

Overview of the results of the household CHR35 Single woman, 30 - 64 years, with work 0

Calculation Time

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

Energy Intensity: Random

Seed 993

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:19:39

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Totals

Totals for each Loadtype

Load Type	Value	Unit
Cold Water	14080.38	L
Electricity	1899.38	kWh
Warm Water	54592.50	L

Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	38.47	L
Electricity	5.19	kWh
Warm Water	149.16	L

Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	15.00	L/Min
Electricity	1.09	7508.07	Watt
Warm Water	0.00	17.50	L/Min

Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	14080.38	L
Electricity	1899.38	kWh

Warm Water	54592.50	L
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Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	38.47	L
Electricity	5.19	kWh
Warm Water	149.16	L

Persons

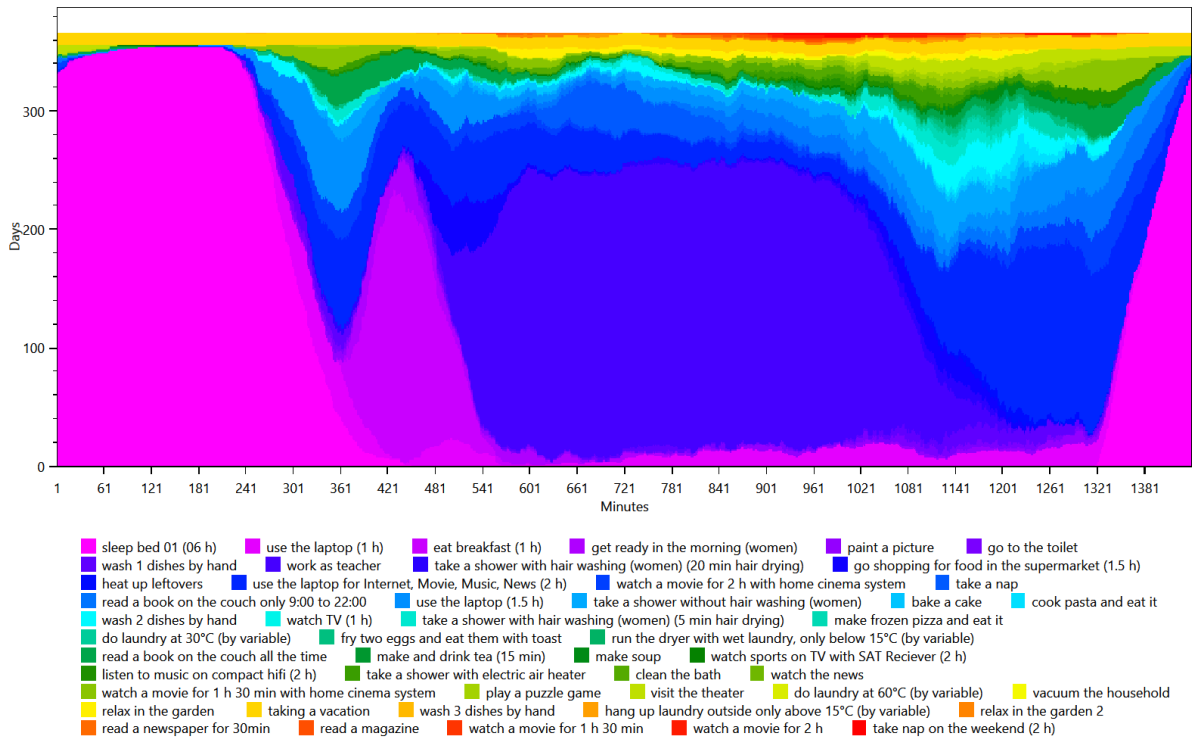
- HH0
 - CHR35 Heike (42/Female)(42/Female)

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 - CHR35 Heike (42 Female)

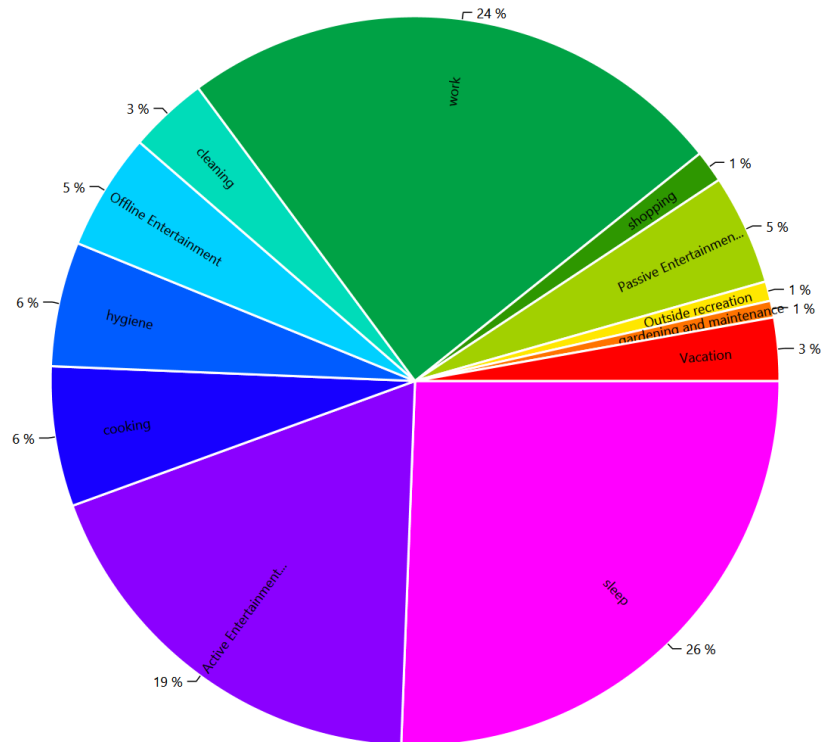


Activity Distribution per Person

This is made from the files starting with: ActivityPercentage

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

HH0 - CHR35 Heike (42 Female)

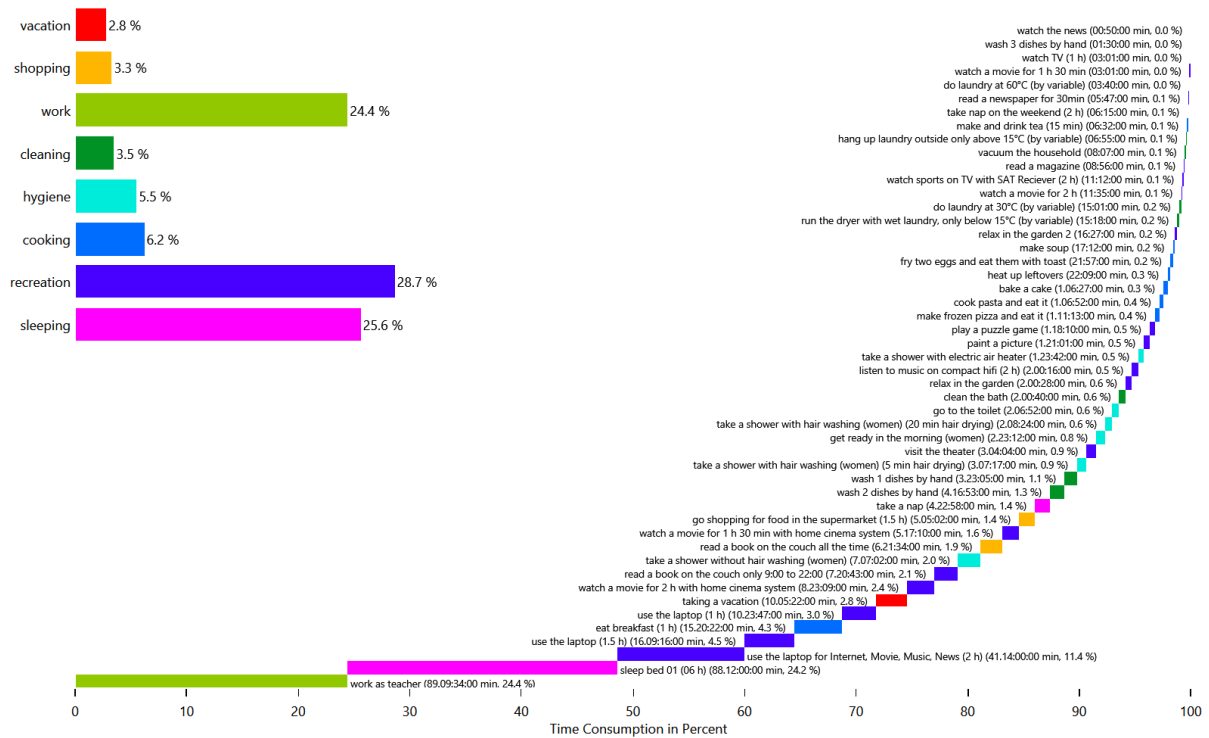


Time Use per Person per Affordance Per Person

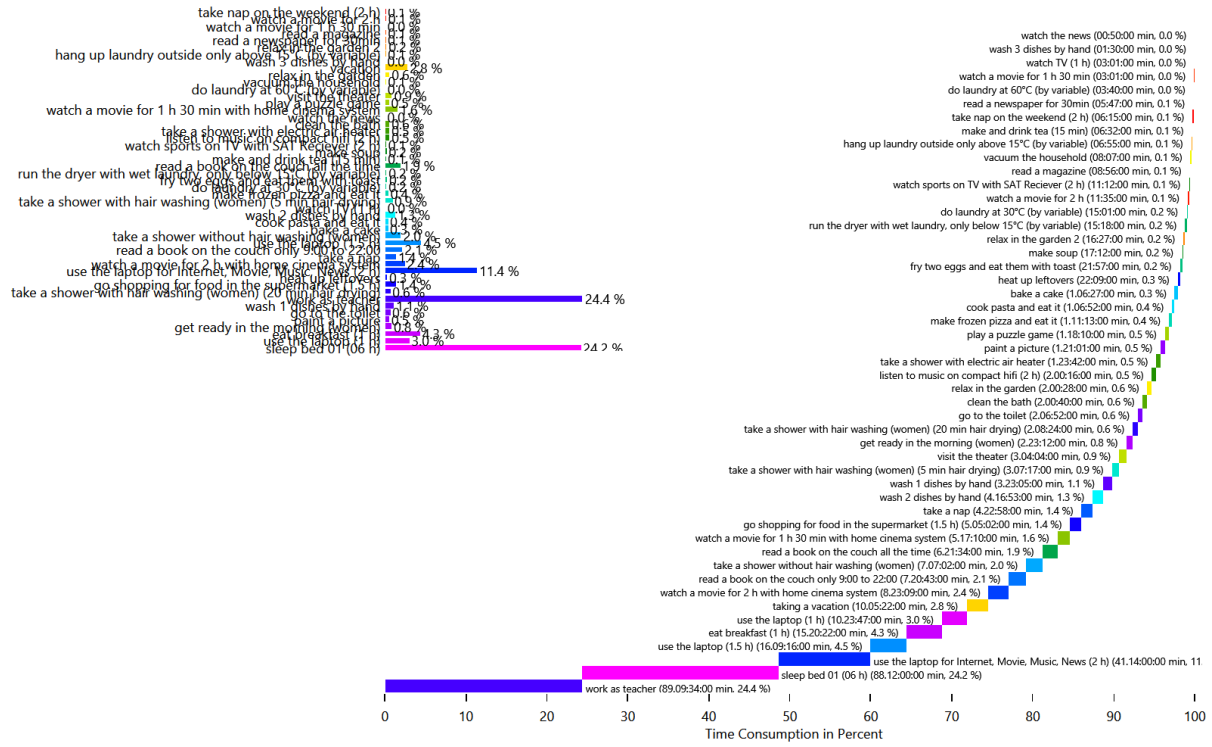
This is made from the files starting with: AffordanceTimeUse

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.

