

## Overview of the results of the household CHR30 Single, Retired Man 0

Calculation Time

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

Energy Intensity: EnergySaving

Seed 6526

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:17:13

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## Totals

### Totals for each Loadtype

Load Type	Value	Unit
Cold Water	21755.68	L
Electricity	1101.27	kWh
Warm Water	45055.67	L

### Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	59.44	L
Electricity	3.01	kWh
Warm Water	123.10	L

### Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	15.00	L/Min
Electricity	0.00	5429.28	Watt
Warm Water	0.00	15.00	L/Min

### Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	21755.68	L
Electricity	1101.27	kWh

Warm Water	45055.67	L
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### Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	59.44	L
Electricity	3.01	kWh
Warm Water	123.10	L

## Persons

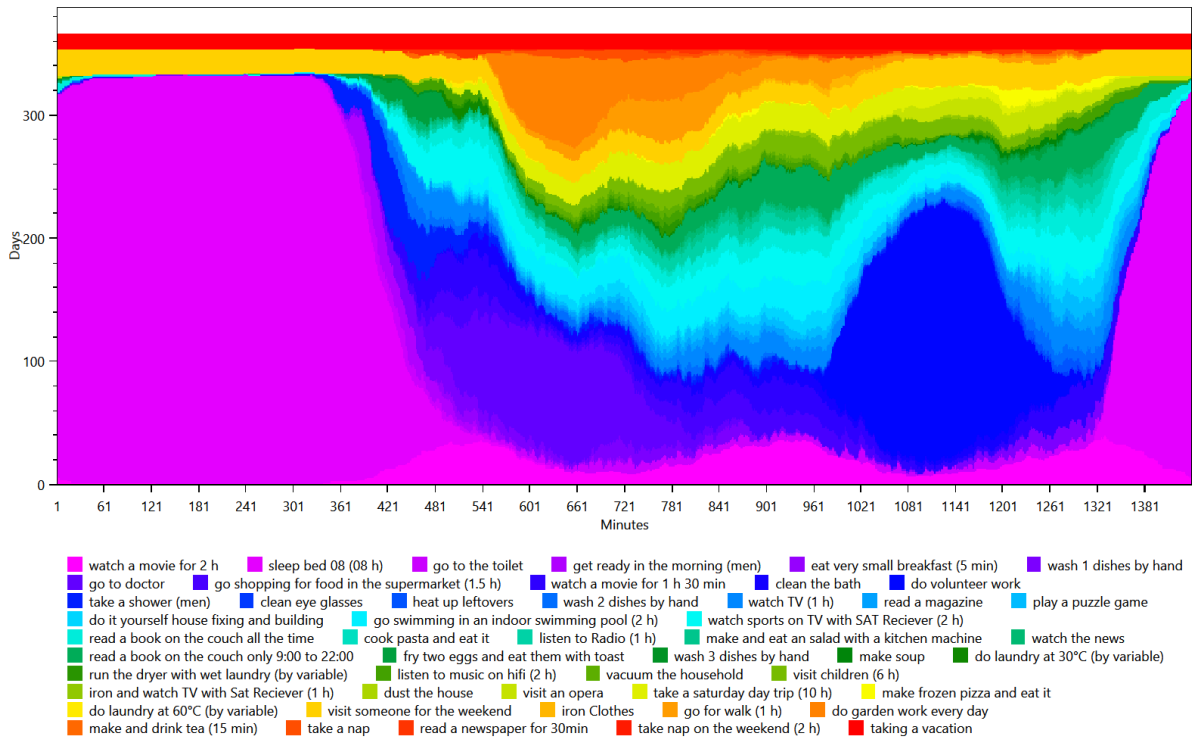
- HH0
  - CHR30 Horsti (70/Male)(70/Male)

# 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 - CHR30 Horsti (70 Male)

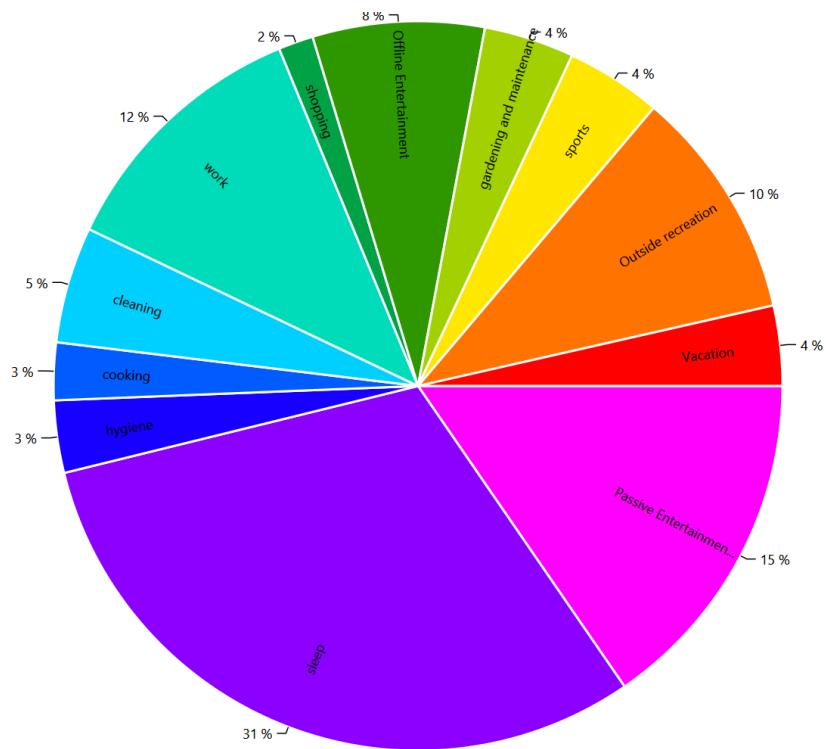


# Activity Distribution per Person

This is made from the files starting with: ActivityPercentage

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

HH0 - CHR30 Horsti (70 Male)

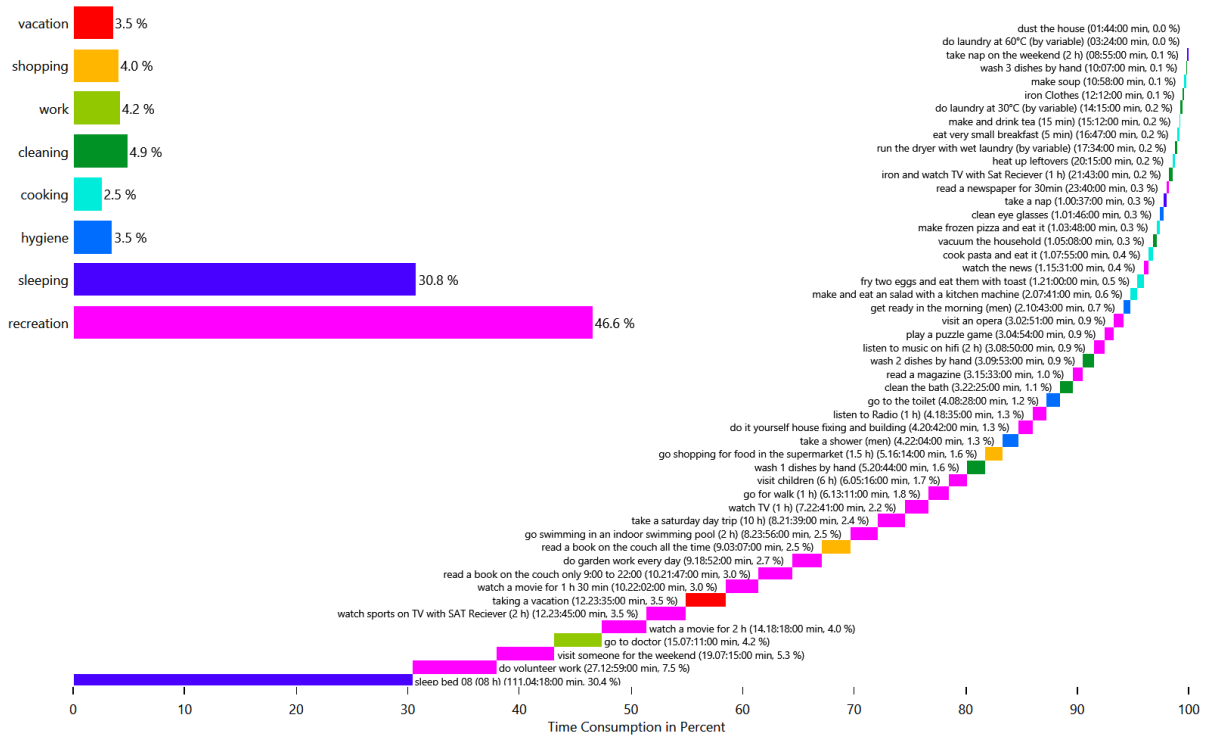


# Time Use per Person per Affordance Per Person

This is made from the files starting with: AffordanceTimeUse

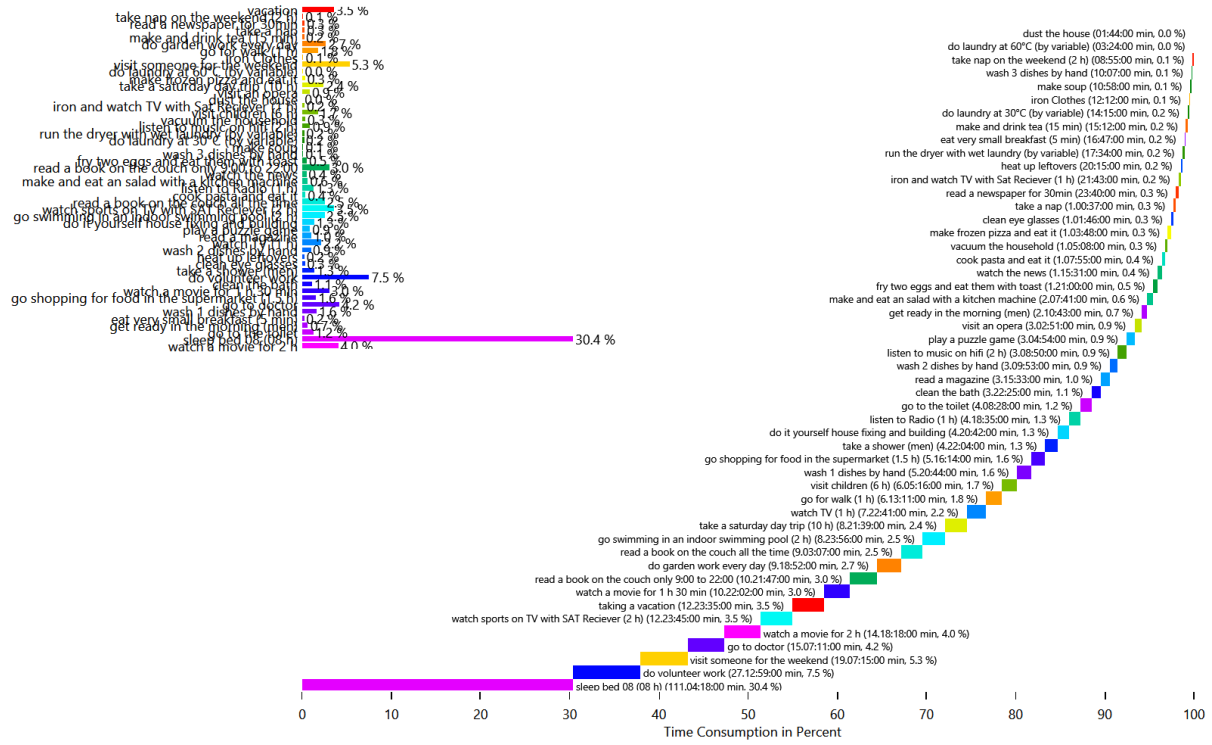
These charts show how the people in the household use their time. This shows the individual affordances to help find problems in the household definition.

## HH0 - CHR30 Horsti (70 Male)

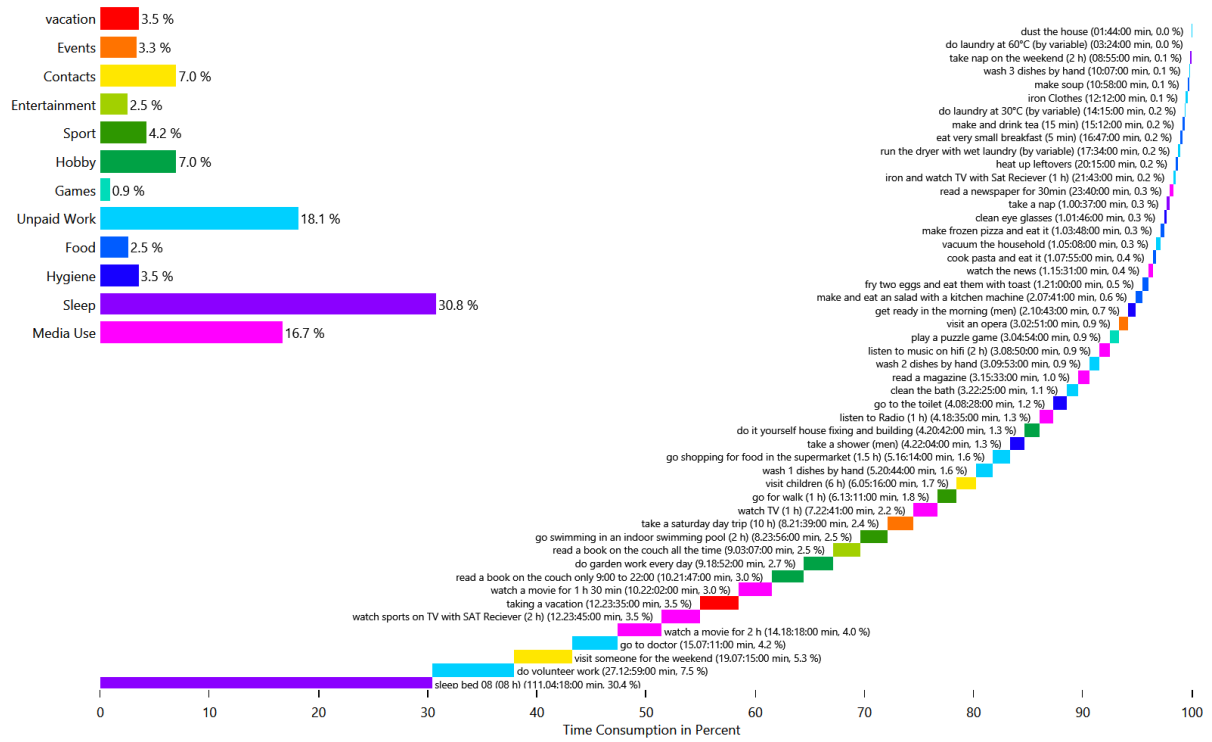




# HH0 - CHR30 Horsti (70 Male)



# HH0 - CHR30 Horsti (70 Male)

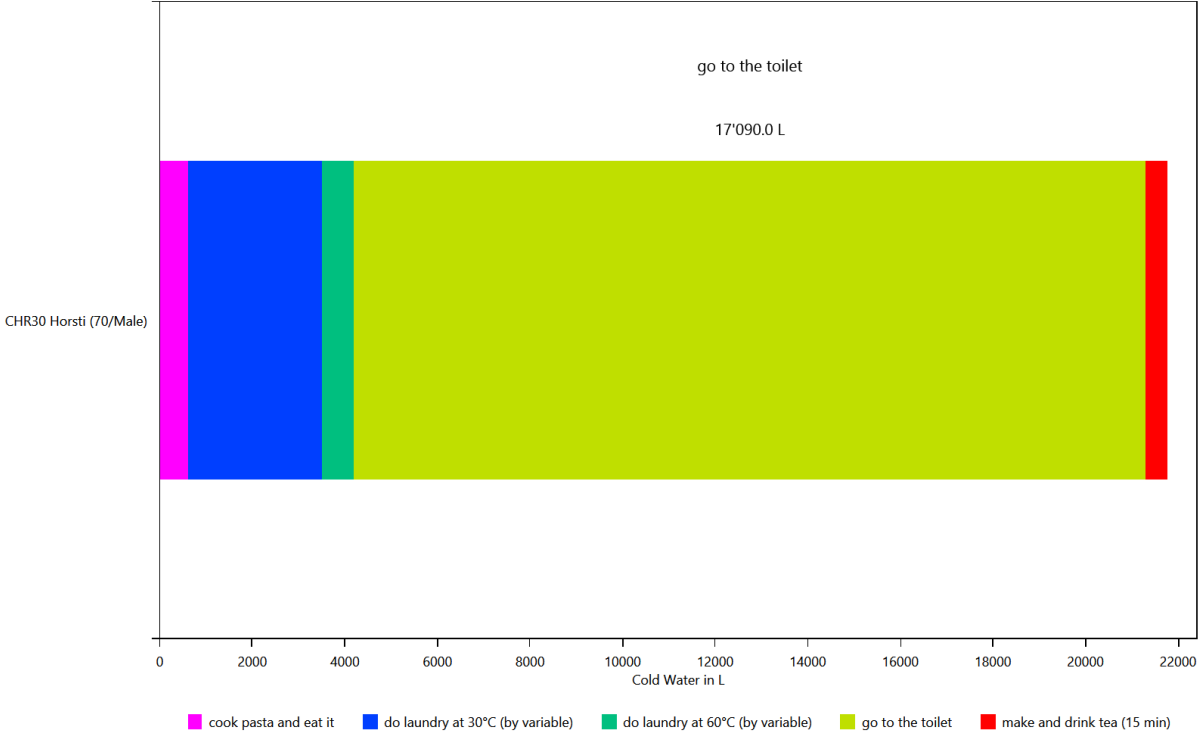


# Energy use per person per affordance

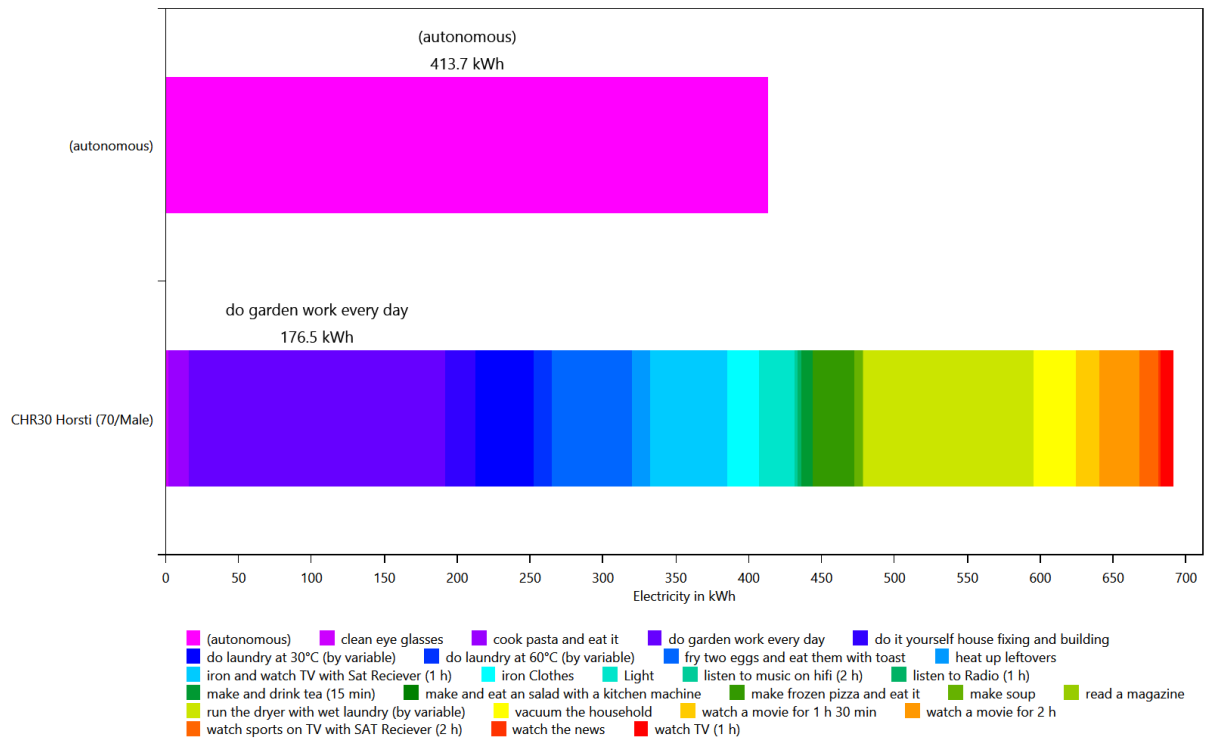
This is made from the files starting with: AffordanceEnergyUsePerPerson

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.

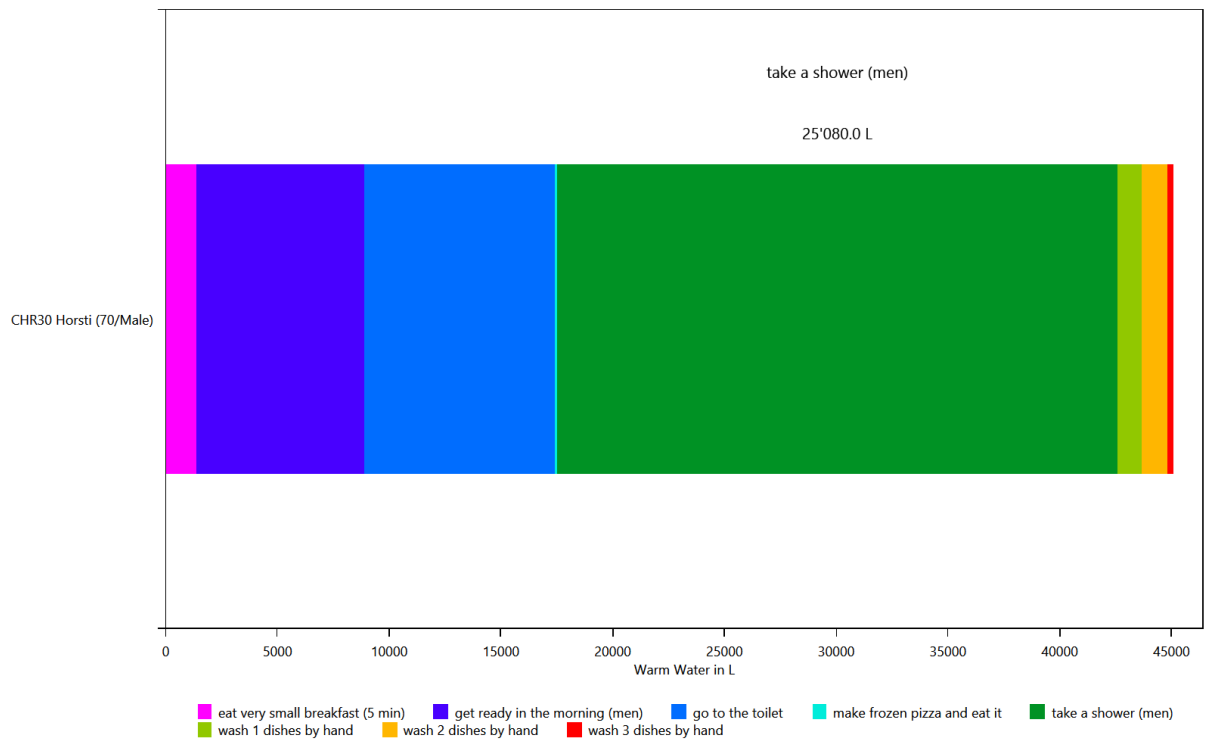
## HH0 - Cold Water



## HH0 - Electricity



## HH0 - Warm Water

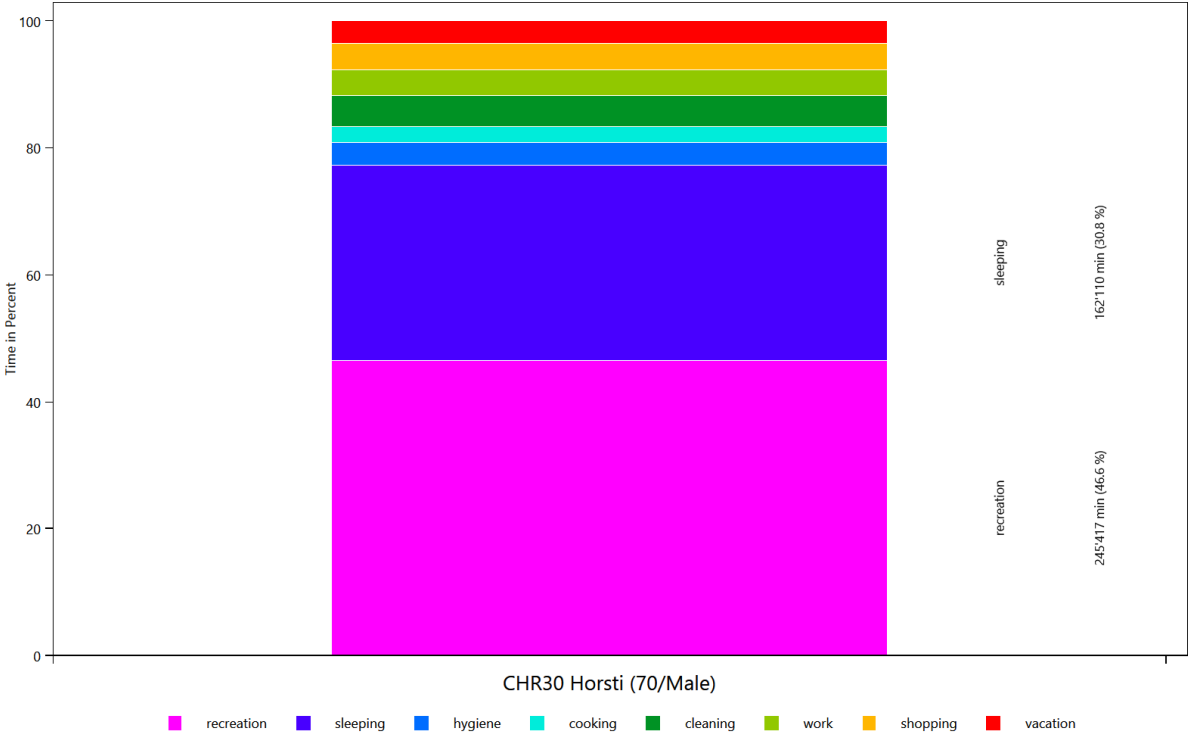


# Time Use per Person Per Affordance according to different category definitions

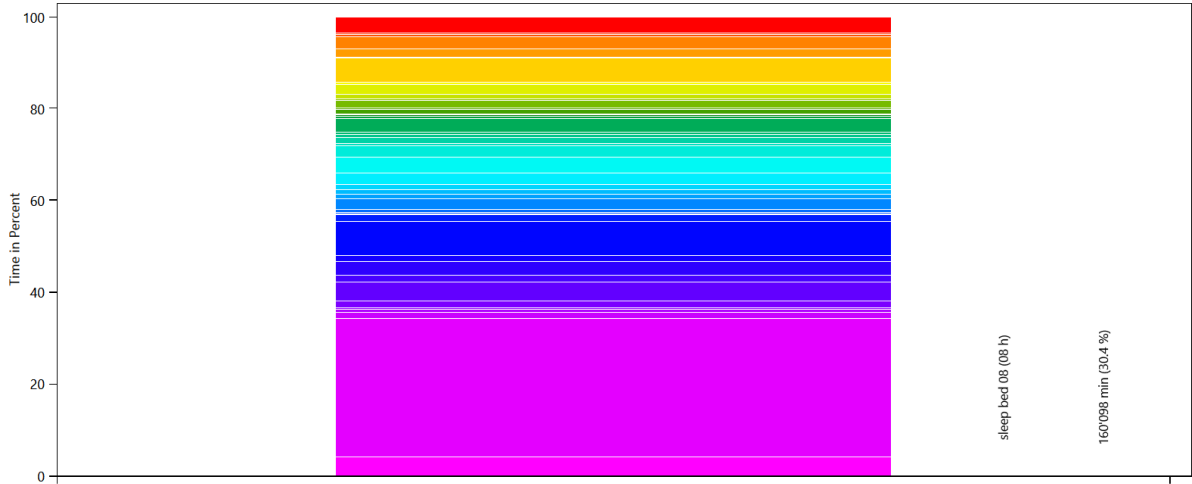
This is made from the files starting with: AffordanceTaggingSet

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



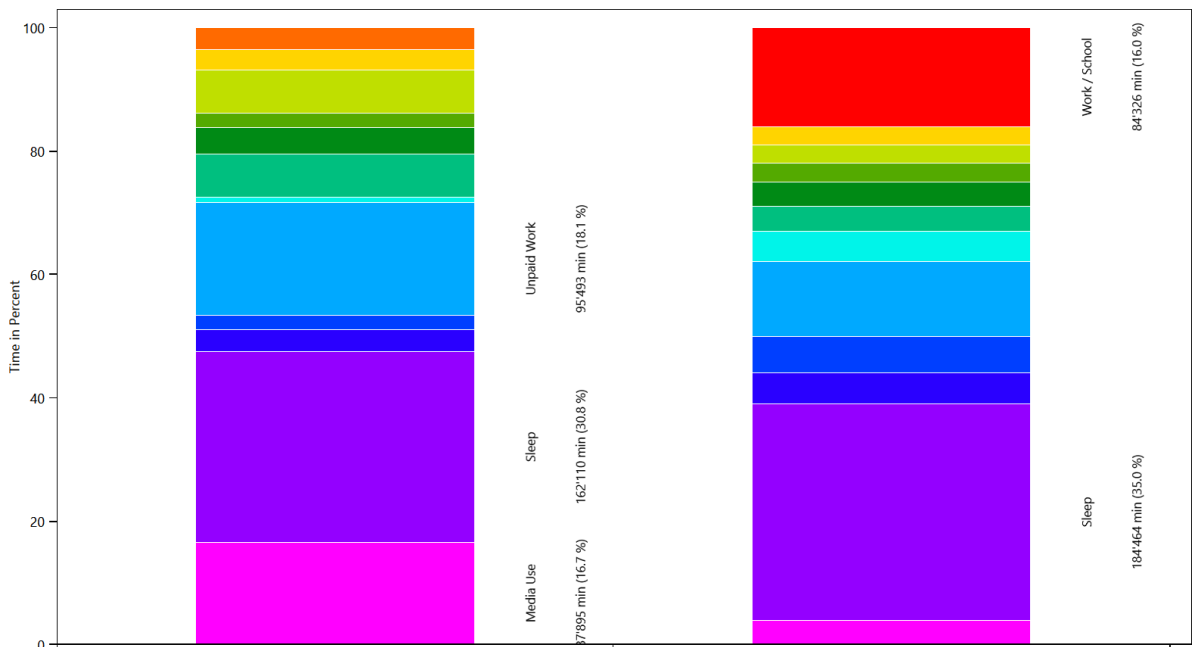
## Tagging Set For Planning - HH0



CHR30 Horsti (70/Male)

