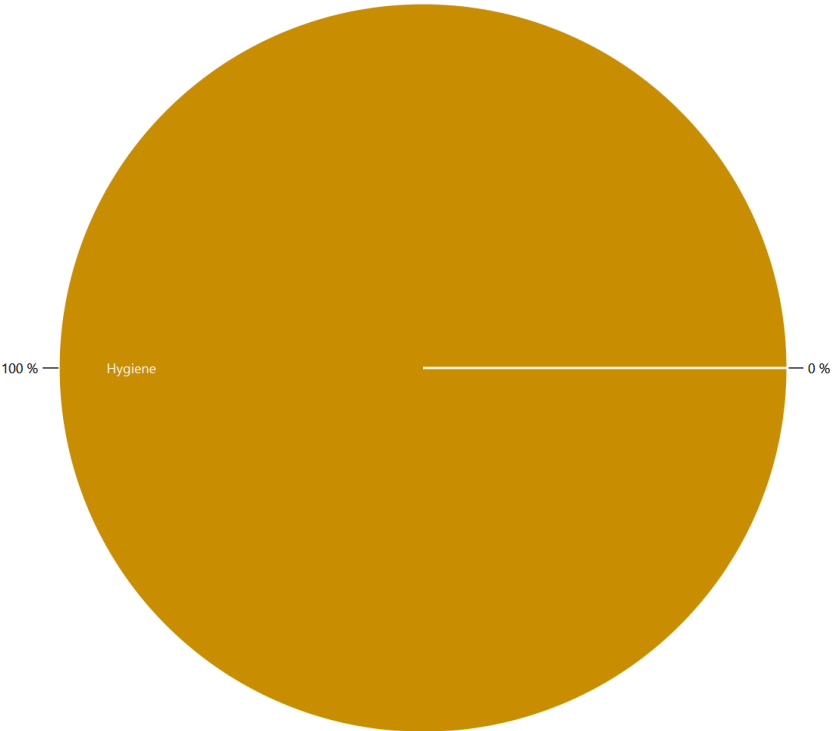


# HH0 - Energieagentur - Electricity

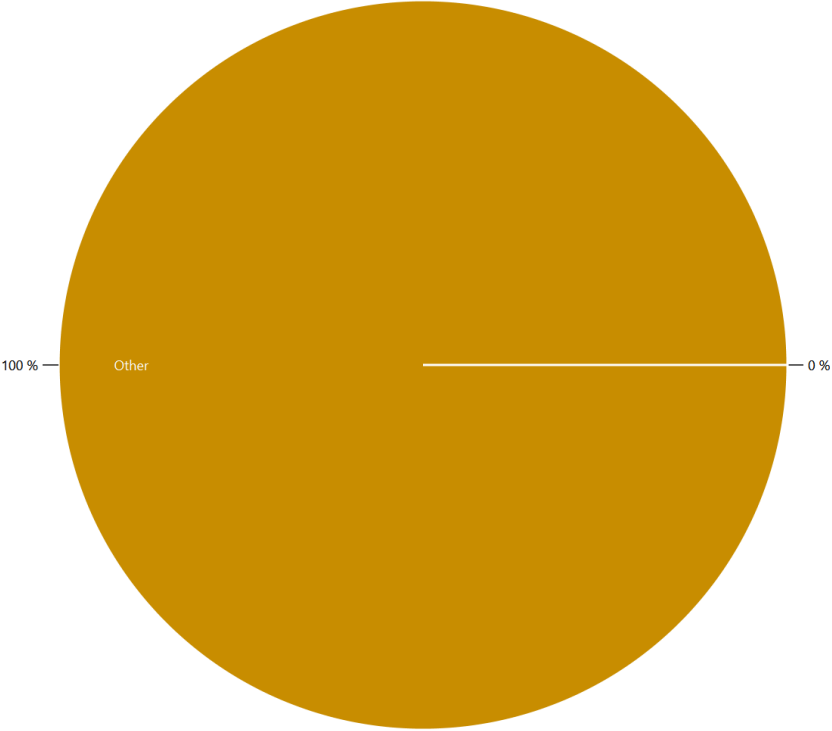




HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

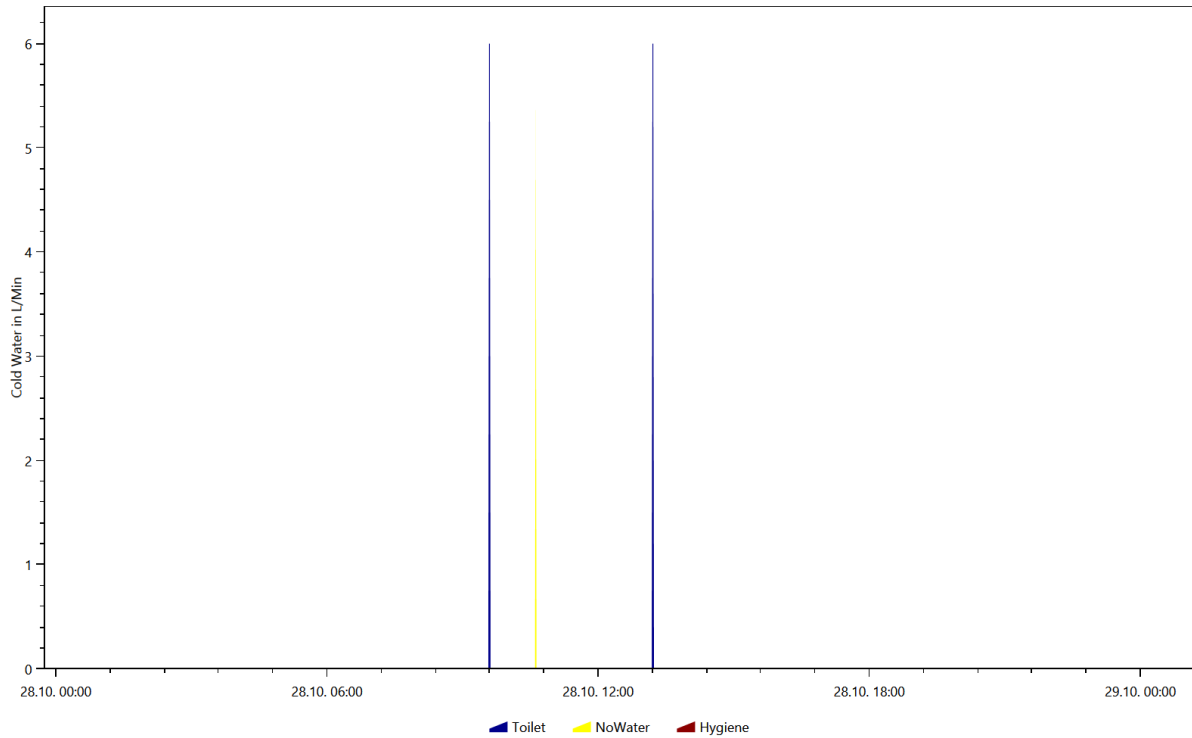


# Example of the device profiles for each load type

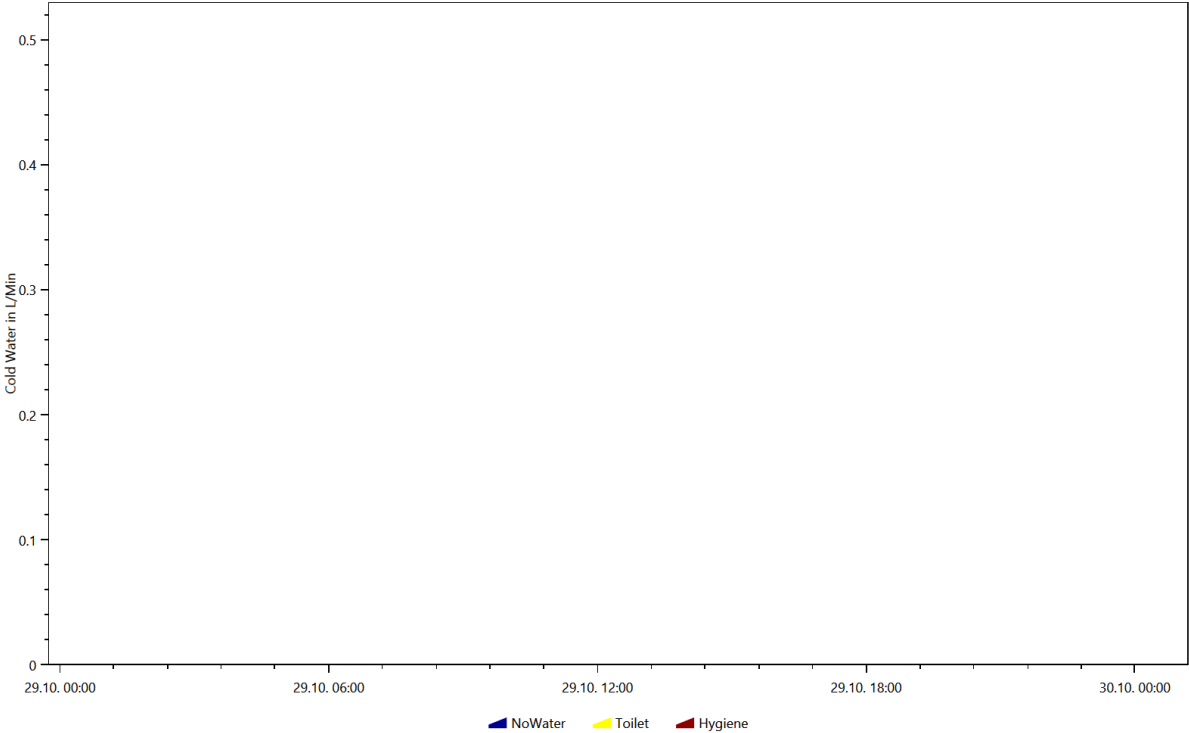
This is made from the files starting with: DeviceProfiles

The device profile files are the reason for the LPG. They show the power consumption of each device.

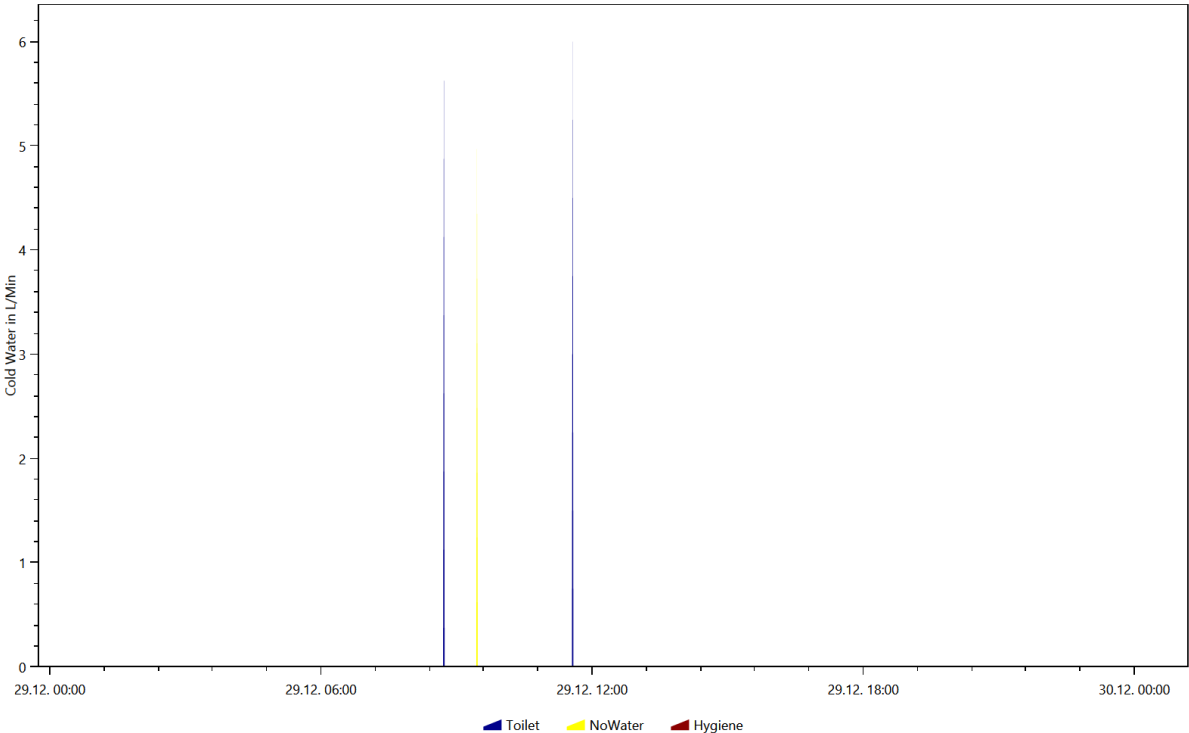
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.28



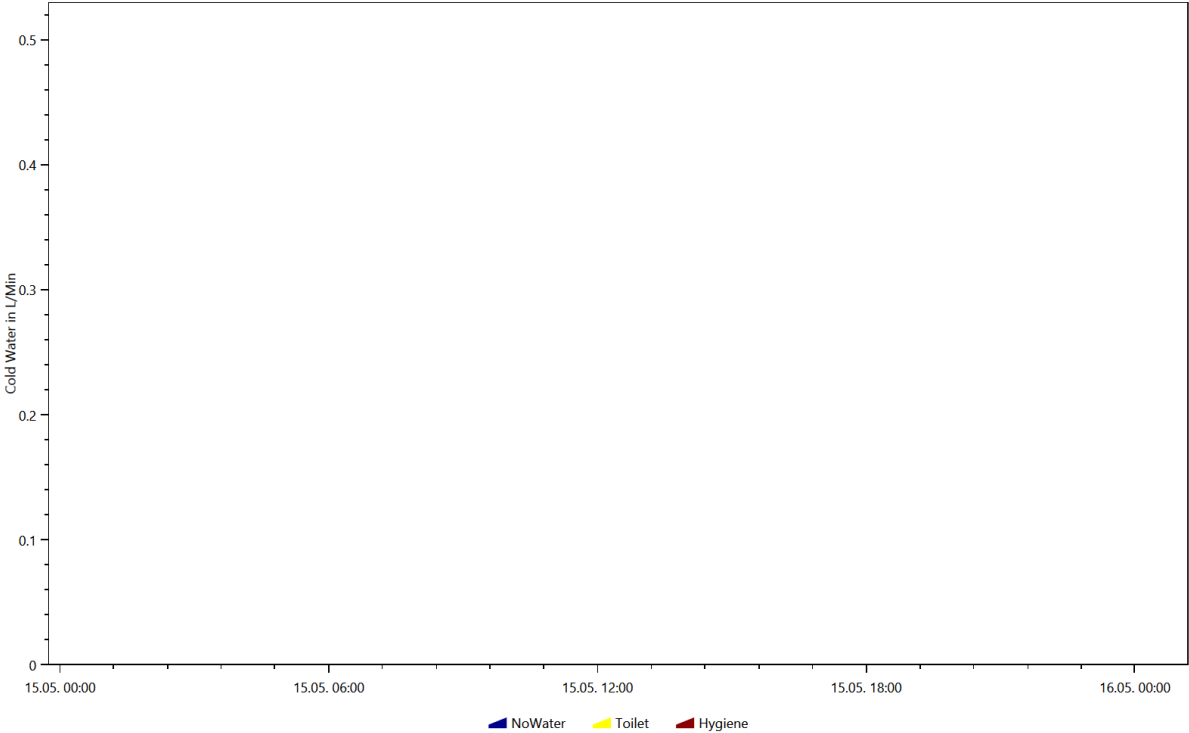
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.29