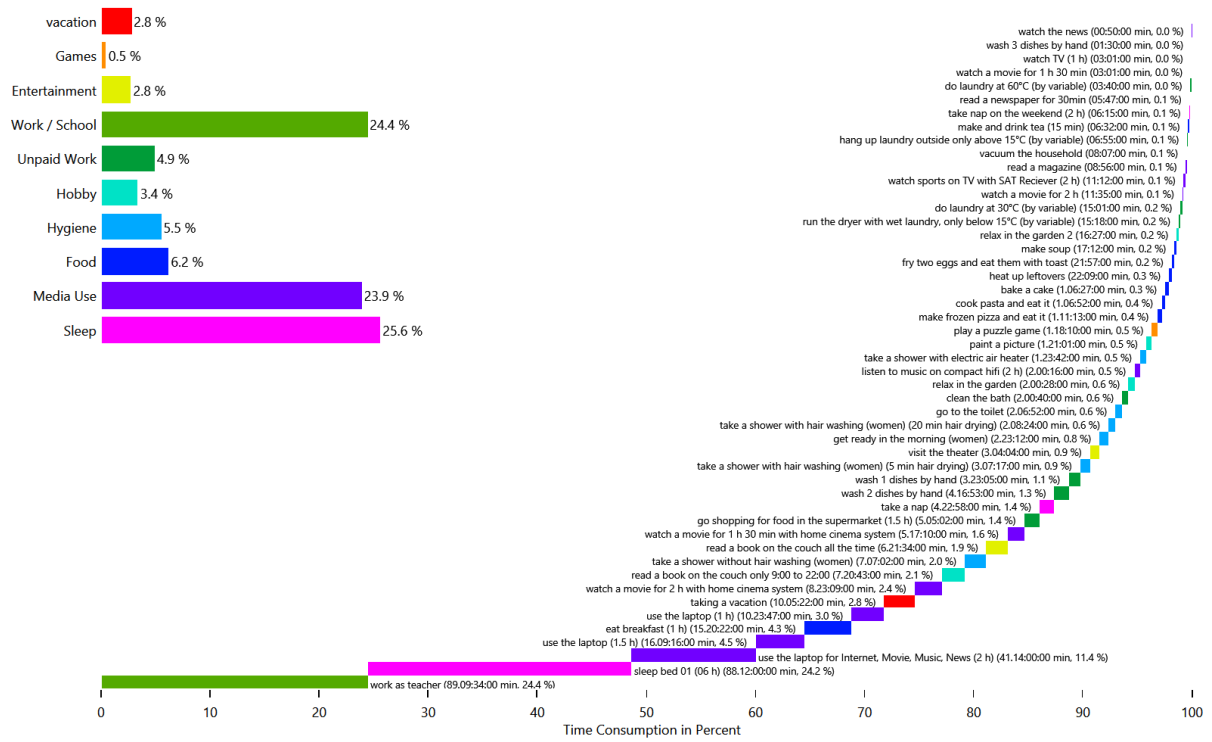
HH0 - CHR35 Heike (42 Female)



HH0 - CHR35 Heike (42 Female)



HH0 - CHR35 Heike (42 Female)

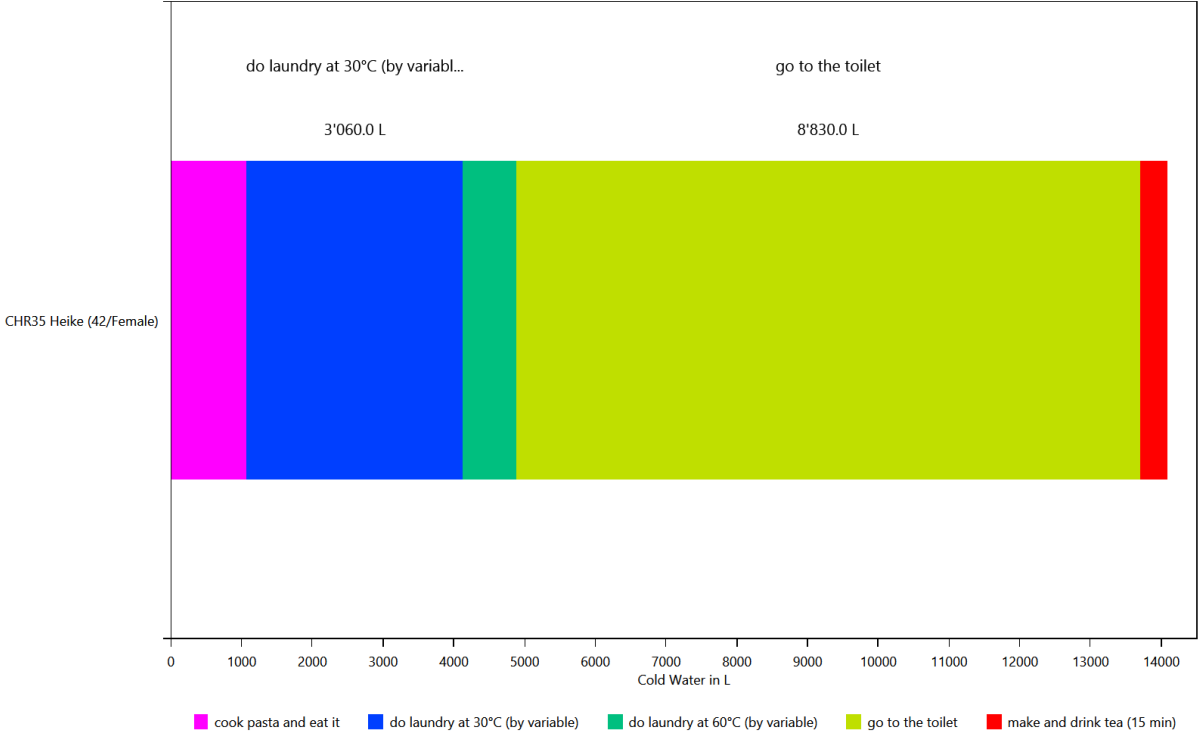


Energy use per person per affordance

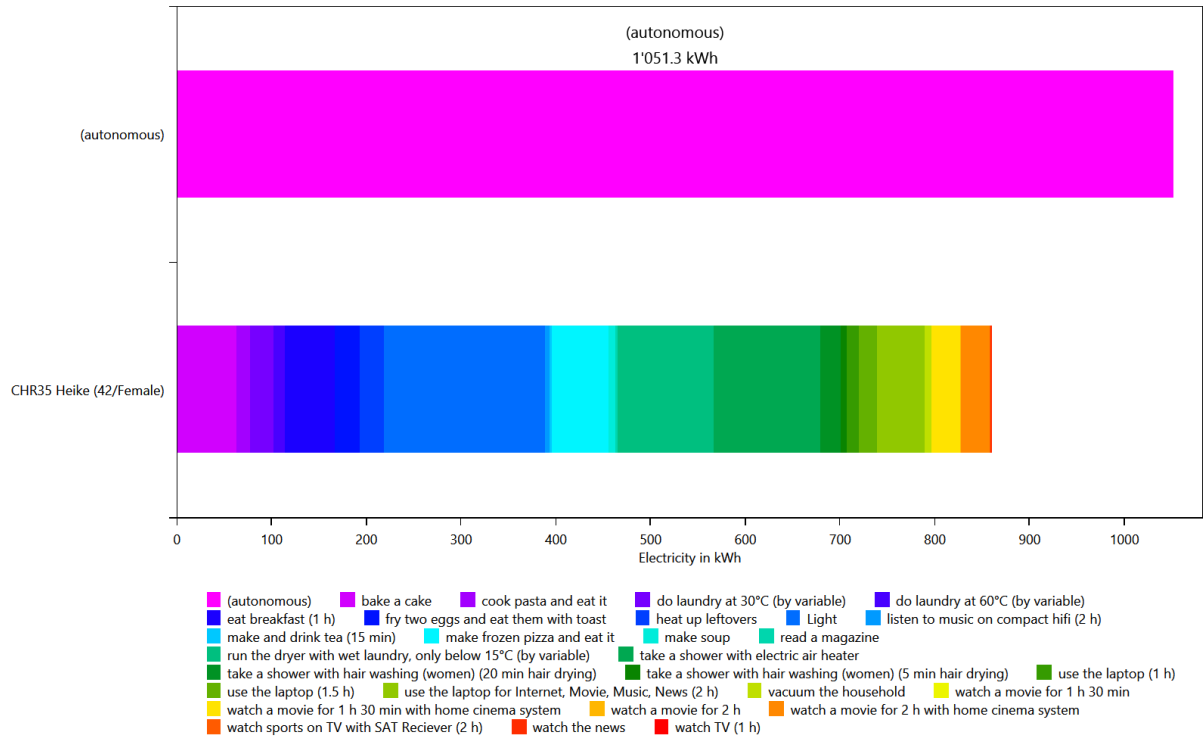
This is made from the files starting with: `AffordanceEnergyUsePerPerson`