- watch a movie for 2 h
- sleep bed 08 (08 h)
- go to the toilet
- get ready in the morning (men)
- eat very small breakfast (5 min)
- wash 1 dishes by hand
- go to doctor
- go shopping for food in the supermarket (1.5 h)
- watch a movie for 1 h 30 min
- clean the bath
- do volunteer work
- take a shower (men)
- clean eye glasses
- heat up leftovers
- wash 2 dishes by hand
- watch TV (1 h)
- read a magazine
- play a puzzle game
- do it yourself house fixing and building
- go swimming in an indoor swimming pool (2 h)
- watch sports on TV with SAT Reciever (2 h)
- read a book on the couch all the time
- cook pasta and eat it
- listen to Radio (1 h)
- make and eat an salad with a kitchen machine
- watch the news
- read a book on the couch only 9:00 to 22:00
- fry two eggs and eat them with toast
- wash 3 dishes by hand
- make soup
- do laundry at 30°C (by variable)
- run the dryer with wet laundry (by variable)
- listen to music on hifi (2 h)
- vacuum the household
- visit children (6 h)
- iron and watch TV with Sat Reciever (1 h)
- dust the house
- visit an opera
- take a saturday day trip (10 h)
- make frozen pizza and eat it
- do laundry at 60°C (by variable)
- visit someone for the weekend
- iron Clothes
- go for walk (1 h)
- do garden work every day
- make and drink tea (15 min)
- take a nap
- read a newspaper for 30min
- take nap on the weekend (2 h)
- vacation

## Wo bleibt die Zeit - HH0



CHR30 Horsti (70/Male)

Reference

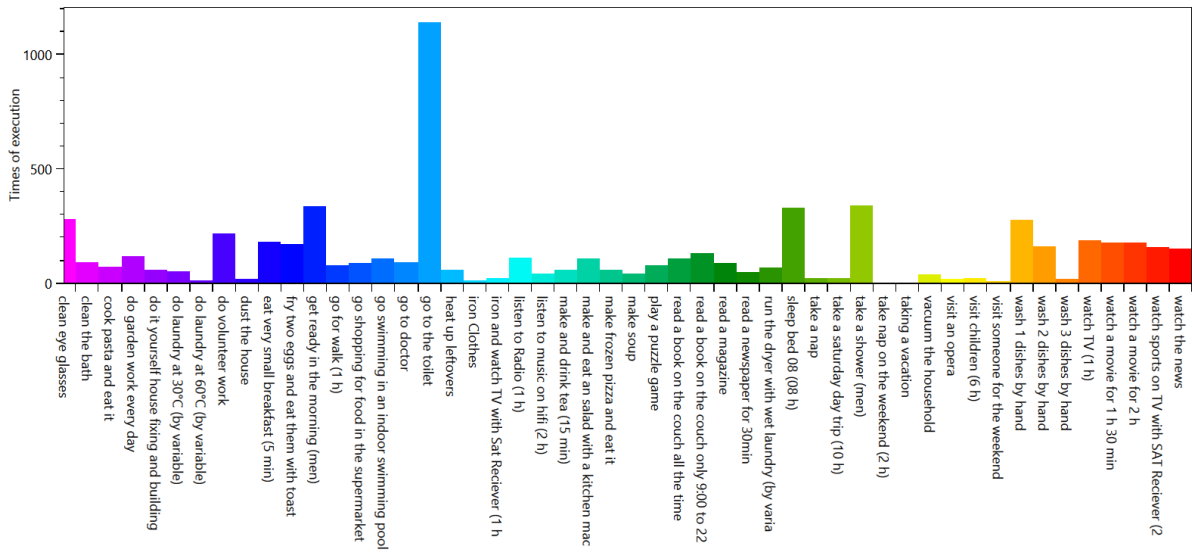
- Media Use
- Sleep
- Hygiene
- Food
- Unpaid Work
- Games
- Hobby
- Sport
- Entertainment
- Contacts
- Events
- vacation
- Work / School

# 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 - CHR30 Horsti (70 Male)

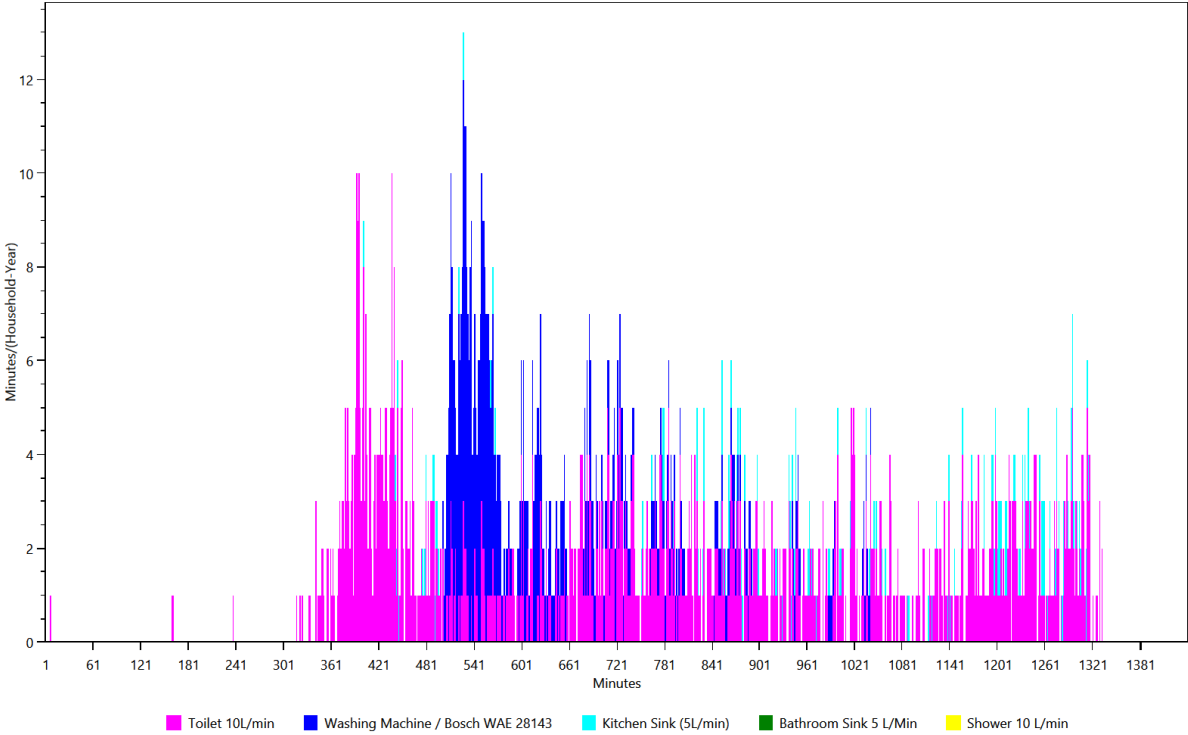


# Overview of the time of the use per load type per device

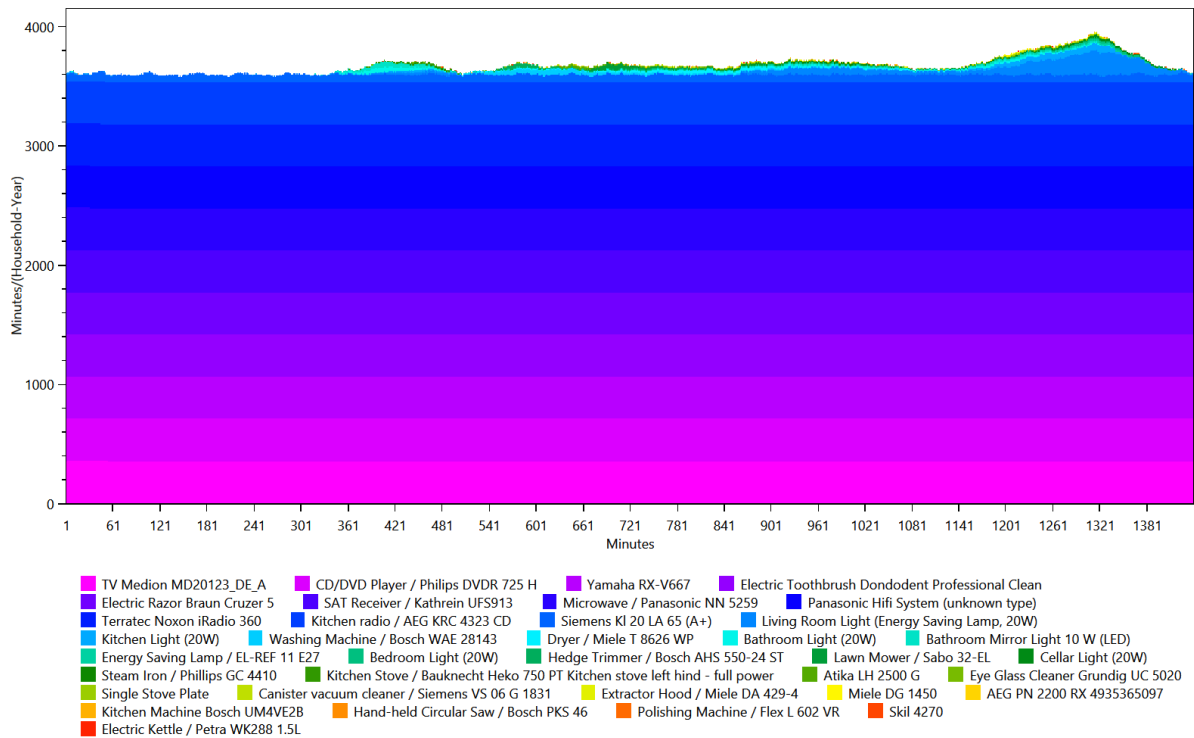
This is made from the files starting with: TimeOfUseEnergyProfiles

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

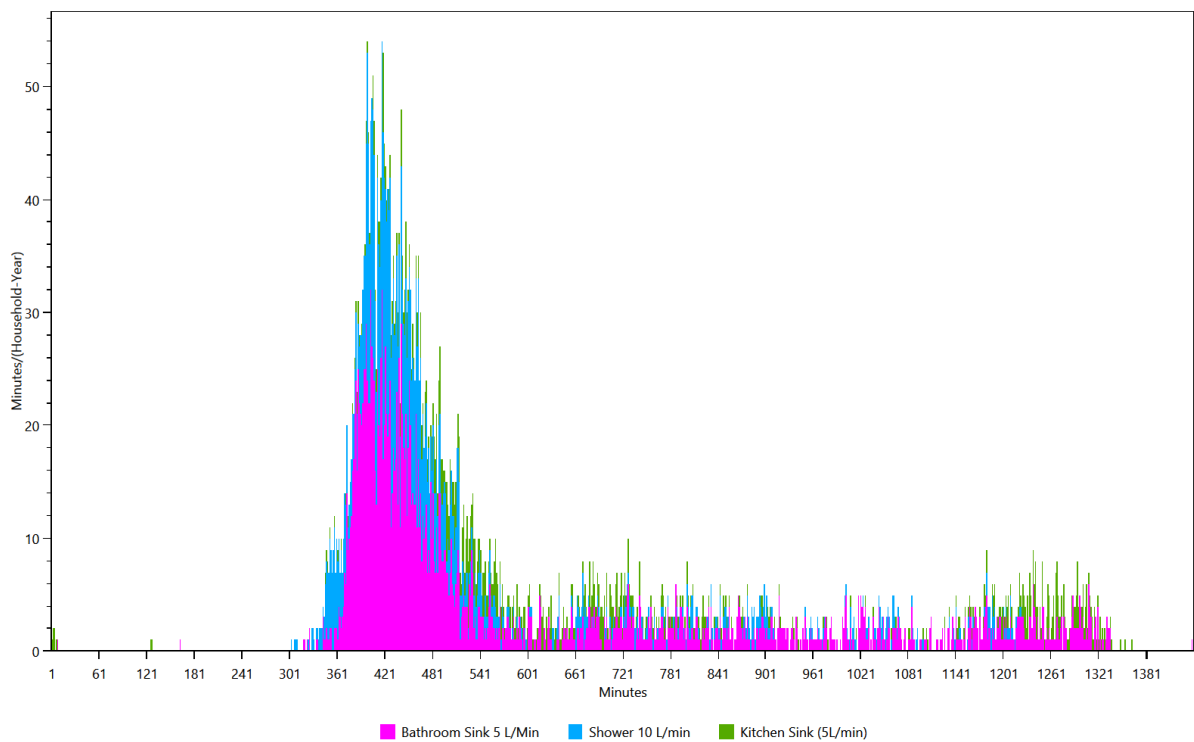
## Cold Water



## Electricity



## Warm Water



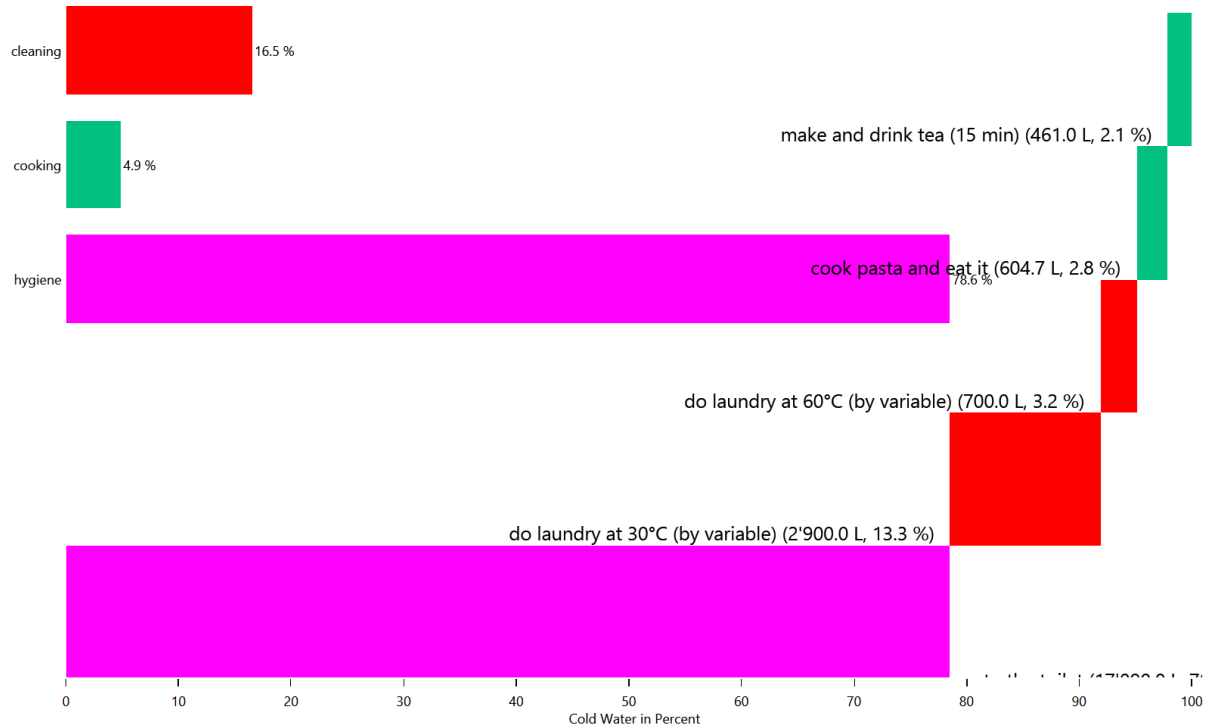


# Energy/Resource use distribution per load type per affordance

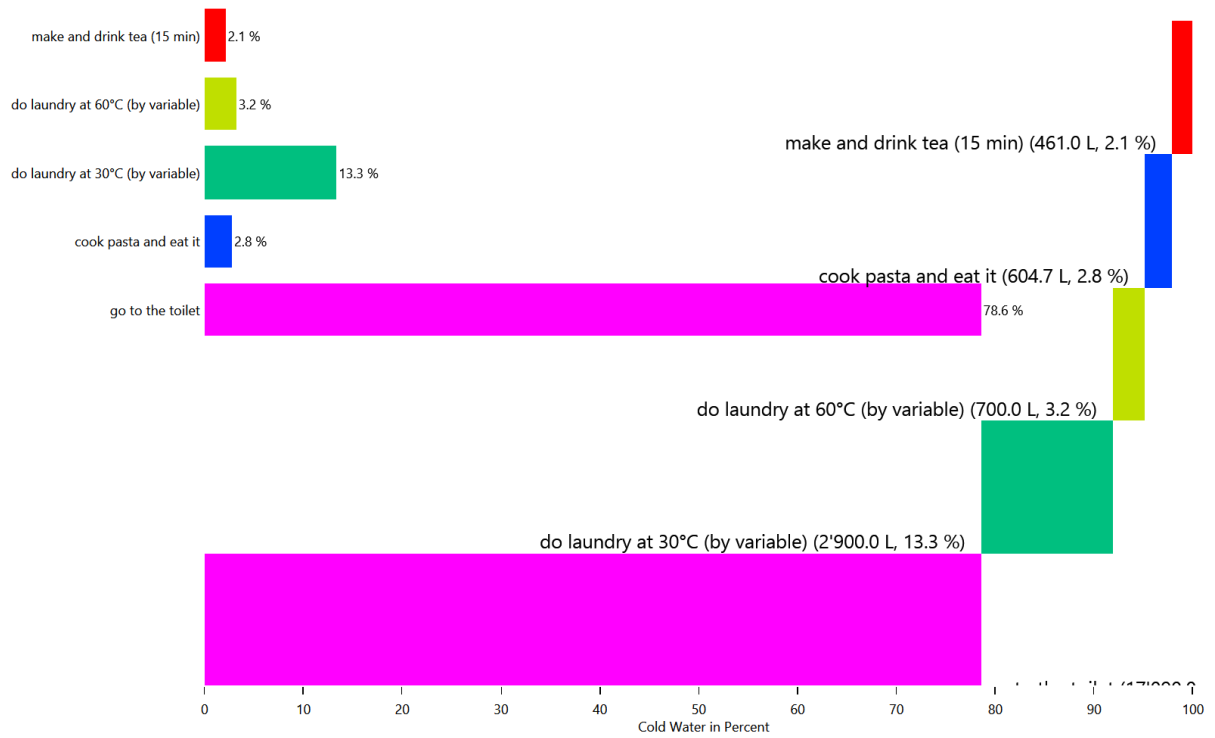
This is made from the files starting with: AffordanceEnergyUse