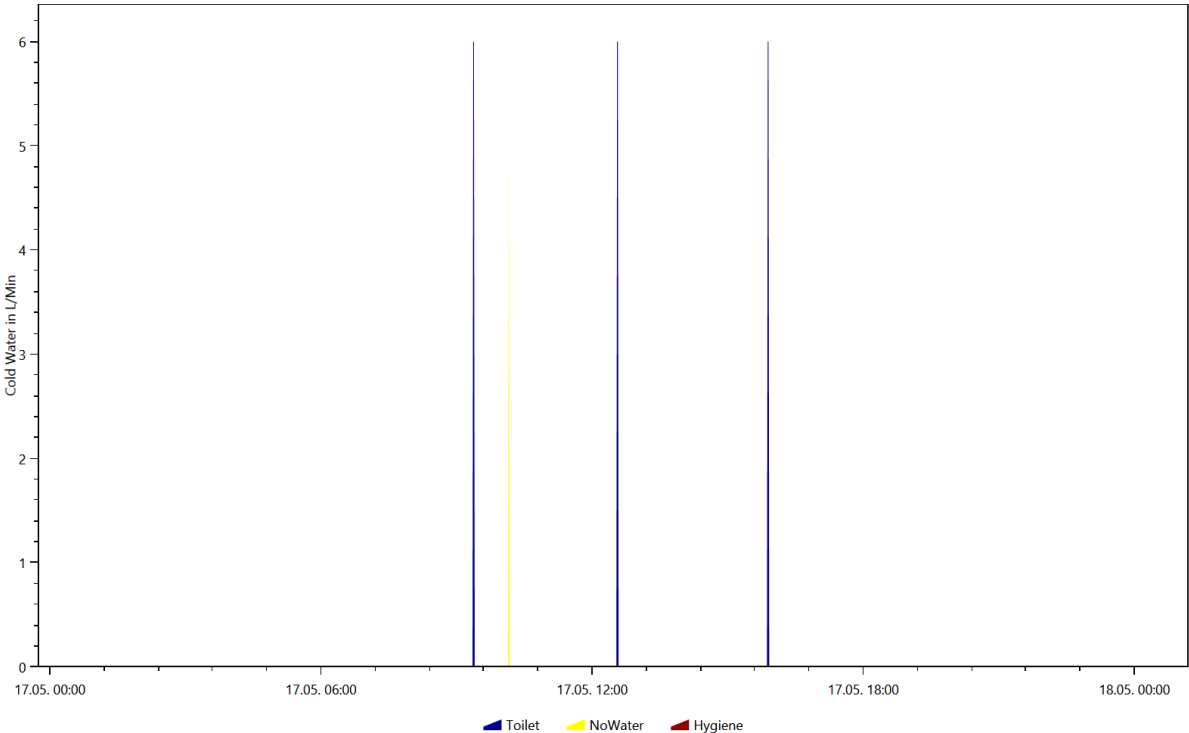
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.29



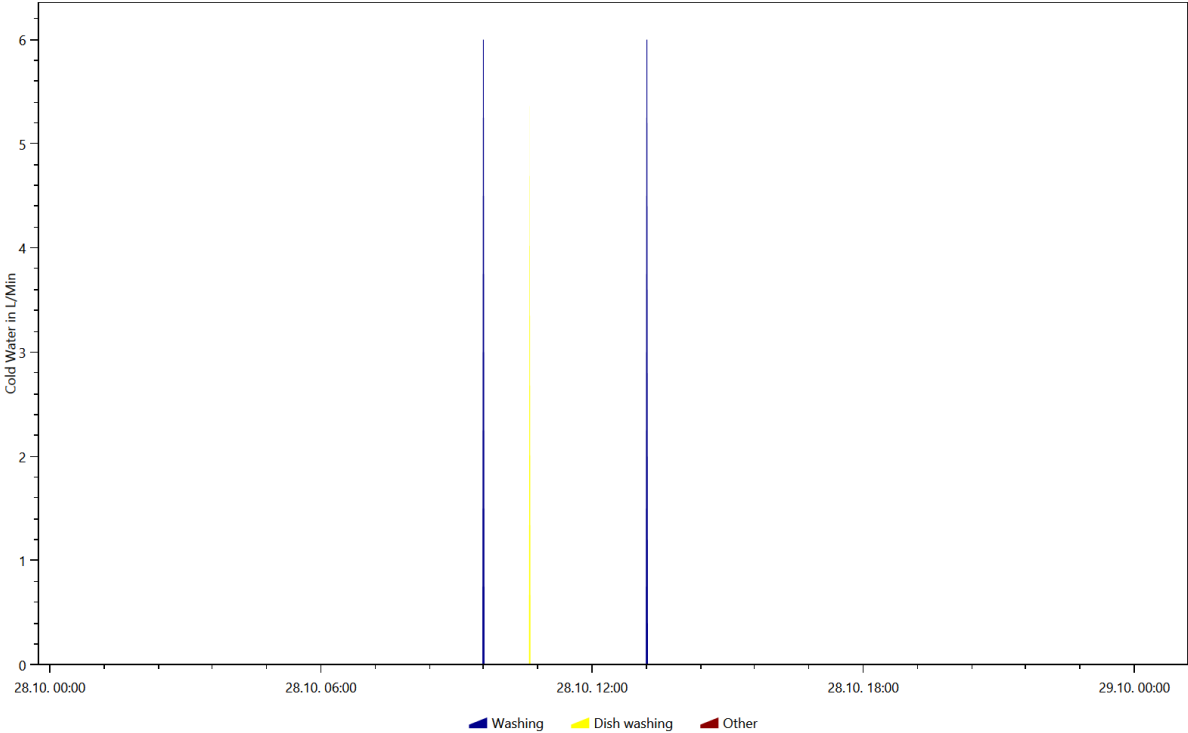
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.15



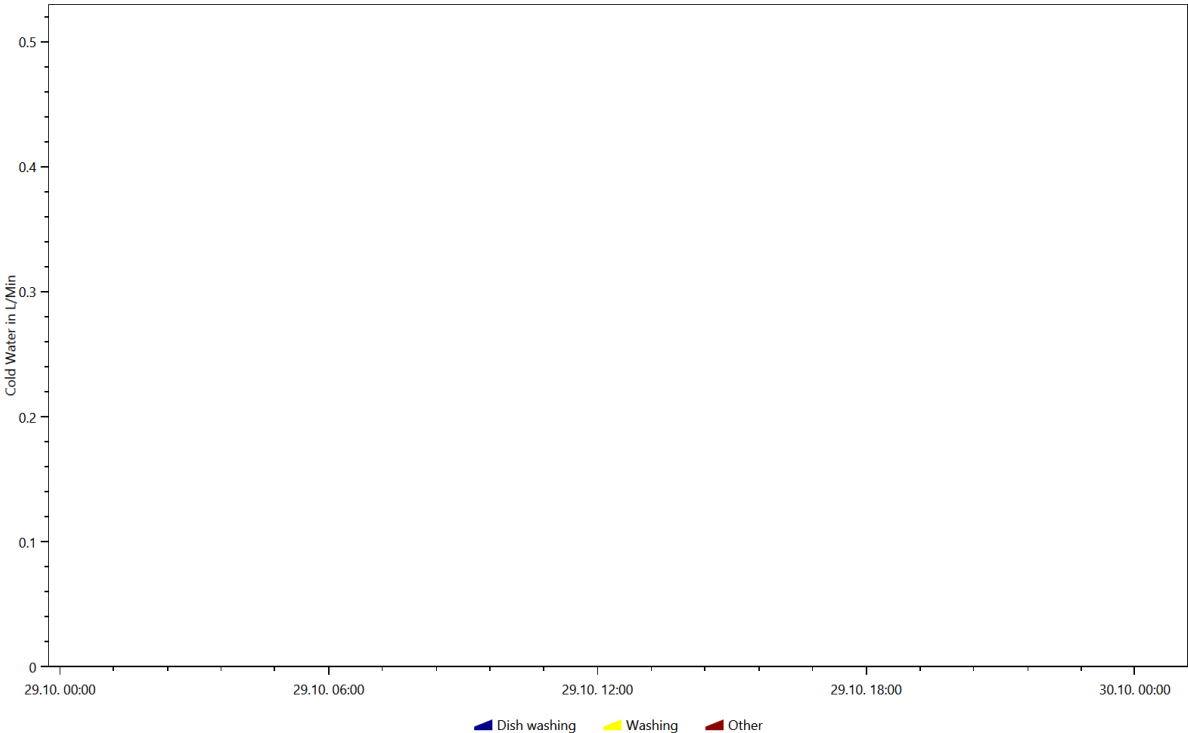
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.17



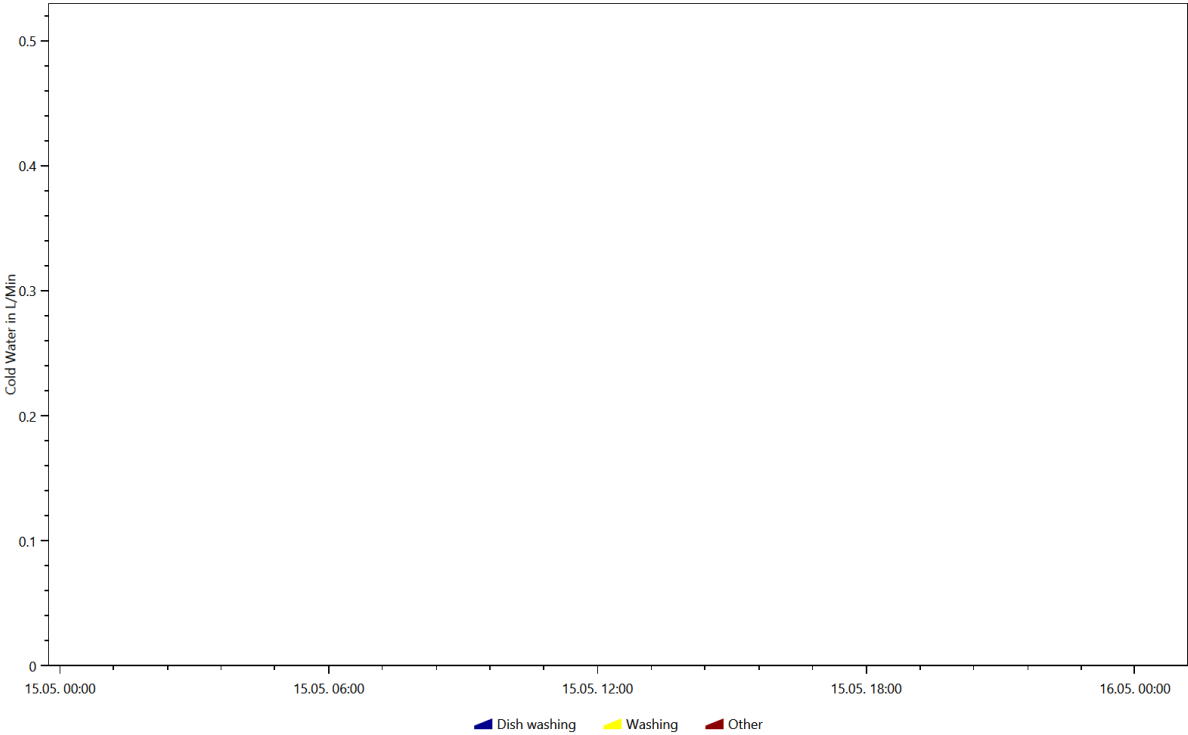
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.28



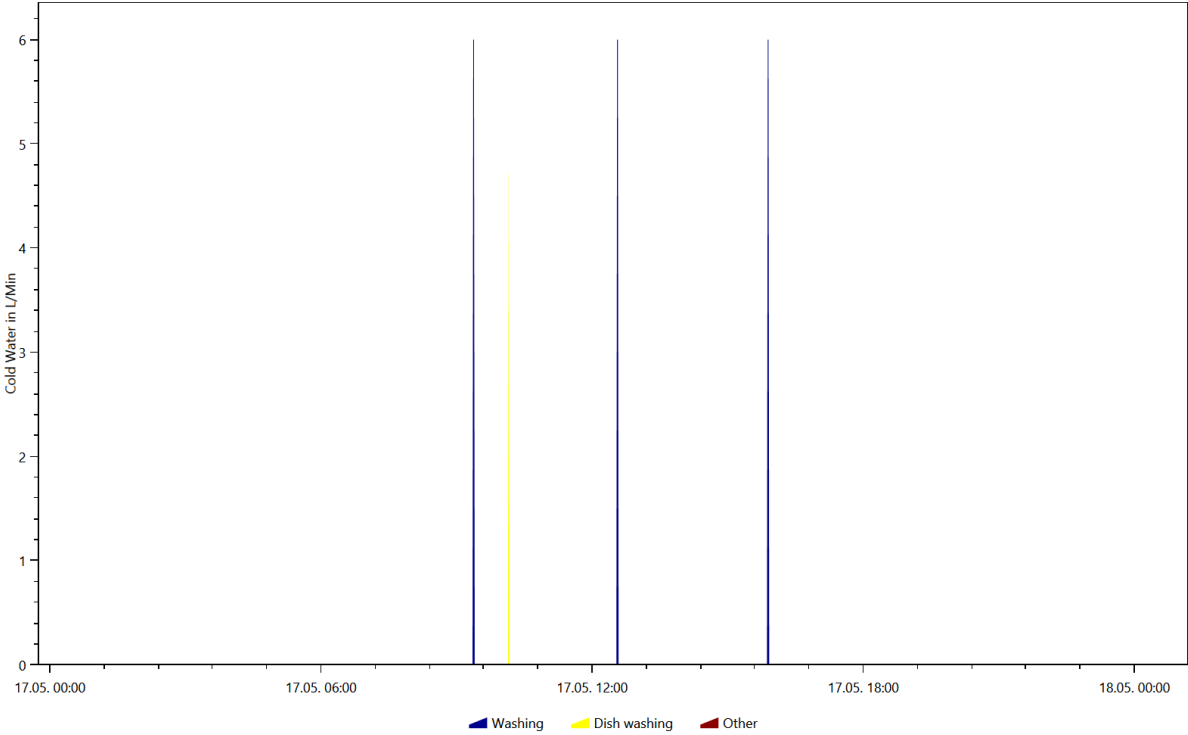
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.29