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

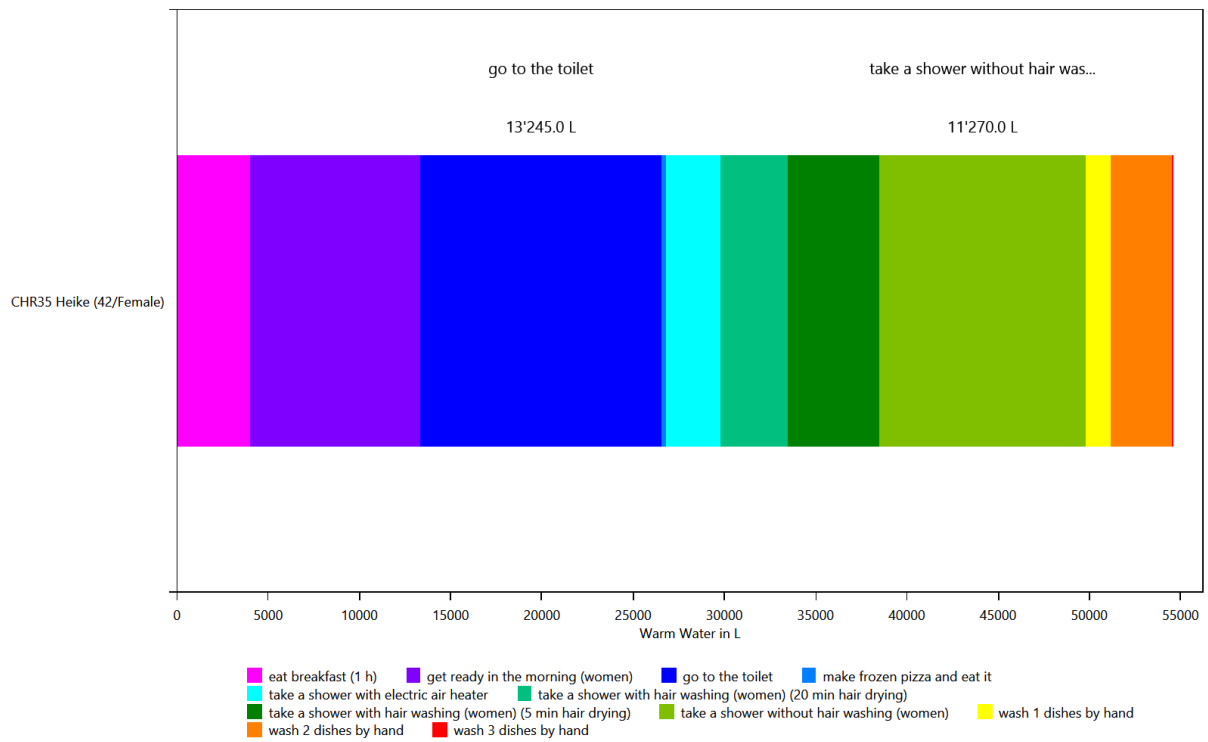
HH0 - Cold Water



HH0 - Electricity



HH0 - Warm Water

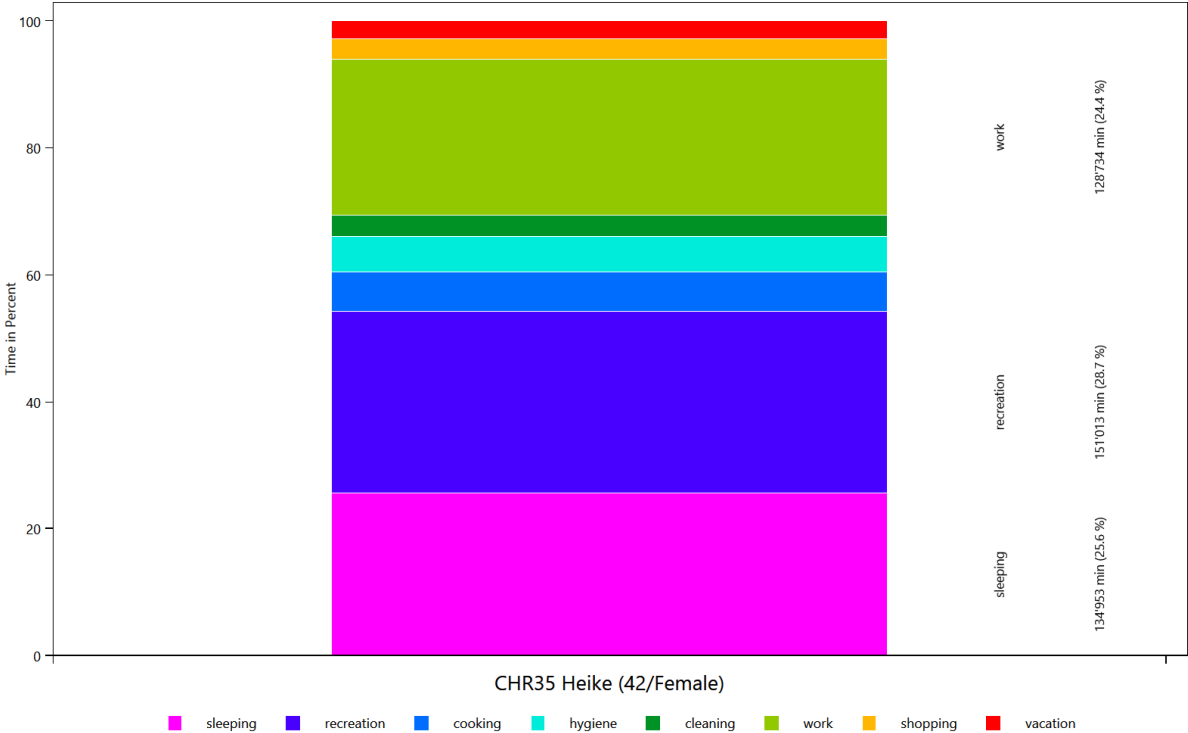


Time Use per Person Per Affordance according to different category definitions

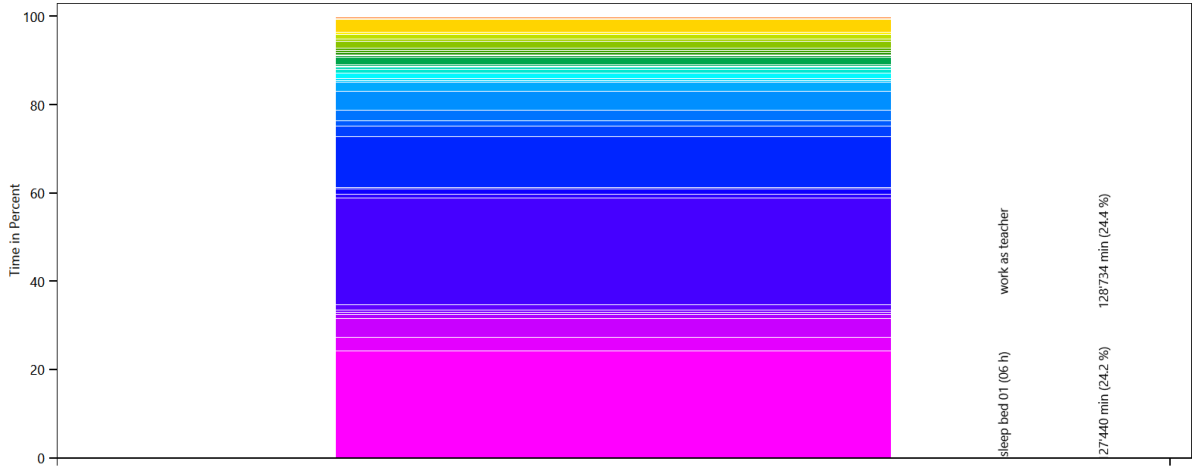
This is made from the files starting with: AffordanceTaggingSet

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



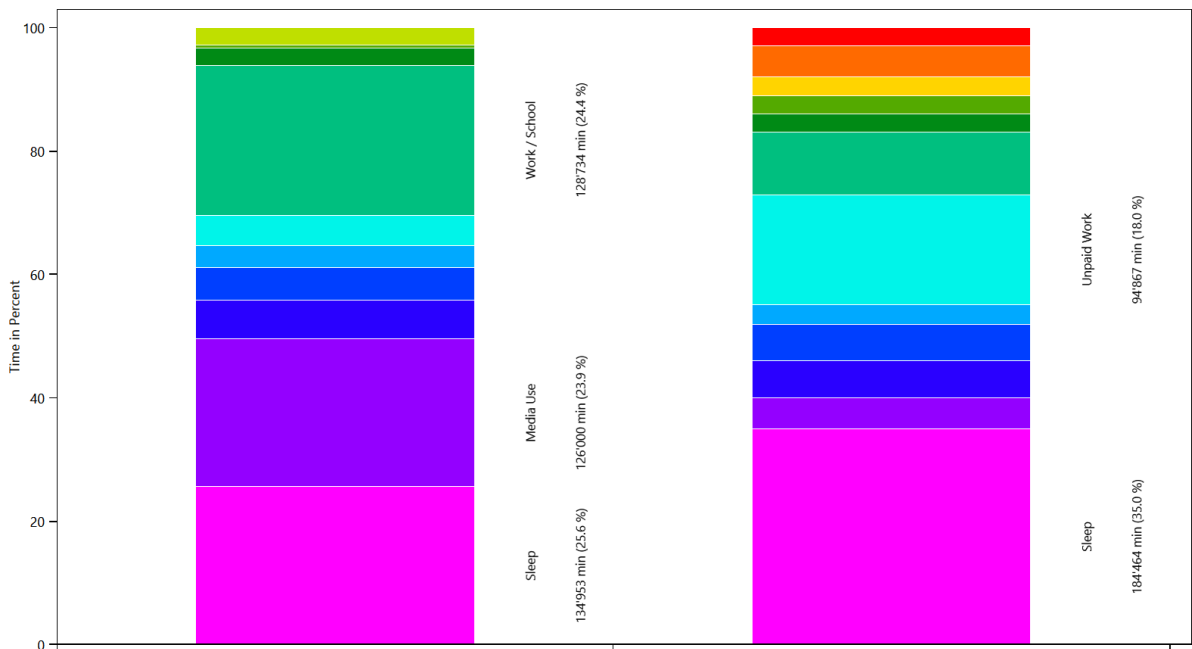
Tagging Set For Planning - HH0



CHR35 Heike (42/Female)

- sleep bed 01 (06 h)
- use the laptop (1 h)
- eat breakfast (1 h)
- get ready in the morning (women)
- paint a picture
- go to the toilet
- wash 1 dishes by hand
- work as teacher
- take a shower with hair washing (women) (20 min hair drying)
- go shopping for food in the supermarket (1.5 h)
- heat up leftovers
- use the laptop for Internet, Movie, Music, News (2 h)
- watch a movie for 2 h with home cinema system
- take a nap
- read a book on the couch only 9:00 to 22:00
- use the laptop (1.5 h)
- take a shower without hair washing (women)
- bake a cake
- cook pasta and eat it
- wash 2 dishes by hand
- watch TV (1 h)
- take a shower with hair washing (women) (5 min hair drying)
- make frozen pizza and eat it
- do laundry at 30°C (by variable)
- fry two eggs and eat them with toast
- run the dryer with wet laundry, only below 15°C (by variable)
- read a book on the couch all the time
- make and drink tea (15 min)
- make soup
- watch sports on TV with SAT Receiver (2 h)
- listen to music on compact hifi (2 h)
- take a shower with electric air heater
- clean the bath
- watch the news
- watch a movie for 1 h 30 min with home cinema system
- play a puzzle game
- visit the theater
- do laundry at 60°C (by variable)
- vacuum the household
- relax in the garden
- vacation
- wash 3 dishes by hand
- hang up laundry outside only above 15°C (by variable)
- relax in the garden 2
- read a newspaper for 30min
- read a magazine
- watch a movie for 1 h 30 min
- watch a movie for 2 h
- take nap on the weekend (2 h)

Wo bleibt die Zeit - HH0



CHR35 Heike (42/Female)