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

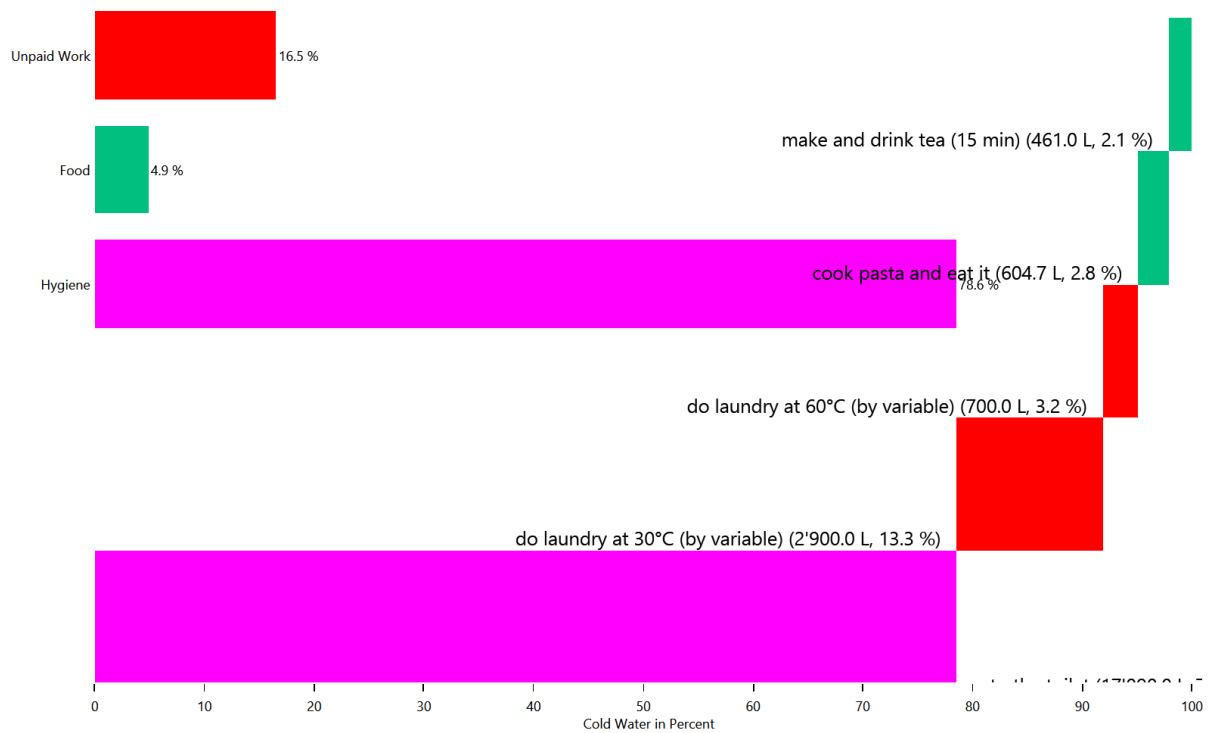
## HH0 - Cold Water



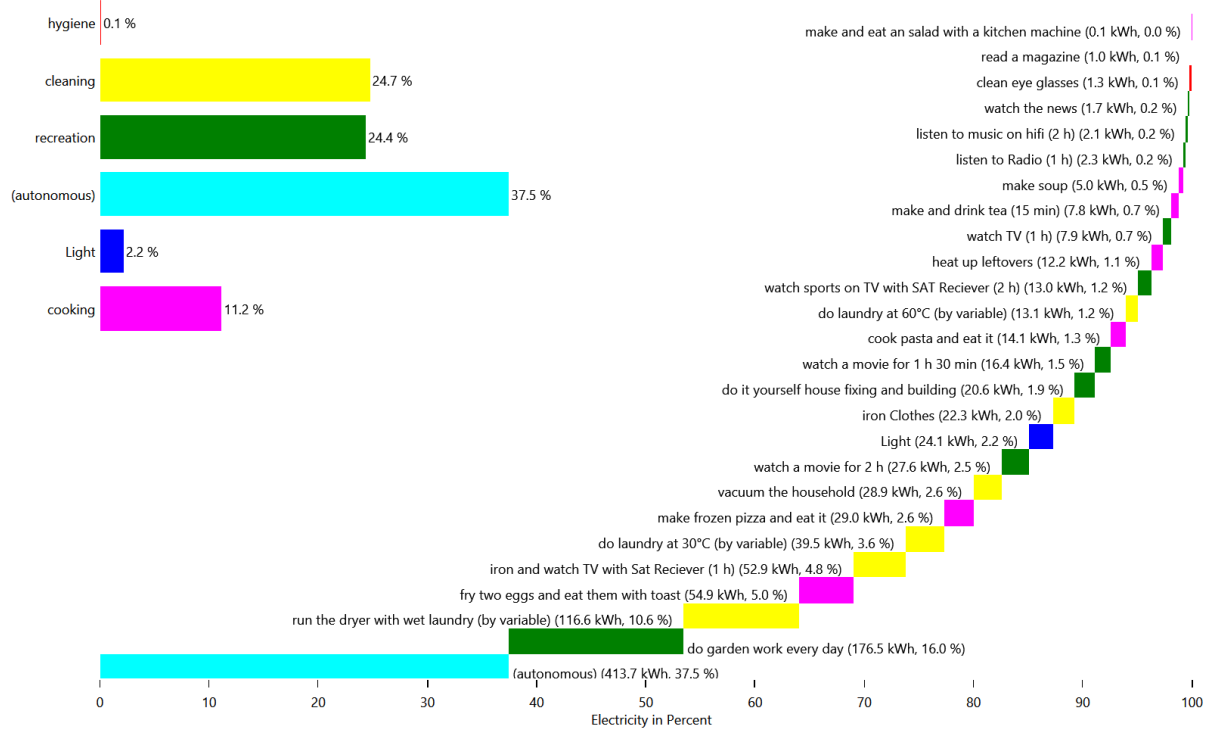
## HH0 - Cold Water



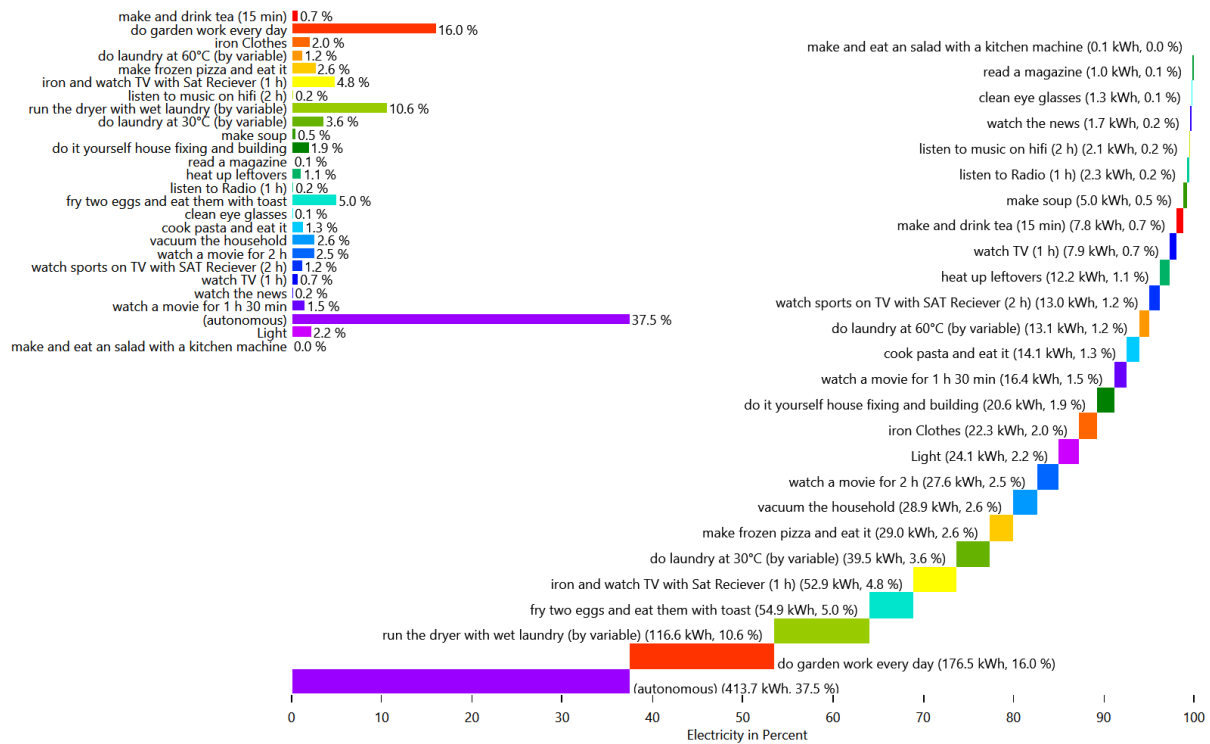
## HH0 - Cold Water



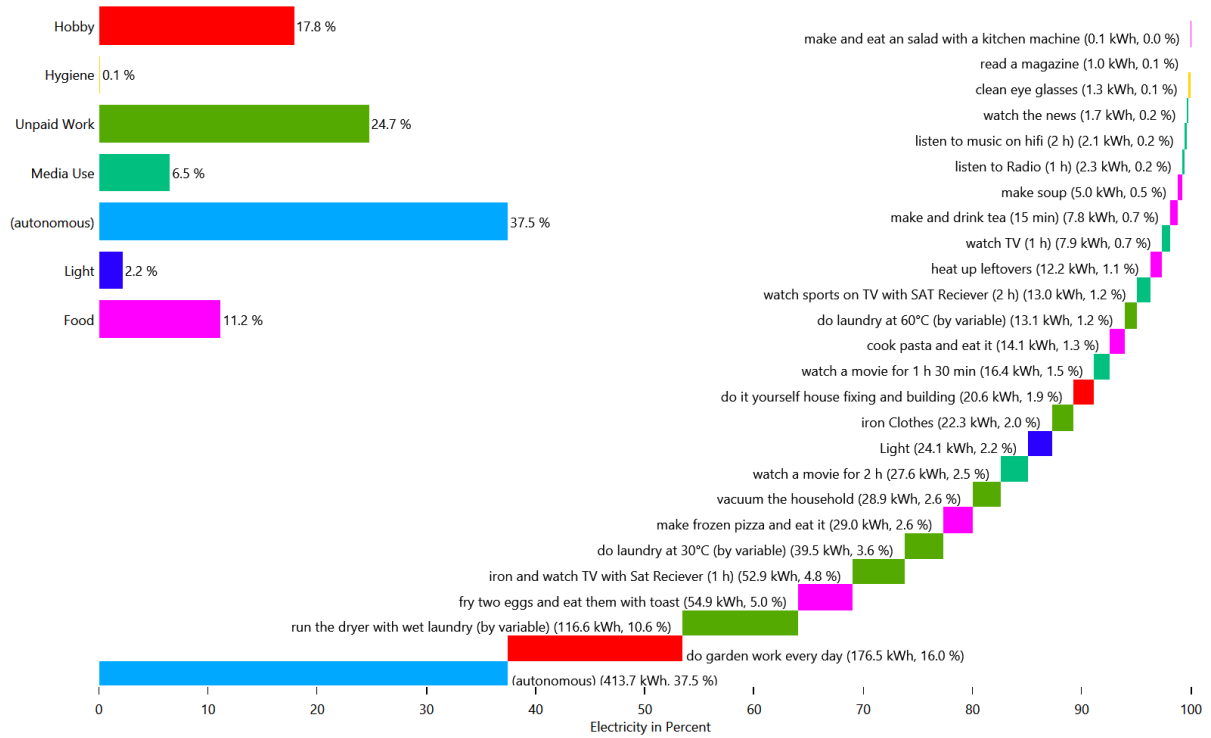
# HH0 - Electricity



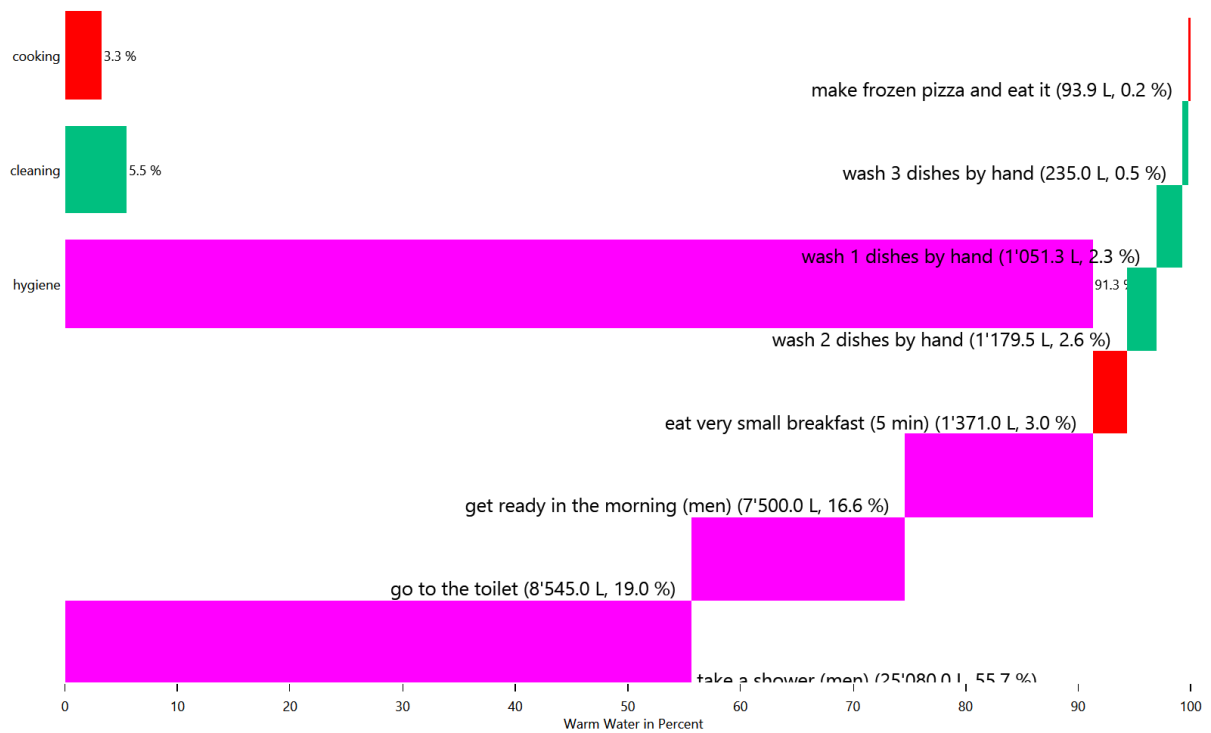
# HH0 - Electricity



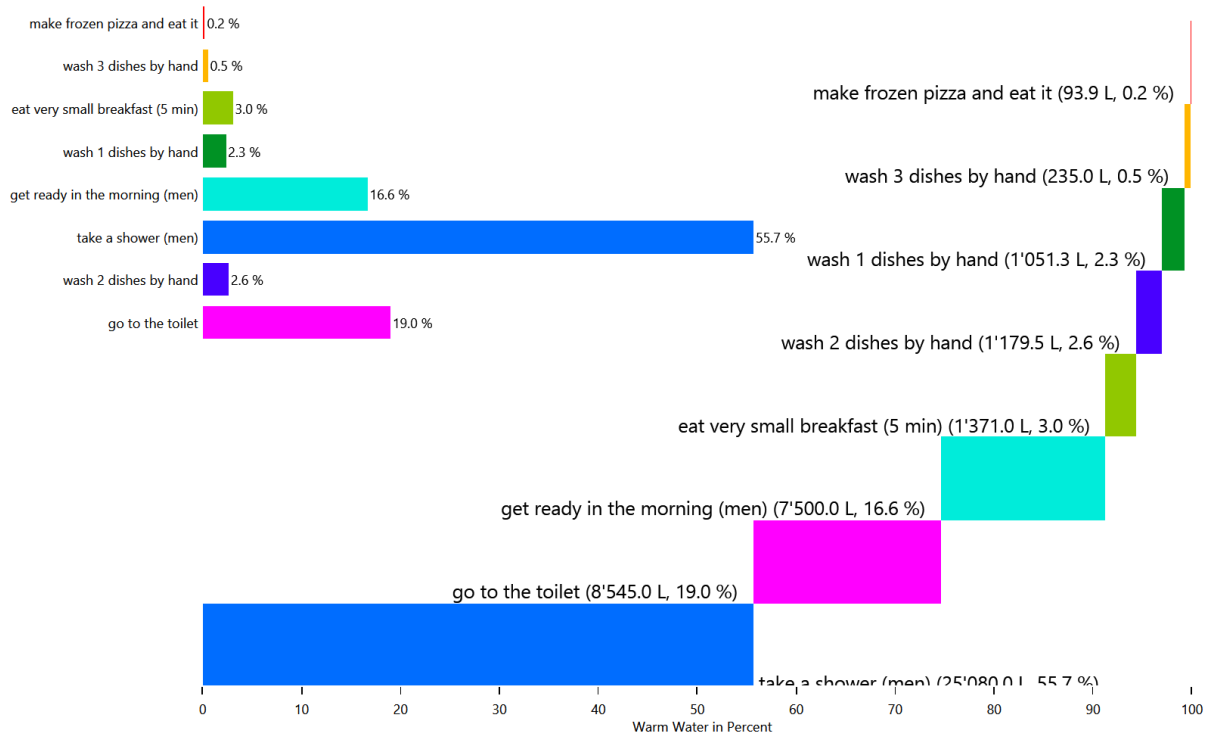
## HH0 - Electricity



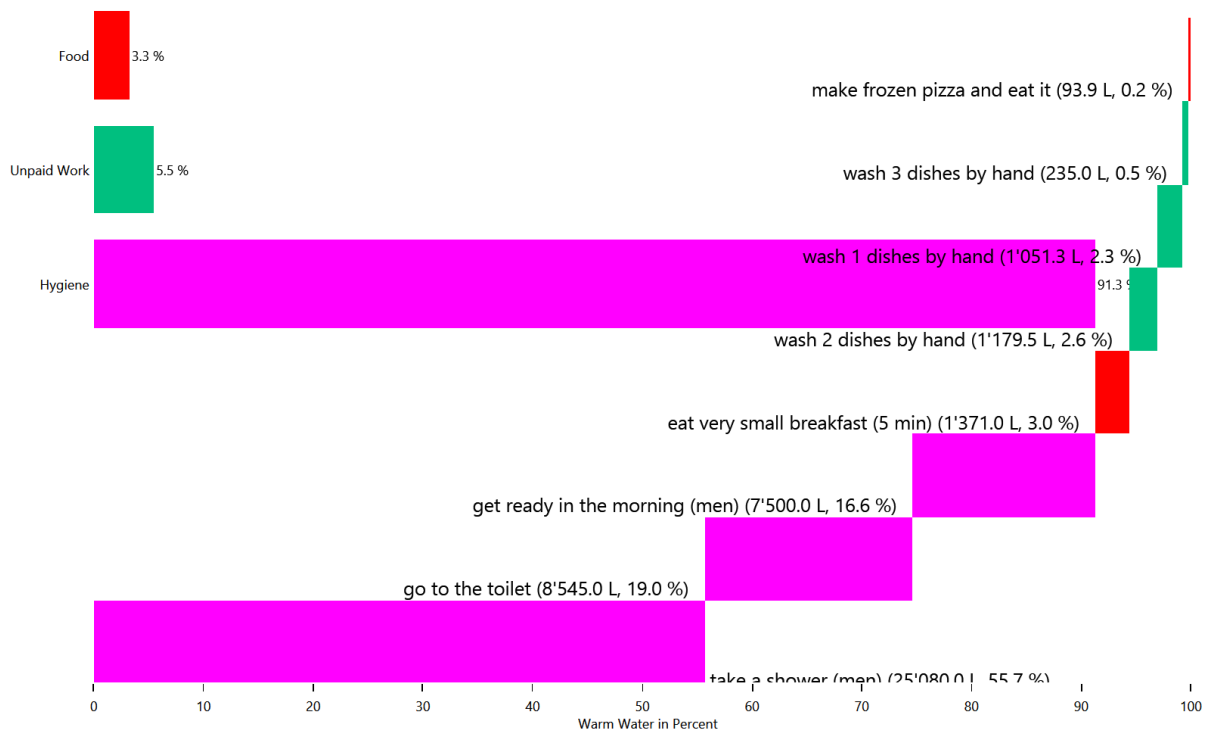
## HH0 - Warm Water



## HH0 - Warm Water



## HH0 - Warm Water

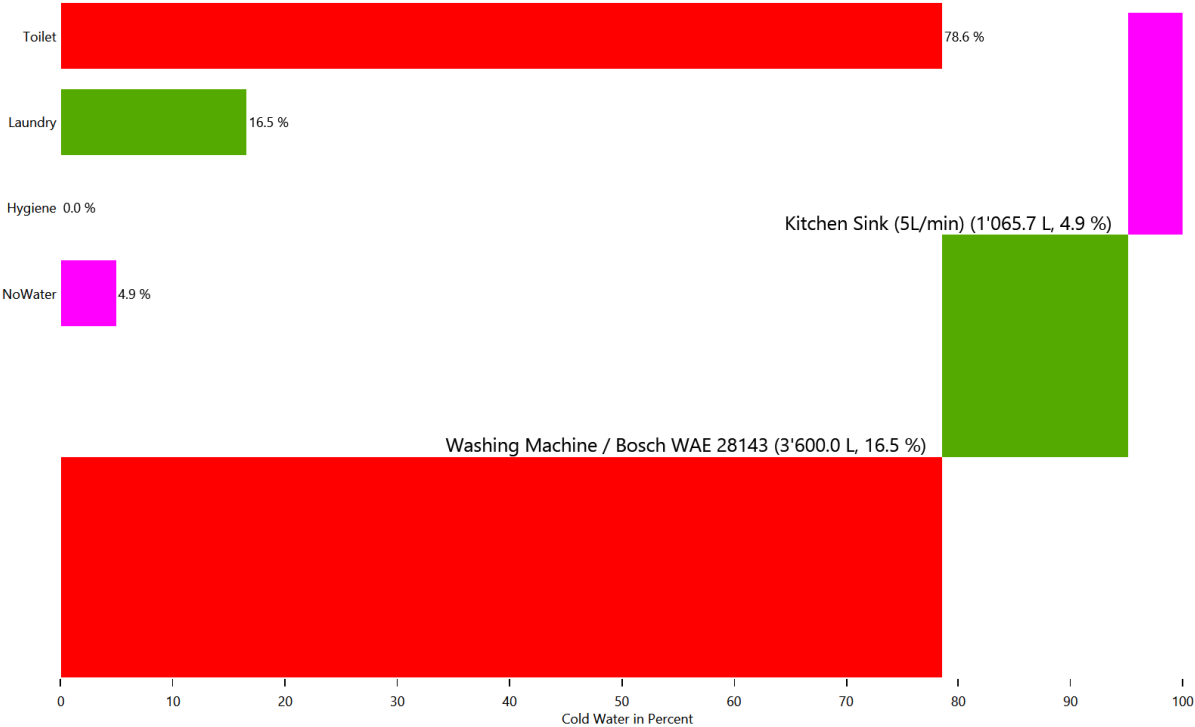


# Energy use for each load type for each device

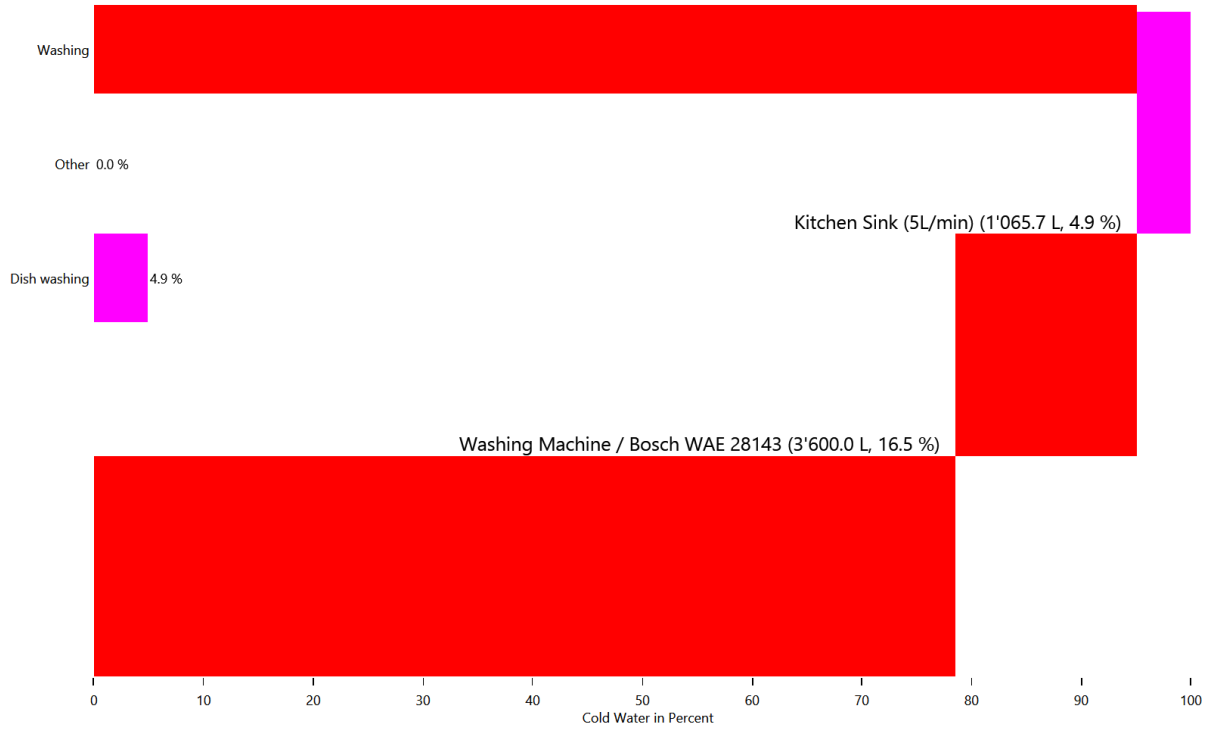
This is made from the files starting with: DeviceSums

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

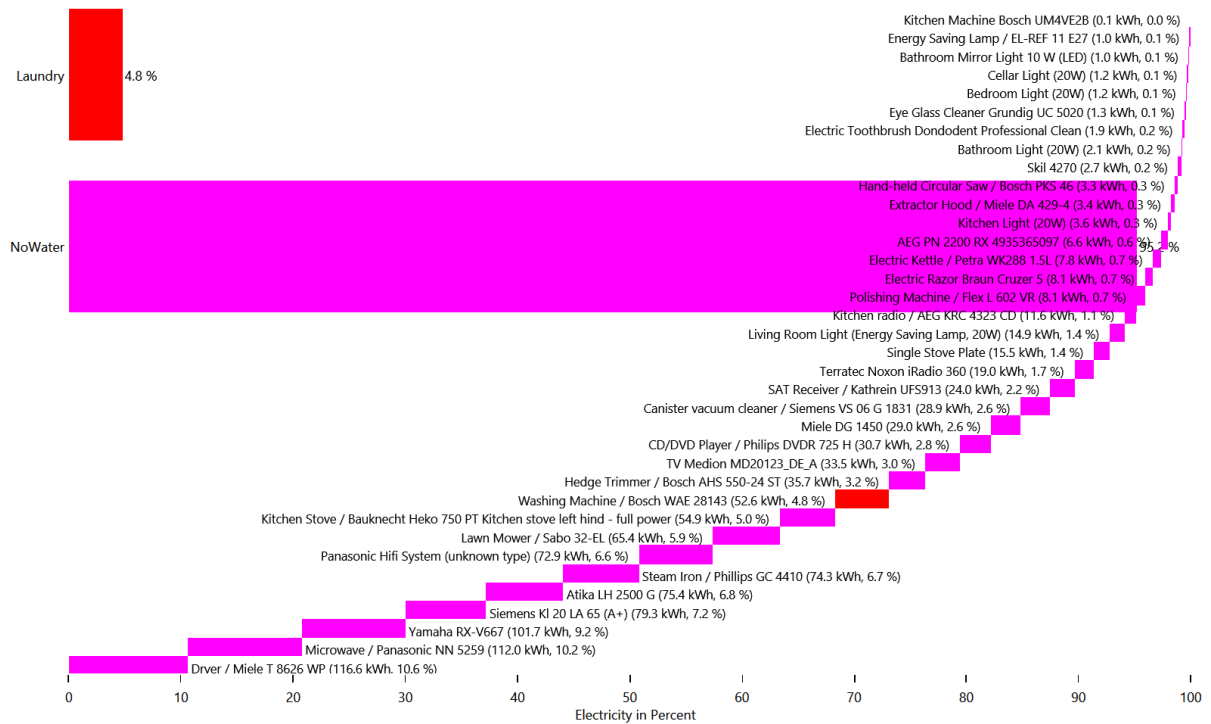
## Cold Water



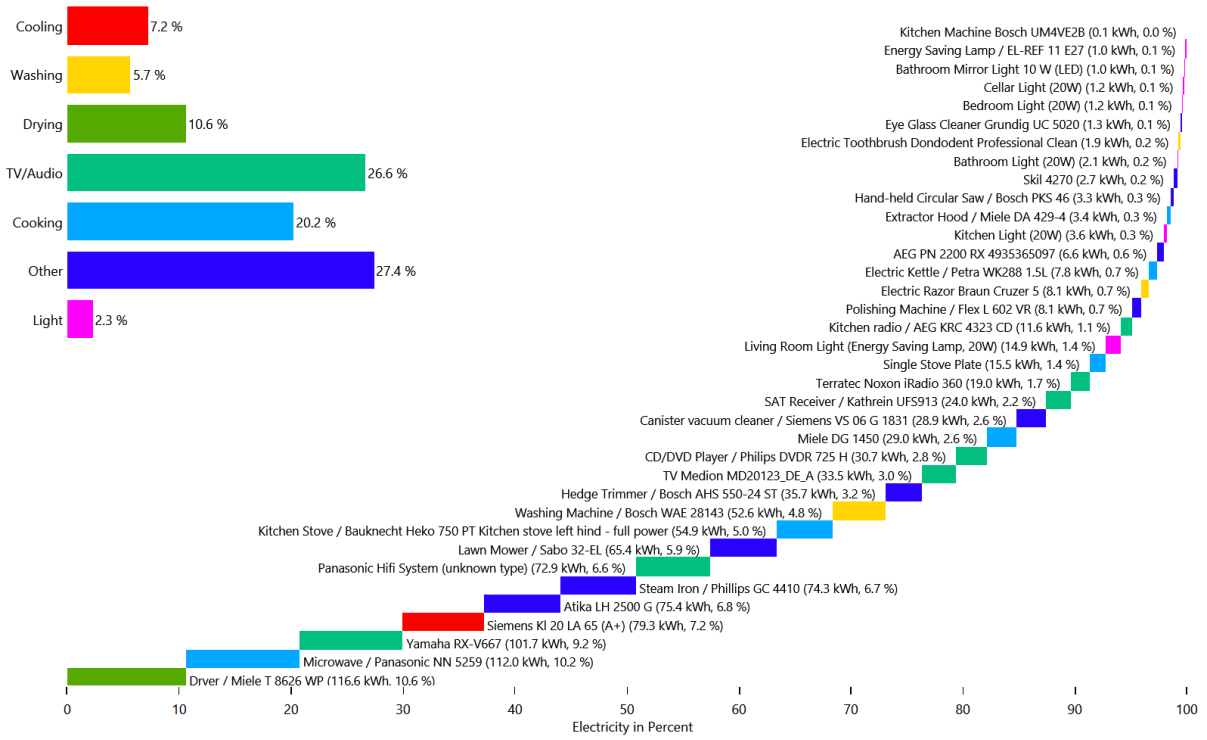
## Cold Water



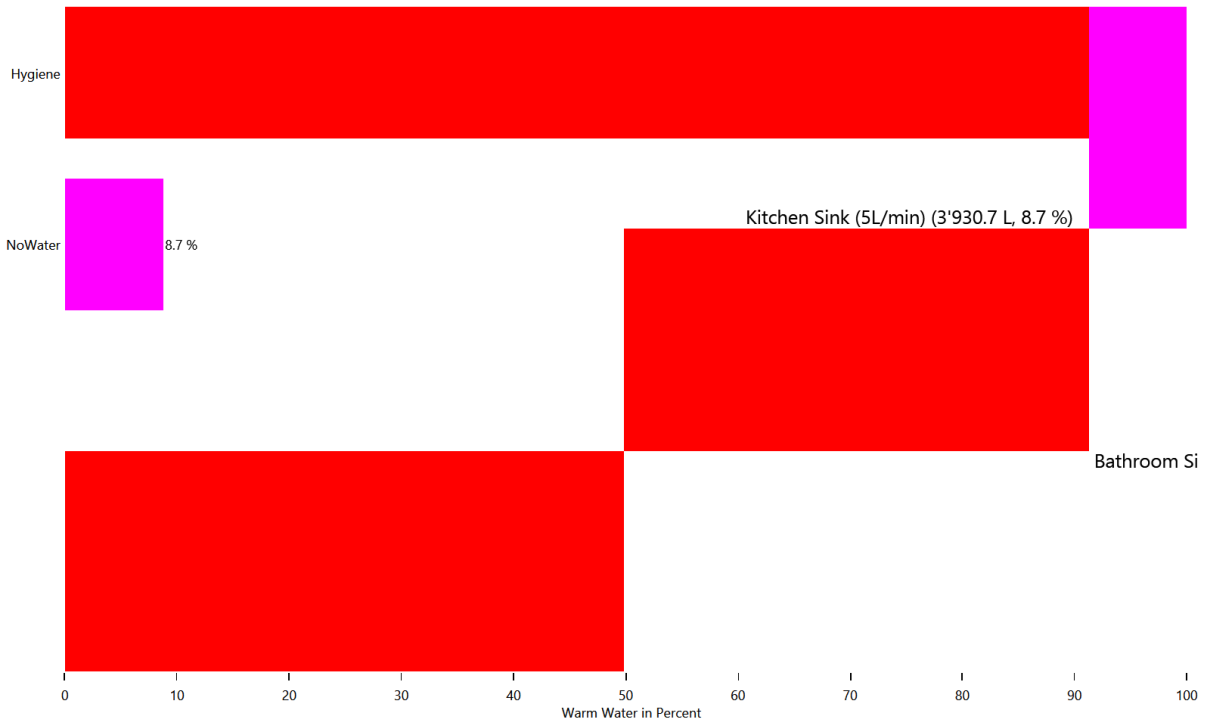
## Electricity



# Electricity

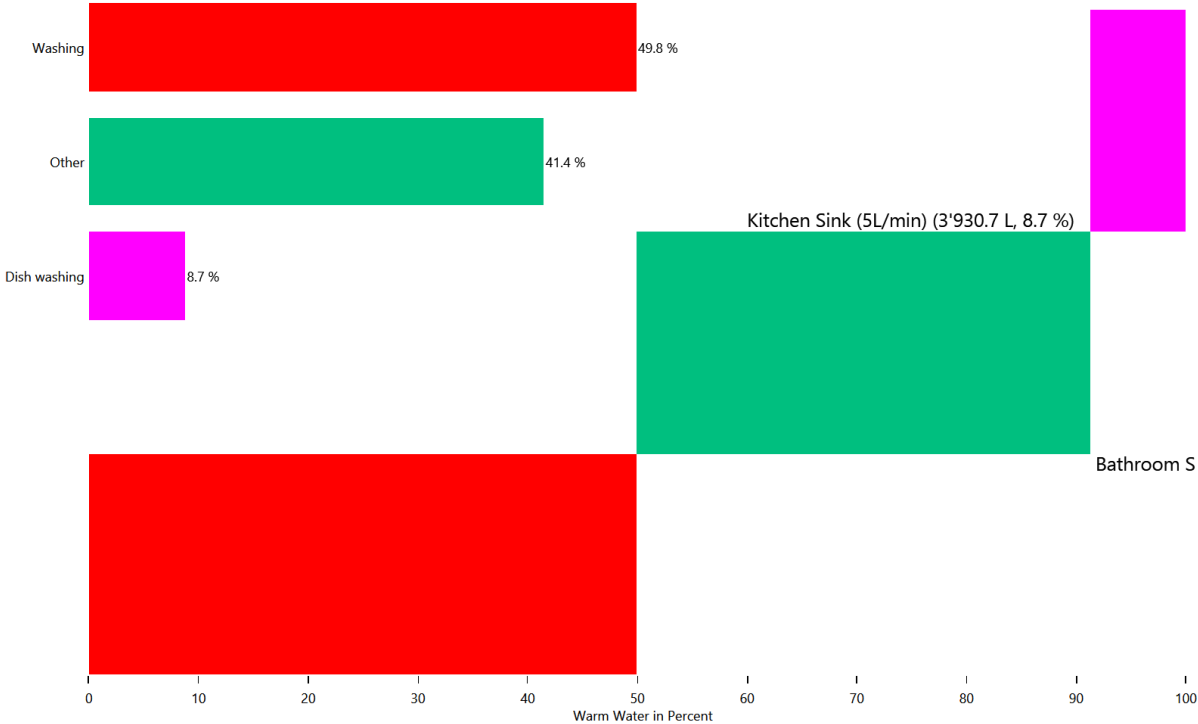


# Warm Water





# Warm Water

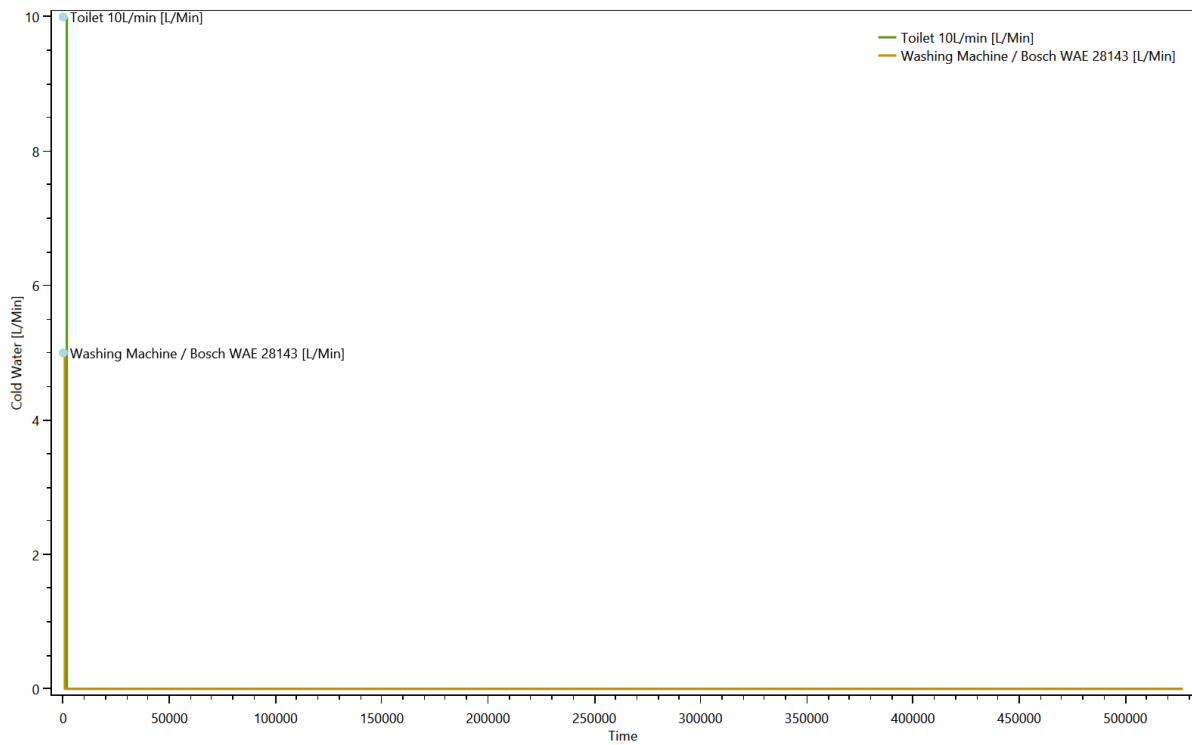


# Duration curve for each device for each load type

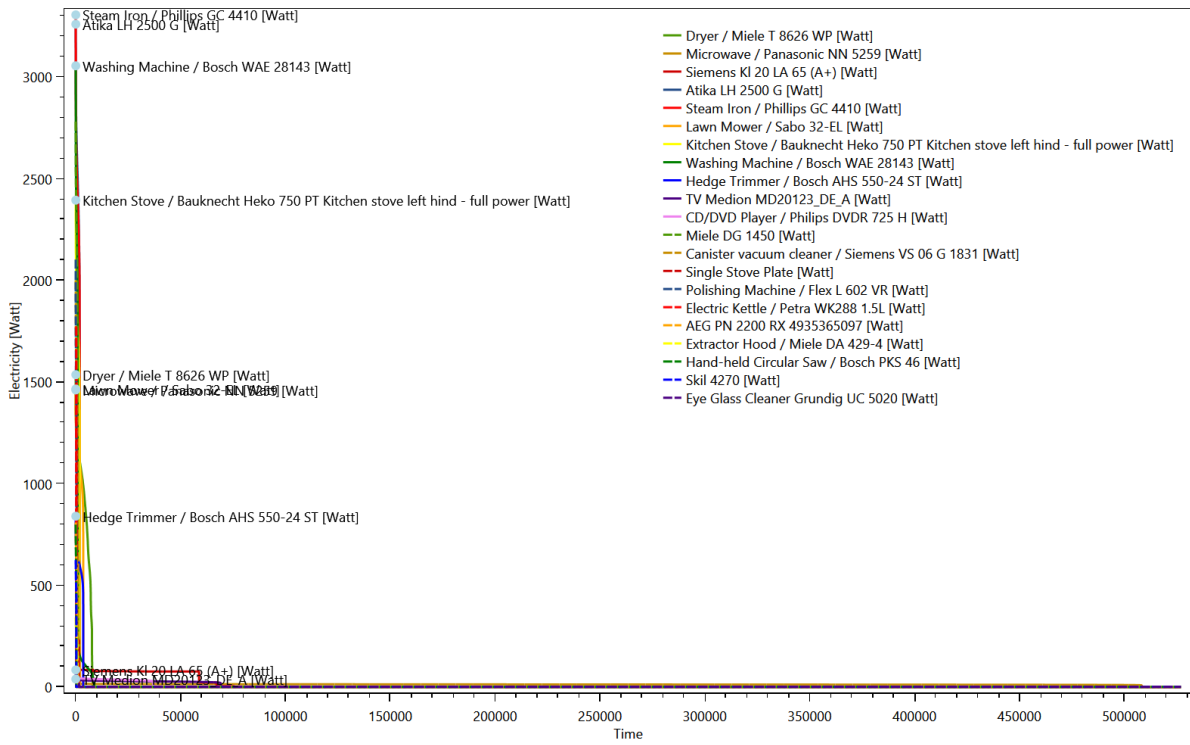
This is made from the files starting with: DeviceDurationCurves