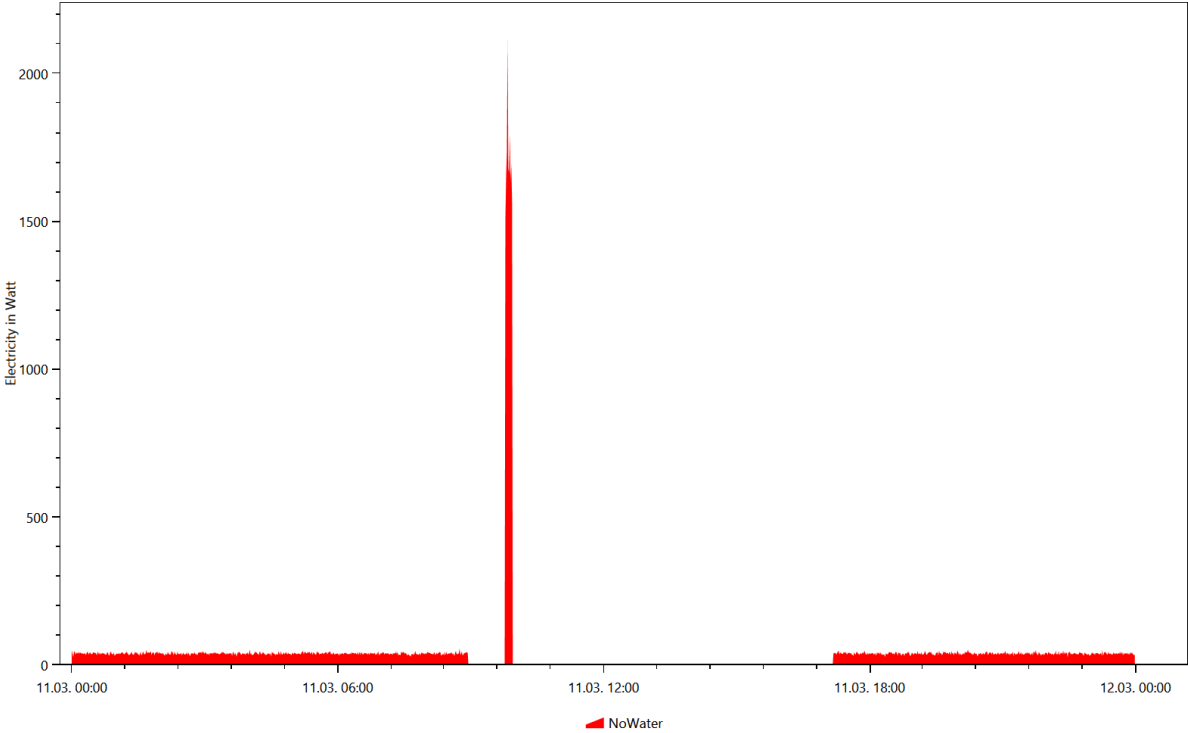
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.15



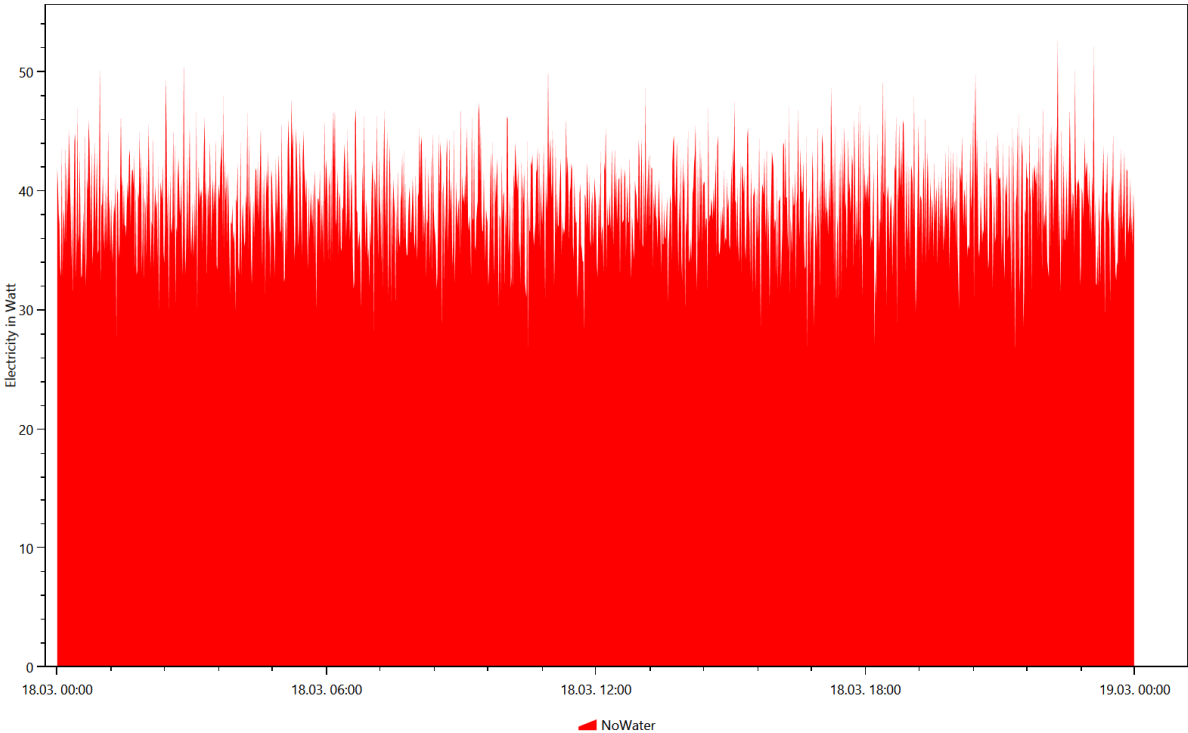
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.17



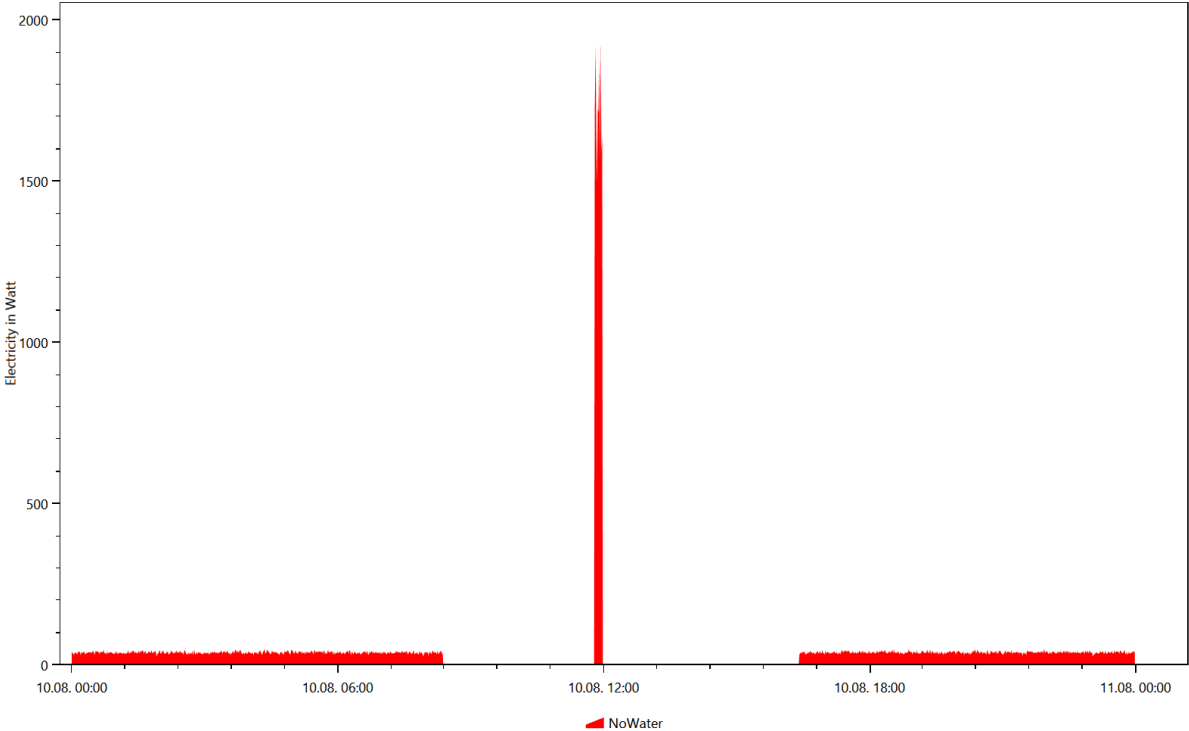
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.11



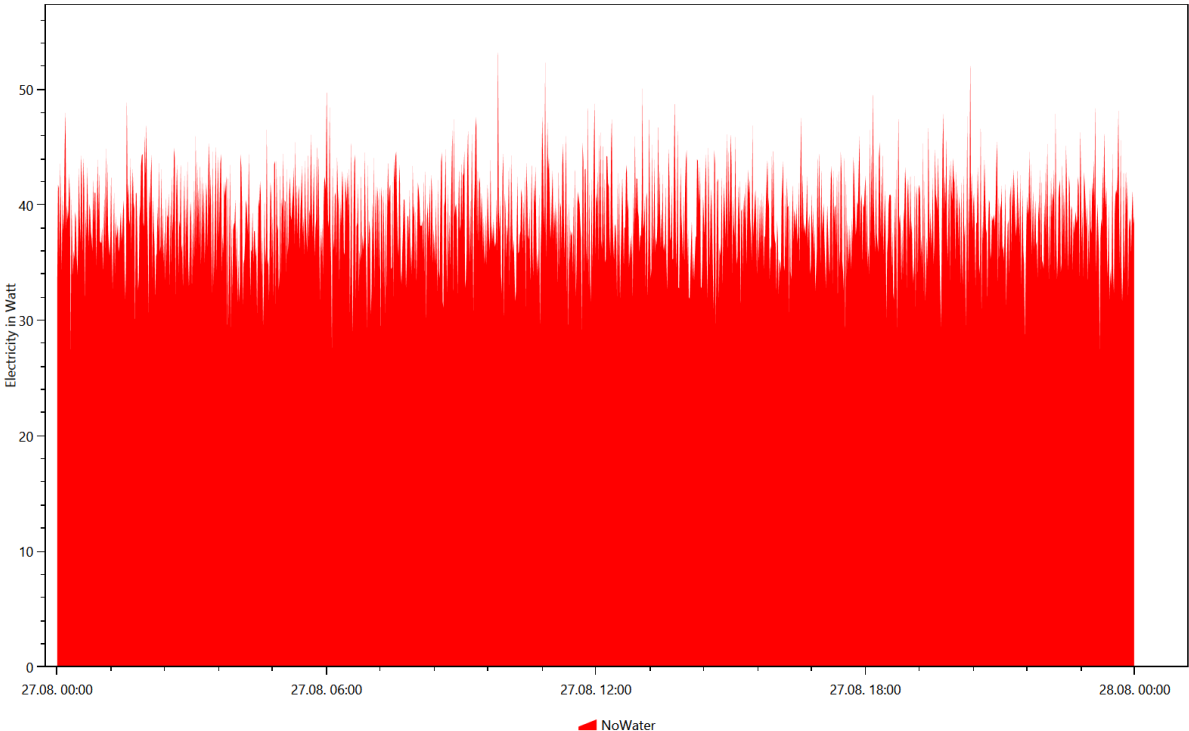
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.18



Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.10

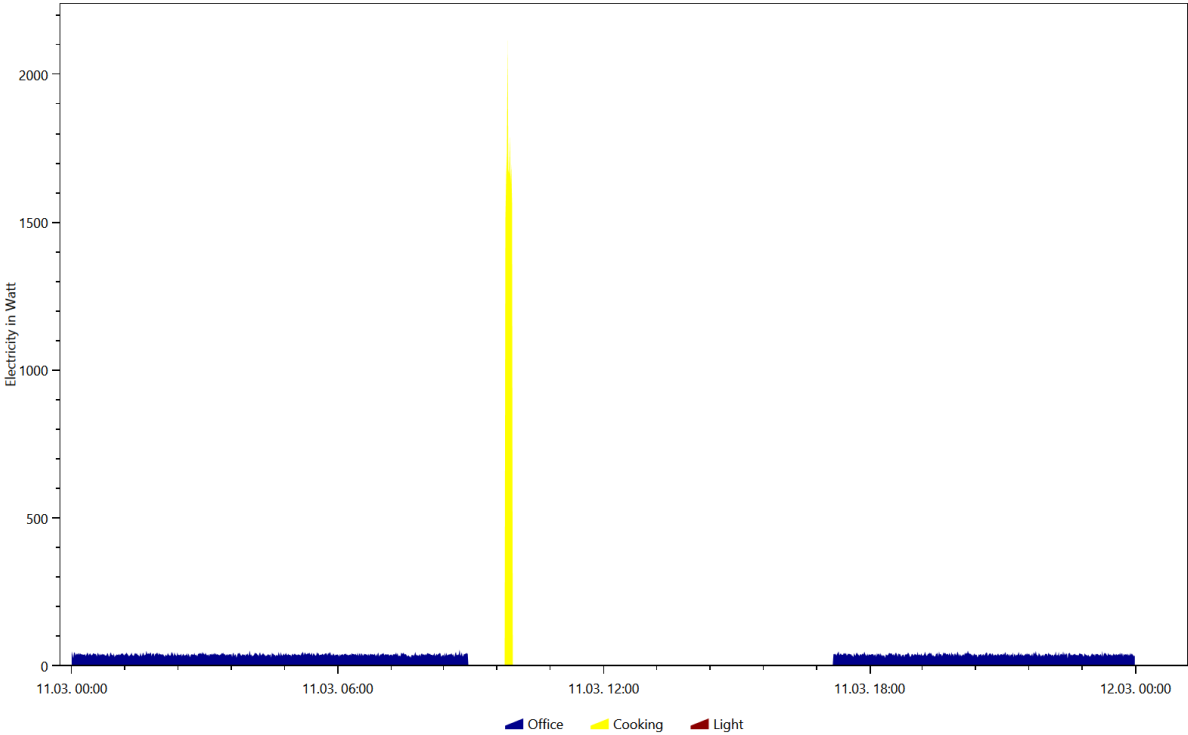


Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.27

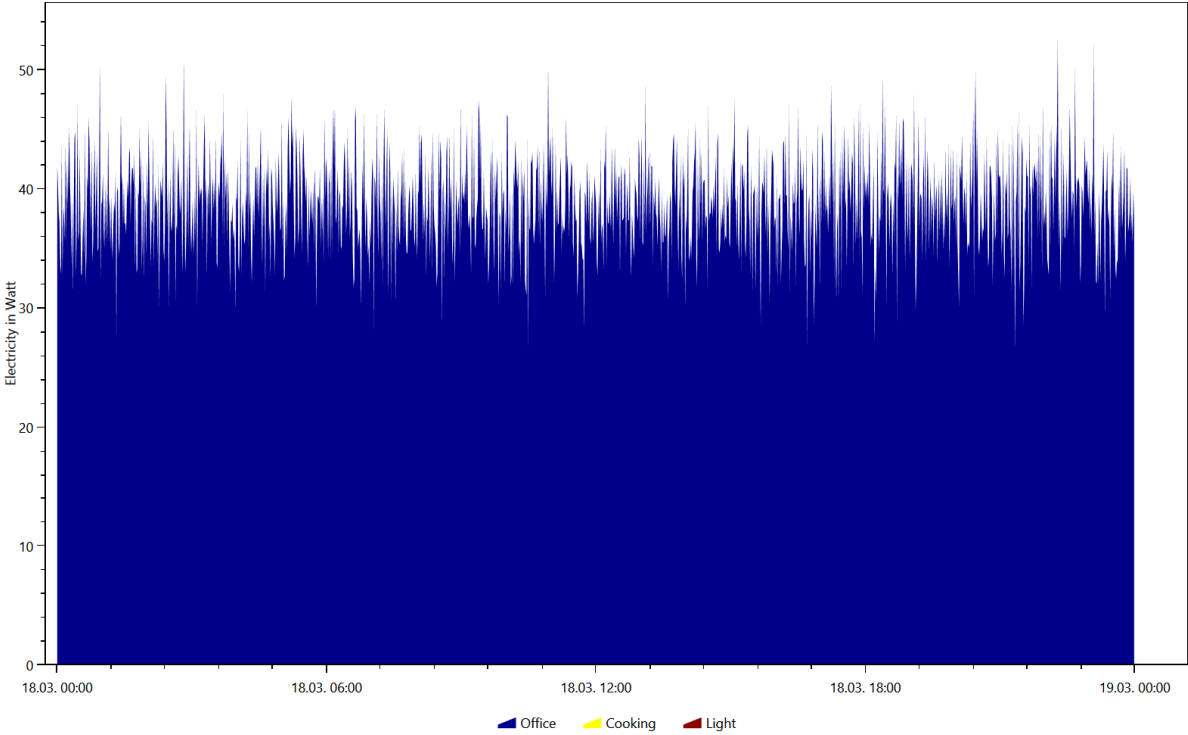




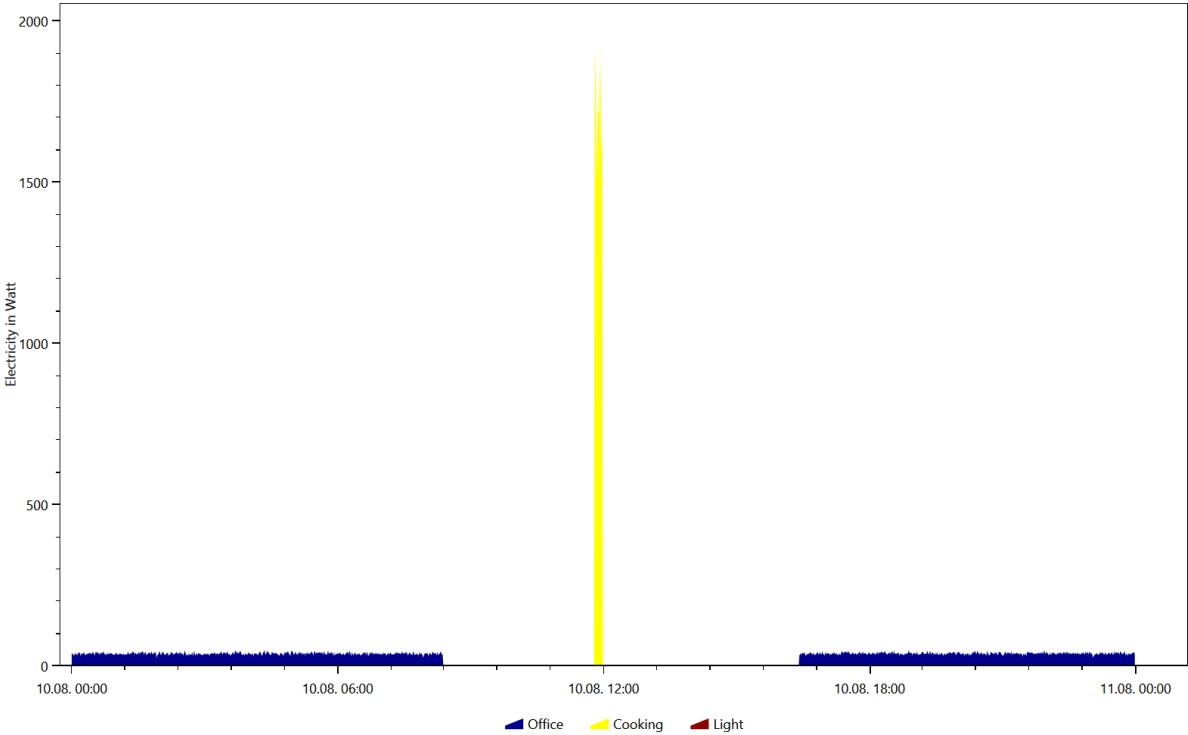
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.11



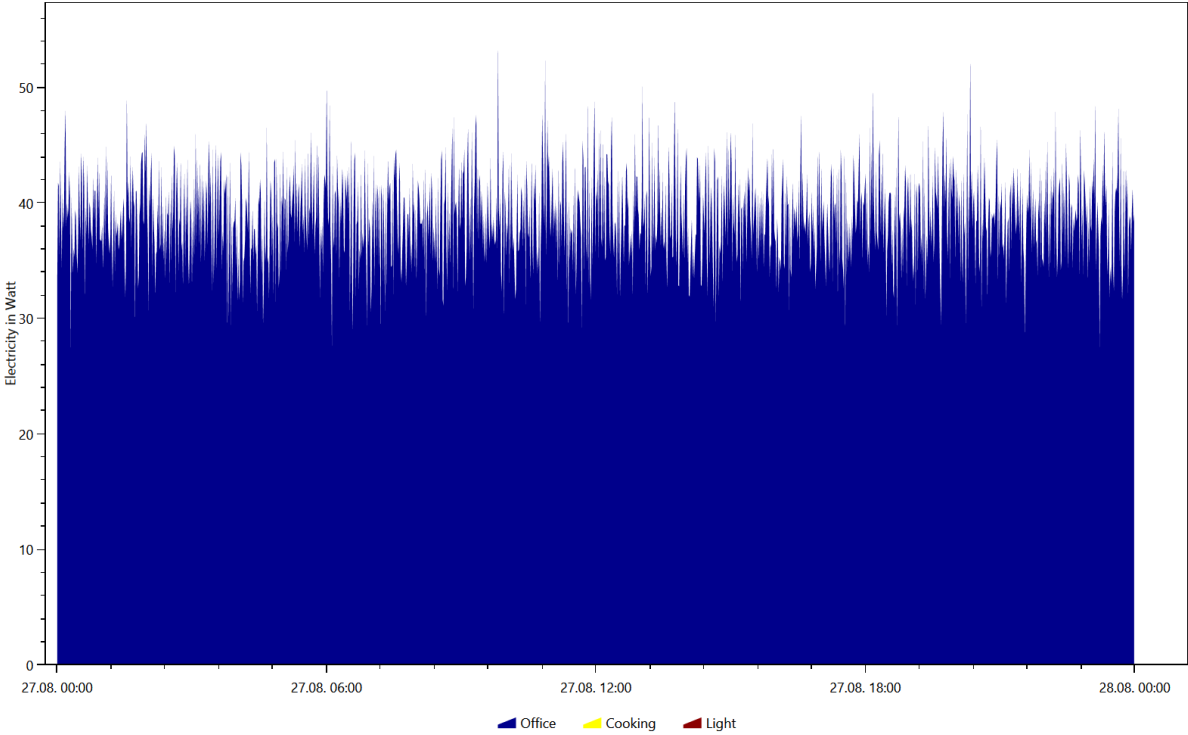
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.18



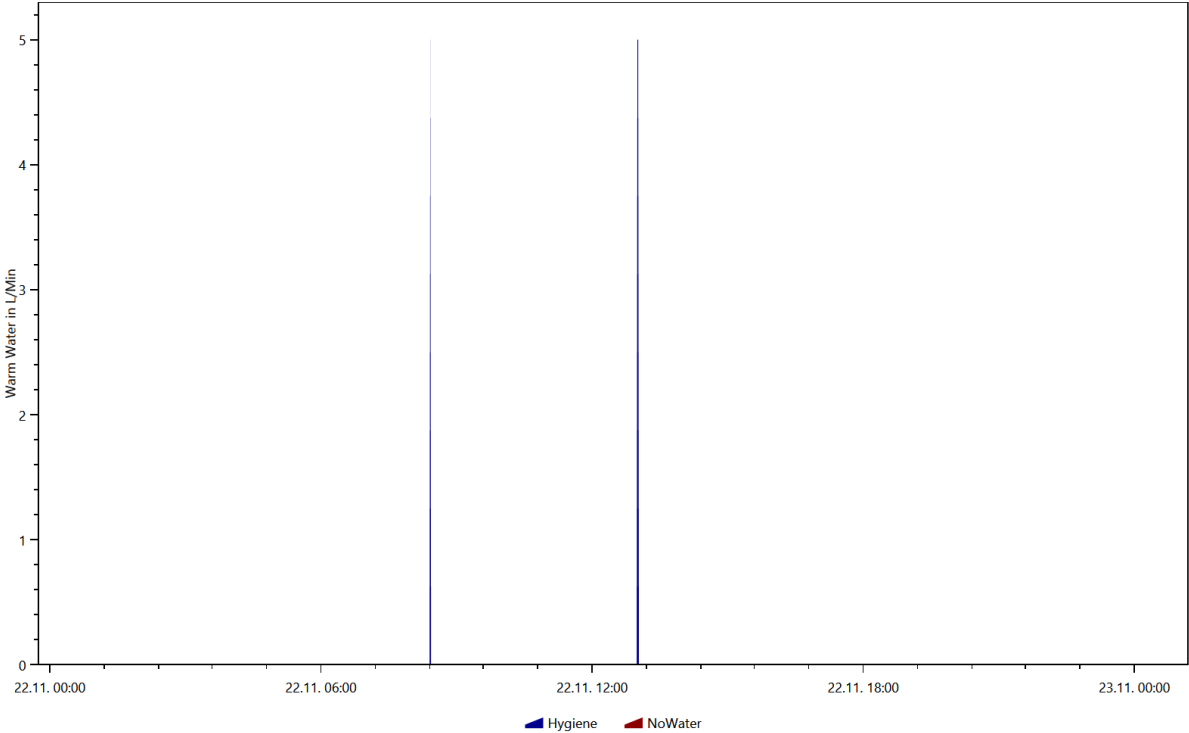
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.10



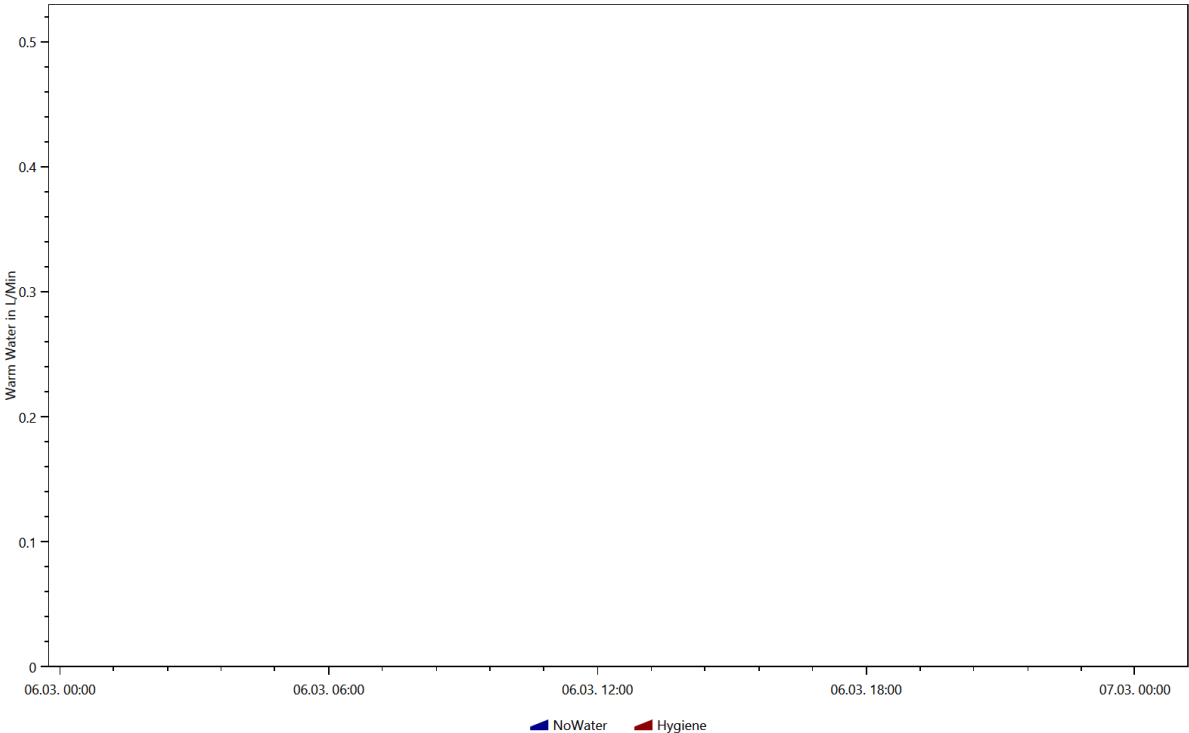
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.27



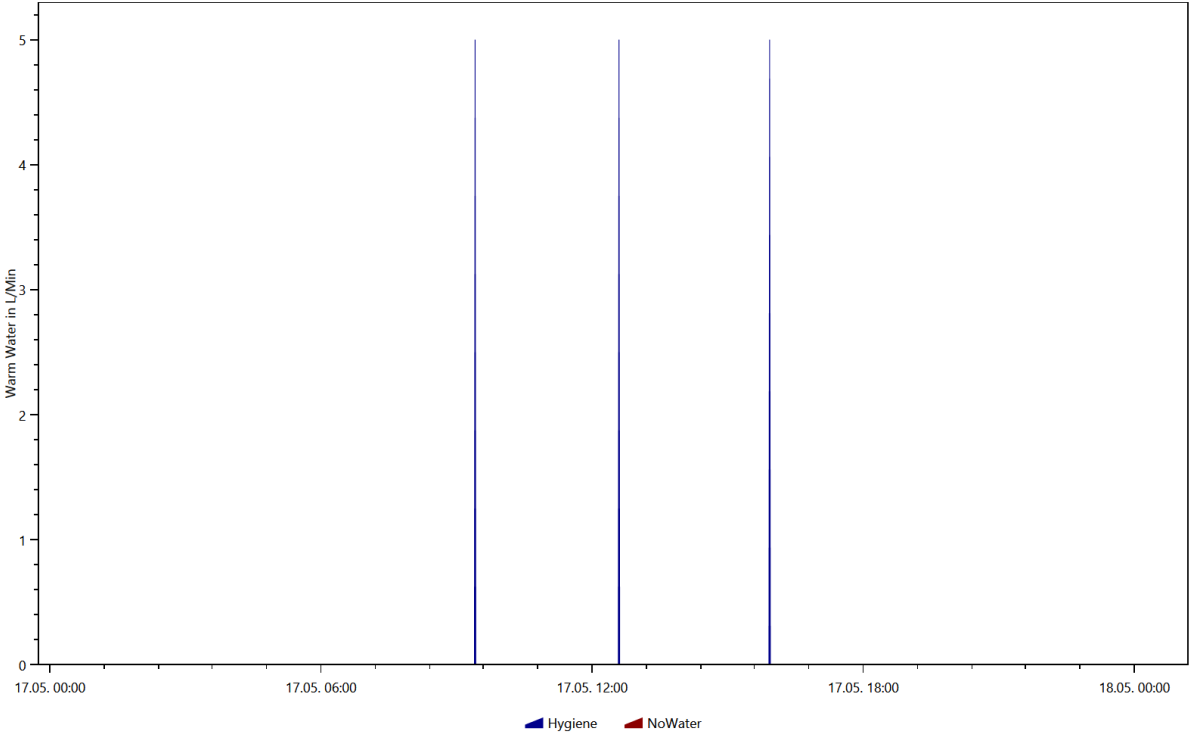
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.22