Reference

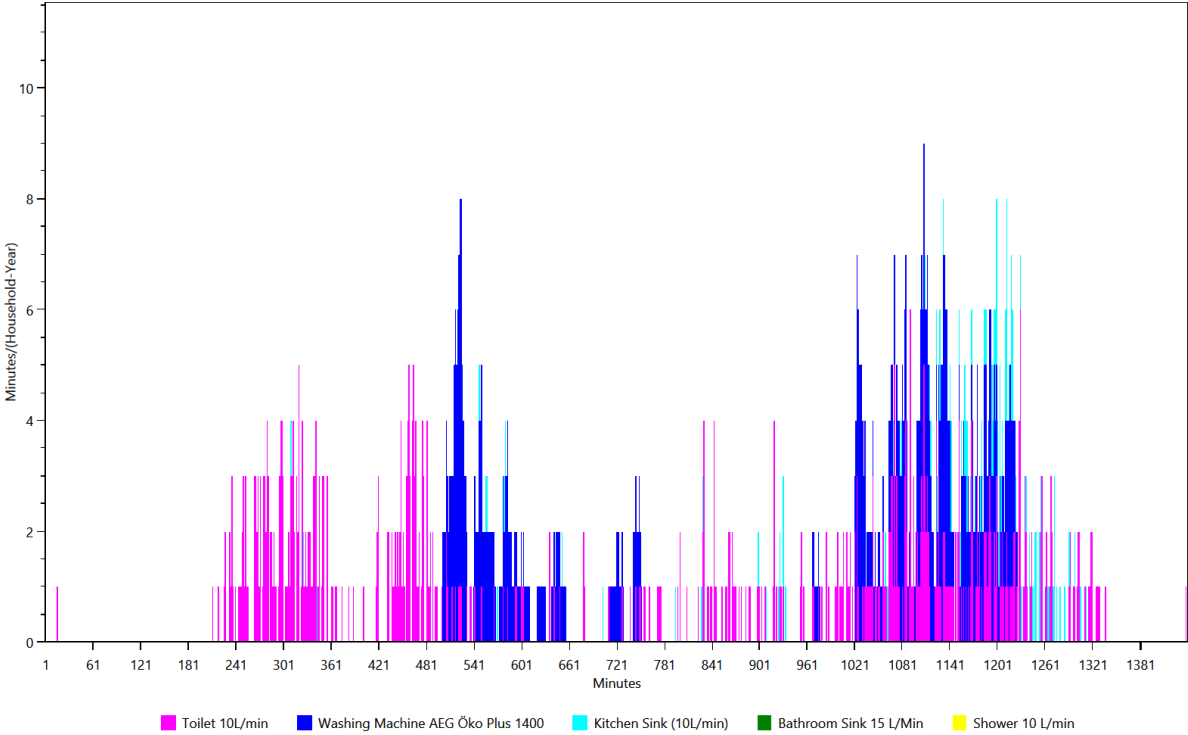
- Sleep
- Media Use
- Food
- Hygiene
- Hobby
- Unpaid Work
- Work / School
- Entertainment
- Games
- vacation
- Events
- Sport
- Contacts

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

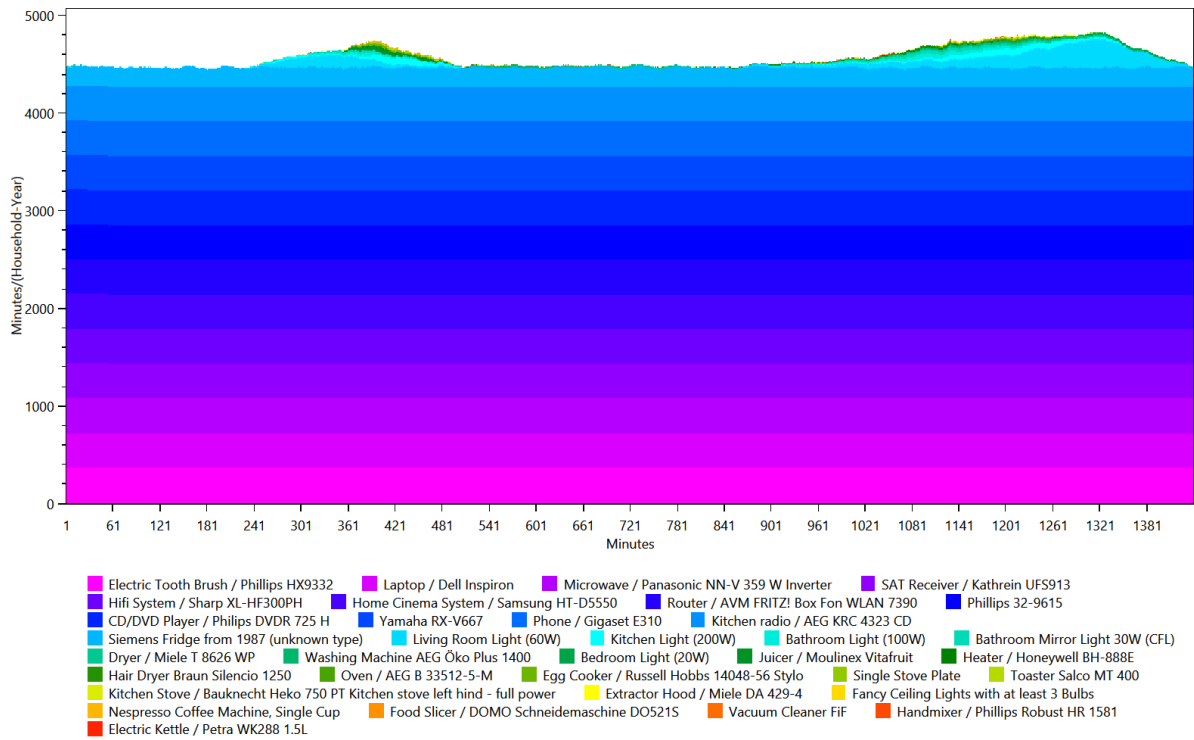
This is made from the files starting with: TimeOfUseEnergyProfiles