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

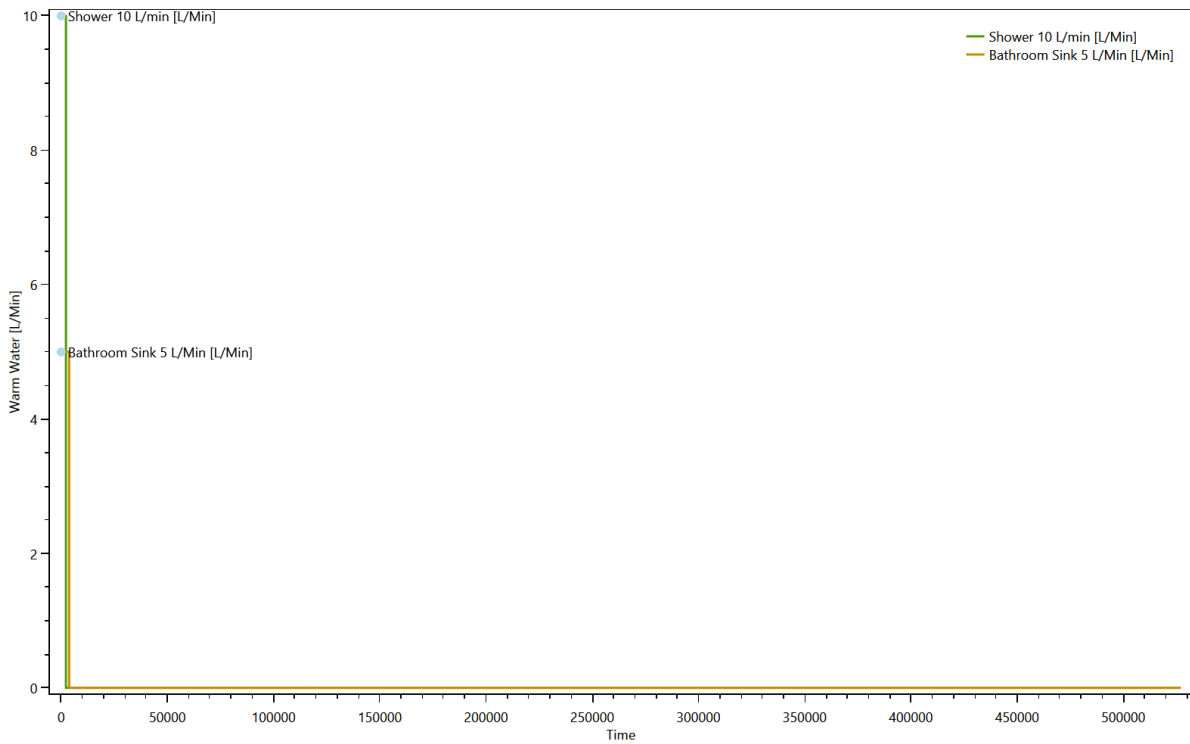
## Cold Water



## Electricity



## Warm Water

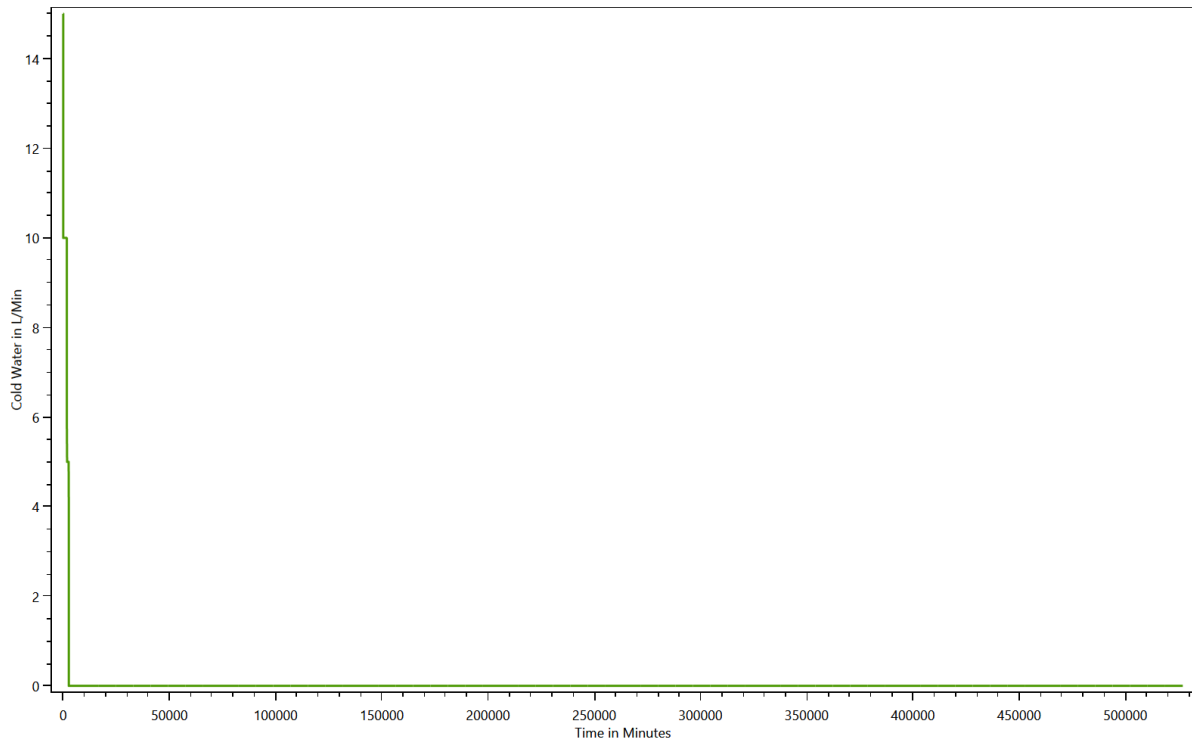


# Duration curve for each load type

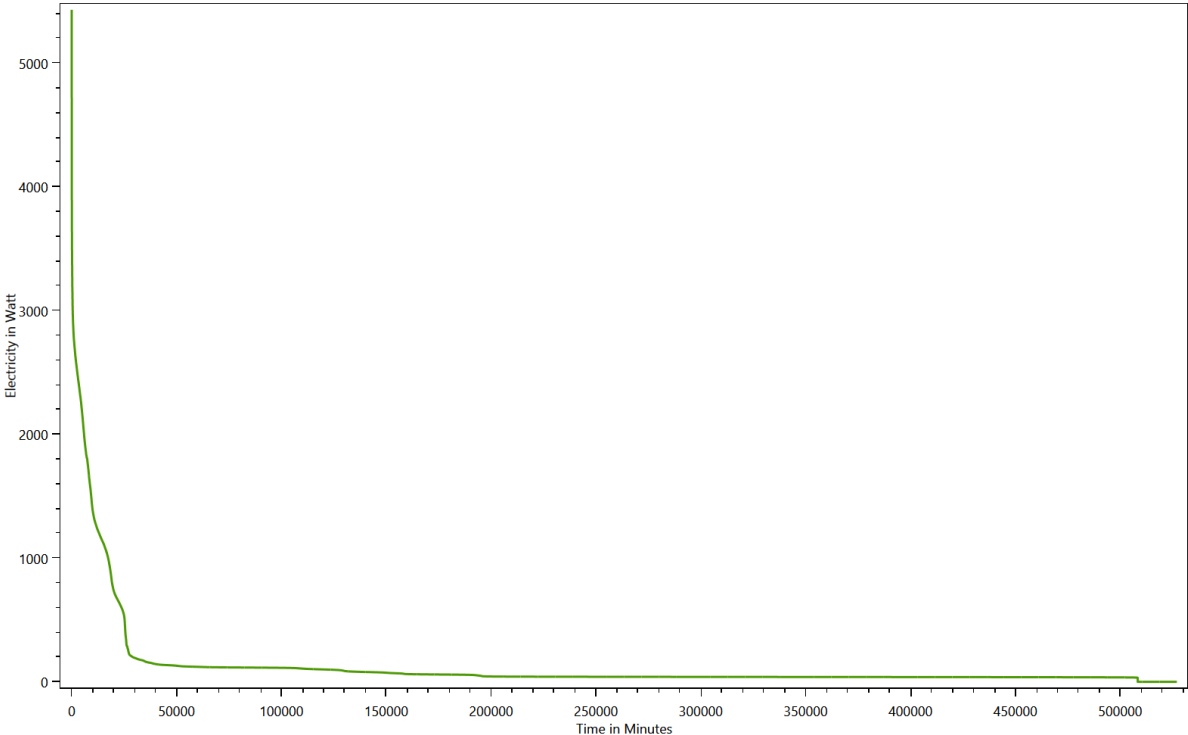
This is made from the files starting with: DurationCurve

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

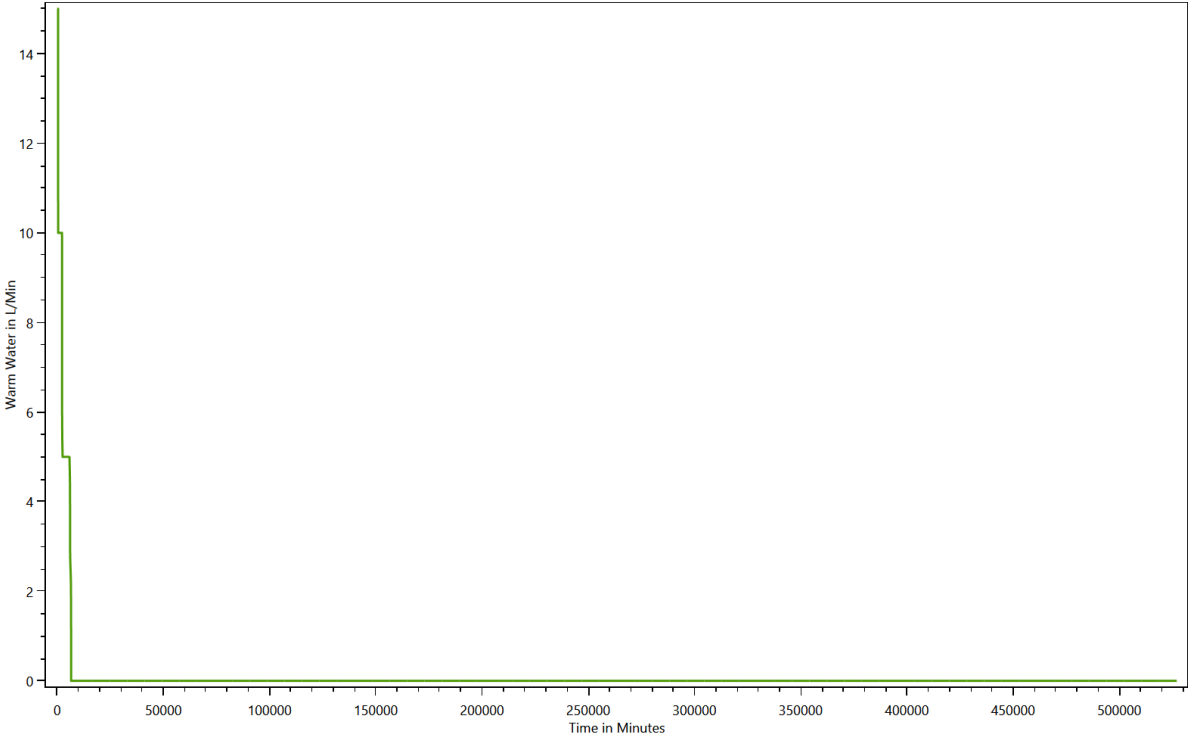
## Cold Water



# Electricity



# Warm Water

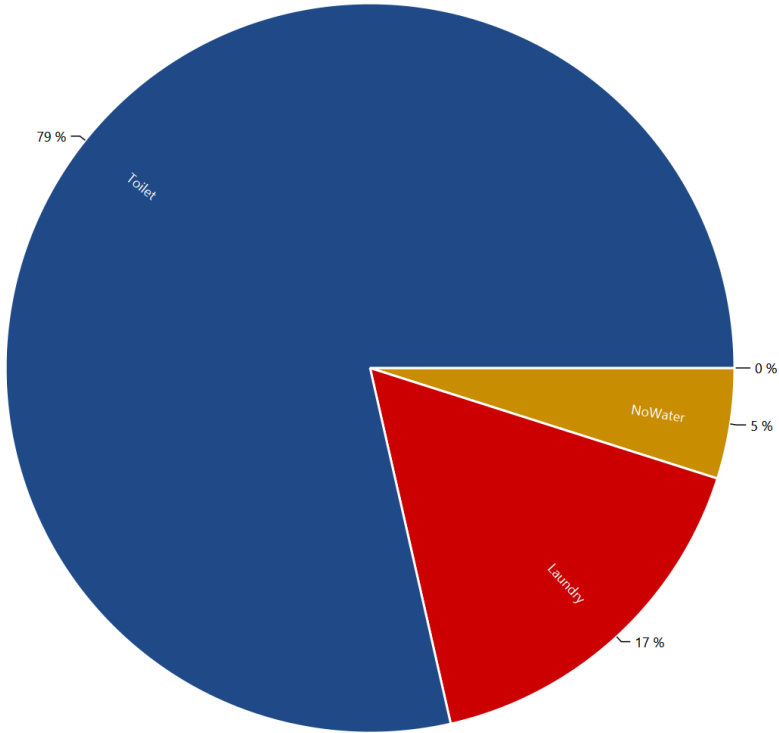


# Grouped energy use for each load type for each device

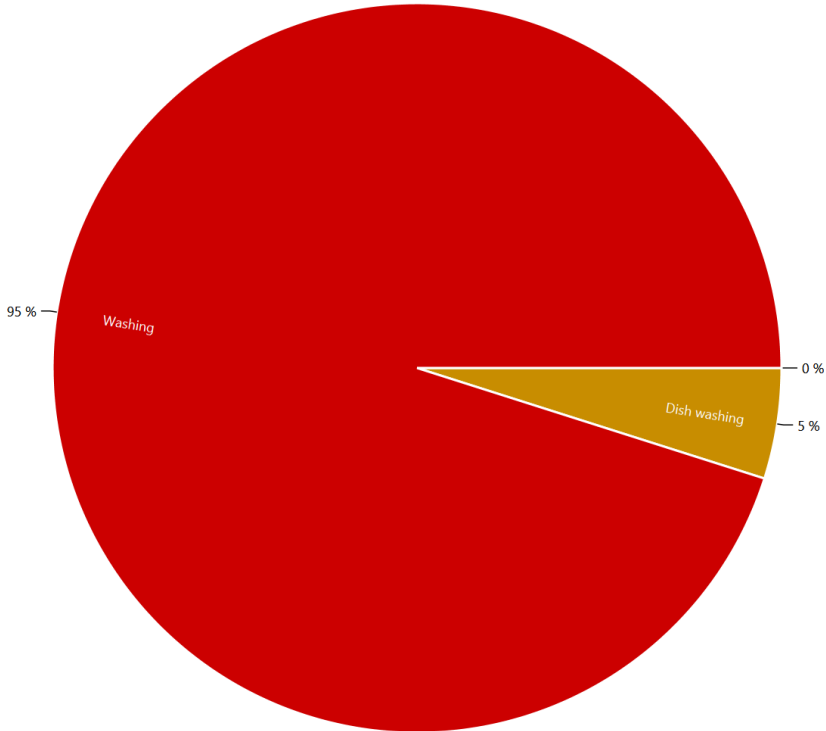
This is made from the files starting with: DeviceTaggingSet

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

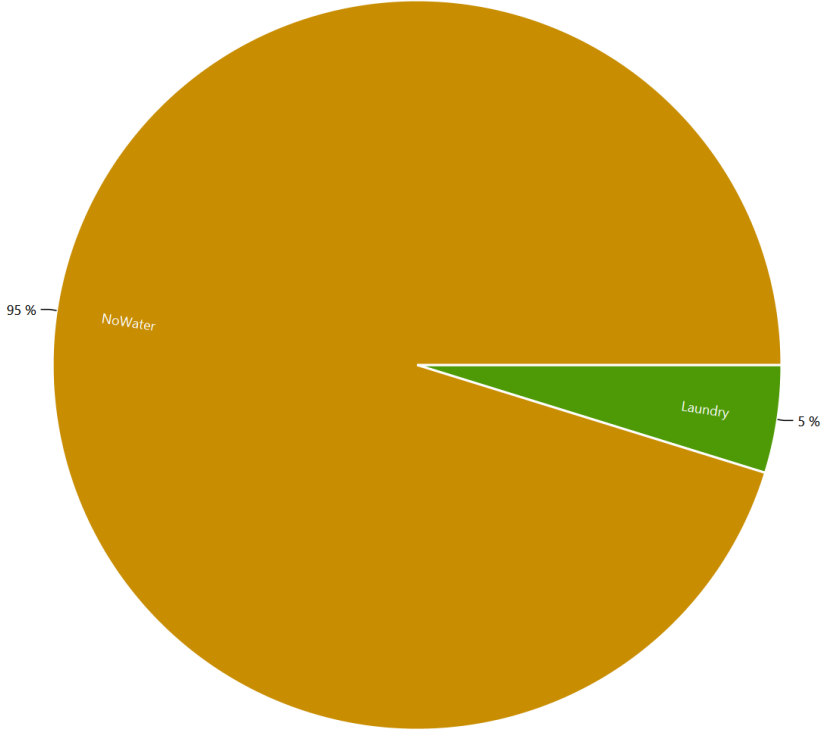
## HH0 - Destatis Water Usage Statistics - Cold Water



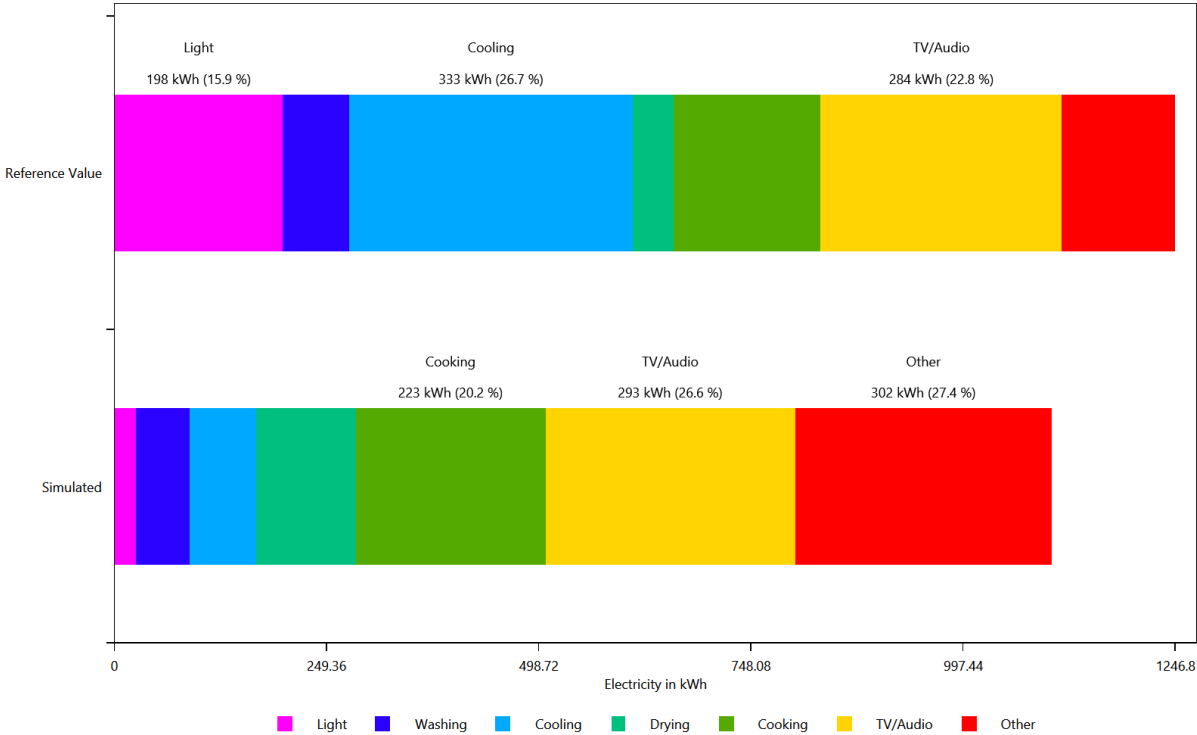
HH0 - Energieagentur - Cold Water



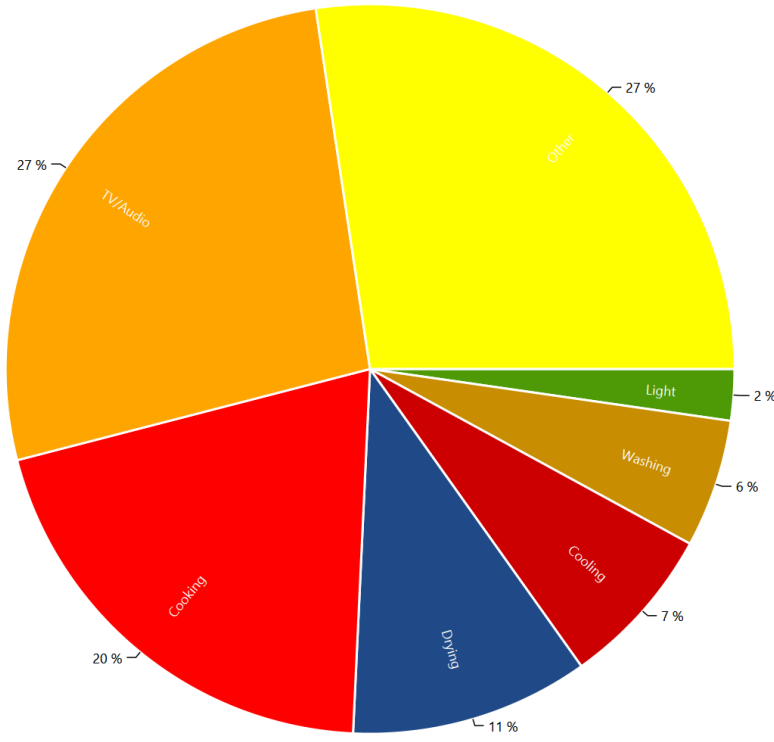
HH0 - Destatis Water Usage Statistics - Electricity