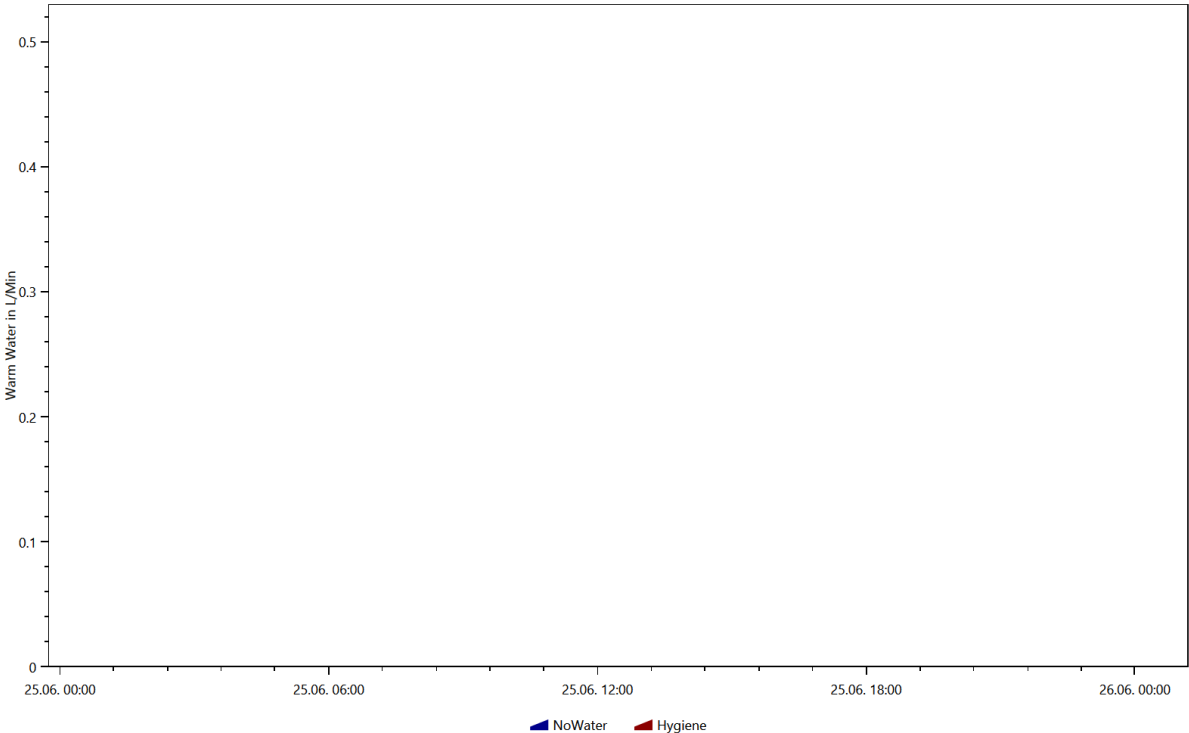
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.6



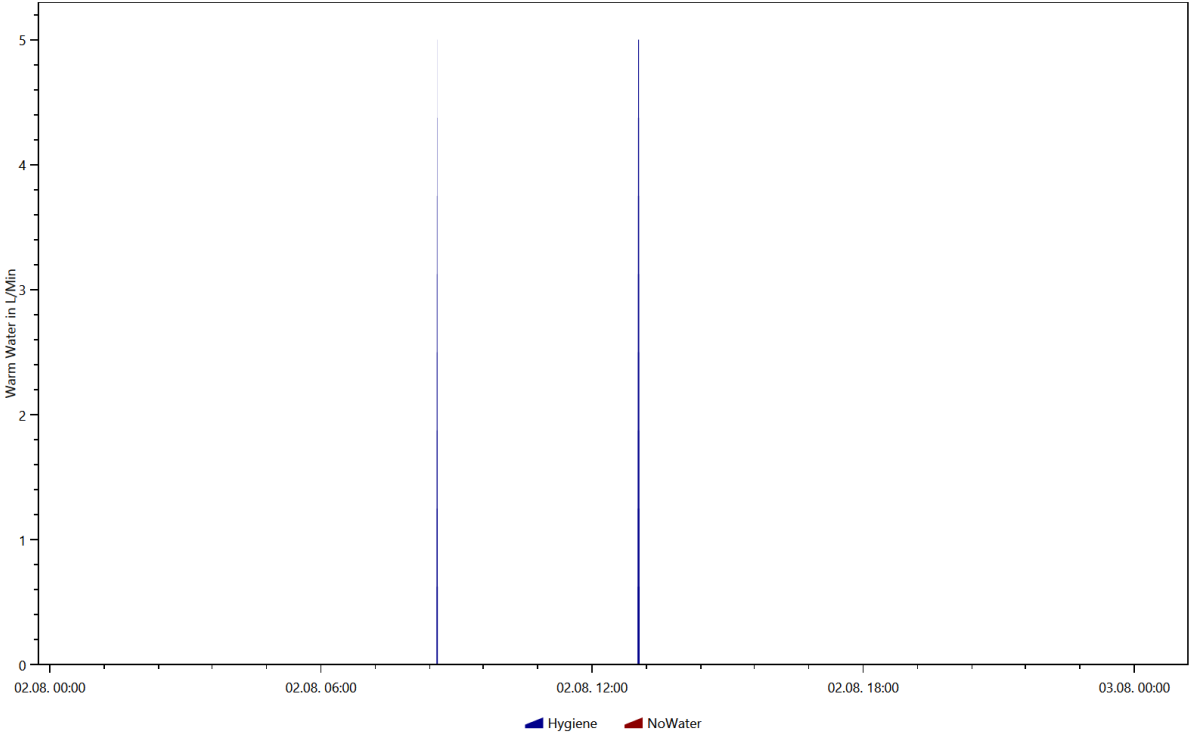
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.17



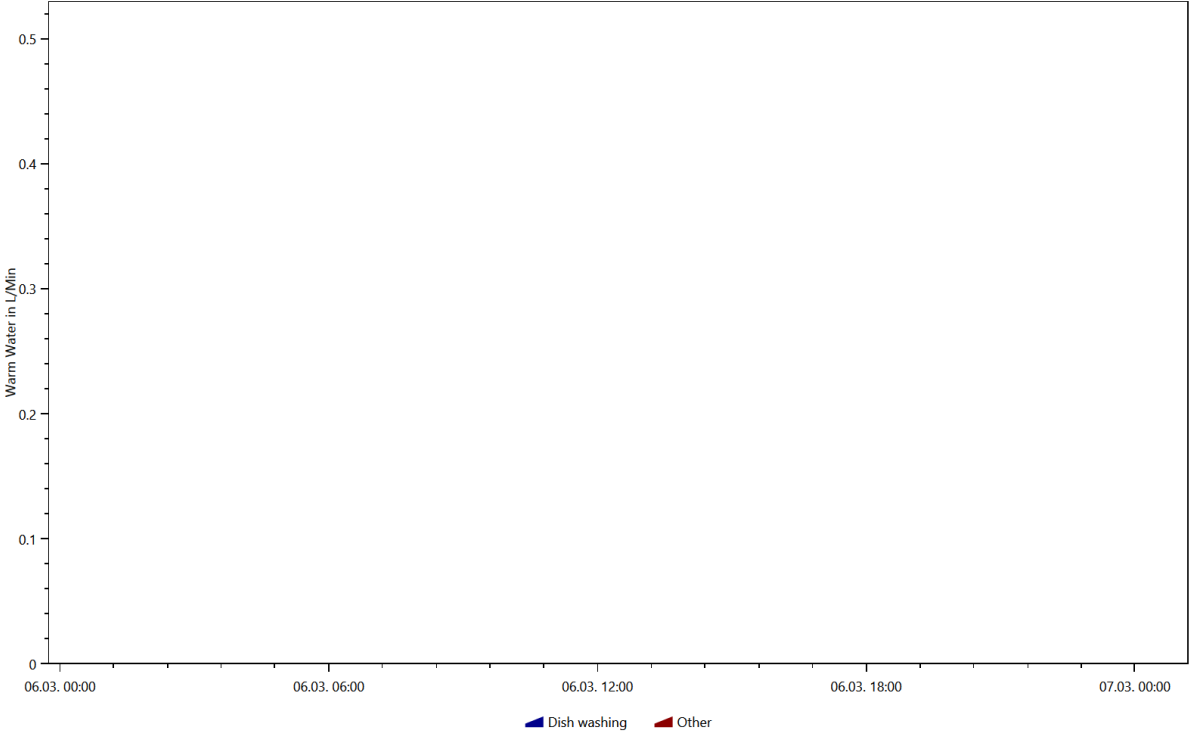
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.25



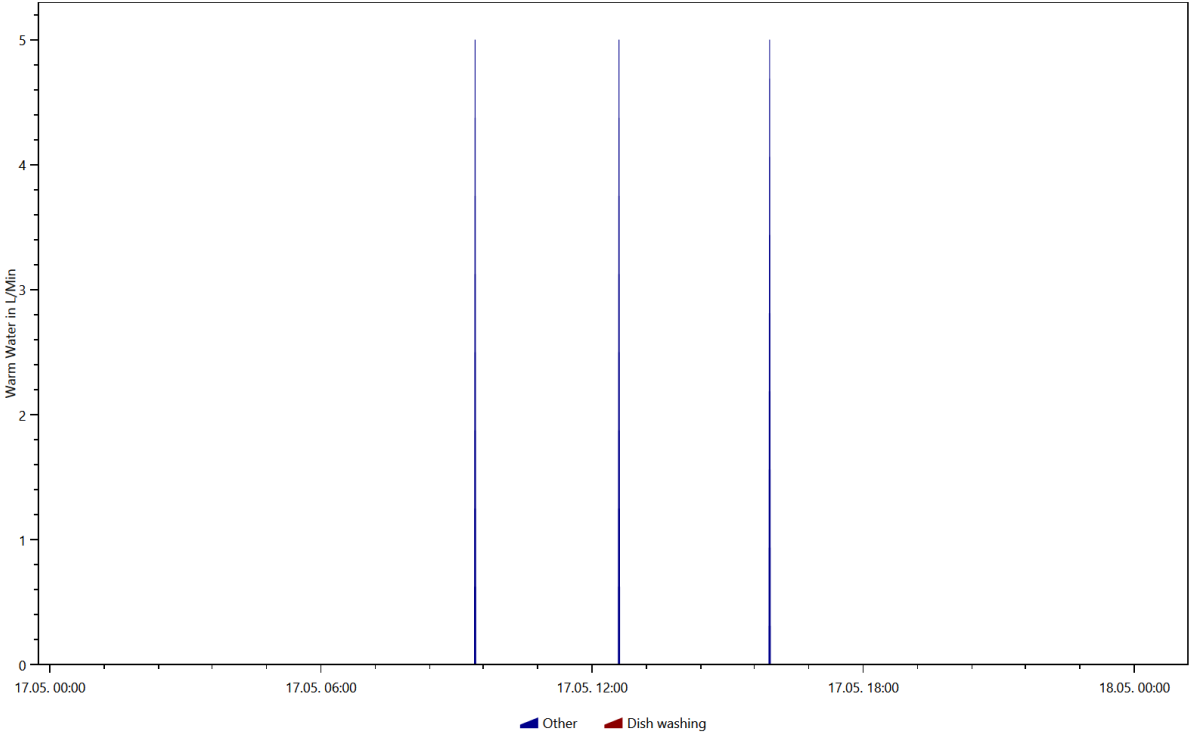
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.2



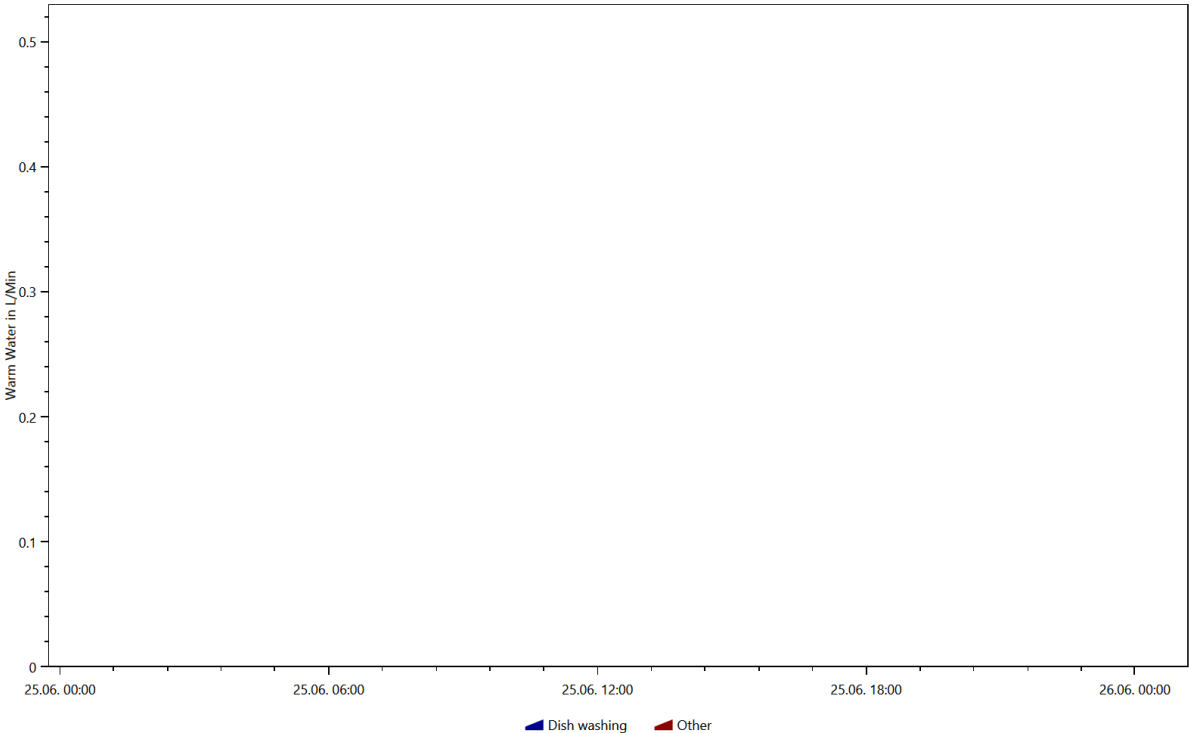
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.6