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

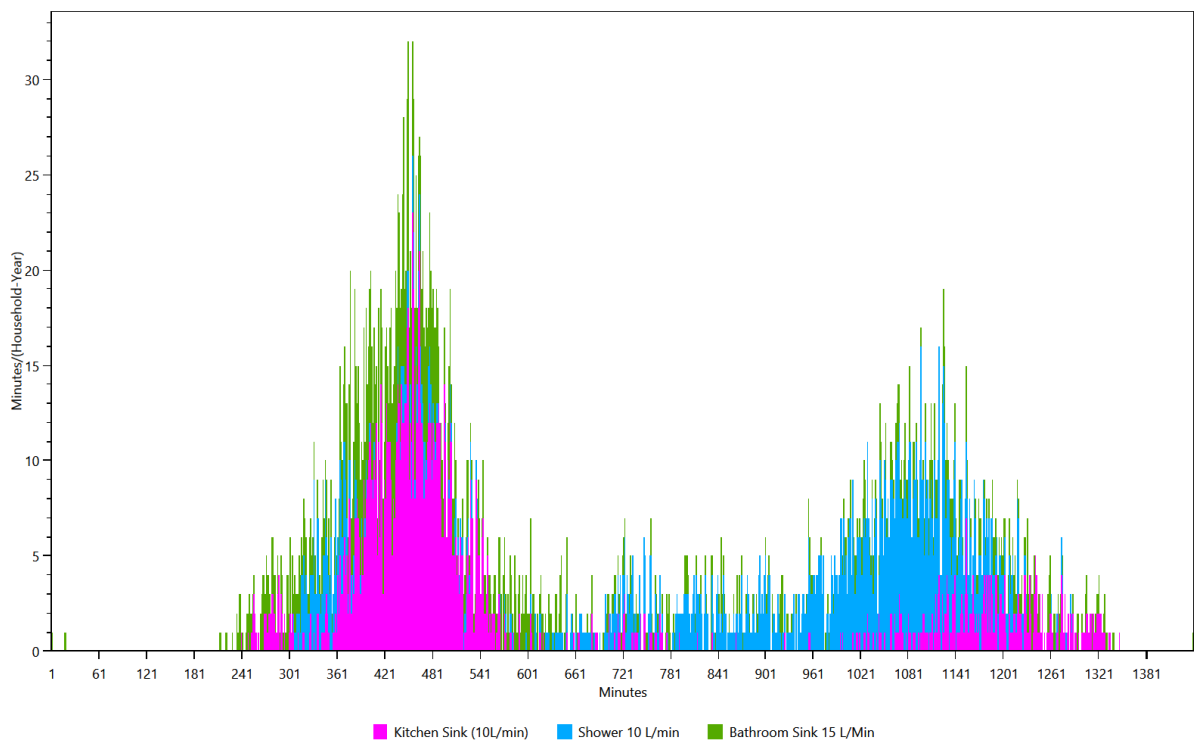
Cold Water



Electricity



Warm Water

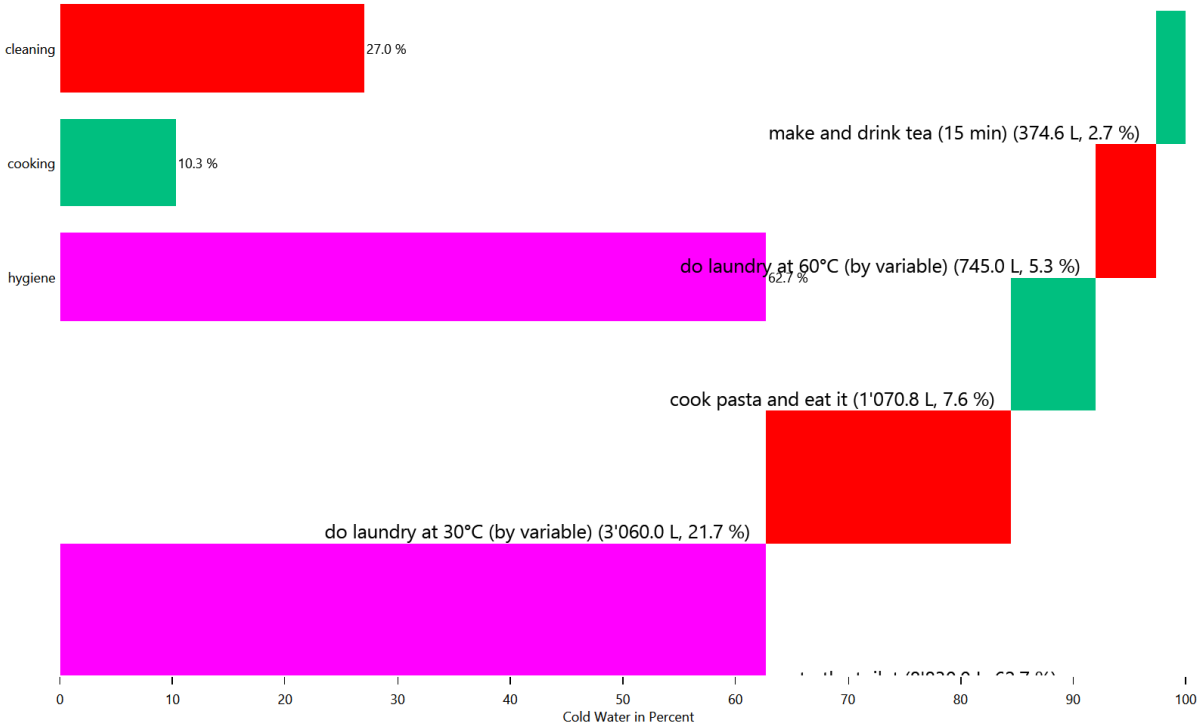


Energy/Resource use distribution per load type per affordance

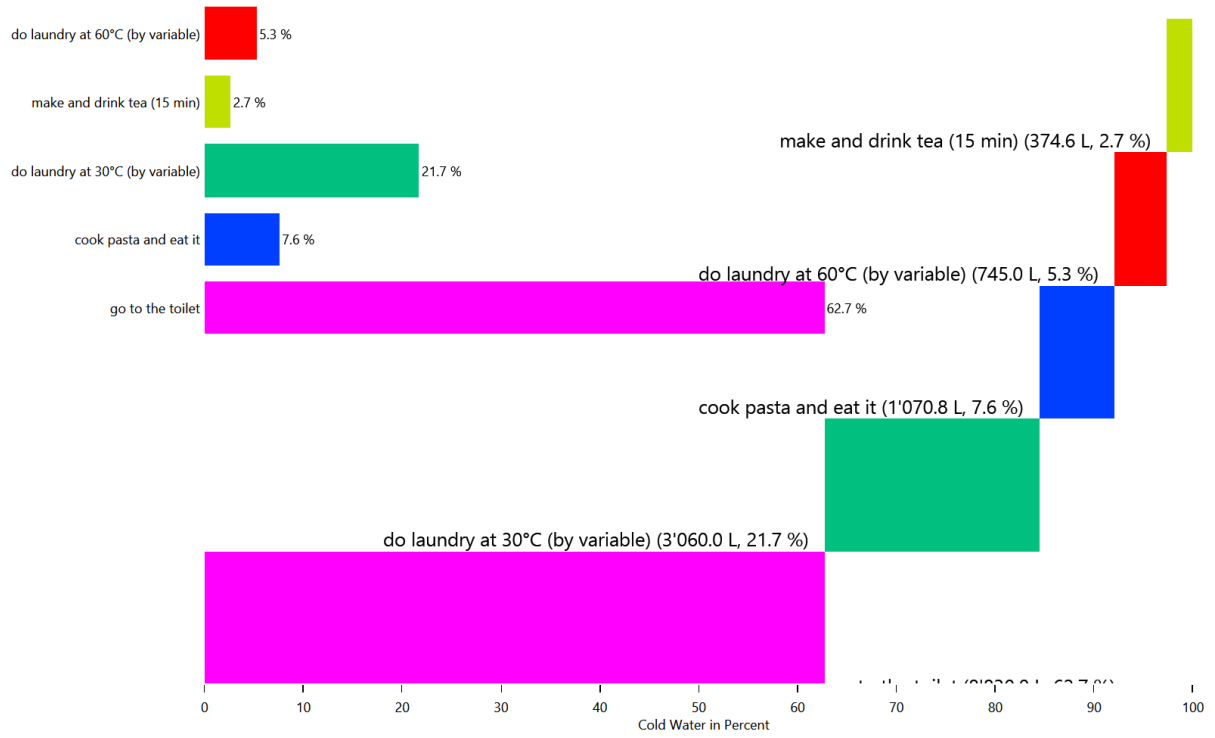
This is made from the files starting with: AffordanceEnergyUse