# HH0 - Energieagentur - Electricity

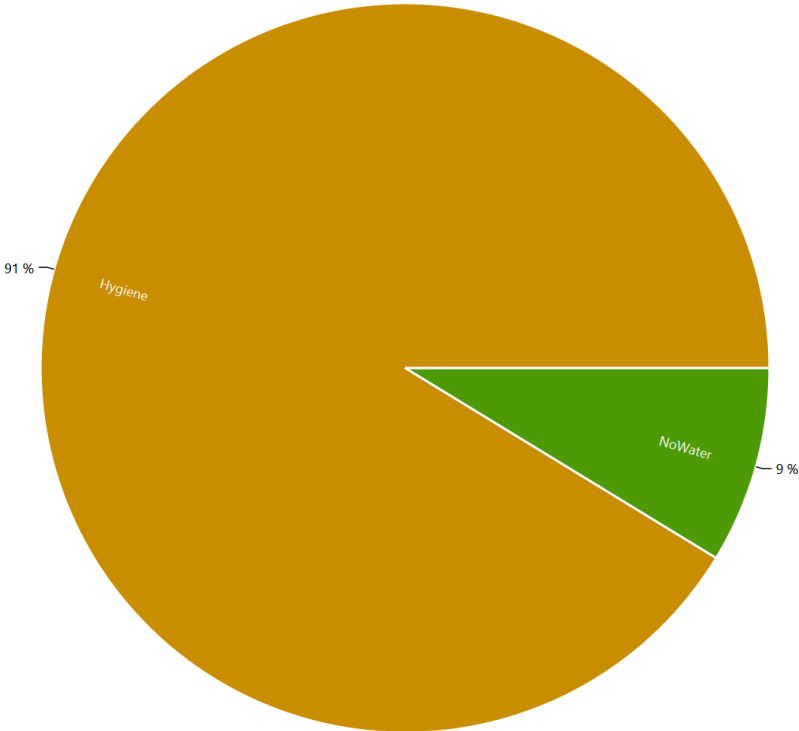


# HH0 - Energieagentur - Electricity

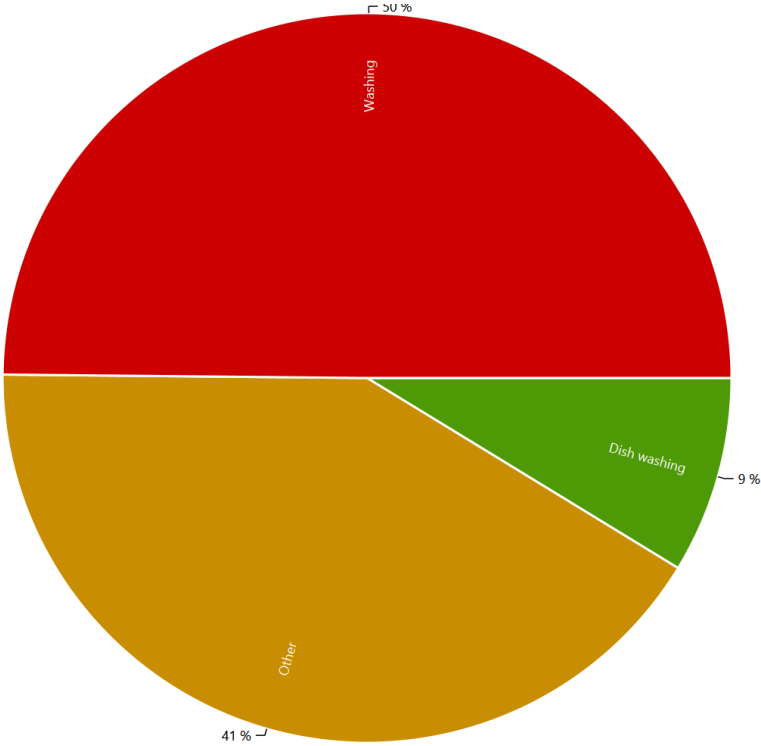




HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

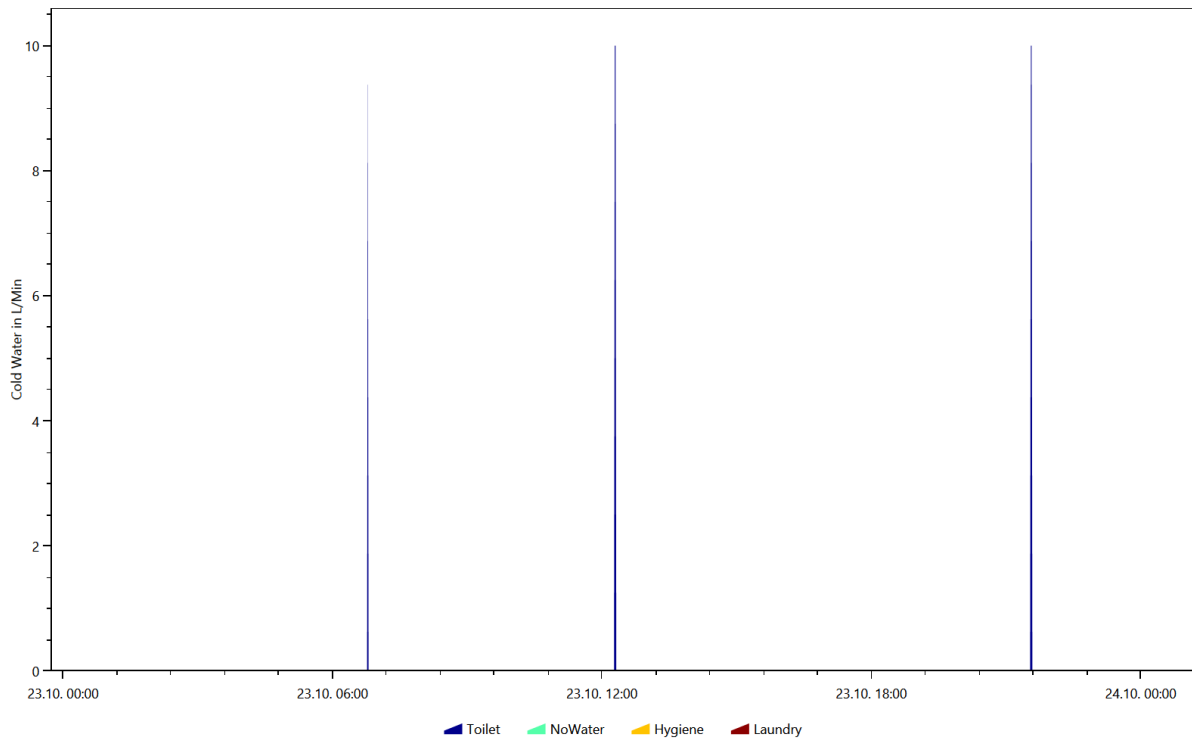


# Example of the device profiles for each load type

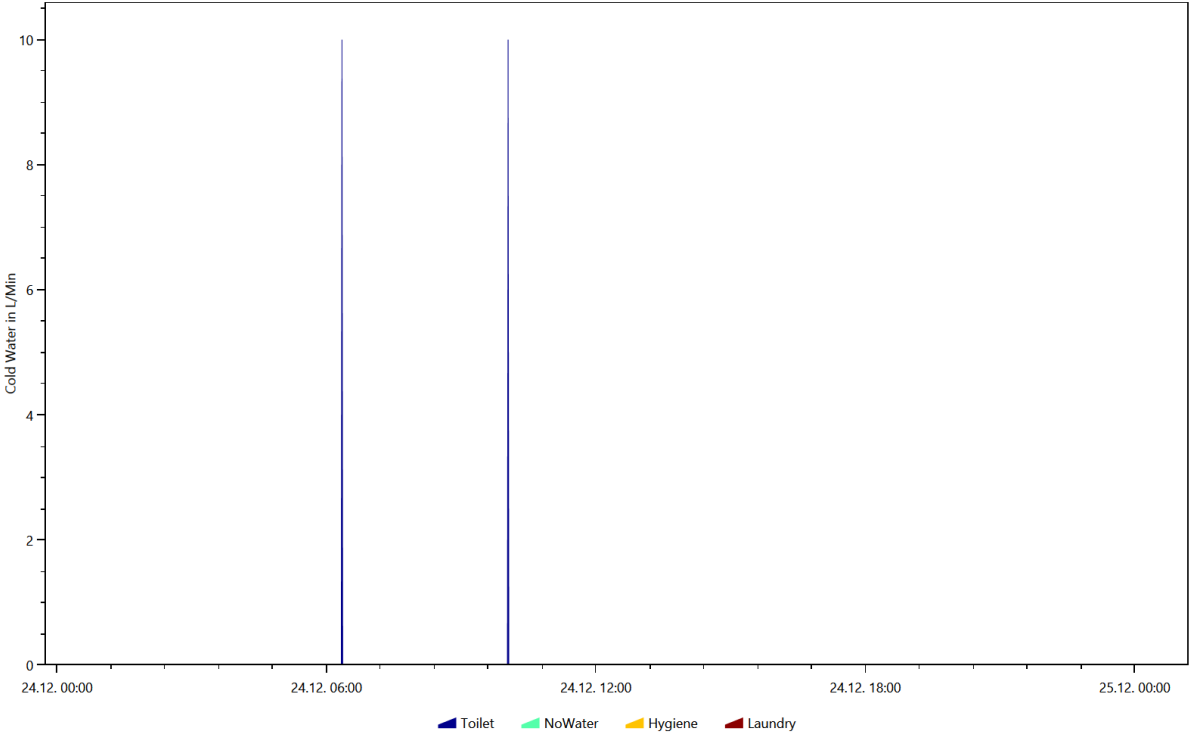
This is made from the files starting with: DeviceProfiles

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

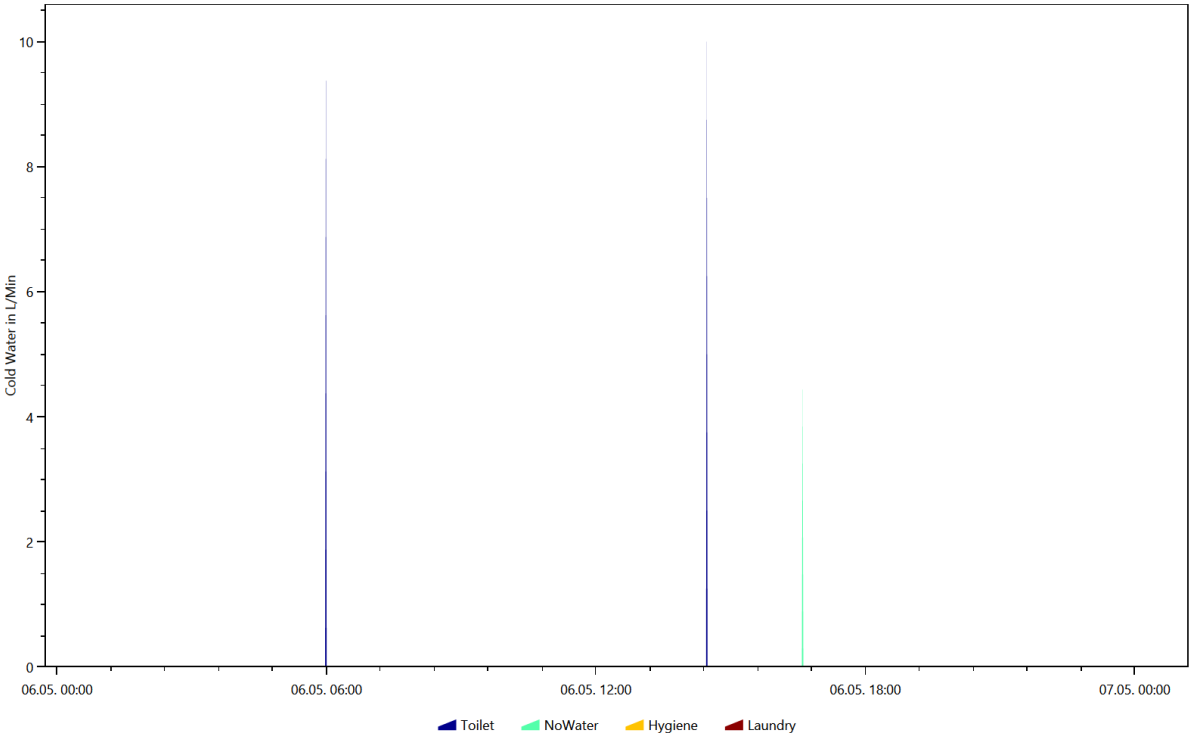
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.23



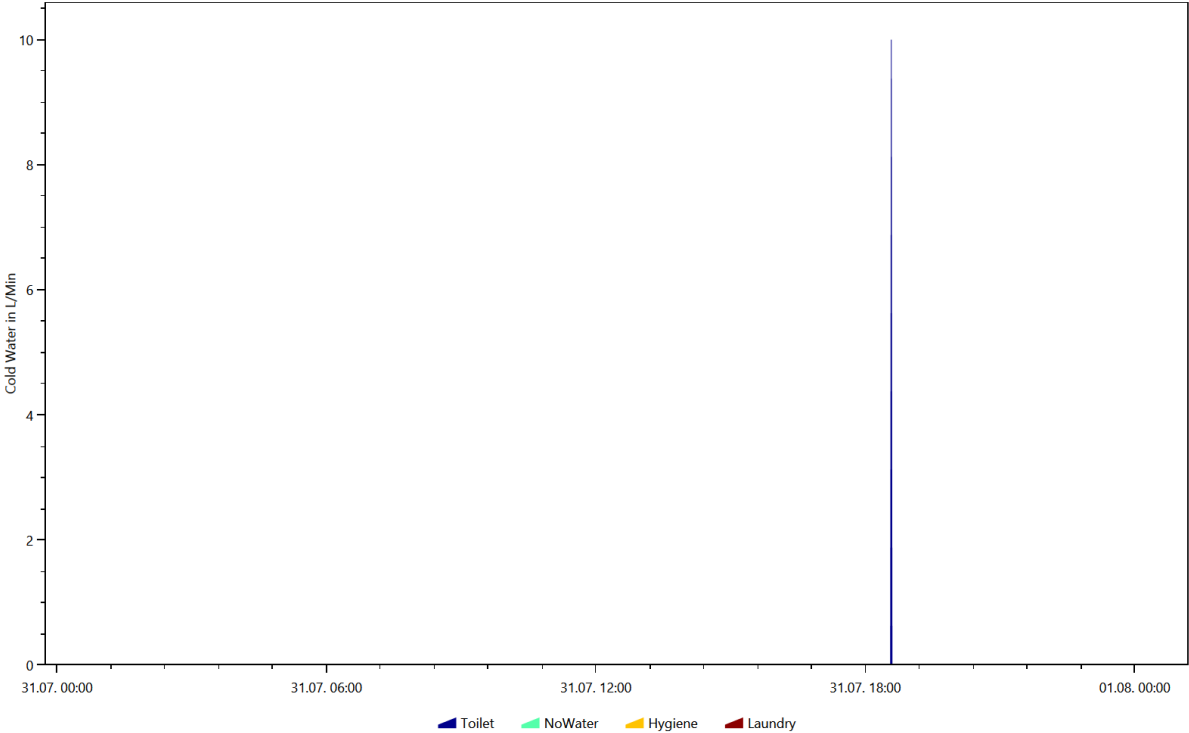
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.24



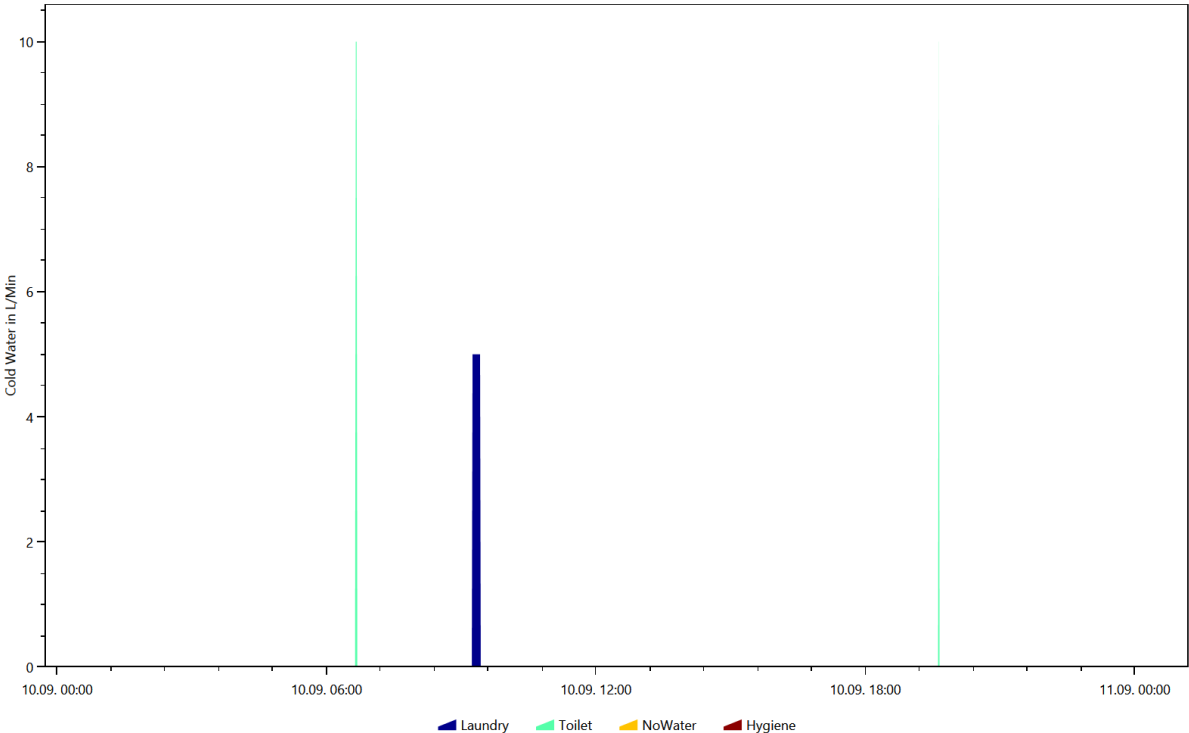
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.6



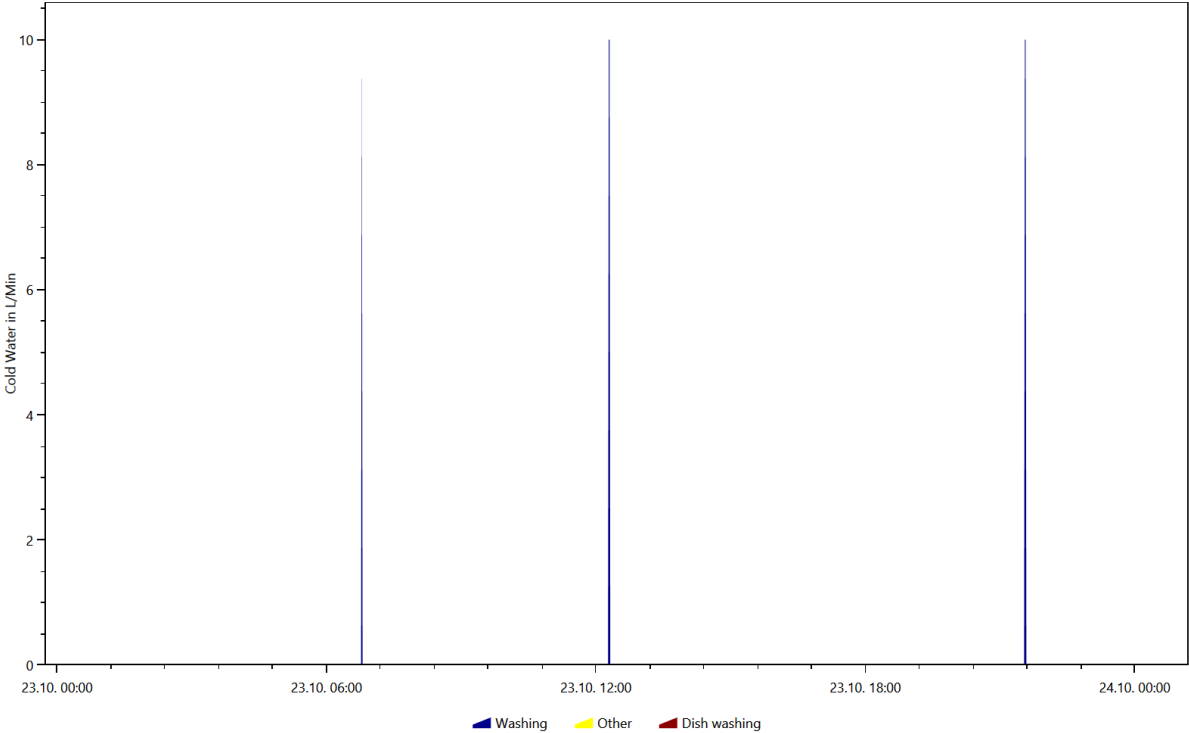
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.31



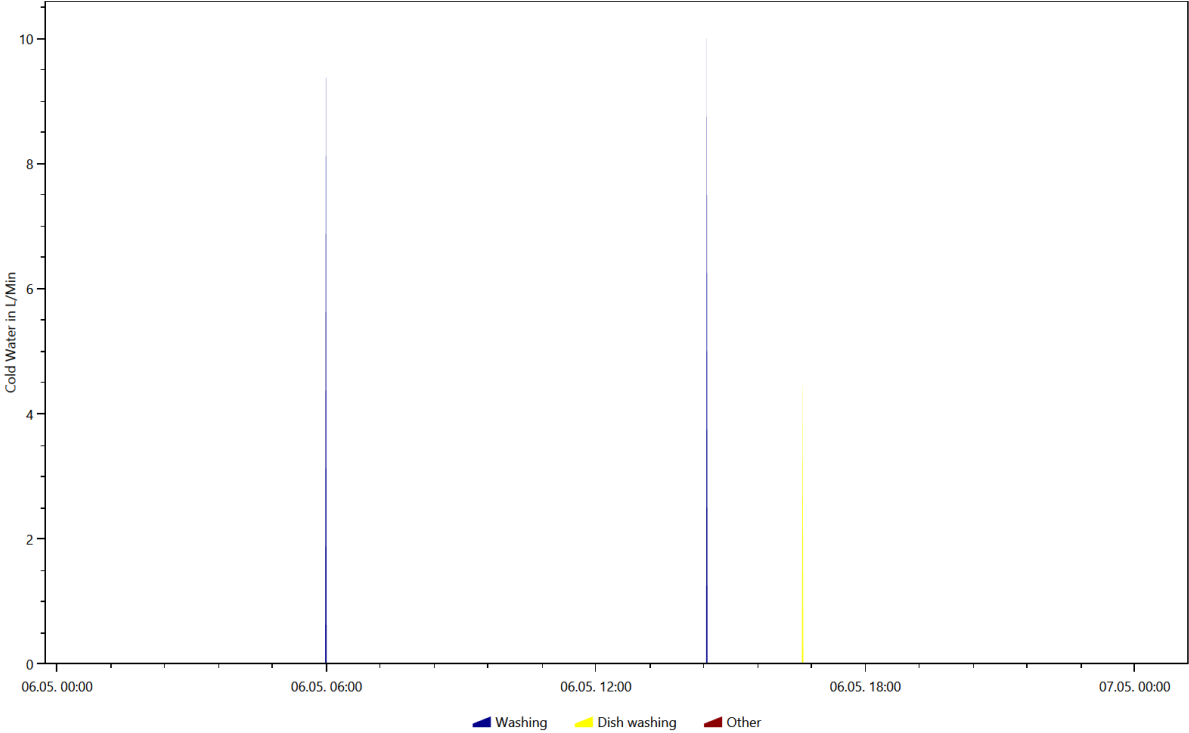
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.10



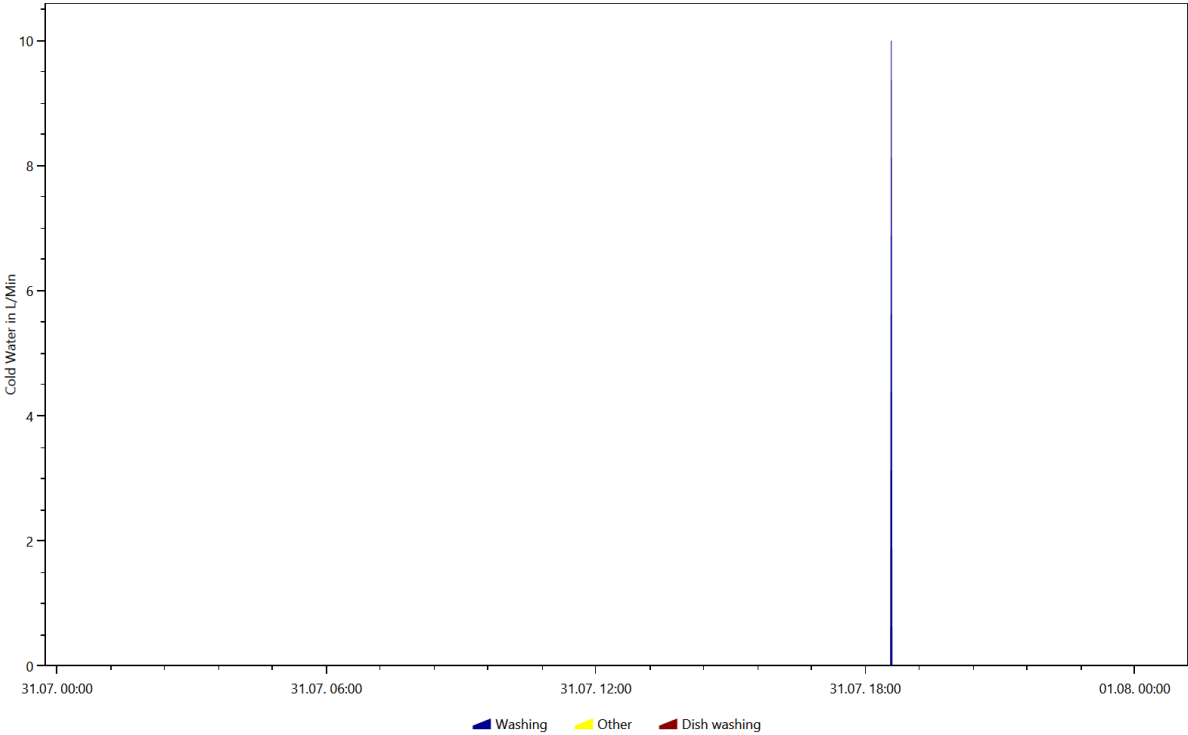
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.23



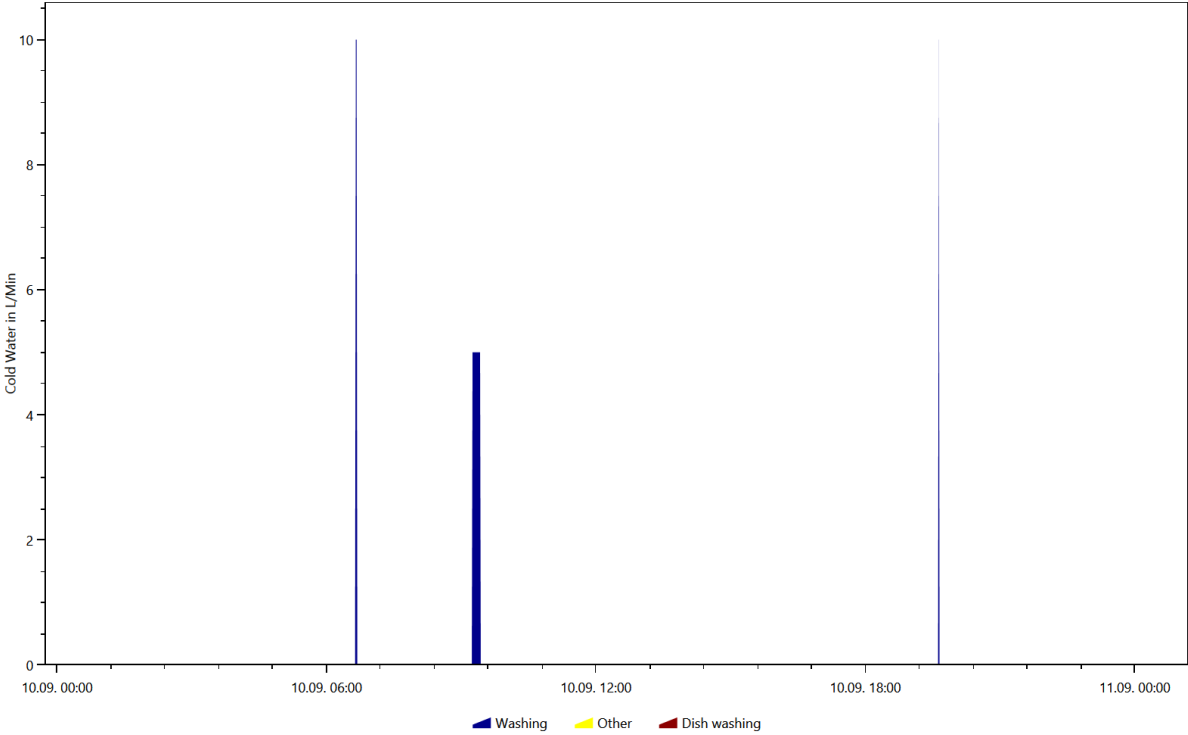
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.6



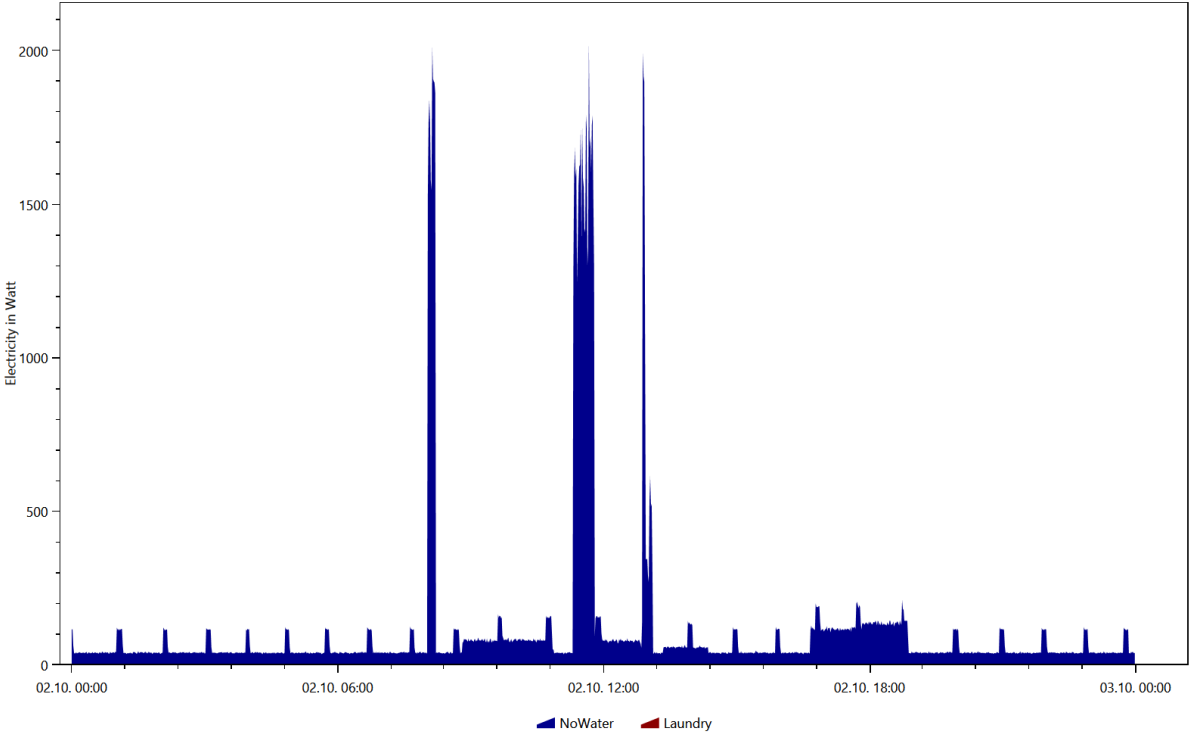
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.7.31



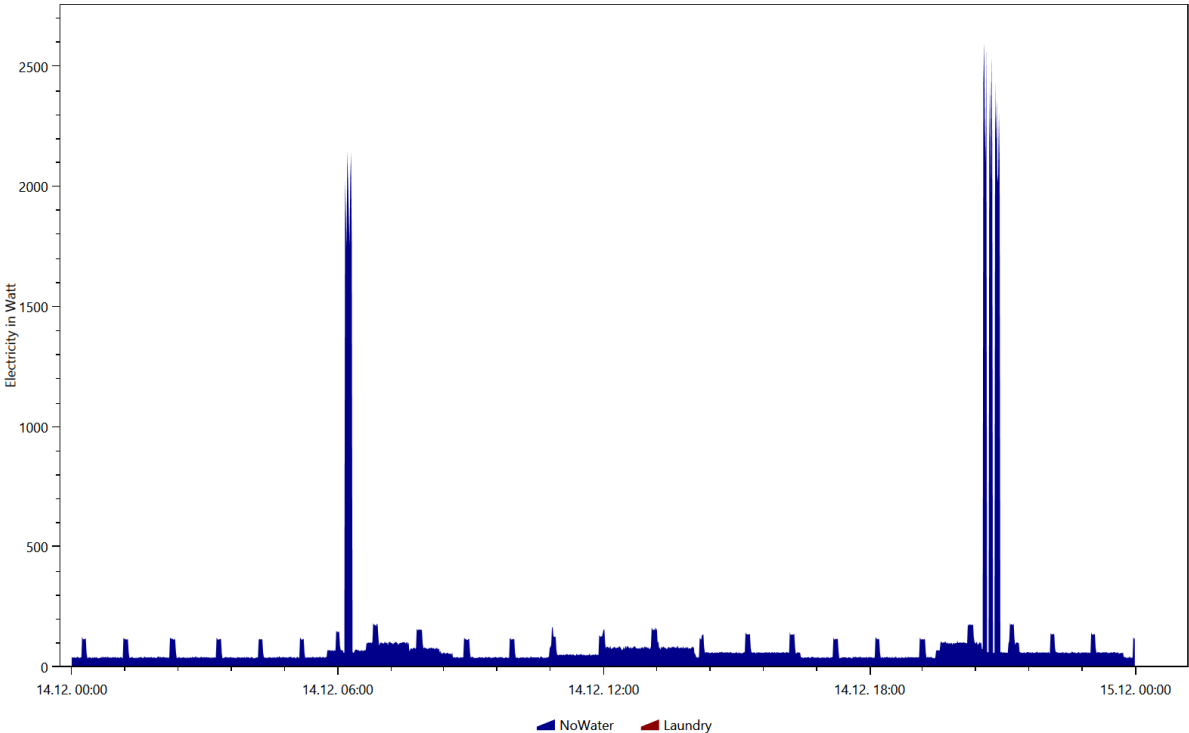
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.10