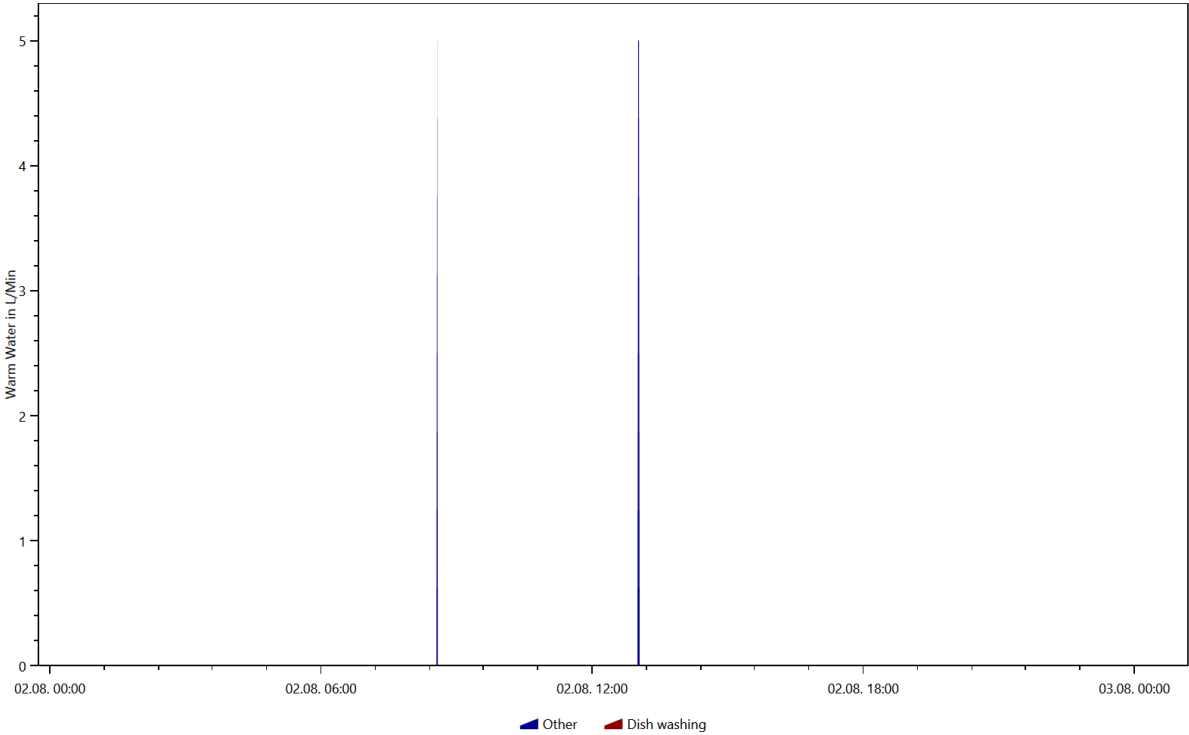
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.17



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.25



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.2

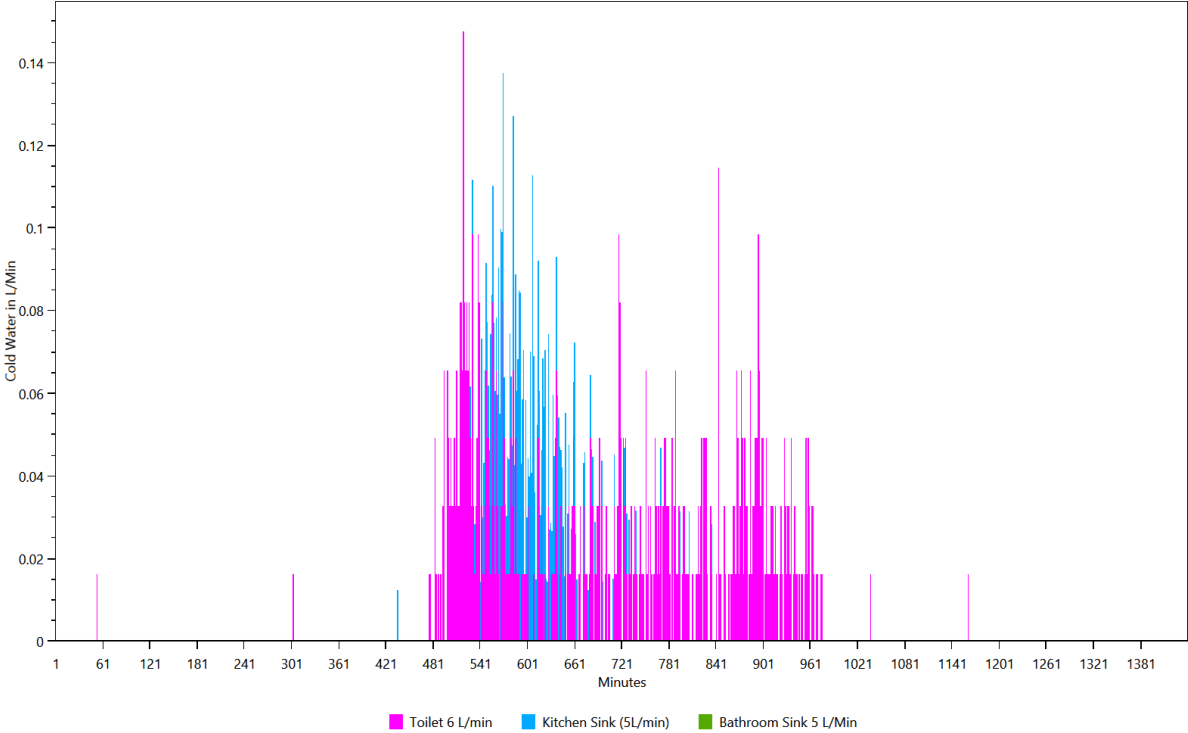


# Overview of the time and power of the use per load type per device

This is made from the files starting with: TimeOfUseEnergyProfiles

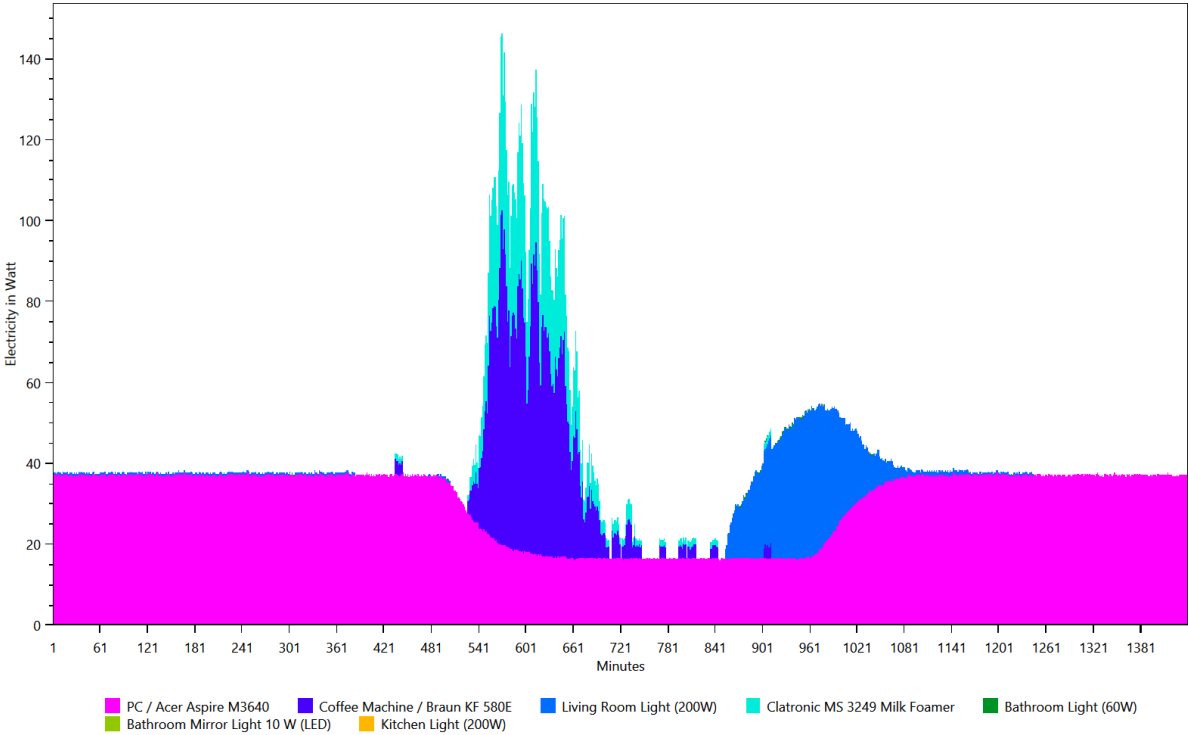
The time of use energy profiles show when each device was used and how much power it used.

## Cold Water

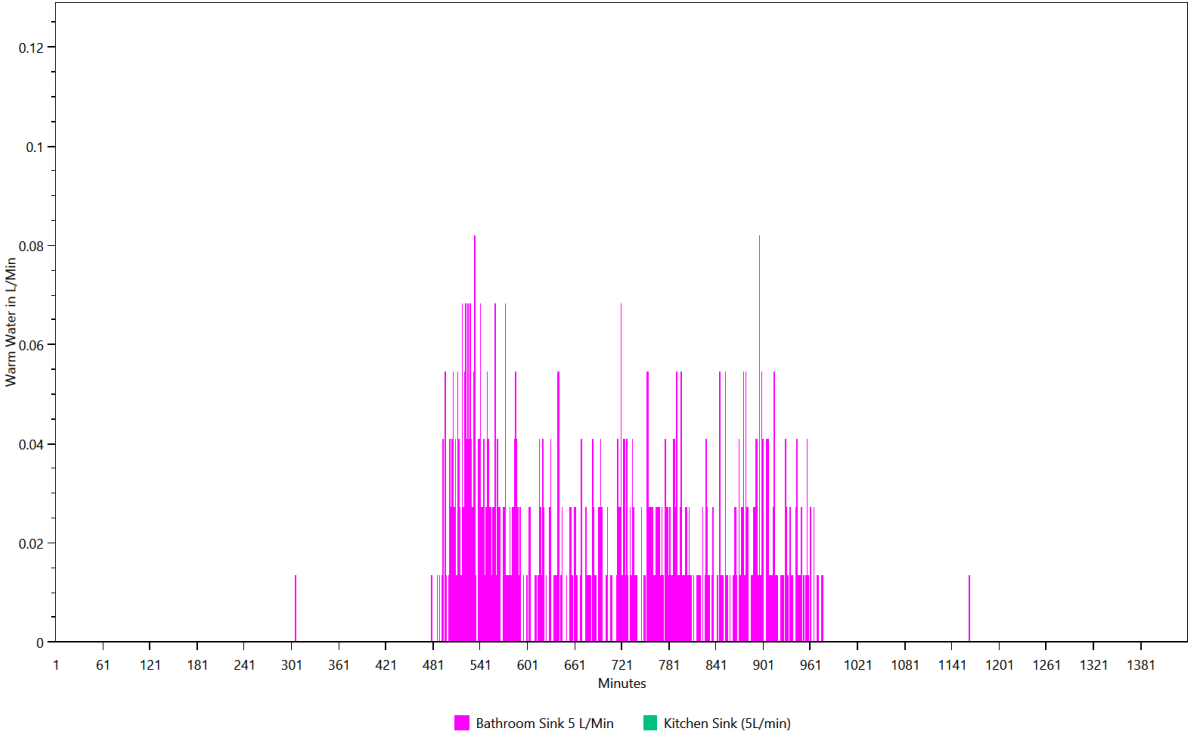




# Electricity



# Warm Water

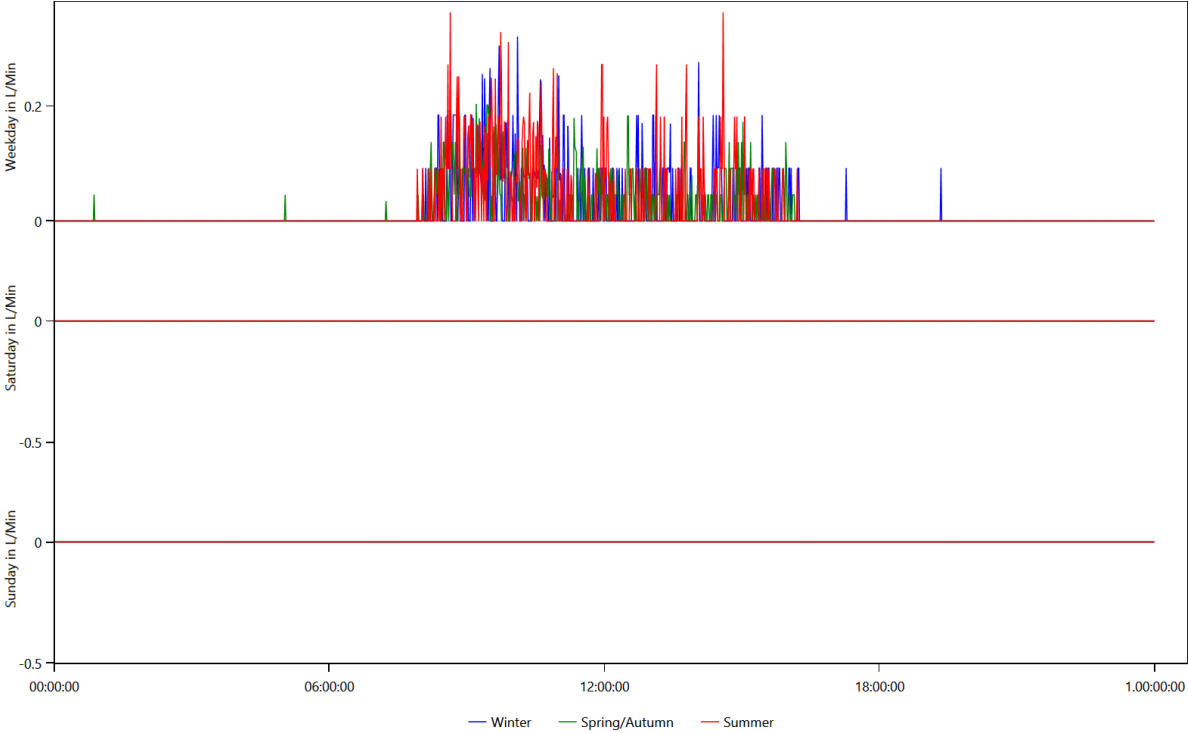


# Energy use per load type during different seasons, split by weekday/saturday/sunday

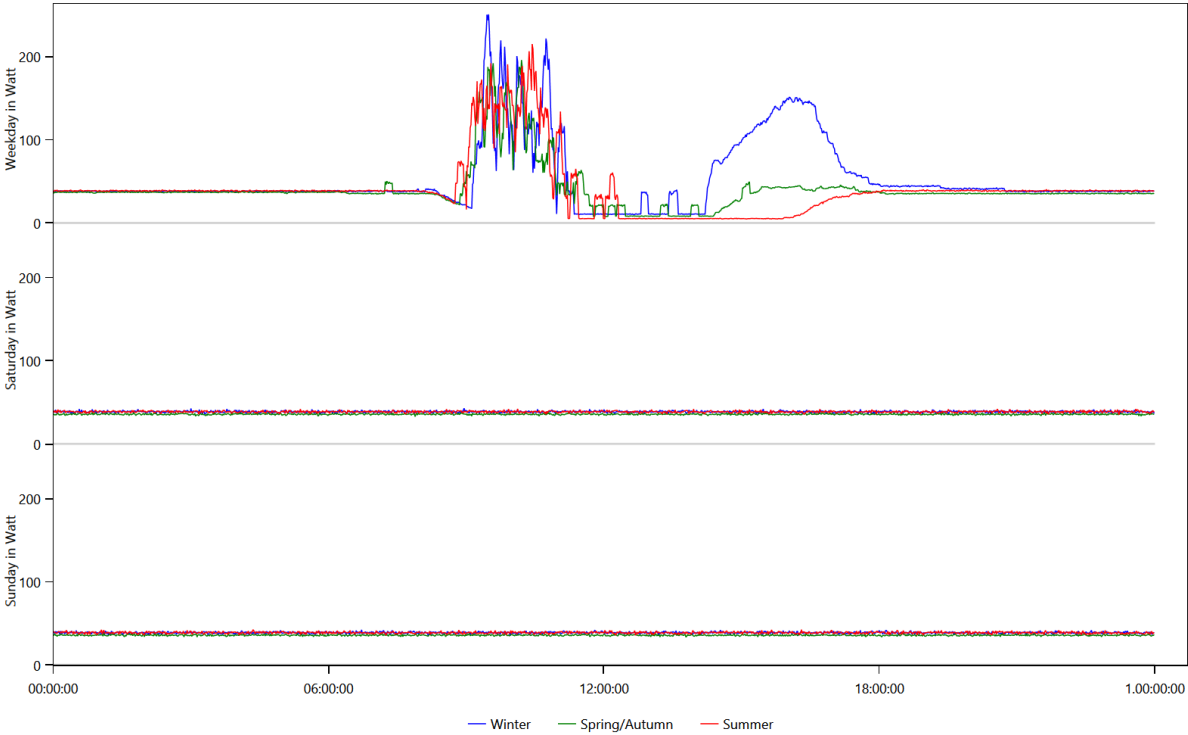
This is made from the files starting with: WeekdayProfiles

This graph shows for each load type the average power consumption per day grouped by season and weekday/saturday/sunday.