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

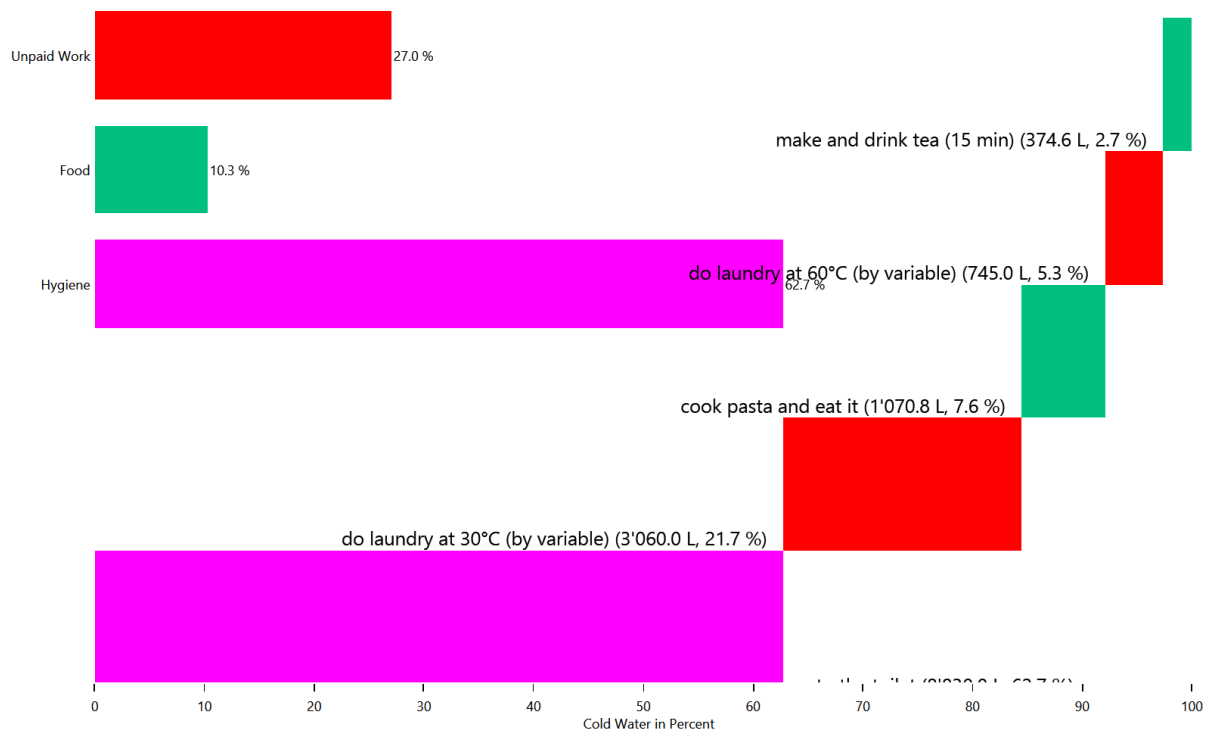
HH0 - Cold Water



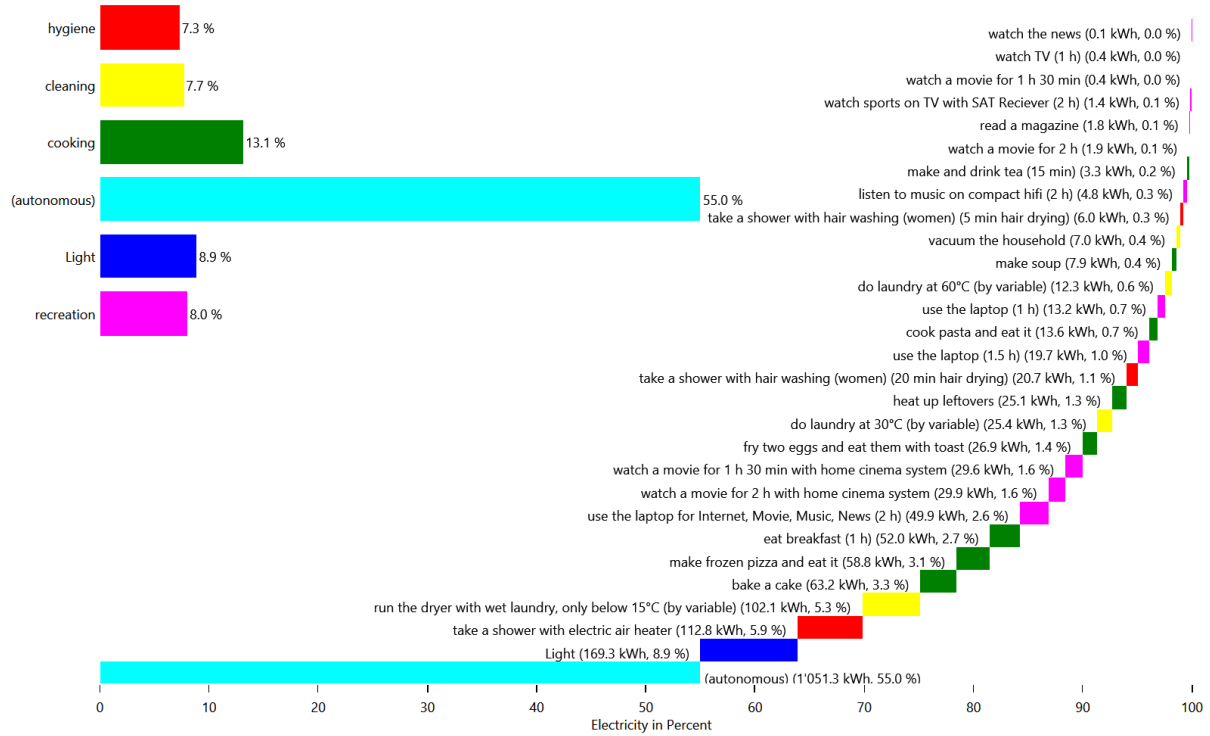
HH0 - Cold Water



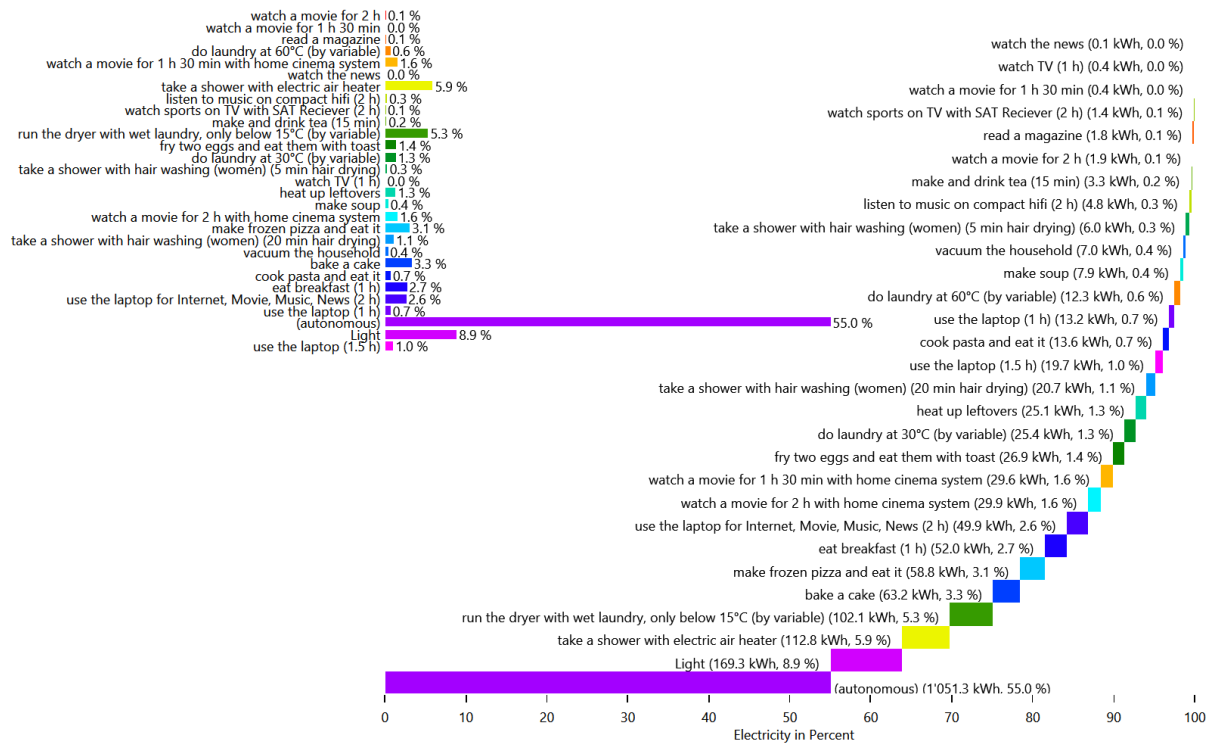
HH0 - Cold Water



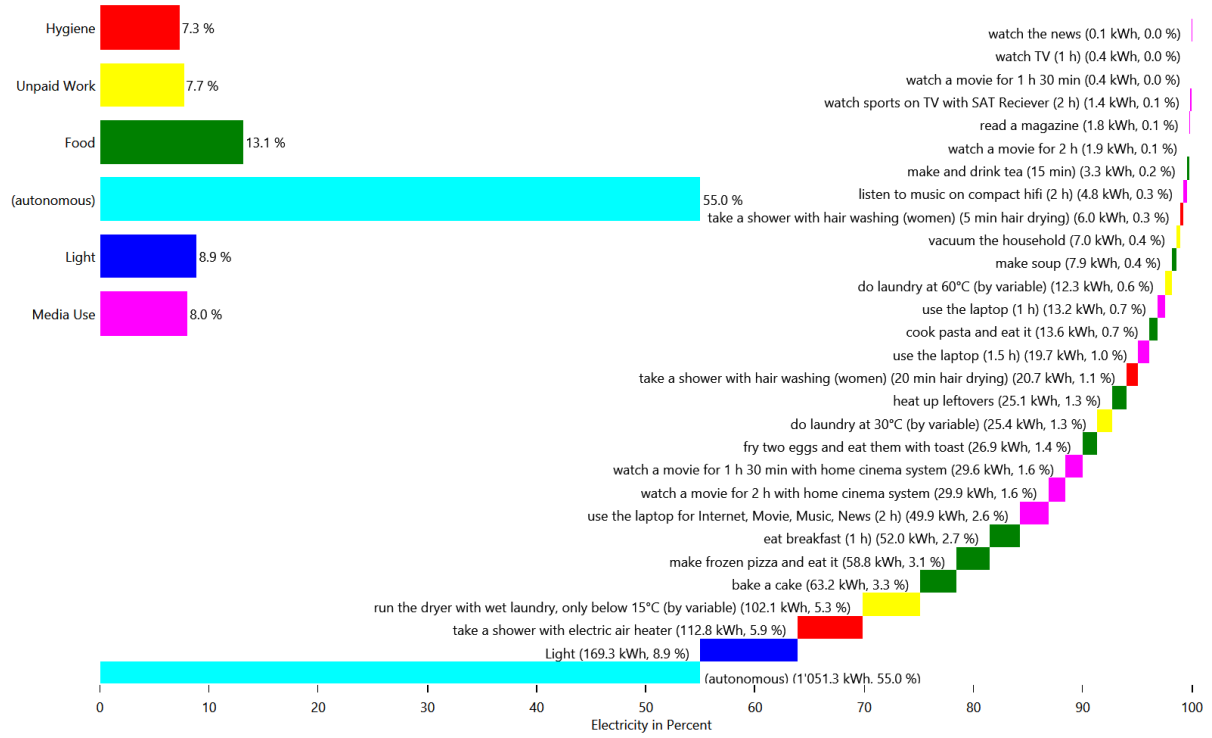
HH0 - Electricity



HH0 - Electricity



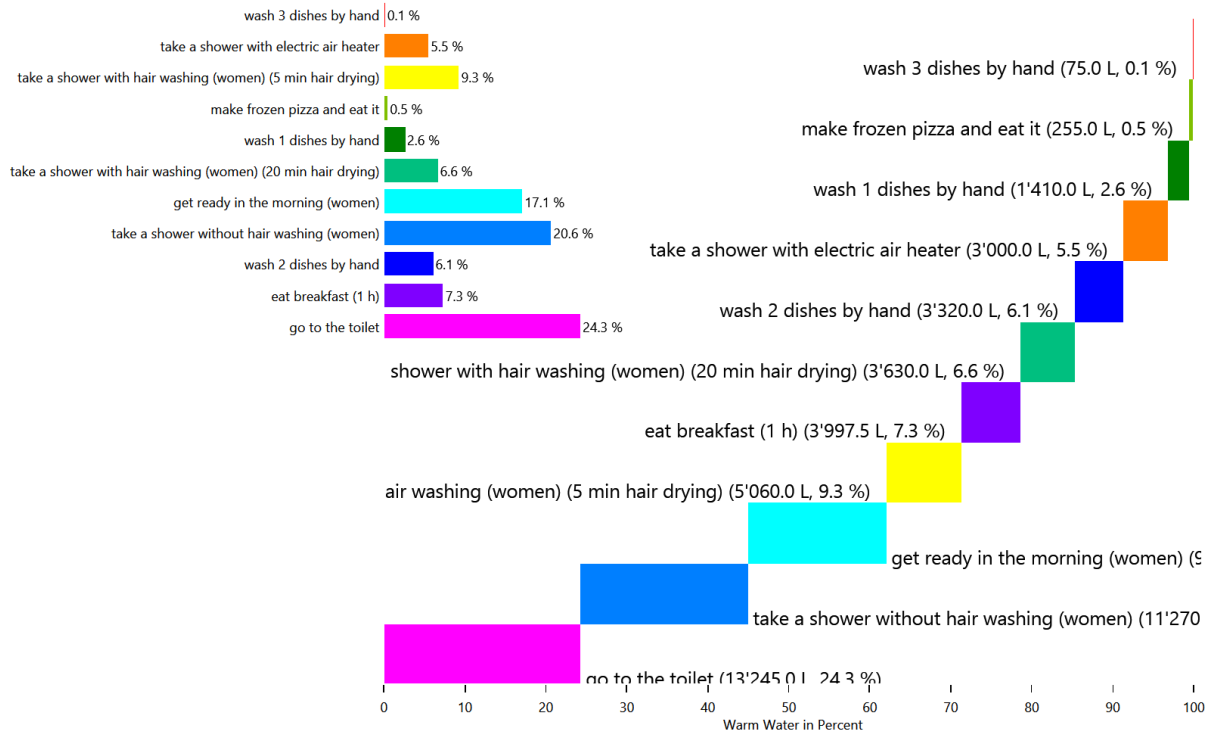
HH0 - Electricity



HH0 - Warm Water



HH0 - Warm Water



HH0 - Warm Water

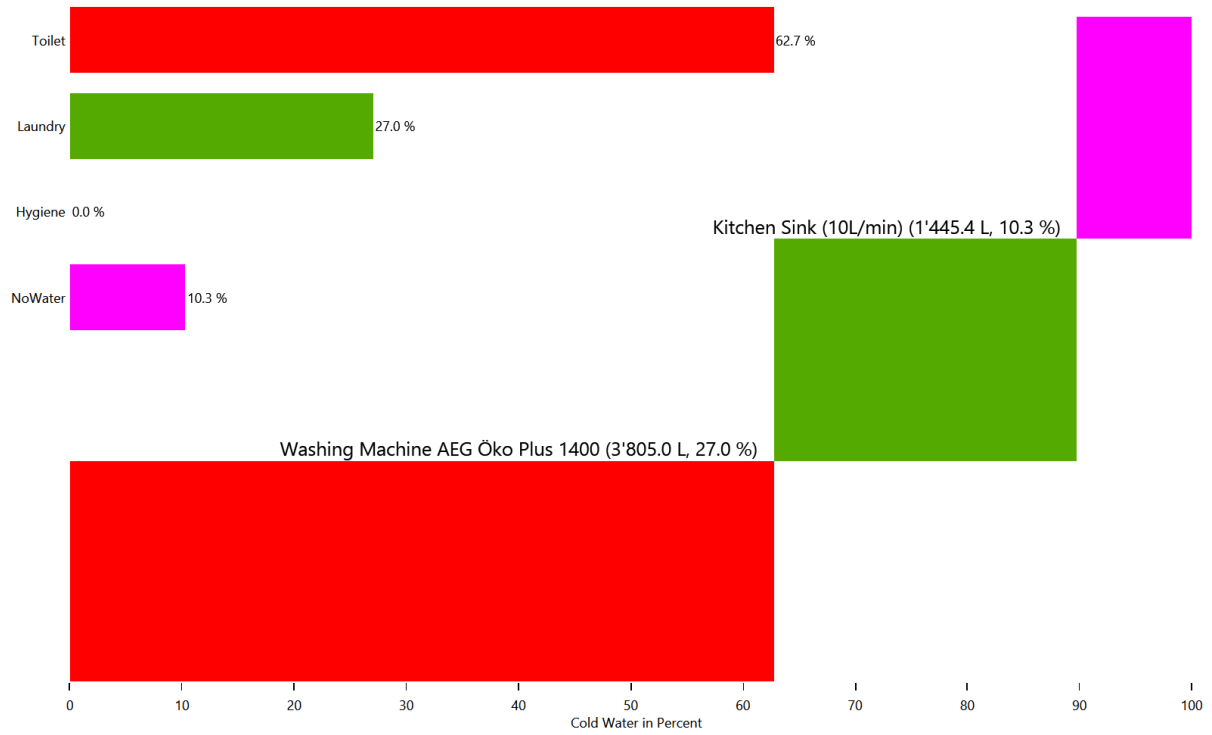


Energy use for each load type for each device

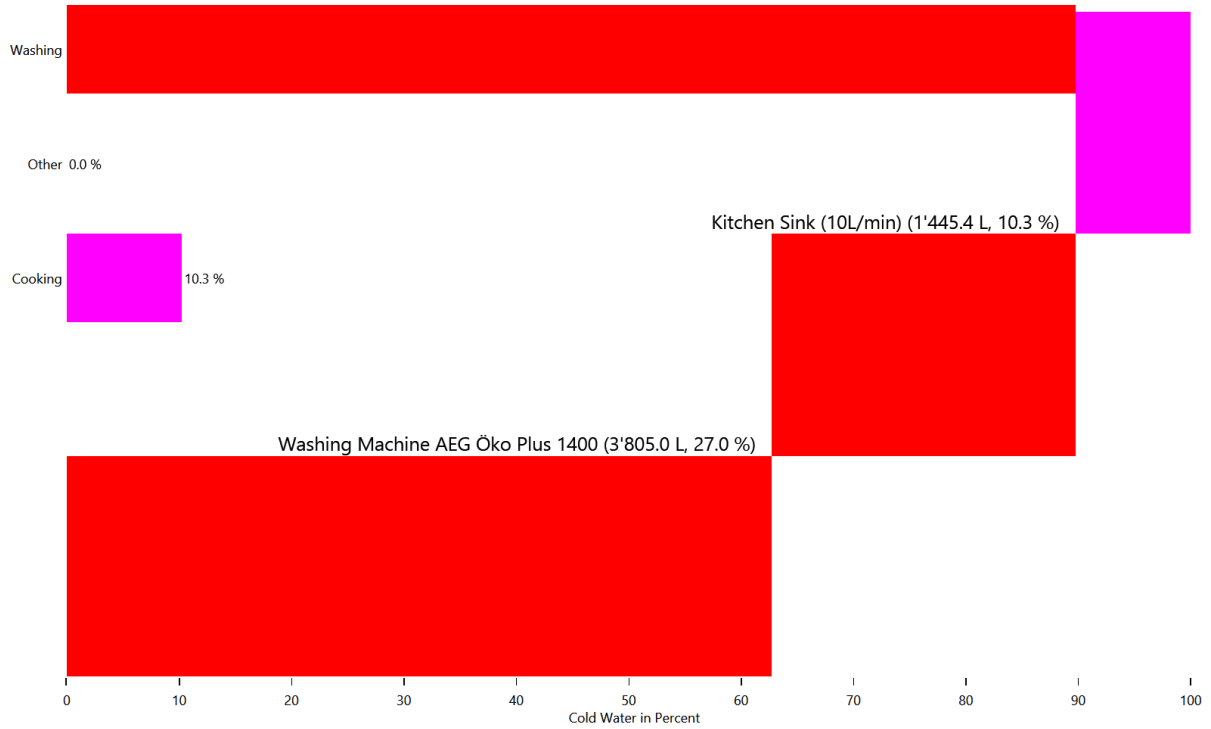
This is made from the files starting with: DeviceSums