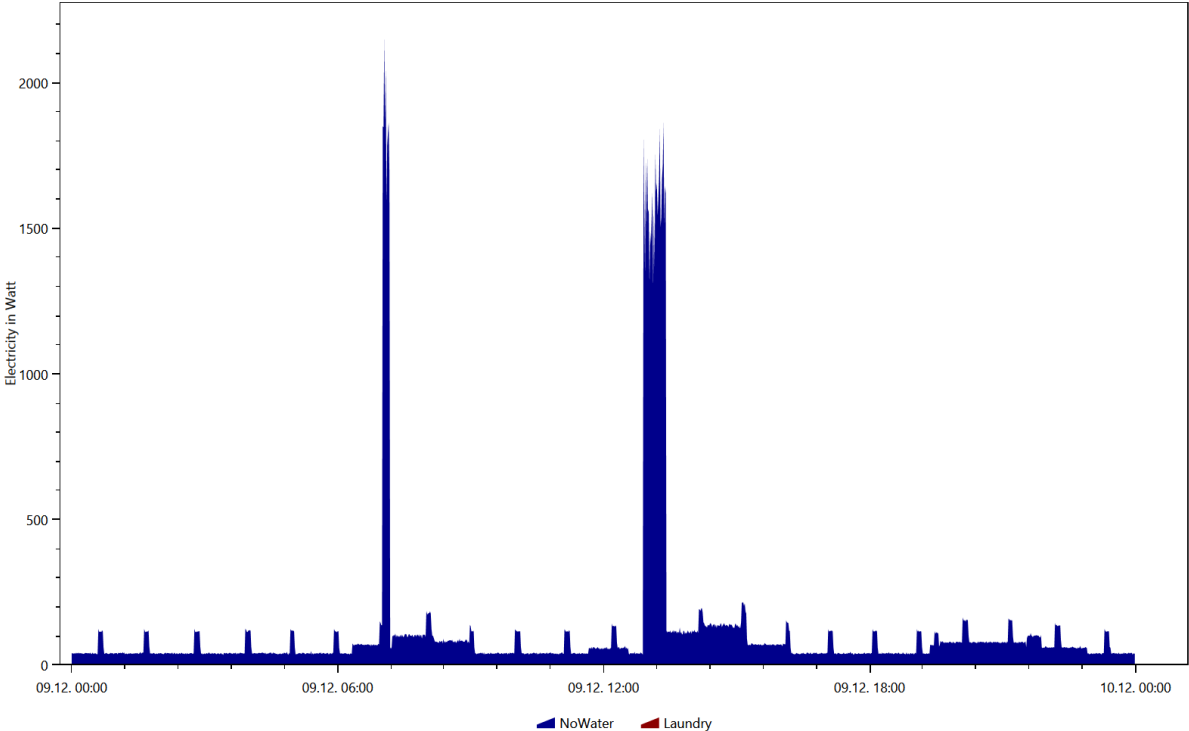
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.2



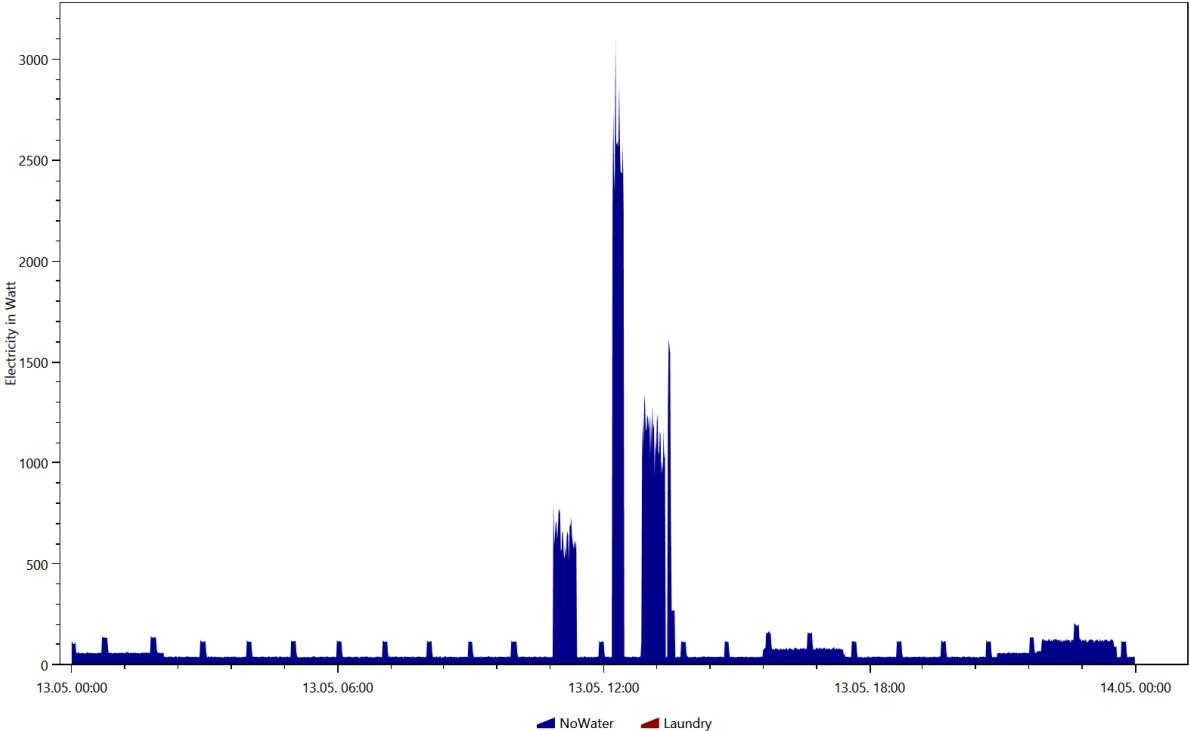
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.14



Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.9

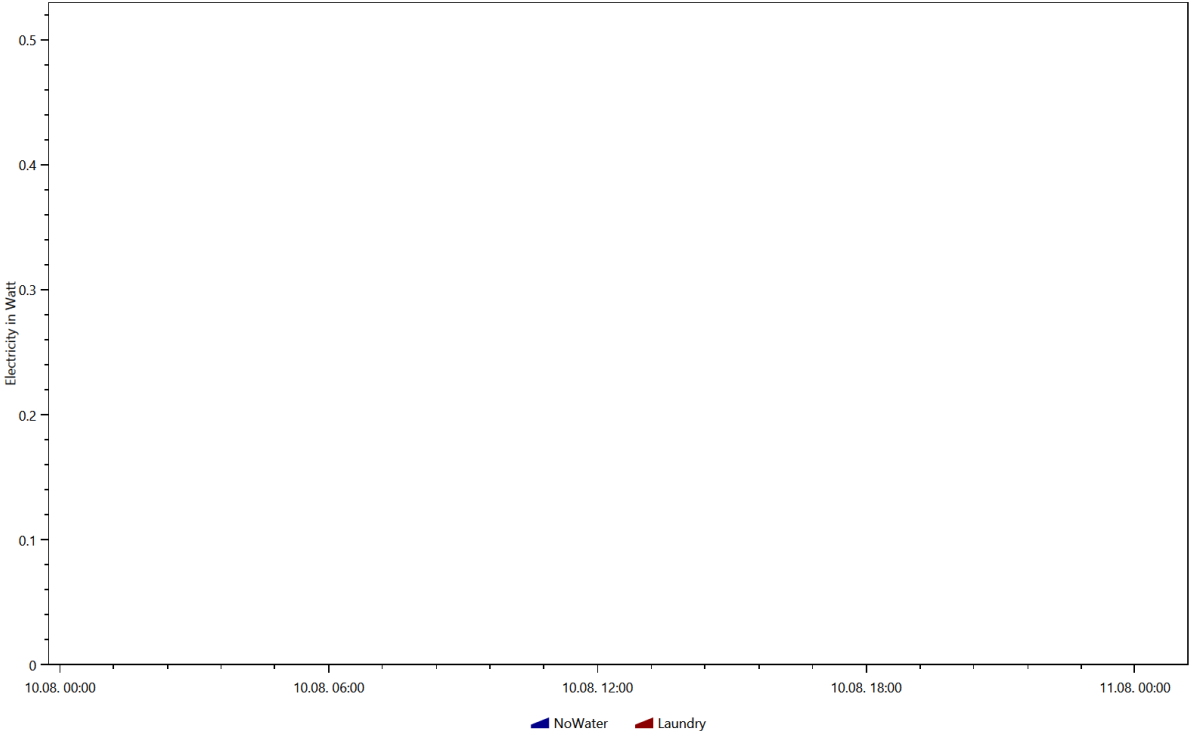


Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.13

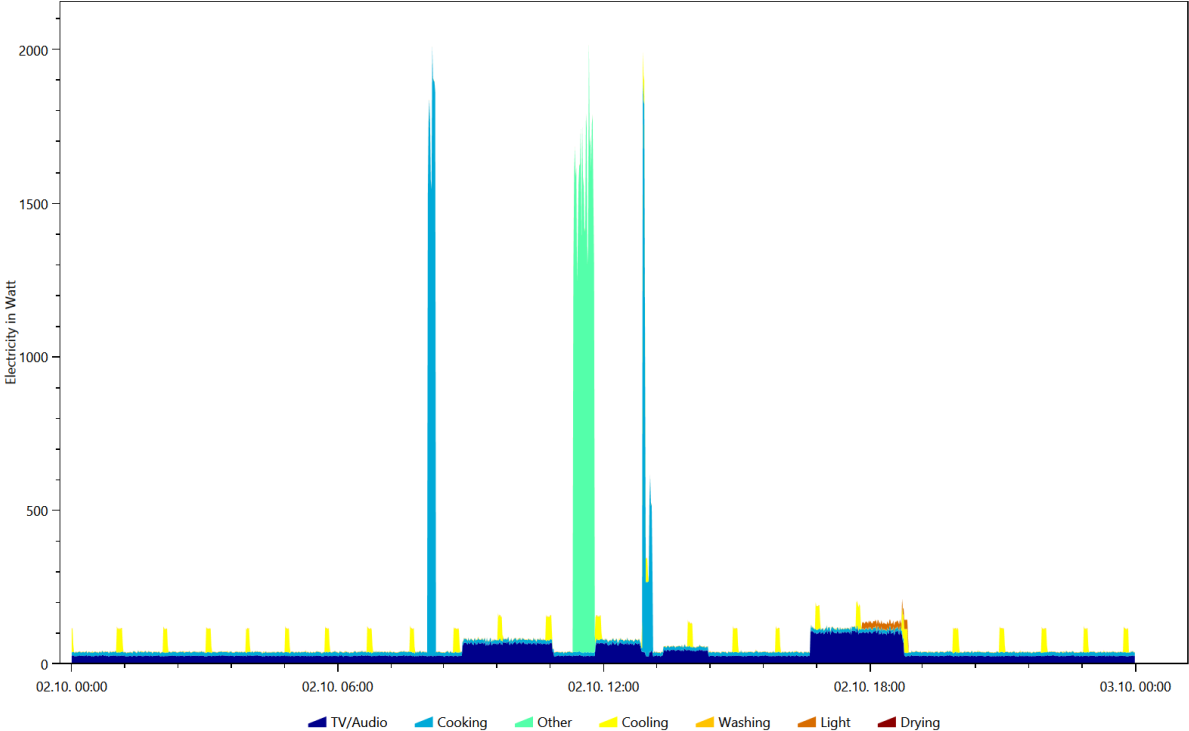




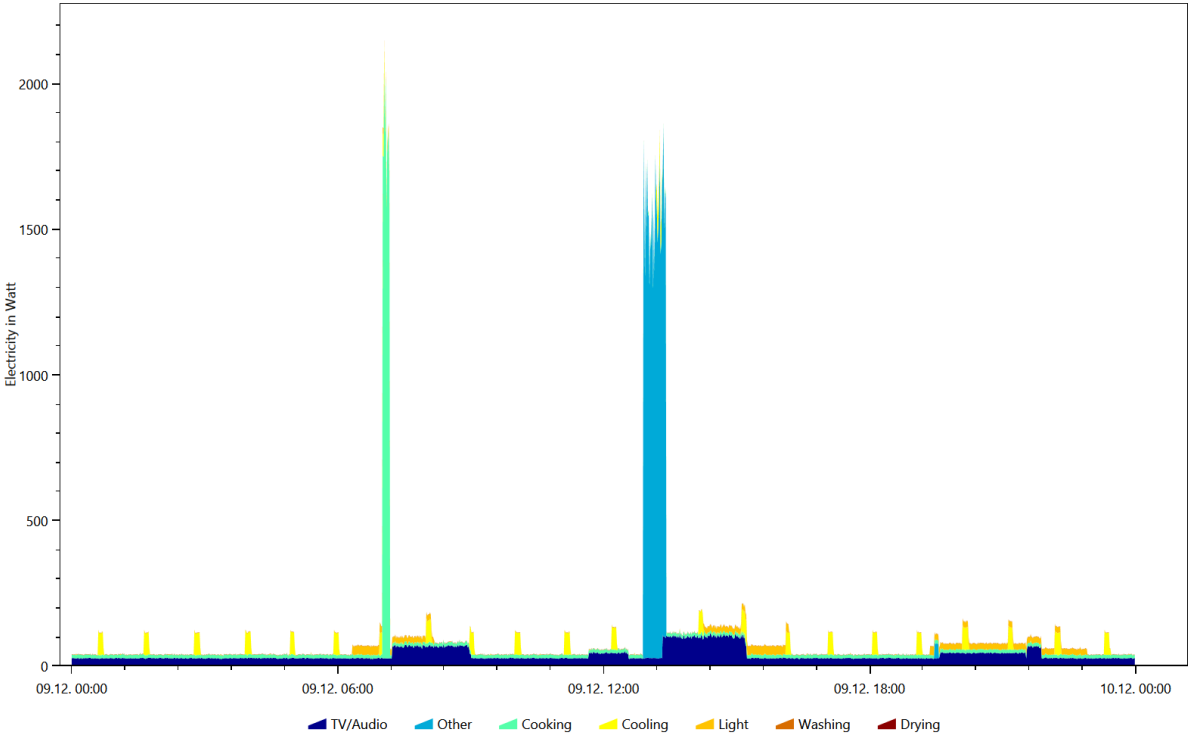
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.10



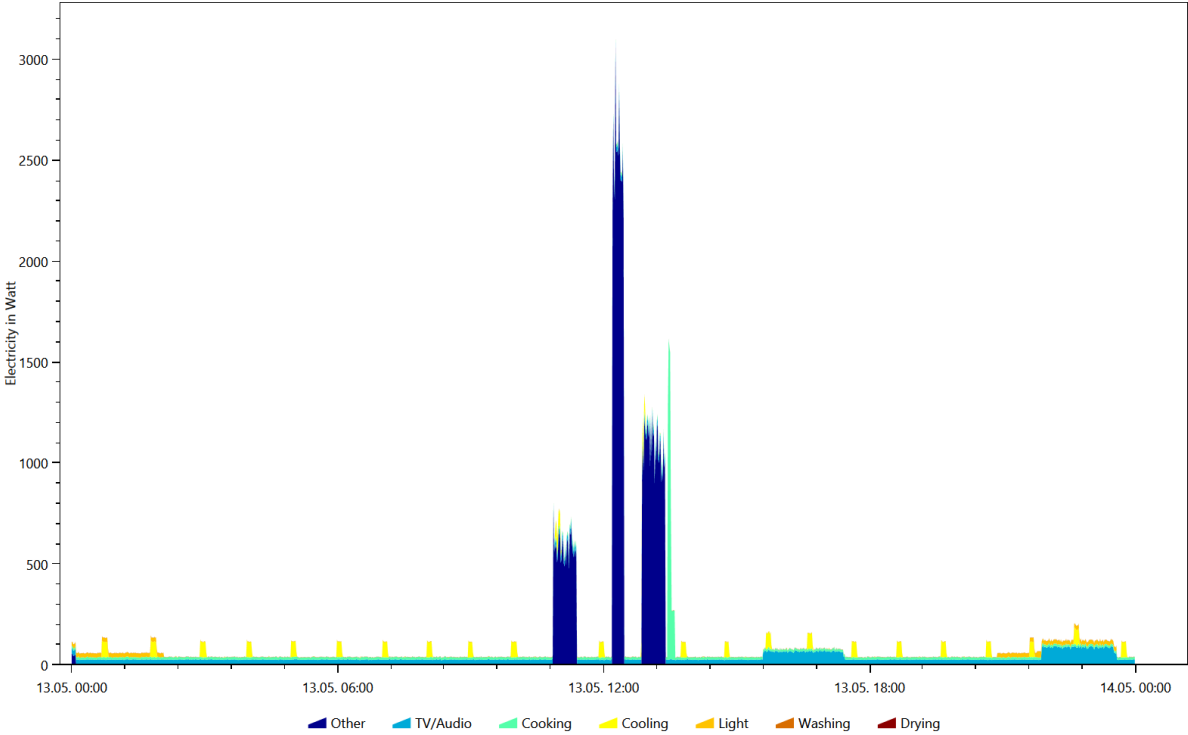
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.2



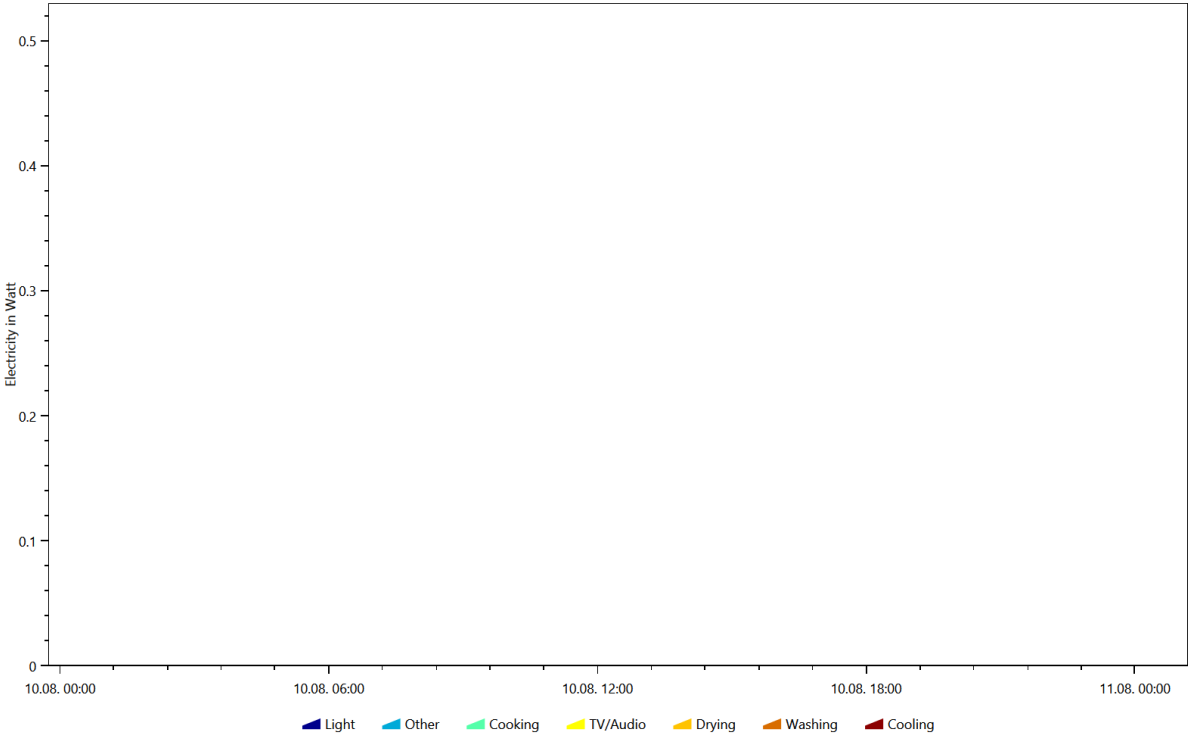
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.12.9



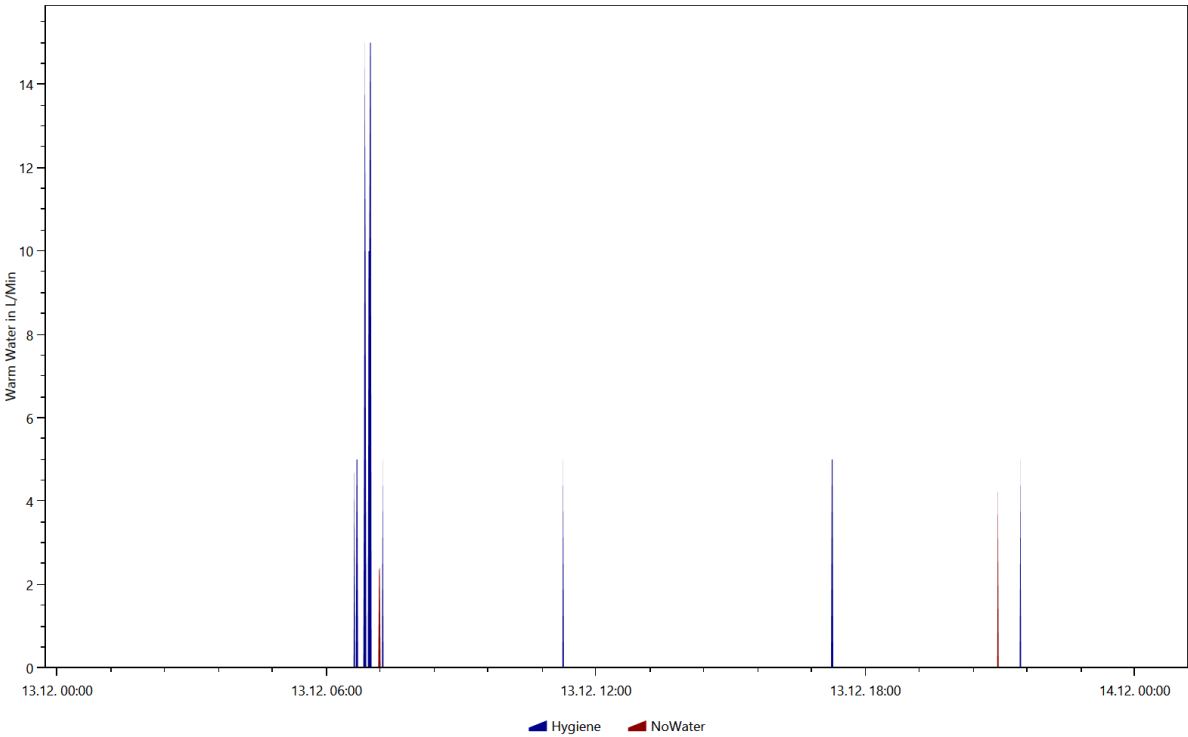
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.13



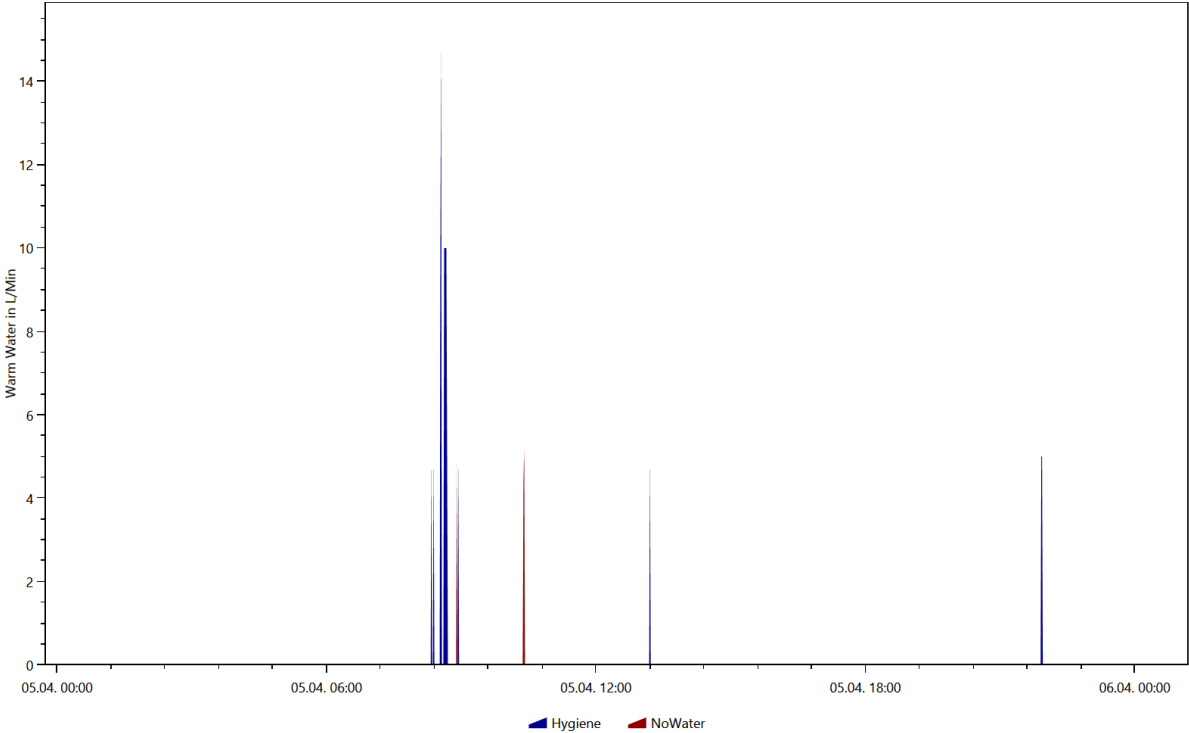
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.10



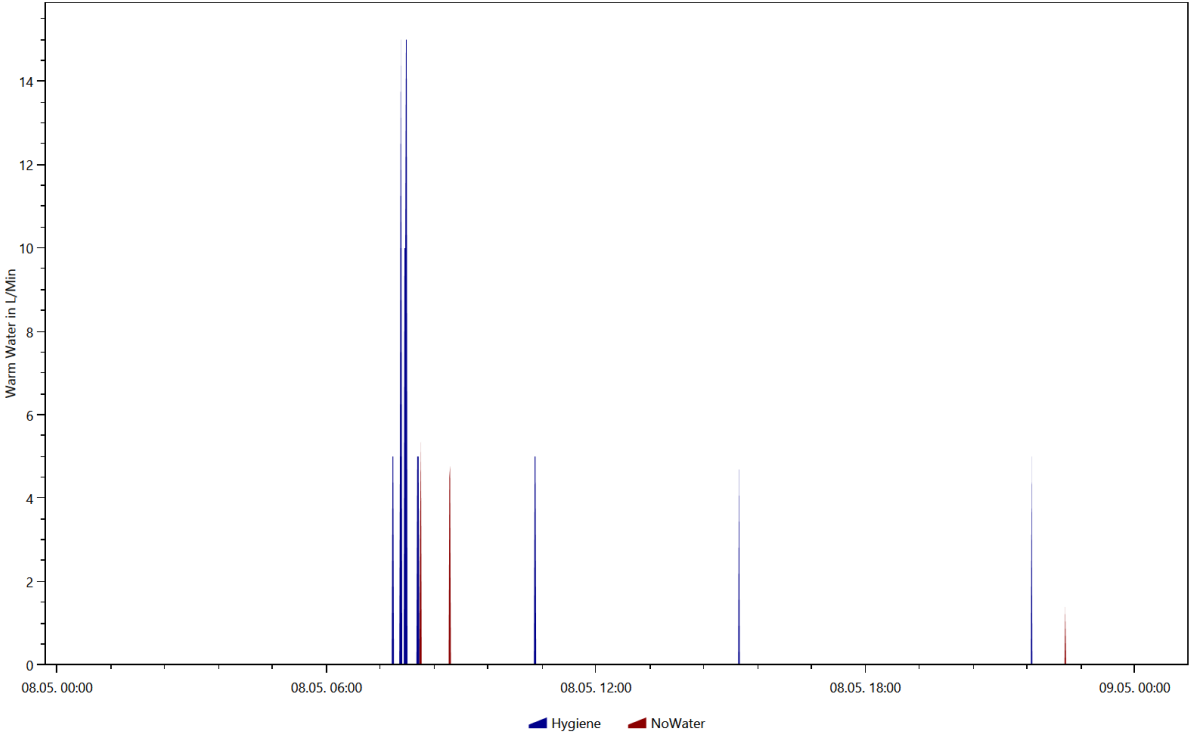
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.13