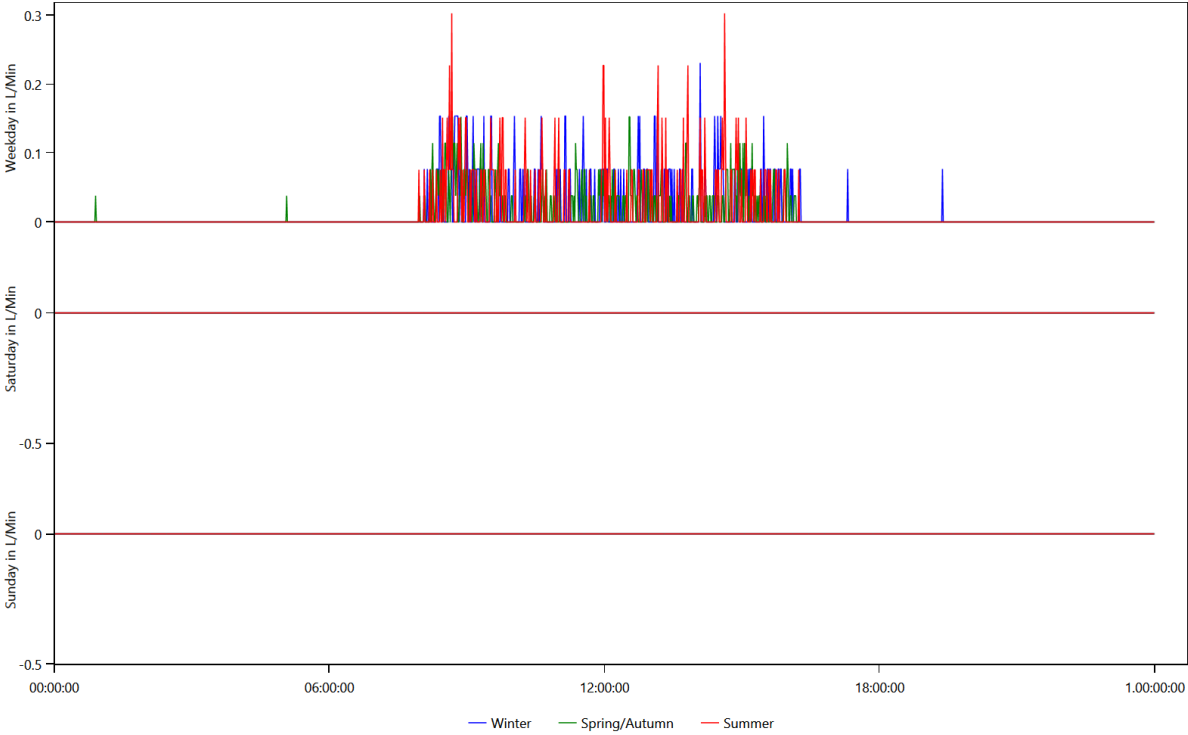
## Cold Water



# Electricity



# Warm Water

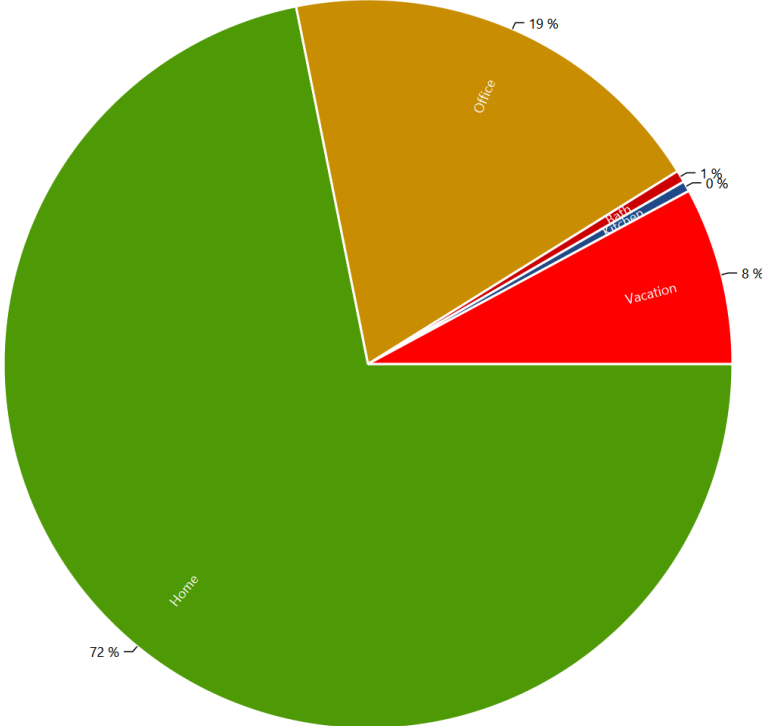


# Location Distribution per Person

This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

OR01 Ellen (26 Female)



# Actions.csv

## This is made from the files starting with: Actions

These files show the actions of each person in the household. The content looks like this:

Actions.HH0.csv

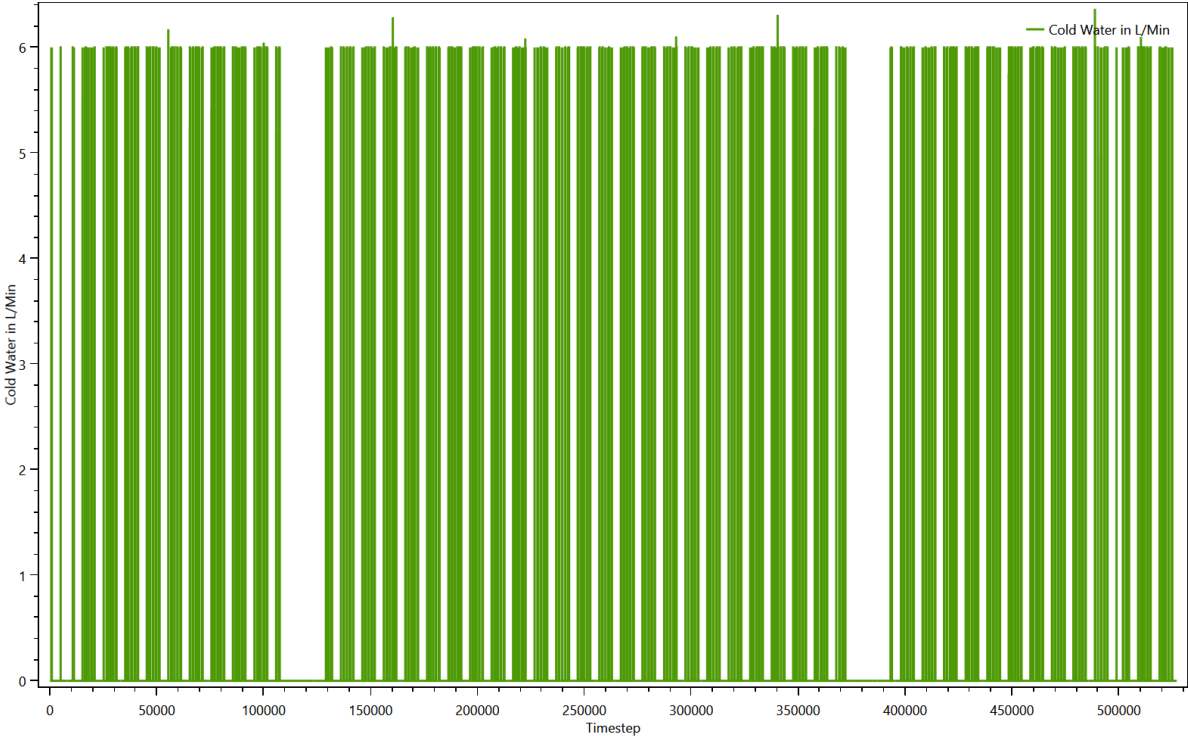
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;OR01 Ellen (26/Female);go home;other;False;
534;01.01.2016 08:54;OR01 Ellen (26/Female);arrive at the office and boot the computer;Office;False;
539;01.01.2016 08:59;OR01 Ellen (26/Female);office - attend meeting (1 h);cooking;False;
603;01.01.2016 10:03;OR01 Ellen (26/Female);office - talk on the phone 10 min;Office;False;
613;01.01.2016 10:13;OR01 Ellen (26/Female);go to the toilet;hygiene;False;
618;01.01.2016 10:18;OR01 Ellen (26/Female);cook coffee;cooking;False;
629;01.01.2016 10:29;OR01 Ellen (26/Female);Office - use the running office computer (1.5 h);Office;False;
717;01.01.2016 11:57;OR01 Ellen (26/Female);Office - use the running office computer (1 h);Office;False;
785;01.01.2016 13:05;OR01 Ellen (26/Female);Office - use the running office computer (2 h);Office;False;
906;01.01.2016 15:06;OR01 Ellen (26/Female);go to the toilet;hygiene;False;
911;01.01.2016 15:11;OR01 Ellen (26/Female);office - attend meeting 30 minutes;cooking;False;
946;01.01.2016 15:46;OR01 Ellen (26/Female);office - talk on the phone 10 min;Office;False;
956;01.01.2016 15:56;OR01 Ellen (26/Female);Office - use the running office computer (1.5 h);Office;False;
1050;01.01.2016 17:30;OR01 Ellen (26/Female);go home for the weekend;other;False;
5010;04.01.2016 11:30;OR01 Ellen (26/Female);go to the toilet;hygiene;True;
5016;04.01.2016 11:36;OR01 Ellen (26/Female);office - stay in bed sick day 3;Office;True;
6361;05.01.2016 10:01;OR01 Ellen (26/Female);office - stay in bed sick day 4;Office;True;
7822;06.01.2016 10:22;OR01 Ellen (26/Female);office - stay in bed sick day 5;Office;True;
9030;07.01.2016 06:30;OR01 Ellen (26/Female);office - stay in bed sick day 1;Office;True;
```

# Sum Profiles

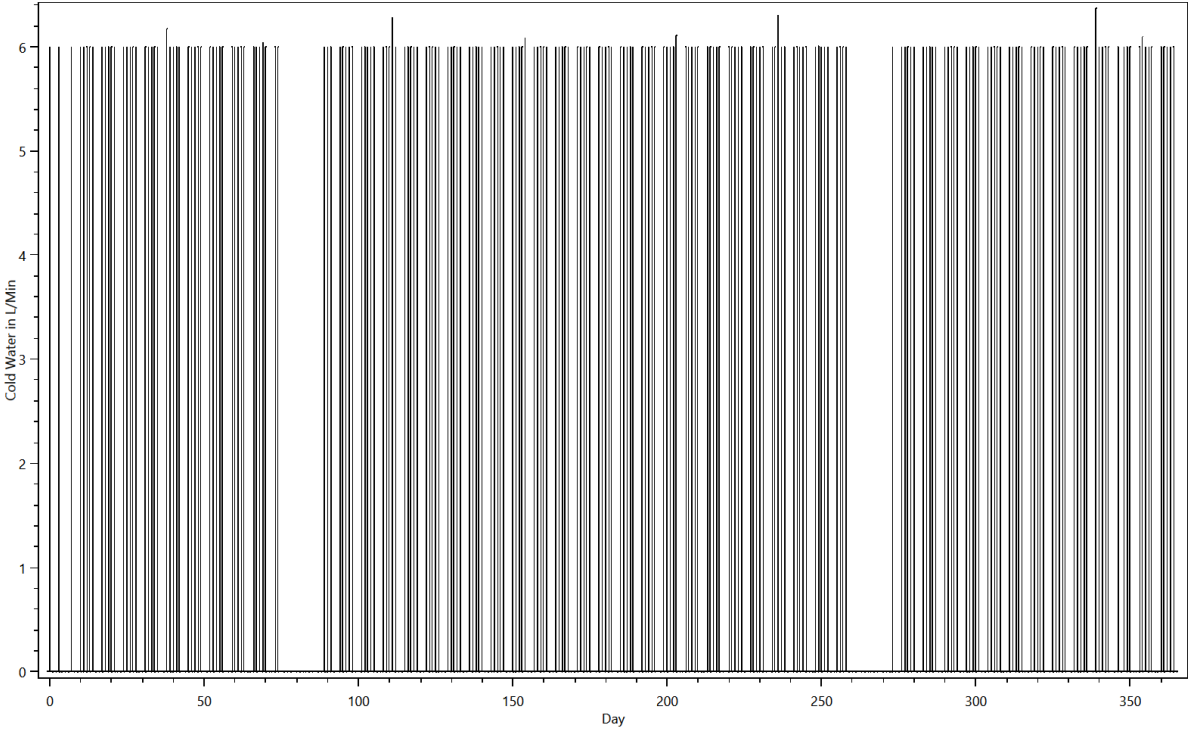
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

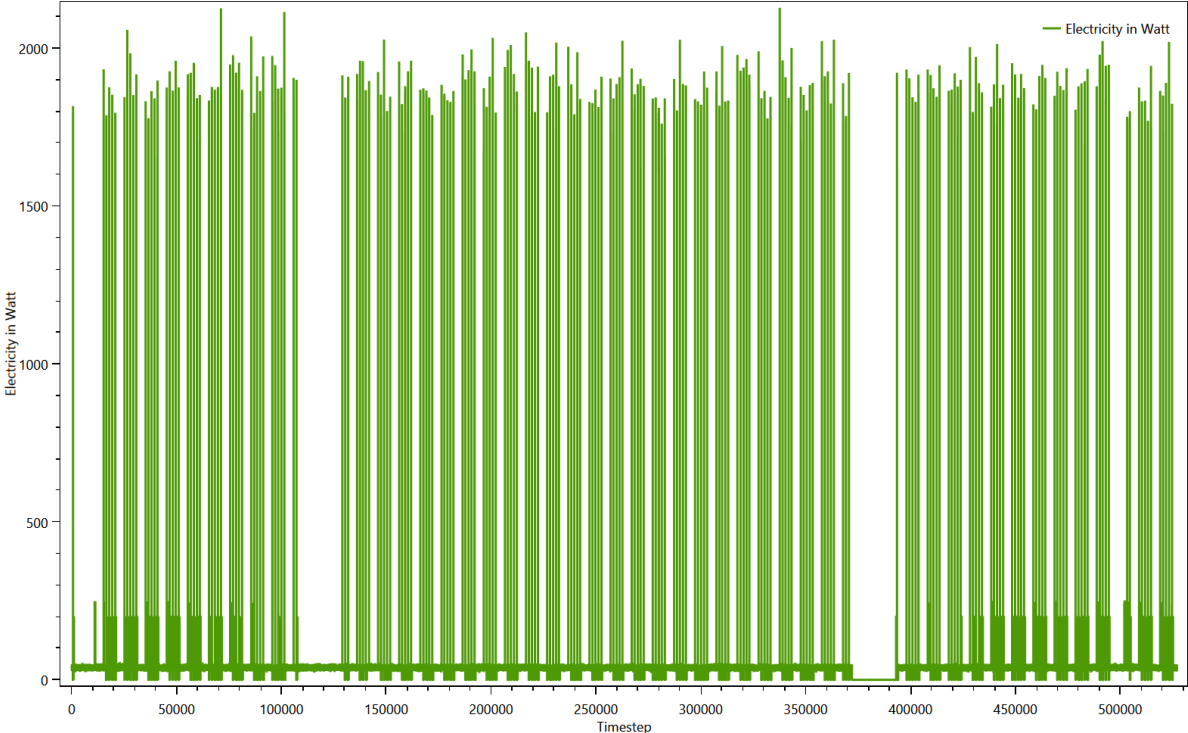
Summed up curve for Cold Water from SumProfiles.Cold Water.png



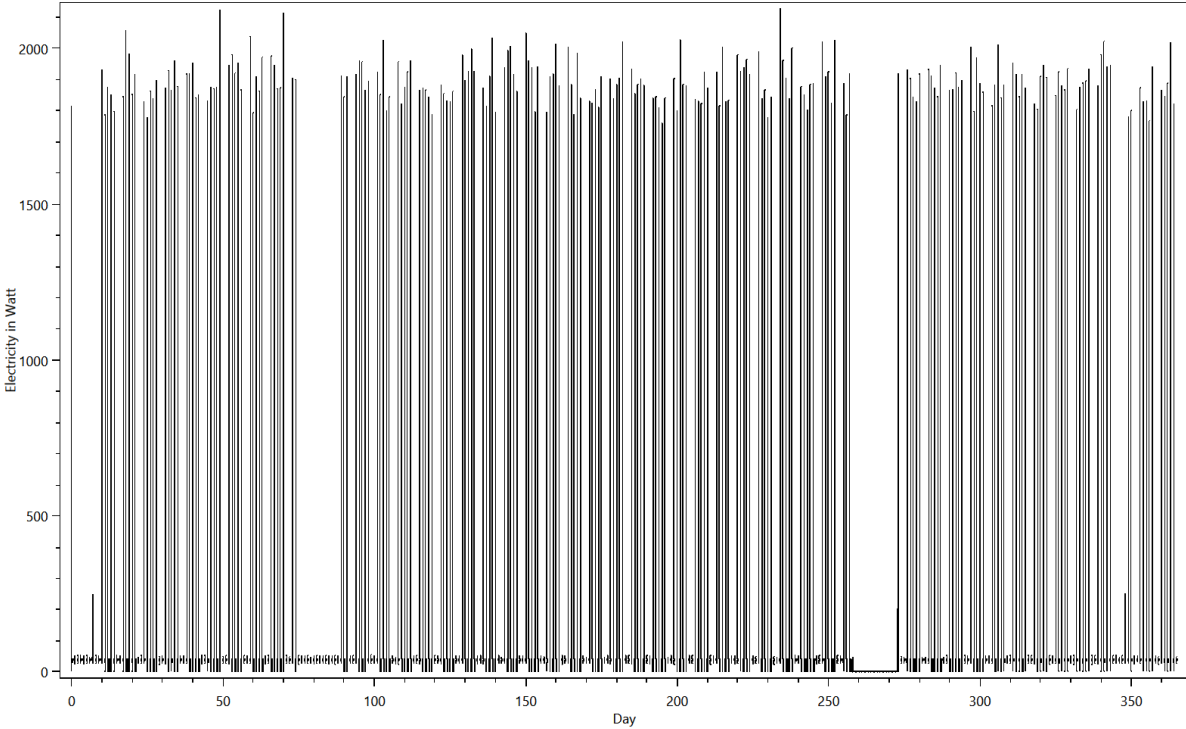
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax..png



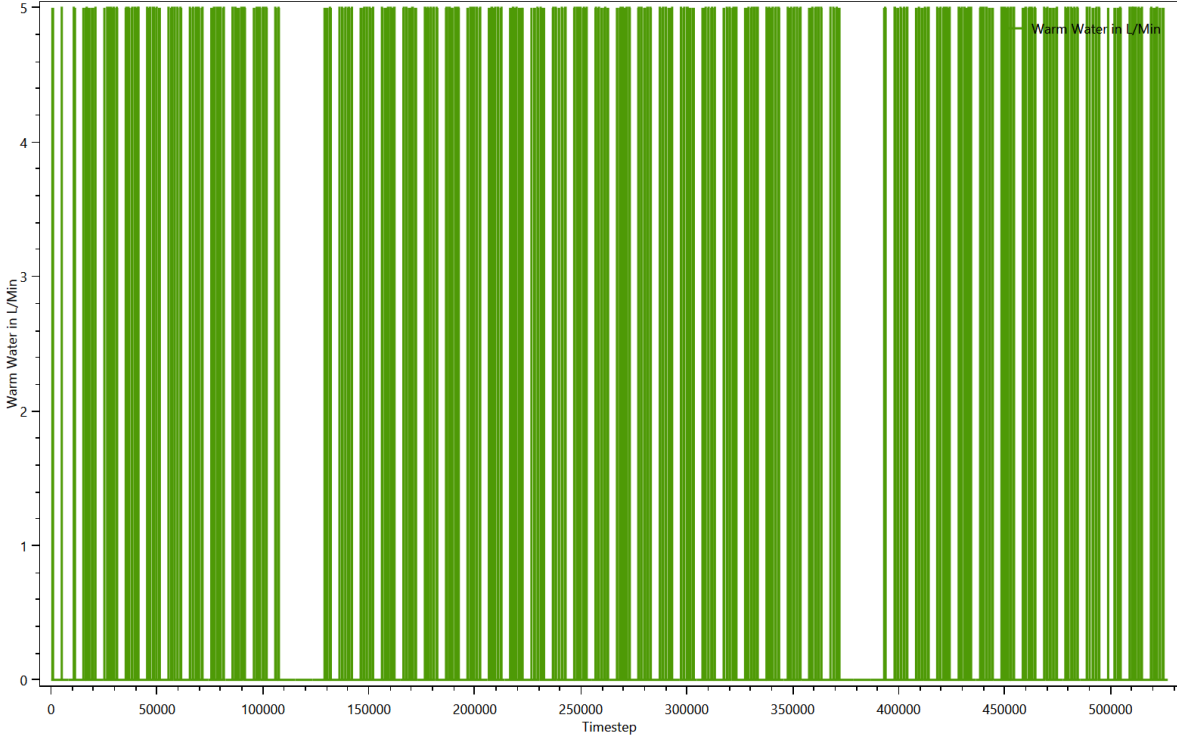
Summed up curve for Electricity from SumProfiles.Electricity.png



Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png

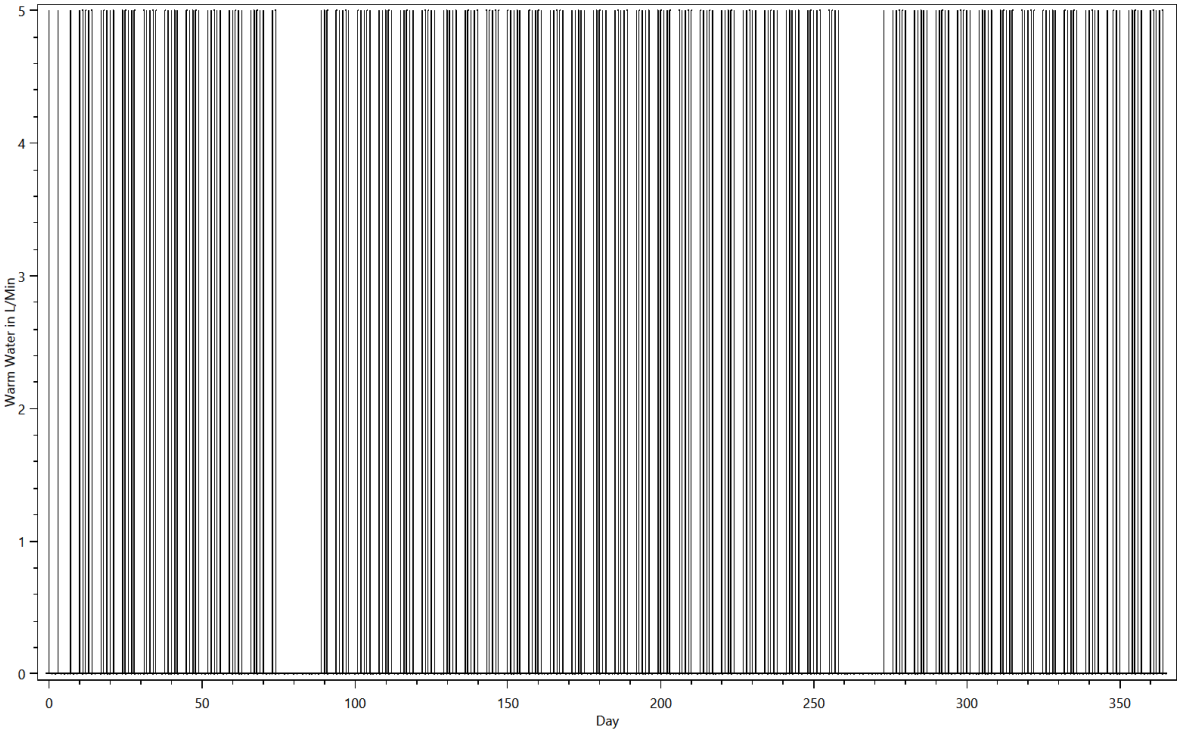


Summed up curve for Warm Water from SumProfiles.Warm Water.png





Summed up curve for Warm WaterMinMax from SumProfiles.Warm WaterMinMax..png



# Time Profiles

## This is made from the files starting with: Time Profiles

These files show which time profiles were used for each device and how often. The content looks like this:

TimeProfiles.HH0.OR01 Single Person Office 0.txt

Device;Load Type;Profile;Number of Activations

Bathroom Light (60W);Electricity;Bath - light [Synthetic for Light Device];33

Bathroom Mirror Light 10 W (LED);Electricity;Bath - light [Synthetic for Light Device];33

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 100% [Synthetic];517

Clatronic MS 3249 Milk Foamer;Electricity;0 h 10 min 100% [Synthetic];234

Coffee Machine / Braun KF 580E;Electricity;0 h 10 min 100% [Synthetic];234

Home;None;0 h 01 min 100% [Synthetic];243

Kitchen Light (200W);Electricity;Kitchen - light [Synthetic for Light Device];1

Kitchen Sink (5L/min);Cold Water;0 h 01 min 100% [Synthetic];234

Living Room Light (200W);Electricity;Office - light [Synthetic for Light Device];205

Meeting Desk;None;0 h 30 min 100% [Synthetic];191

Meeting Desk;None;01 h 0 min 100% [Synthetic];189

Office;None;0 h 01 min 100% [Synthetic];199

Office;None;01 h 0 min 100% [Synthetic];298

Office;None;01 h 30 min 100% [Synthetic];302

Office;None;02 h 0 min 100% [Synthetic];302

Office Phone;None;0 h 10 min 100% [Synthetic];355

PC / Acer Aspire M3640;Electricity;0 h 15 min 30 % [Synthetic];27774

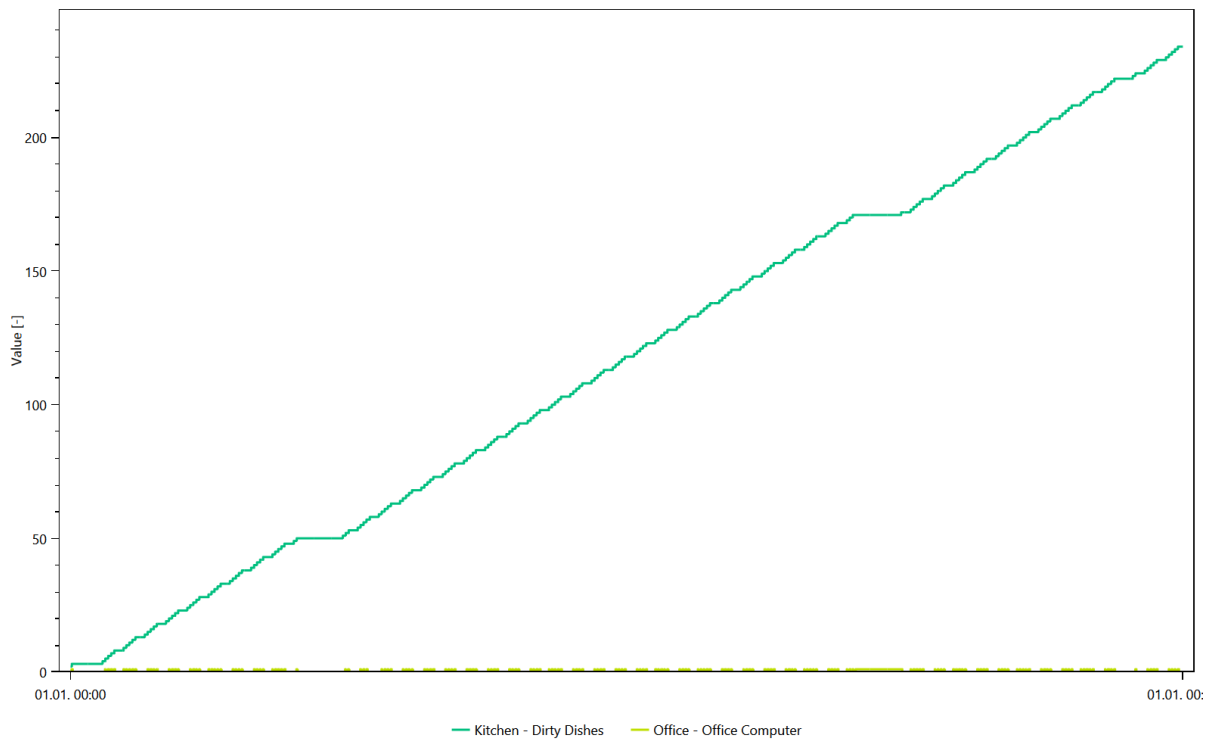
Toilet 6 L/min;Cold Water;0 h 01 min 100% [Synthetic];517

# Variables

This is made from the files starting with: Variablelogfile

The variables are used to keep track of things like dirty laundry, dirty dishes and the amount of laundry to iron. They are used to ensure that for example the dishwasher is only turned on if there are sufficient dirty dishes. One chart shows the first 25000 timesteps of the contents of all variables, the other shows the entire time span.

## Variables



# Variables