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

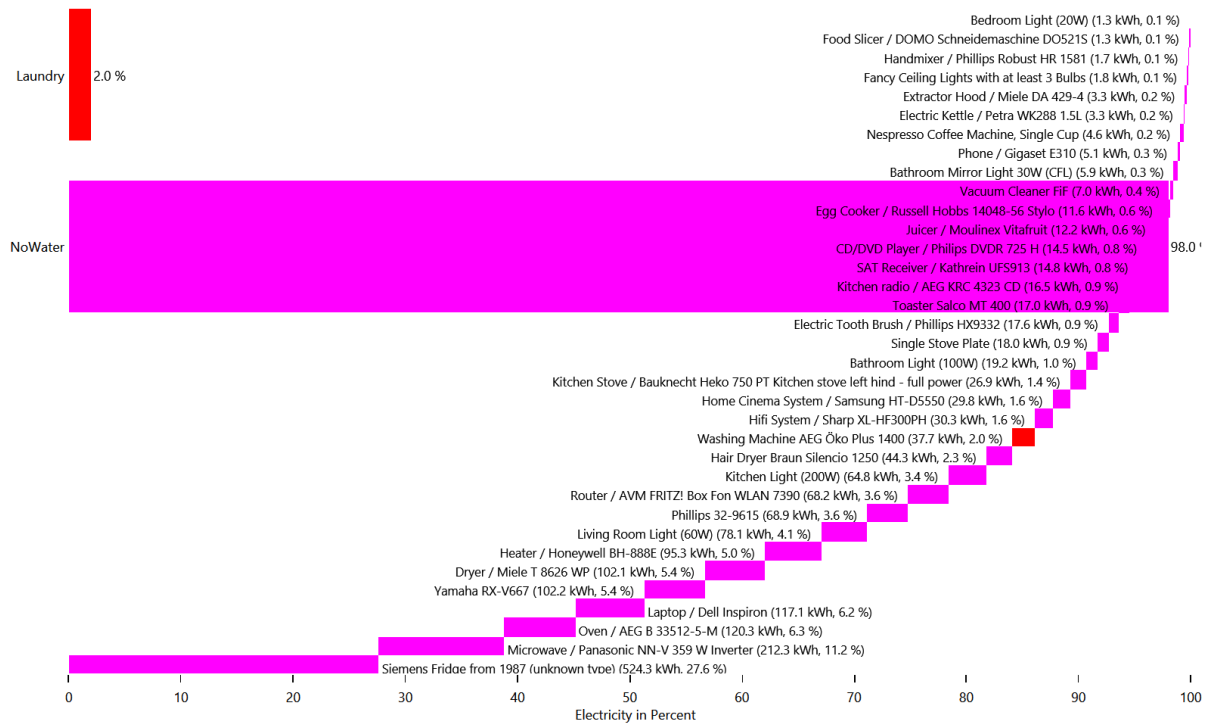
Cold Water



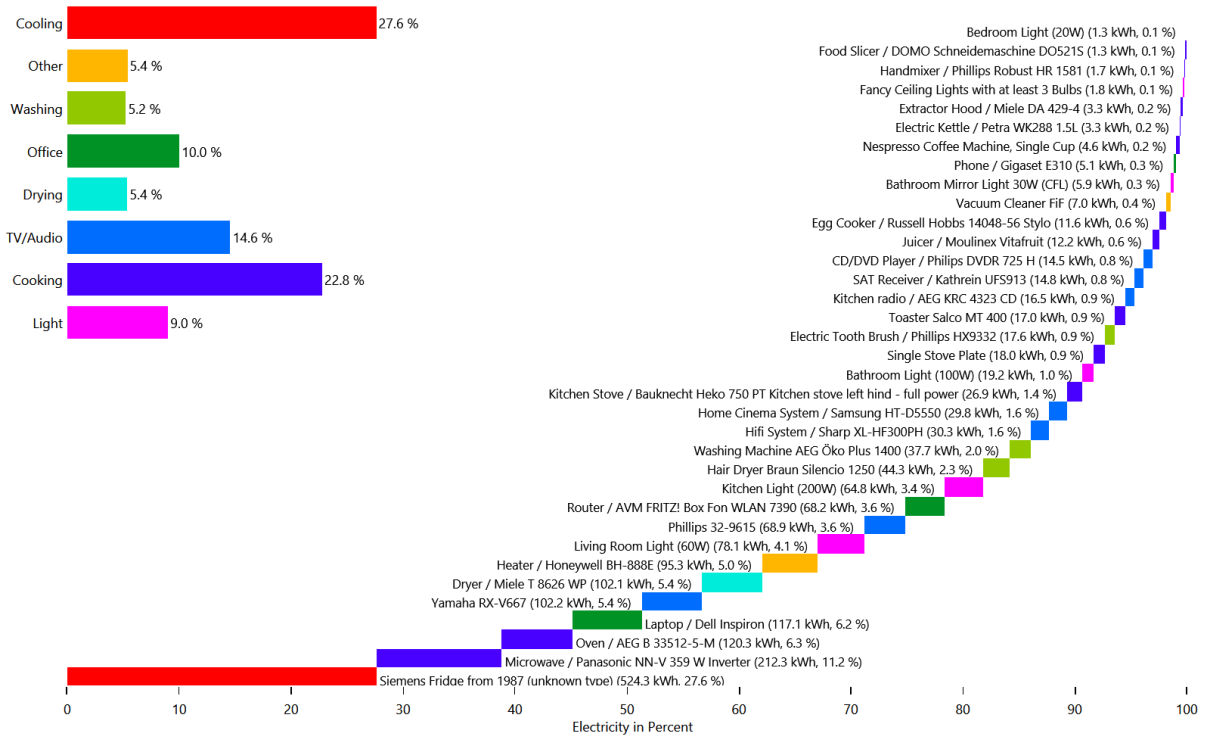
Cold Water



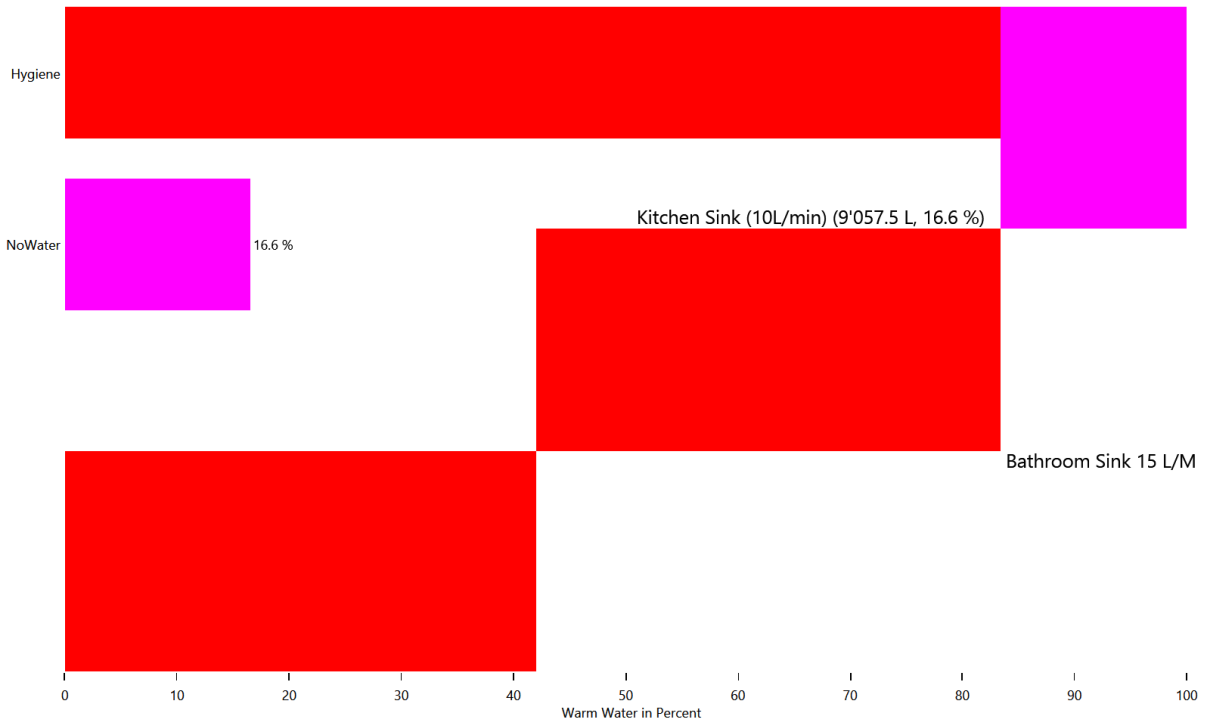
Electricity



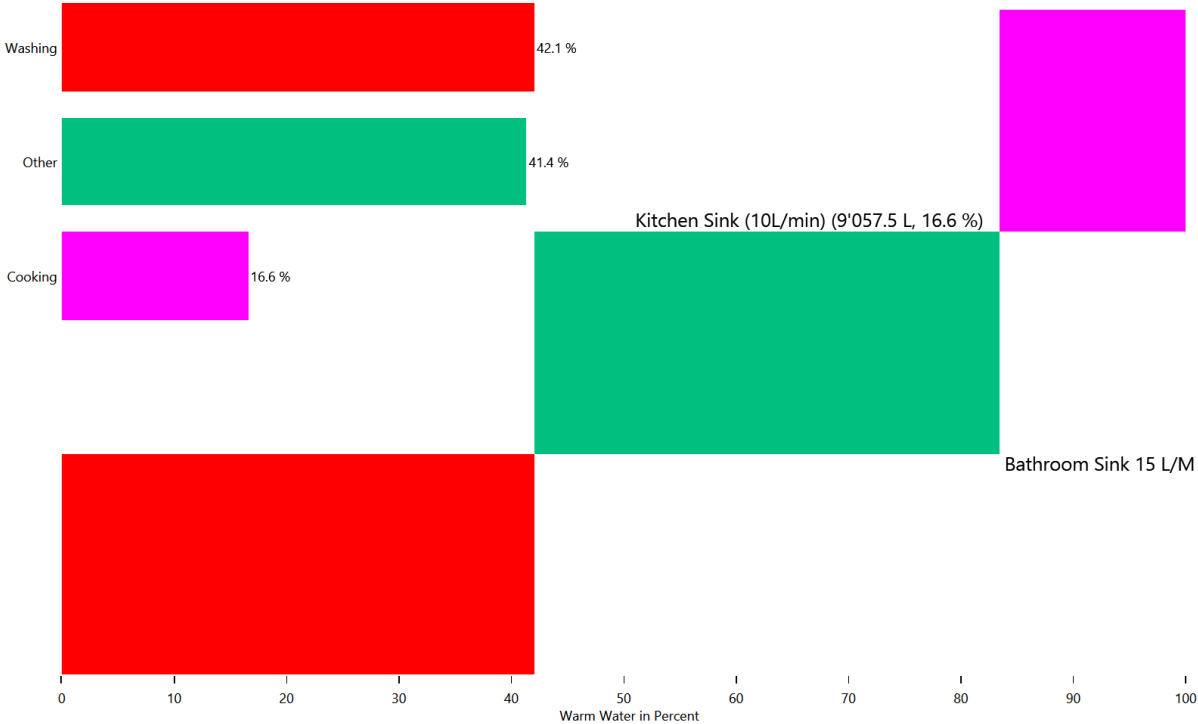
Electricity



Warm Water



Warm Water

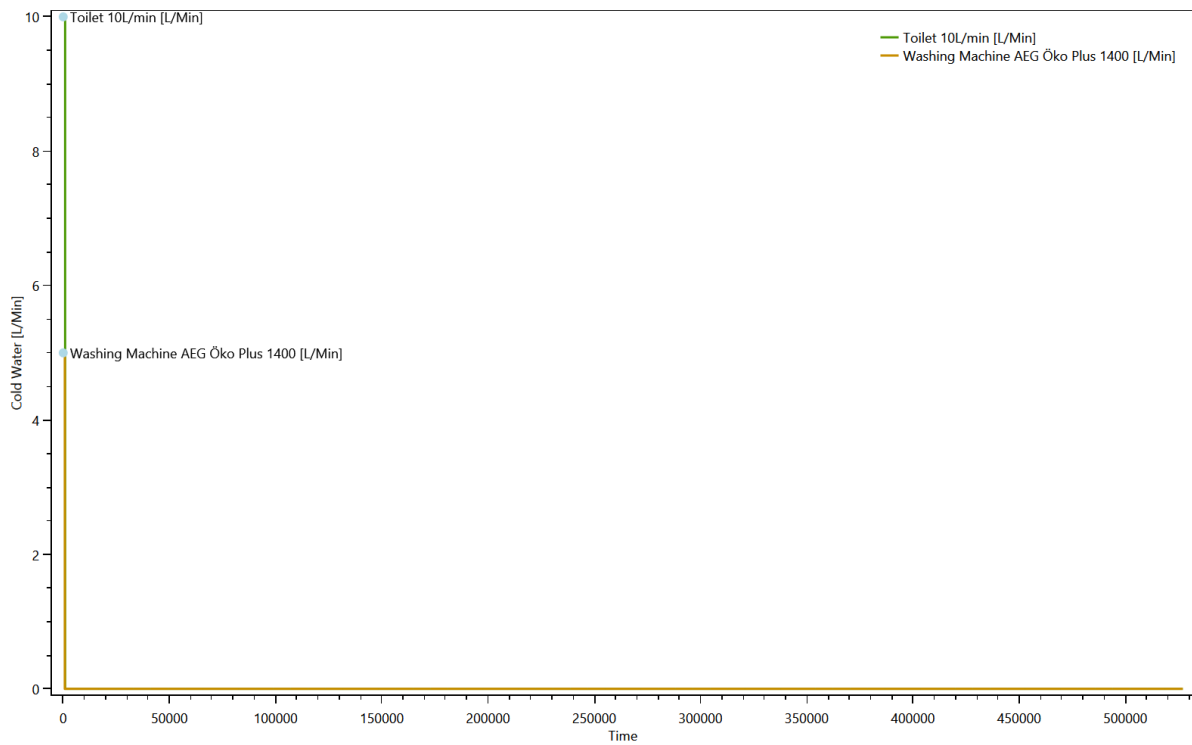