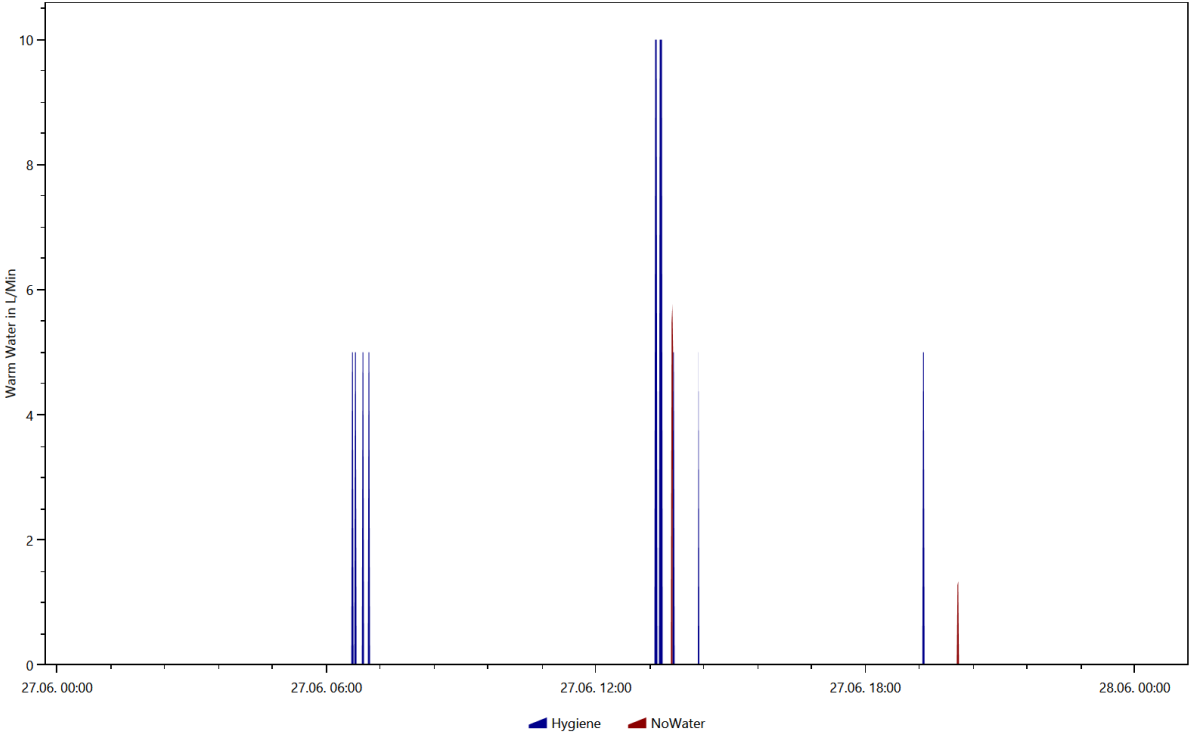
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.5



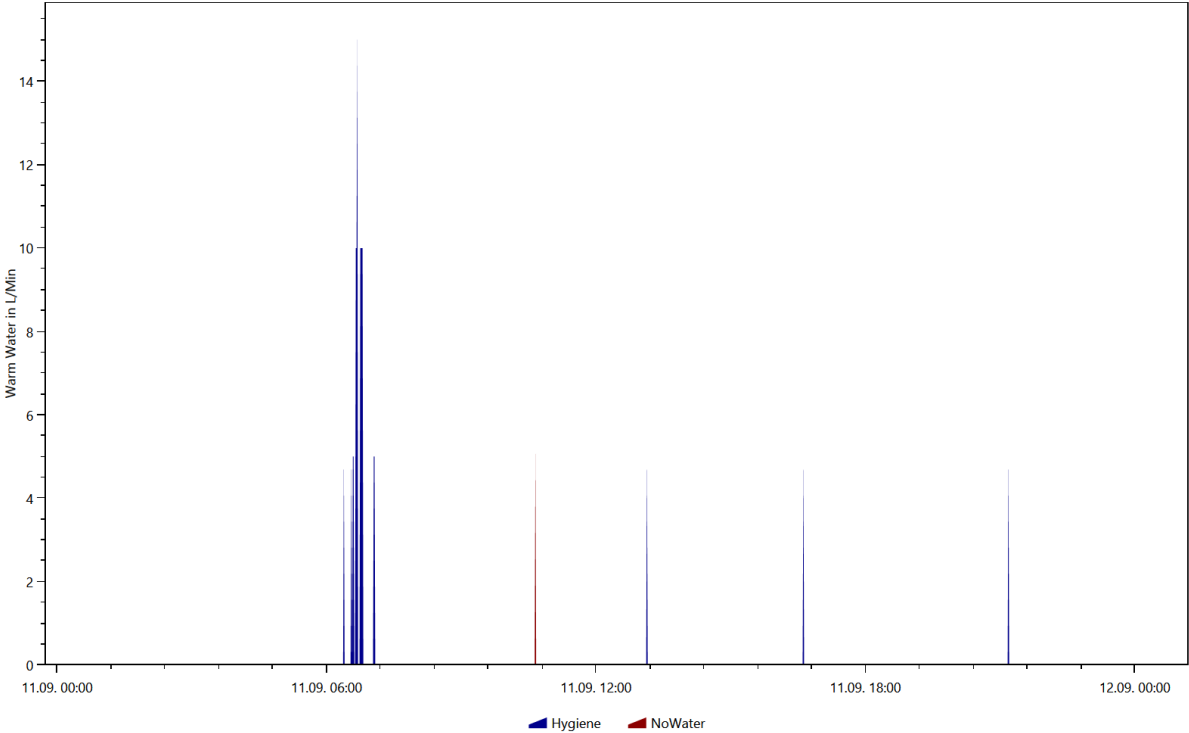
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.8



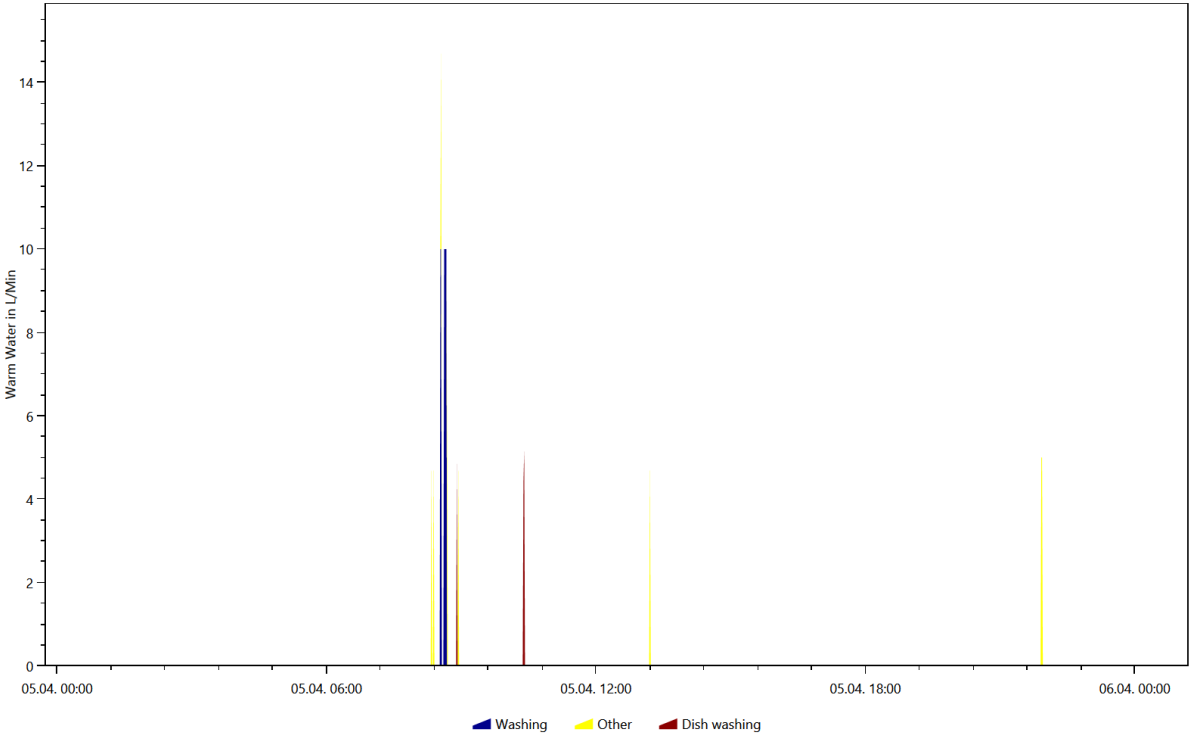
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.27



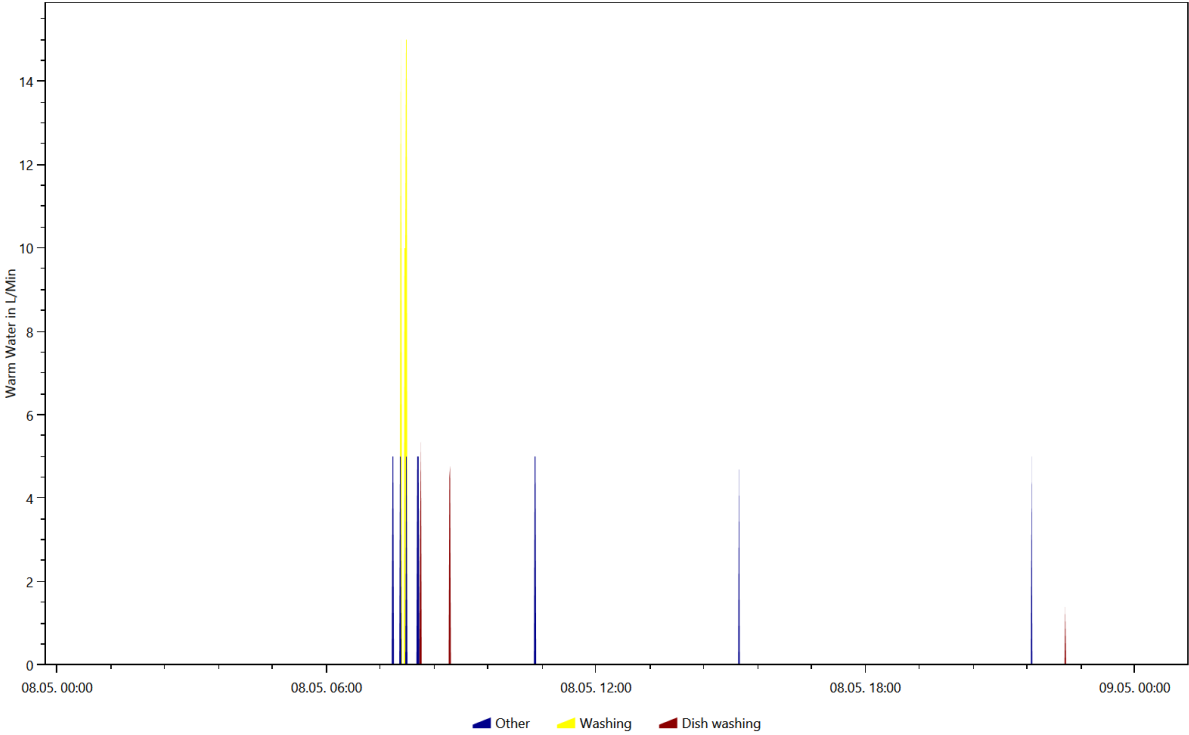
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.11



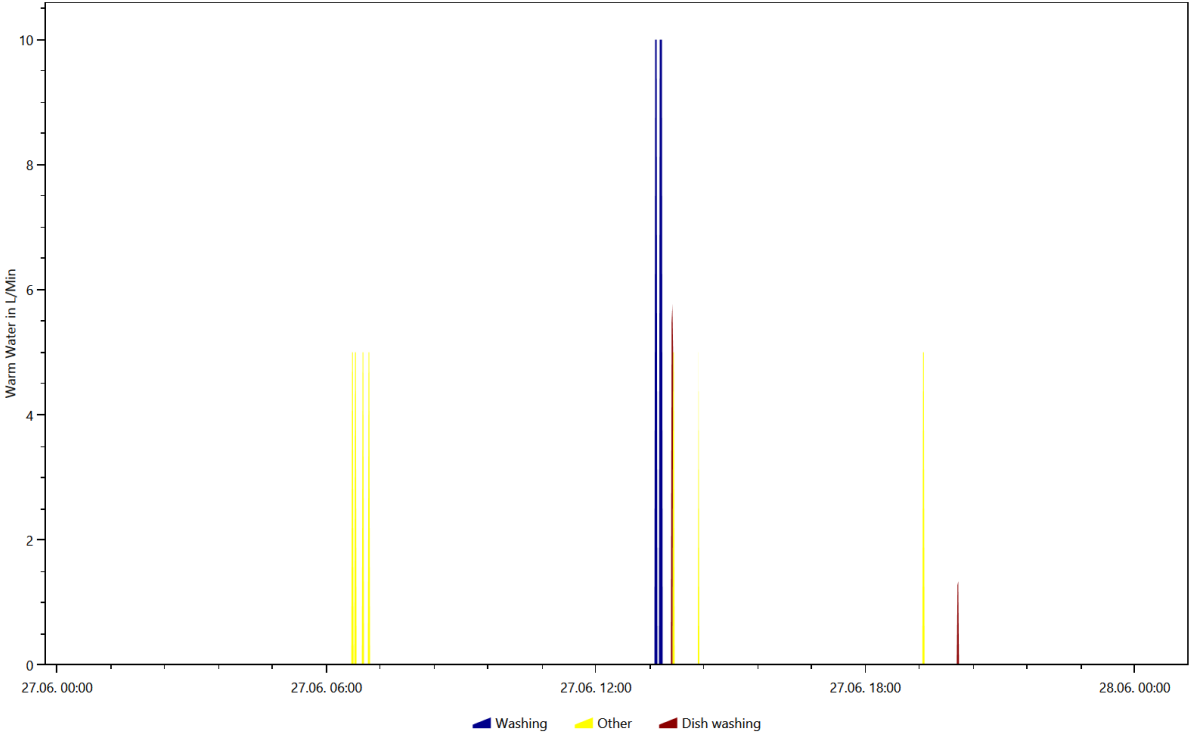
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.5



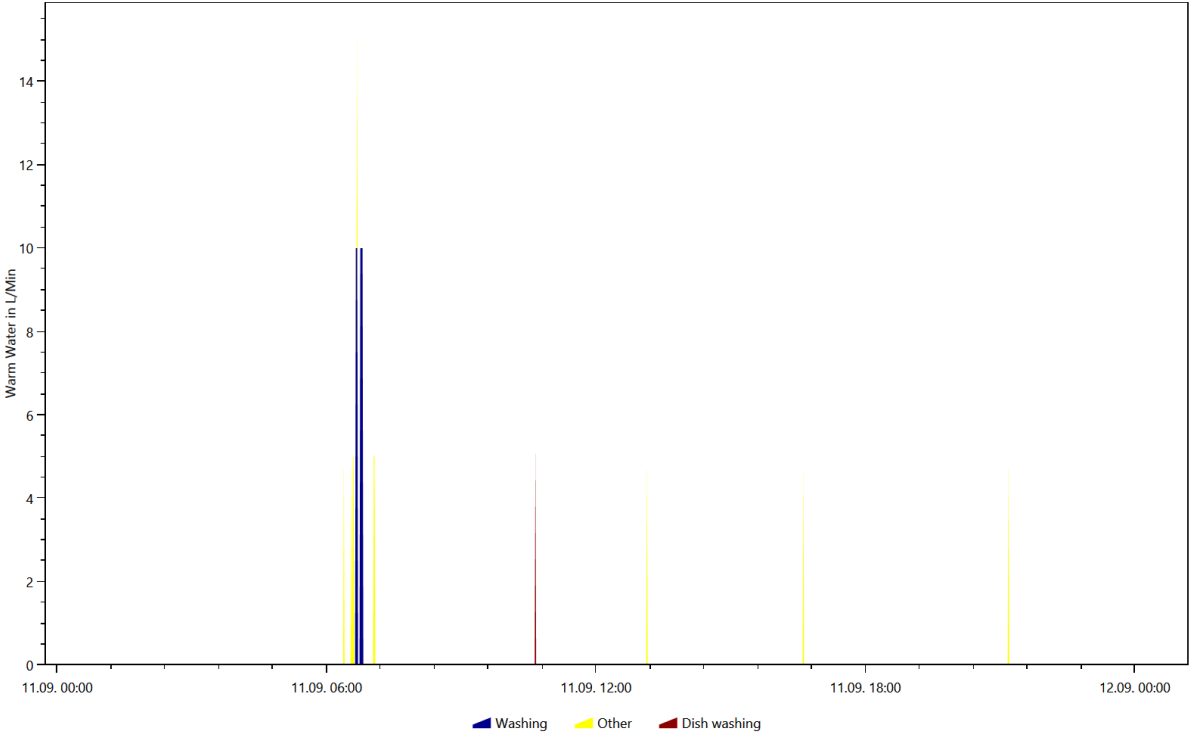
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.8



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.27



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.11

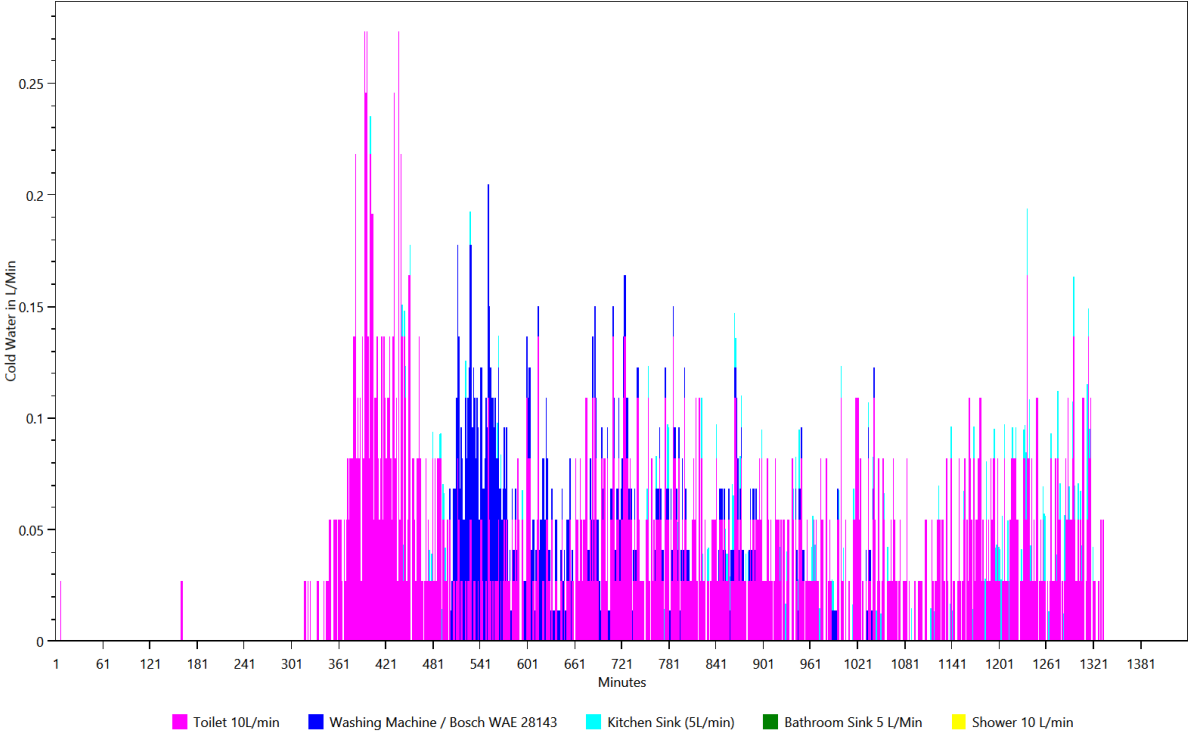


# Overview of the time and power of the use per load type per device

This is made from the files starting with: TimeOfUseEnergyProfiles

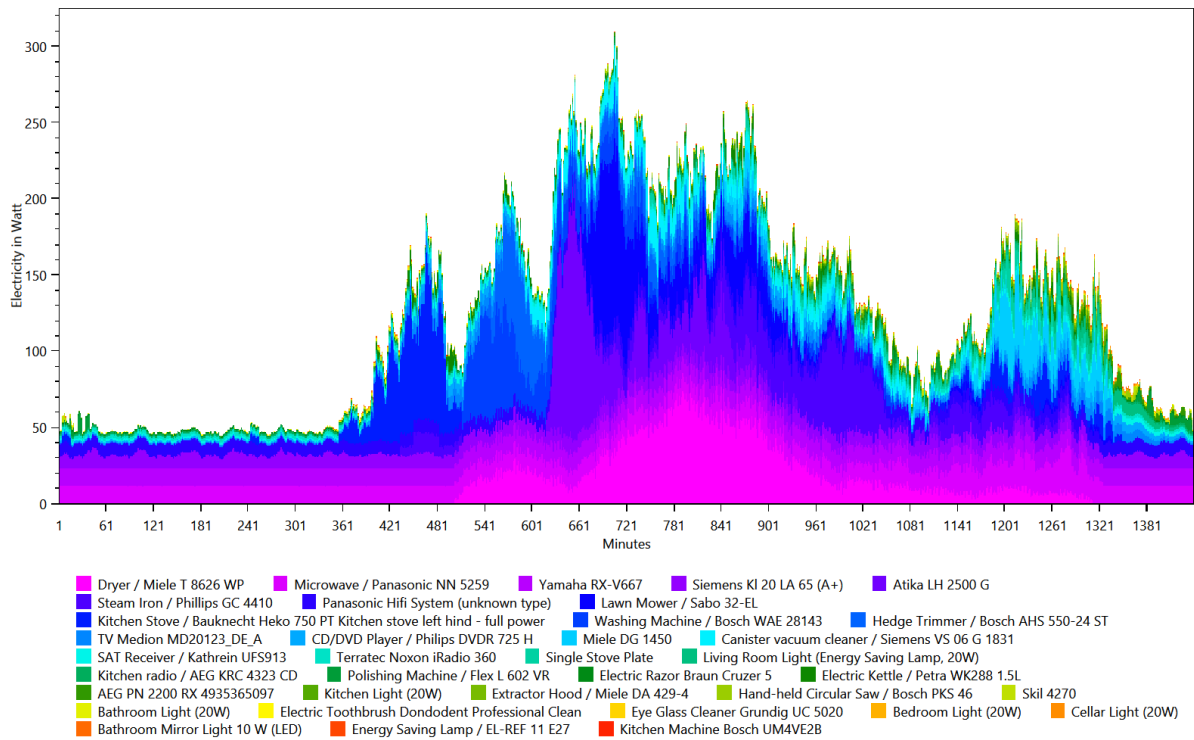
The time of use energy profiles show when each device was used and how much power it used.

## Cold Water

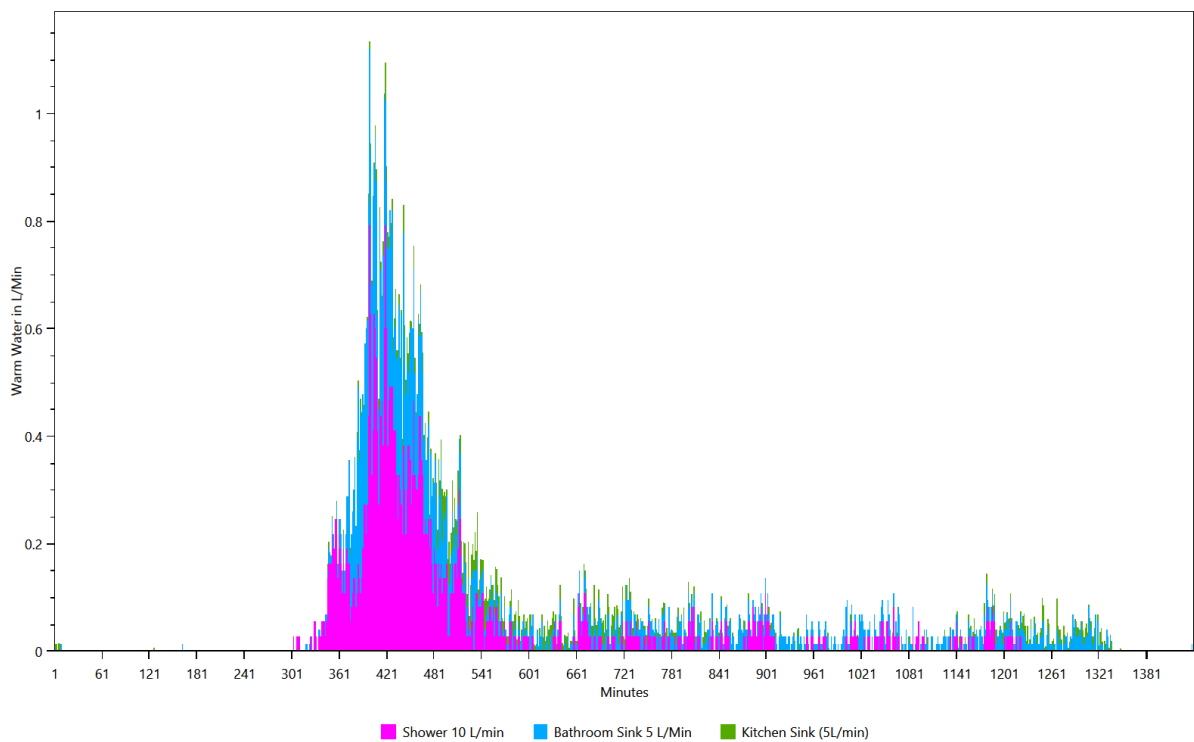




## Electricity



## Warm Water

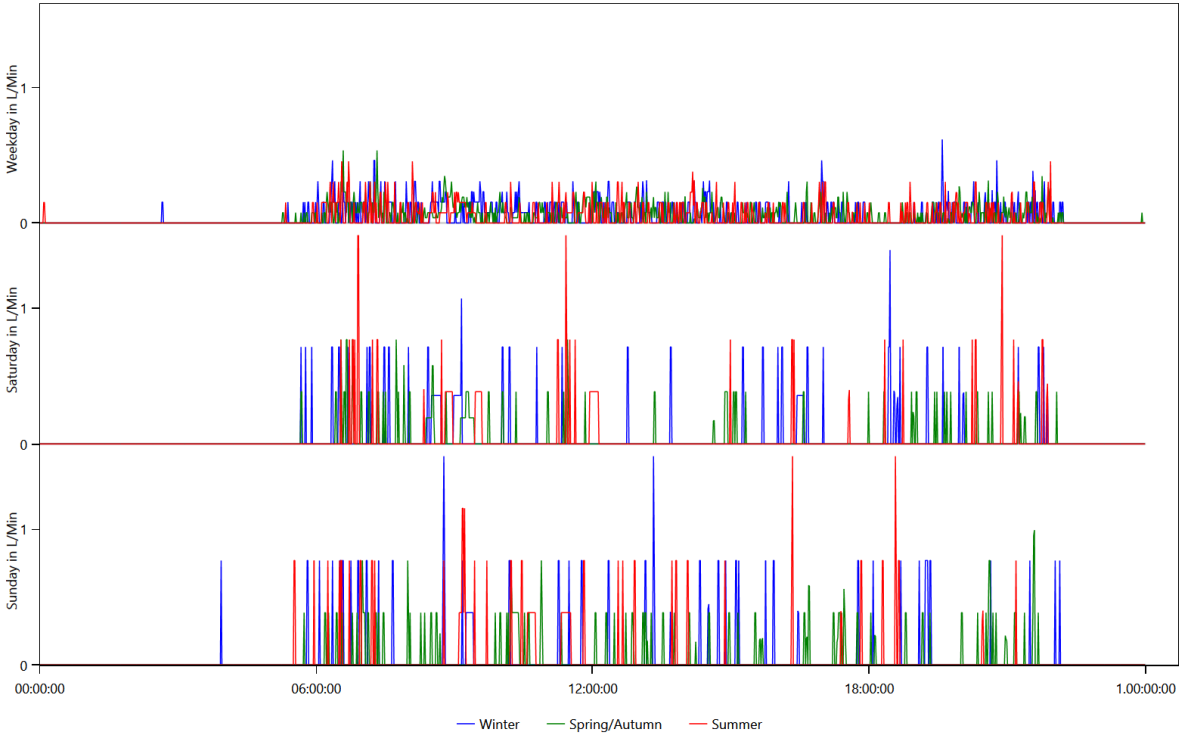


# Energy use per load type during different seasons, split by weekday/saturday/sunday

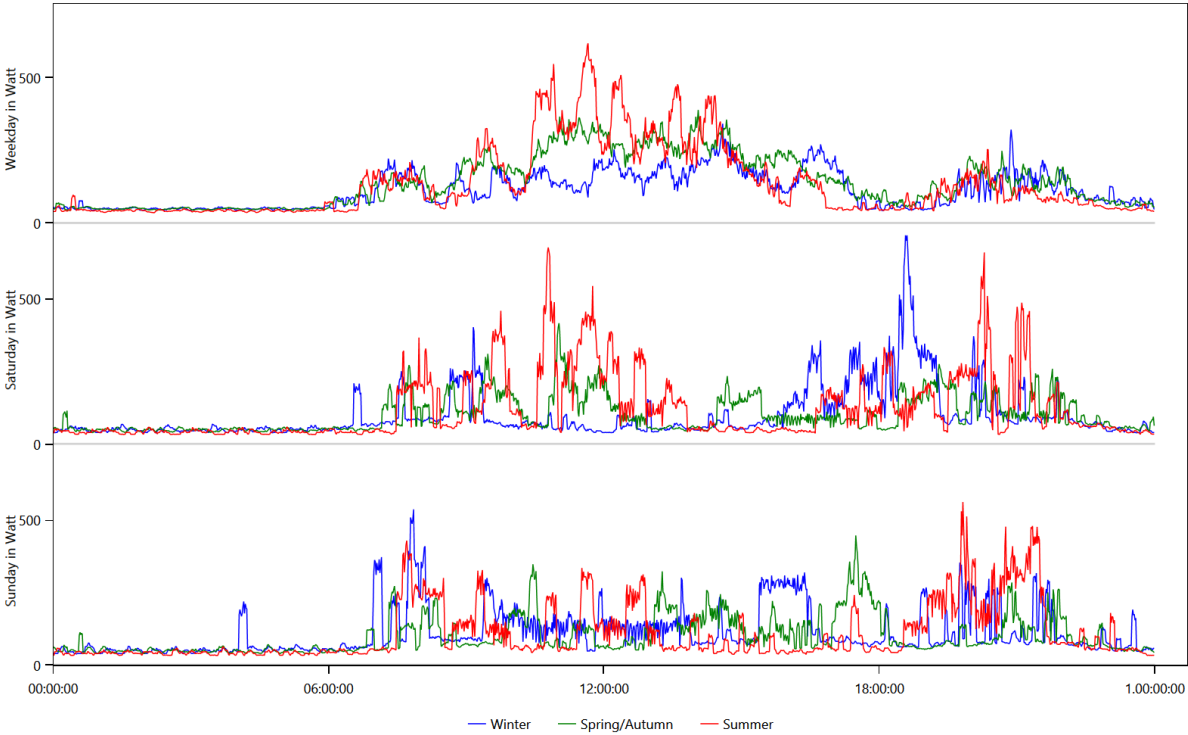
This is made from the files starting with: WeekdayProfiles

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

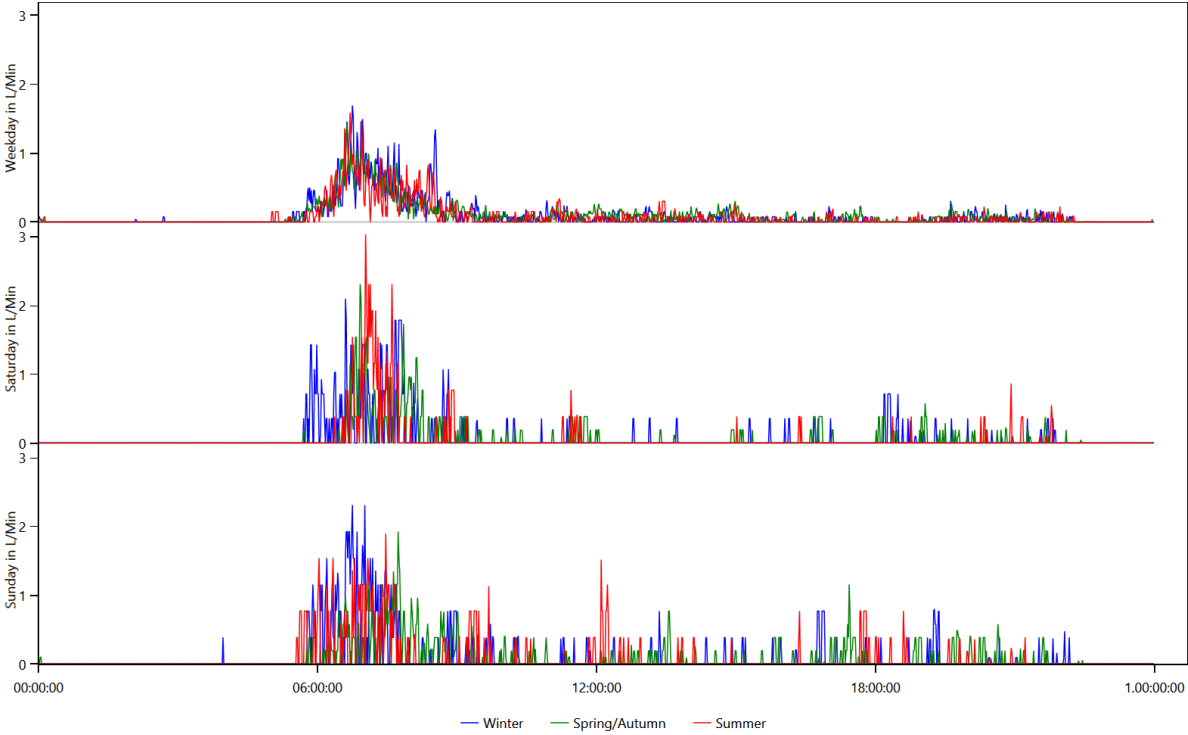
## Cold Water



# Electricity



# Warm Water

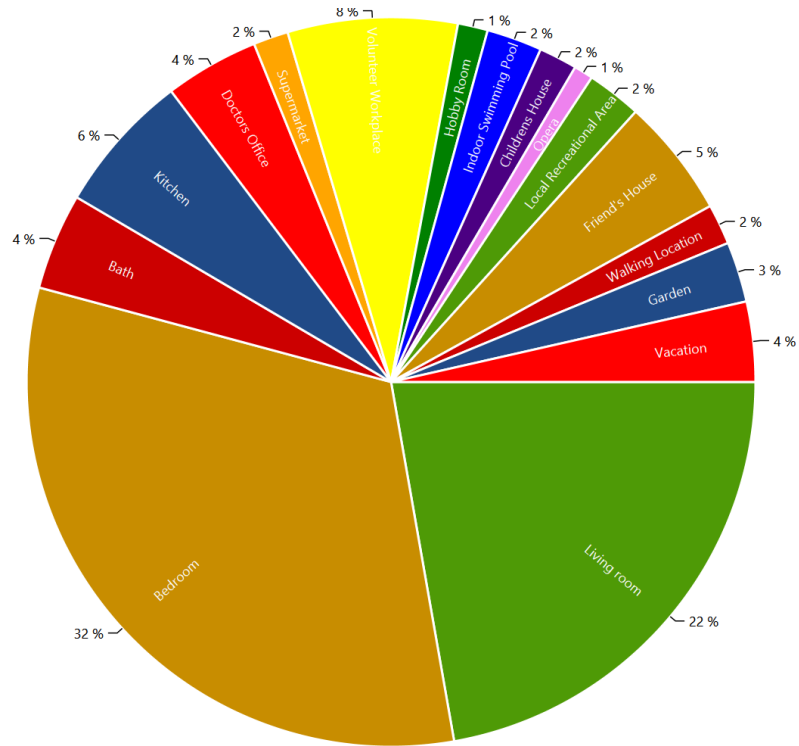


# Location Distribution per Person

This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

CHR30 Horsti (70 Male)



# 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

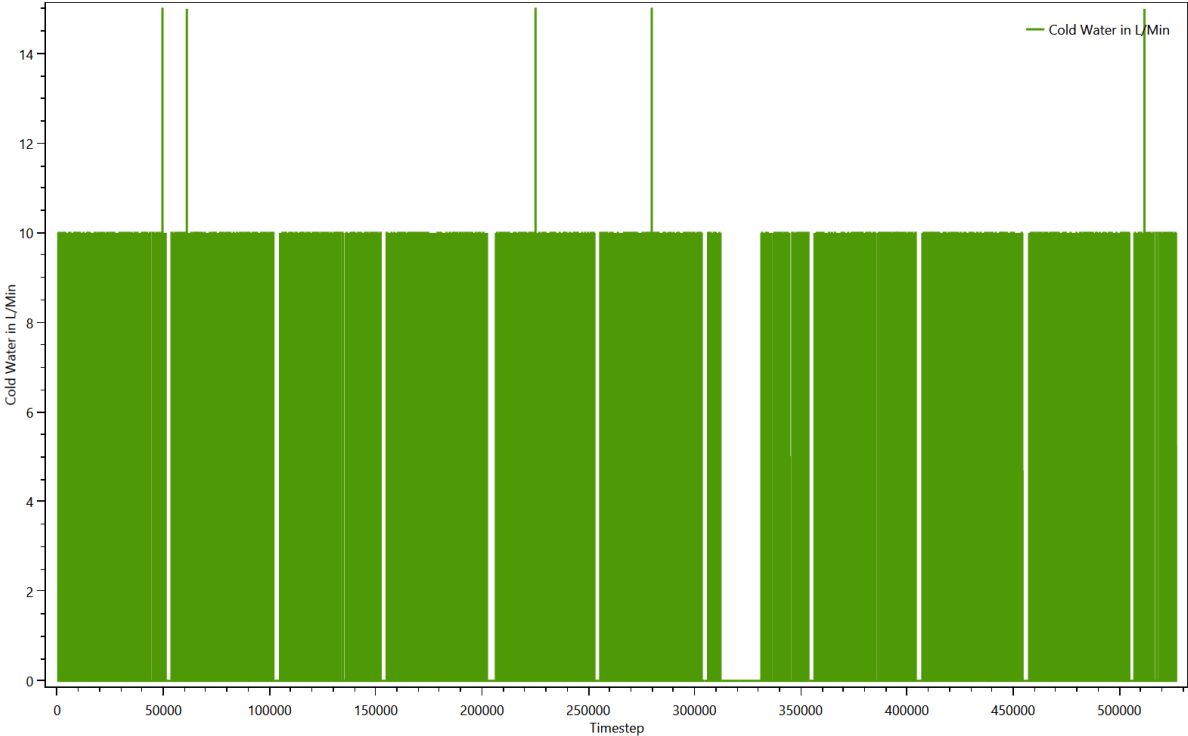
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR30 Horsti (70/Male);watch a movie for 2 h;Passive Entertainment (TV etc.);False;
2;01.01.2016 00:02;CHR30 Horsti (70/Male);sleep bed 08 (08 h);sleep;False;
511;01.01.2016 08:31;CHR30 Horsti (70/Male);go to the toilet;hygiene;False;
516;01.01.2016 08:36;CHR30 Horsti (70/Male);get ready in the morning (men);hygiene;False;
527;01.01.2016 08:47;CHR30 Horsti (70/Male);eat very small breakfast (5 min);cooking;False;
533;01.01.2016 08:53;CHR30 Horsti (70/Male);wash 1 dishes by hand;cleaning;False;
566;01.01.2016 09:26;CHR30 Horsti (70/Male);go to doctor;work;False;
739;01.01.2016 12:19;CHR30 Horsti (70/Male);go to the toilet;hygiene;False;
745;01.01.2016 12:25;CHR30 Horsti (70/Male);go shopping for food in the supermarket (1.5 h);shopping;False;
855;01.01.2016 14:15;CHR30 Horsti (70/Male);watch a movie for 1 h 30 min;Passive Entertainment (TV
etc.);False;
936;01.01.2016 15:36;CHR30 Horsti (70/Male);clean the bath;cleaning;False;
992;01.01.2016 16:32;CHR30 Horsti (70/Male);go to the toilet;hygiene;False;
997;01.01.2016 16:37;CHR30 Horsti (70/Male);do volunteer work;work;False;
1203;01.01.2016 20:03;CHR30 Horsti (70/Male);take a shower (men);hygiene;False;
1222;01.01.2016 20:22;CHR30 Horsti (70/Male);clean eye glasses;cleaning;False;
1227;01.01.2016 20:27;CHR30 Horsti (70/Male);heat up leftovers;cooking;False;
1246;01.01.2016 20:46;CHR30 Horsti (70/Male);go to the toilet;hygiene;False;
1251;01.01.2016 20:51;CHR30 Horsti (70/Male);watch a movie for 1 h 30 min;Passive Entertainment (TV
etc.);False;
1341;01.01.2016 22:21;CHR30 Horsti (70/Male);sleep bed 08 (08 h);sleep;False;
```

# Sum Profiles

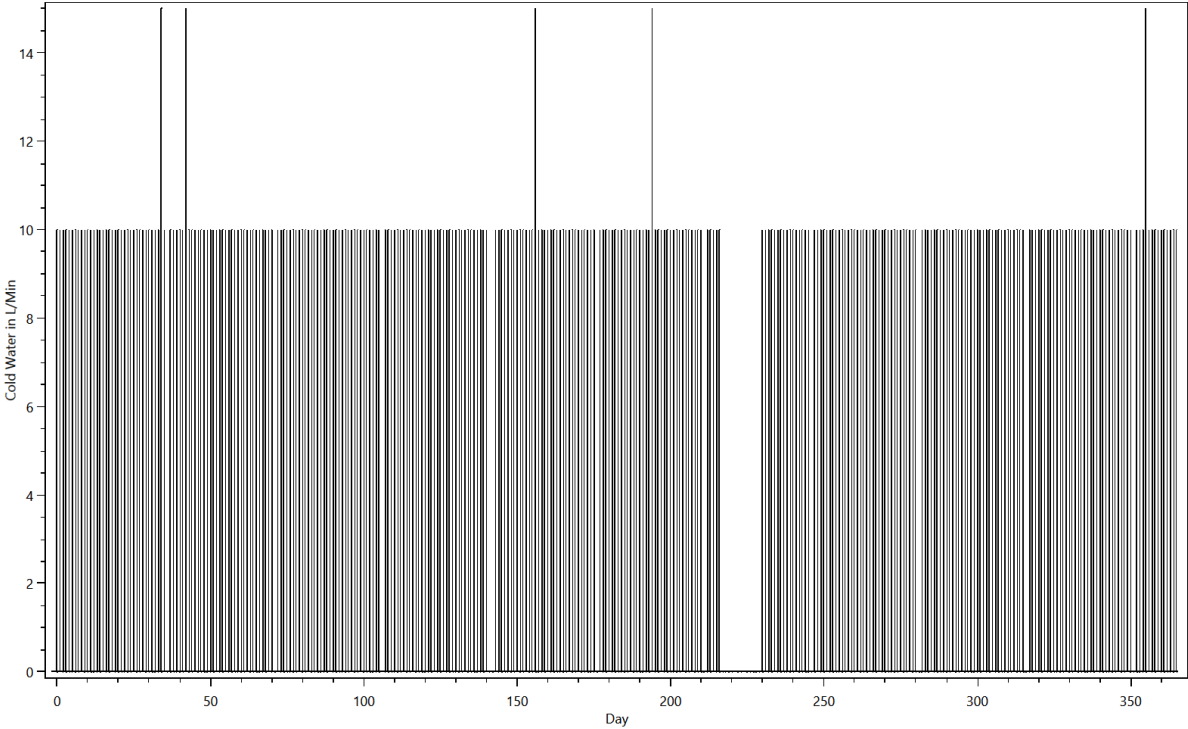
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

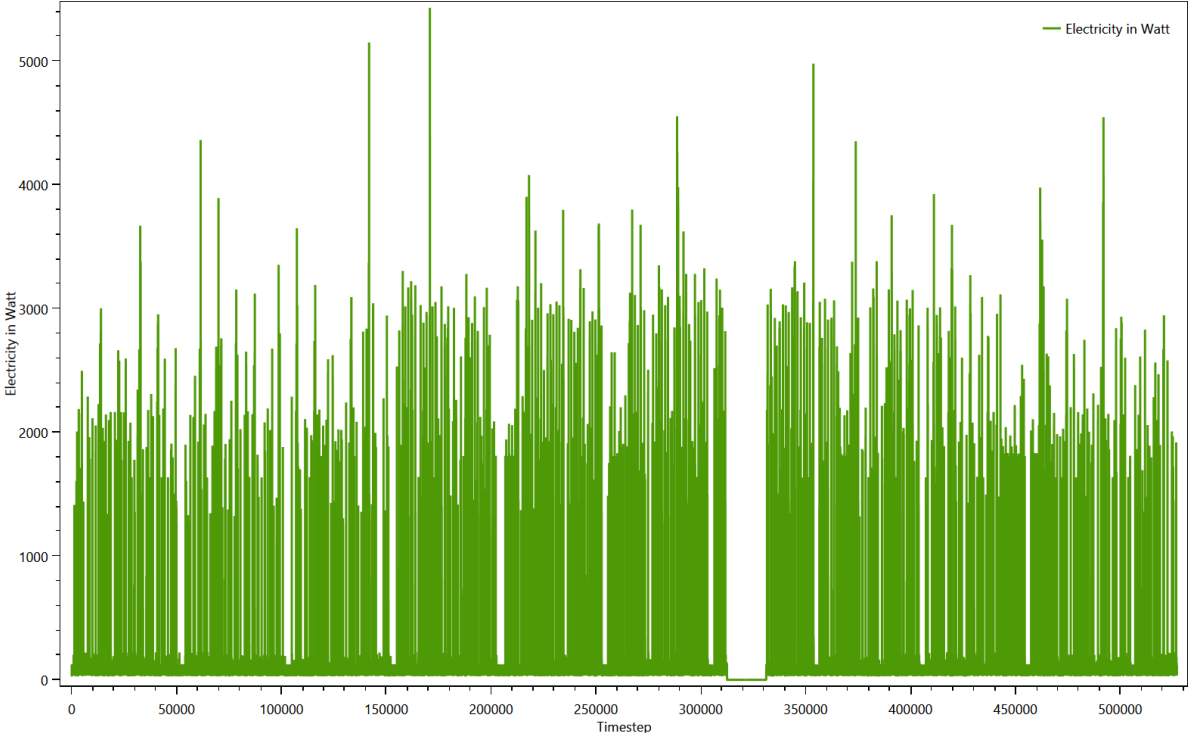
Summed up curve for Cold Water from SumProfiles.Cold Water.png



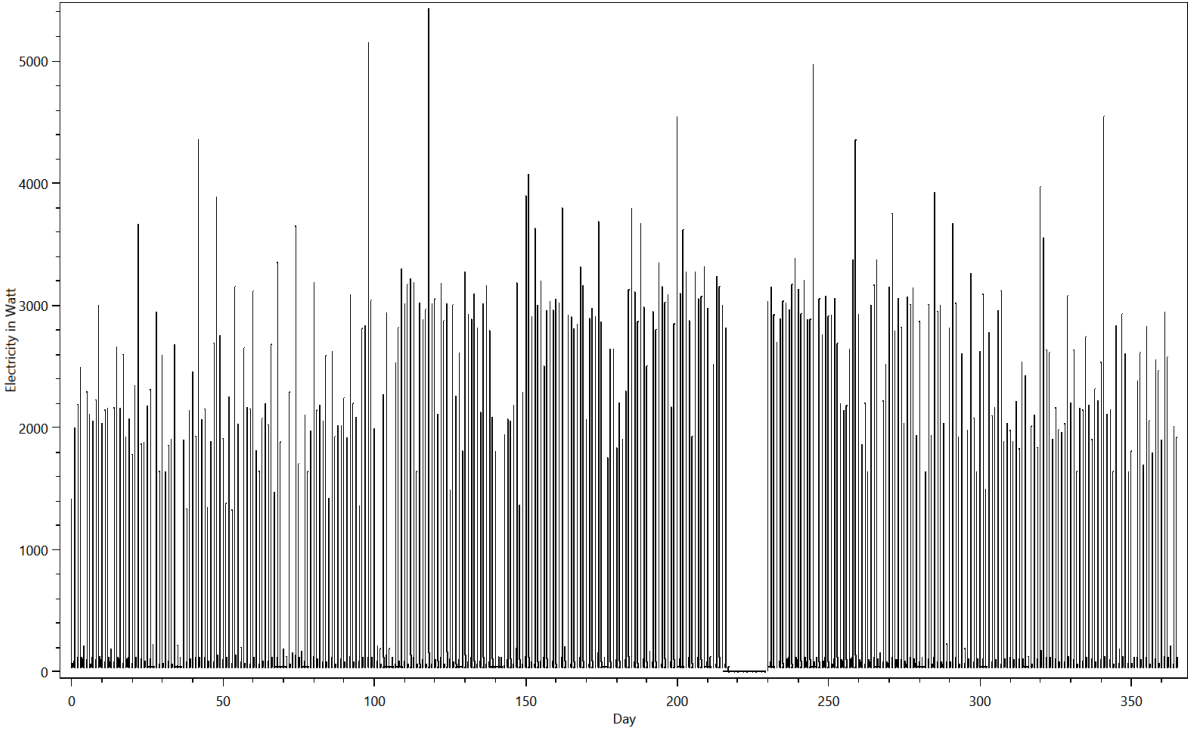
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



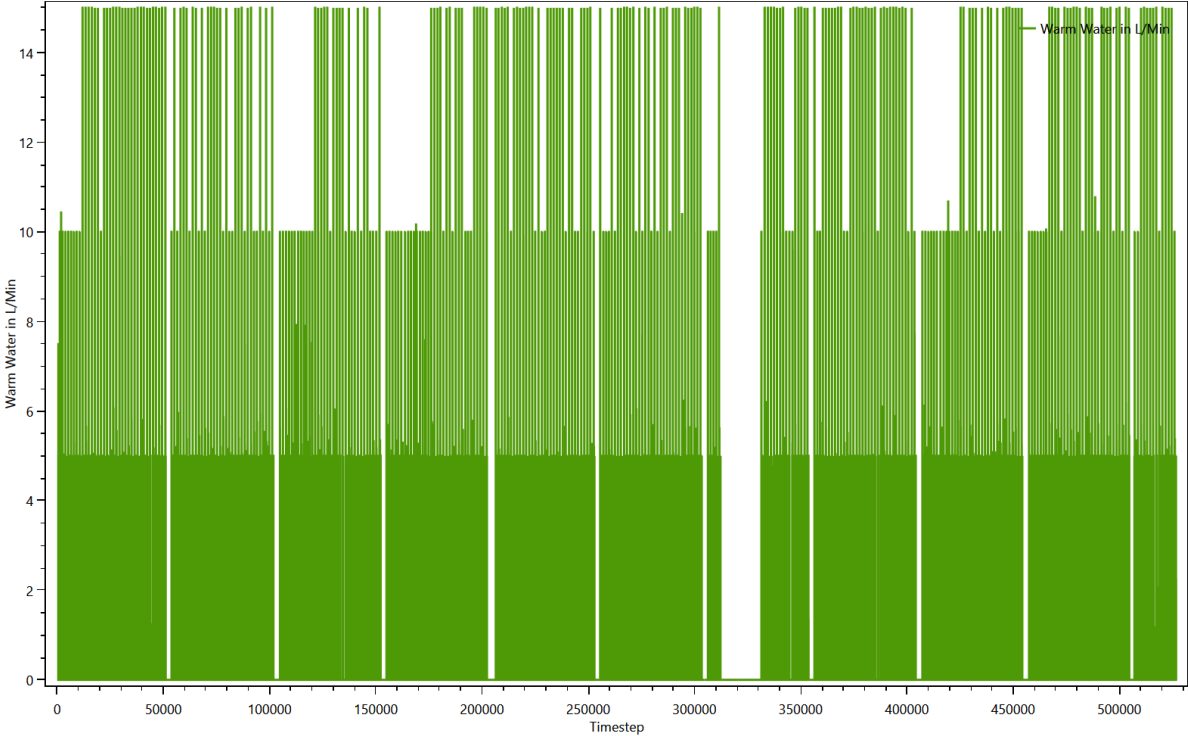
Summed up curve for Electricity from SumProfiles.Electricity.png



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

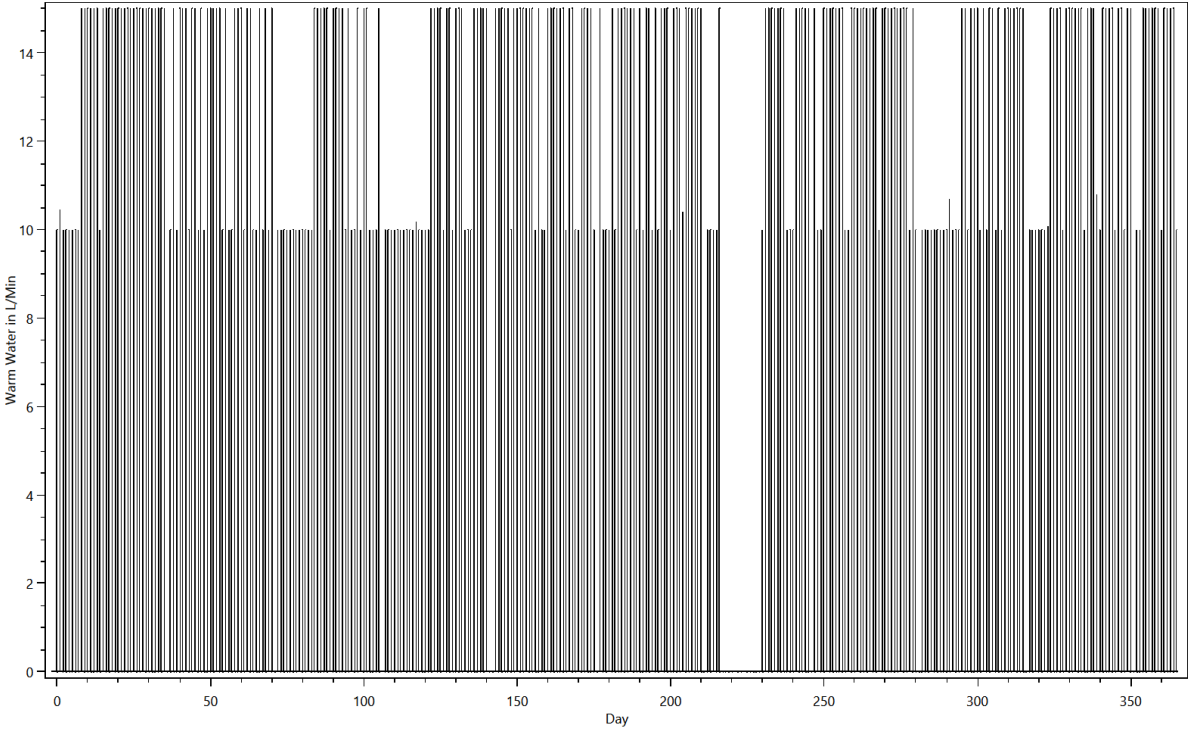


Summed up curve for Warm Water from SumProfiles.Warm Water.png





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.CHR30 Single, Retired Man 0.txt

Device;Load Type;Profile;Number of Activations

AEG PN 2200 RX 4935365097;Electricity;0 h 05 min 100% [Synthetic];116

Atika LH 2500 G;Electricity;0 h 15 min 100% [Synthetic];117

Bathroom Light (20W);Electricity;Bath - light [Synthetic for Light Device];626

Bathroom Mirror Light 10 W (LED);Electricity;Bath - light [Synthetic for Light Device];626

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 100% [Synthetic];2509

Bed 8;None;08 h 0 min 100% [Synthetic];335

Bedroom Light (20W);Electricity;Bedroom - light [Synthetic for Light Device];34

Bread;None;0 h 01 min 100% [Synthetic];185

CD/DVD Player / Philips DVDR 725 H;Electricity;01 h 30 min 100% [Synthetic];178

CD/DVD Player / Philips DVDR 725 H;Electricity;02 h 0 min 100% [Synthetic];178

CD/DVD Player / Philips DVDR 725 H;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8479

Canister vacuum cleaner / Siemens VS 06 G 1831;Electricity;0 h 30 min 100% [Synthetic];40

Cellar Light (20W);Electricity;Hobby Room - light [Synthetic for Light Device];33

Children;None;06 h 0 min 100% [Synthetic];25

Cleanser;None;01 h 0 min 100% [Synthetic];94

Couch;None;01 h 0 min 100% [Synthetic];25

Couch;None;02 h 0 min 100% [Synthetic];251

Day Trip Bus;None;10 h 0 min 100% [Synthetic];22

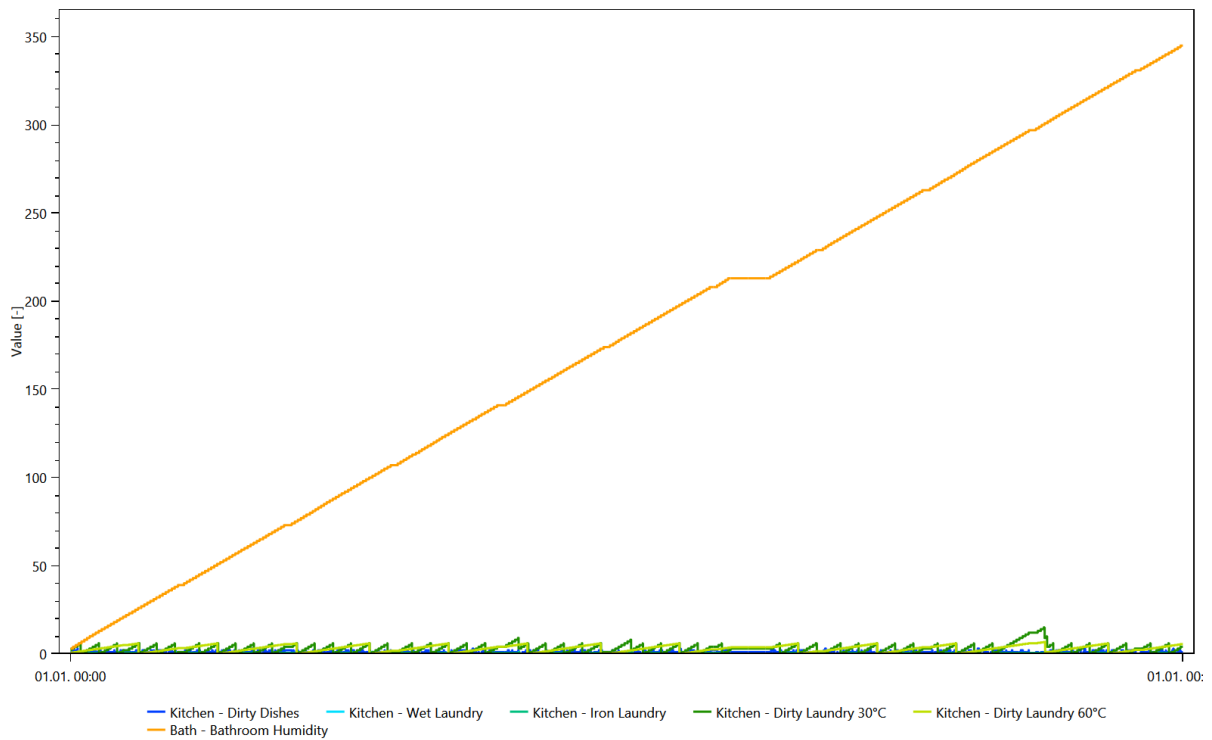
Doctors Office;None;04 h 0 min 100% [Synthetic];94

# 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