Duration curve for each device for each load type

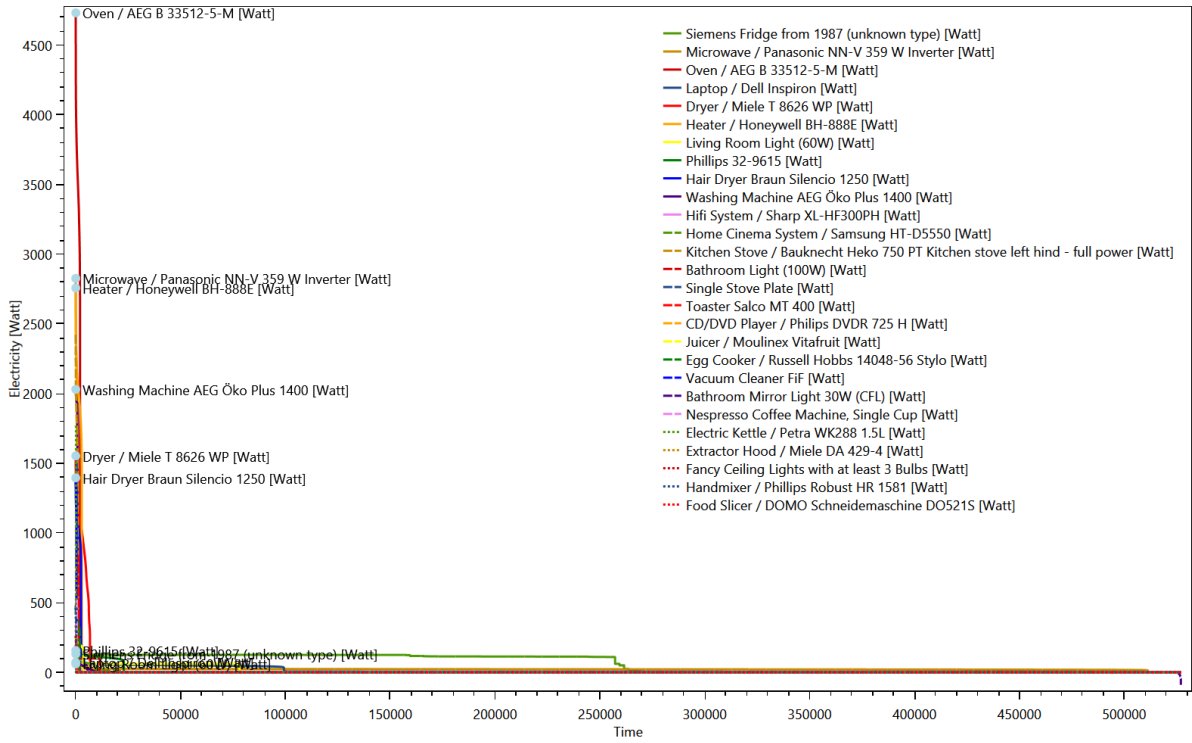
This is made from the files starting with: DeviceDurationCurves

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

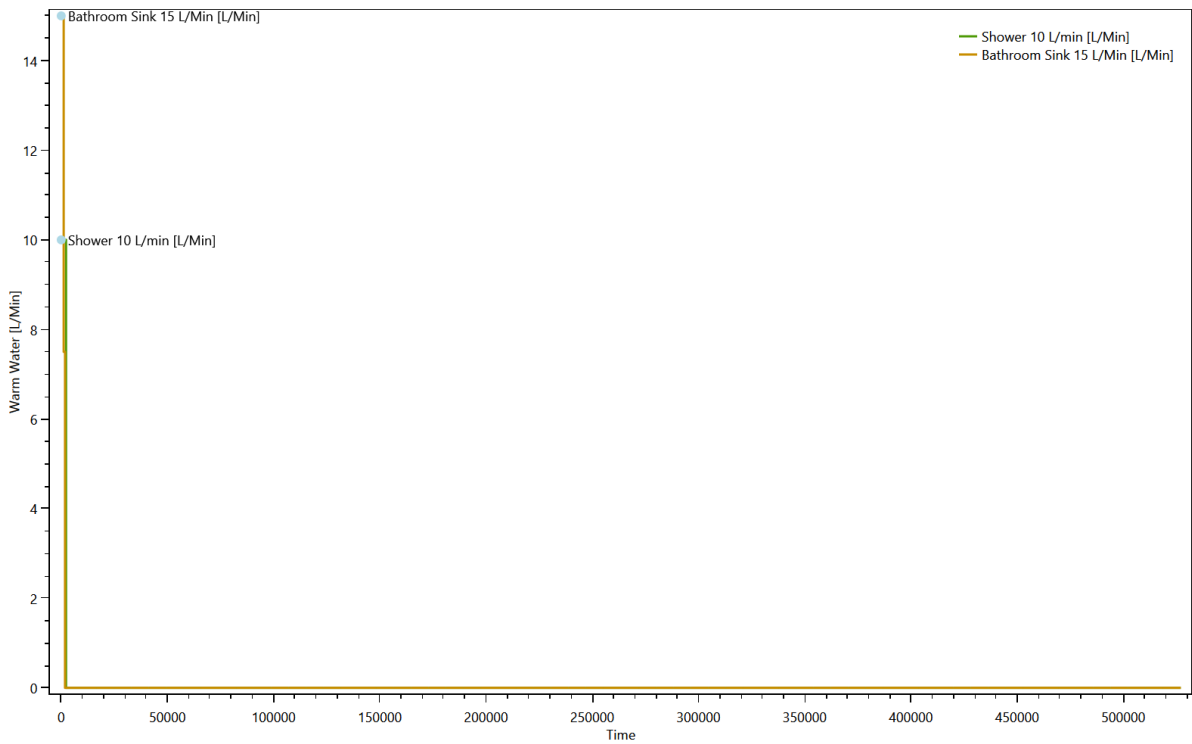
Cold Water



Electricity



Warm Water

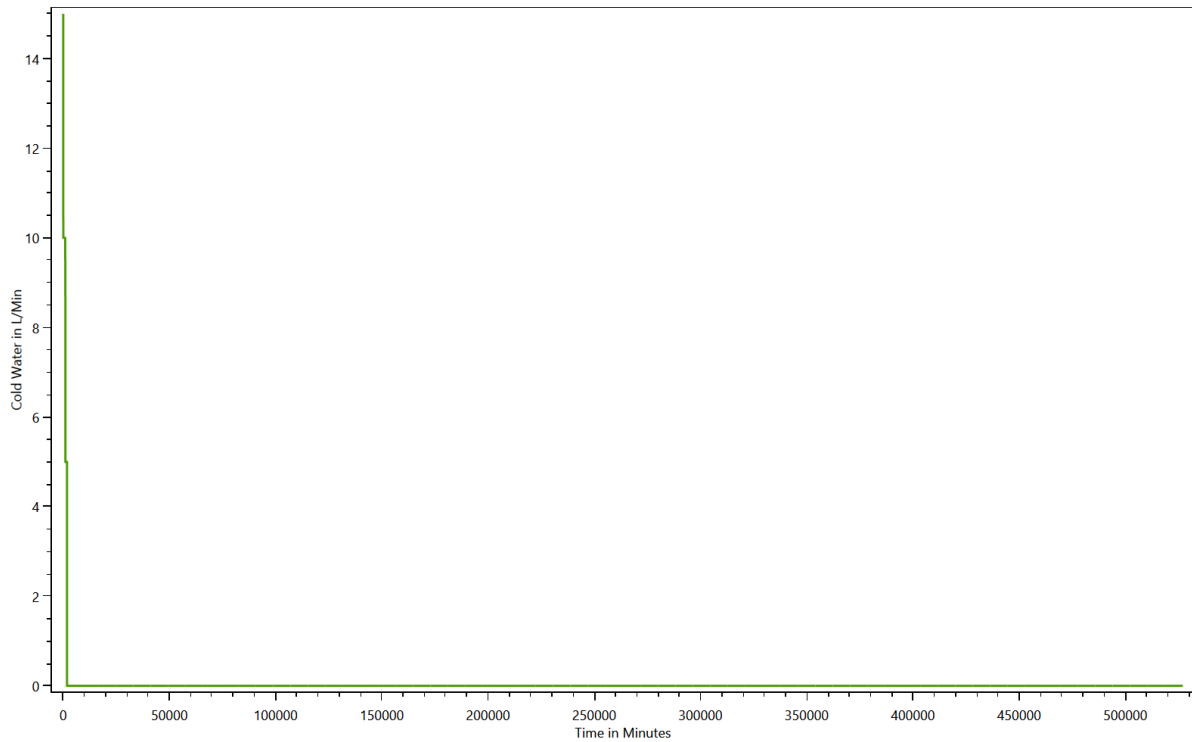


Duration curve for each load type

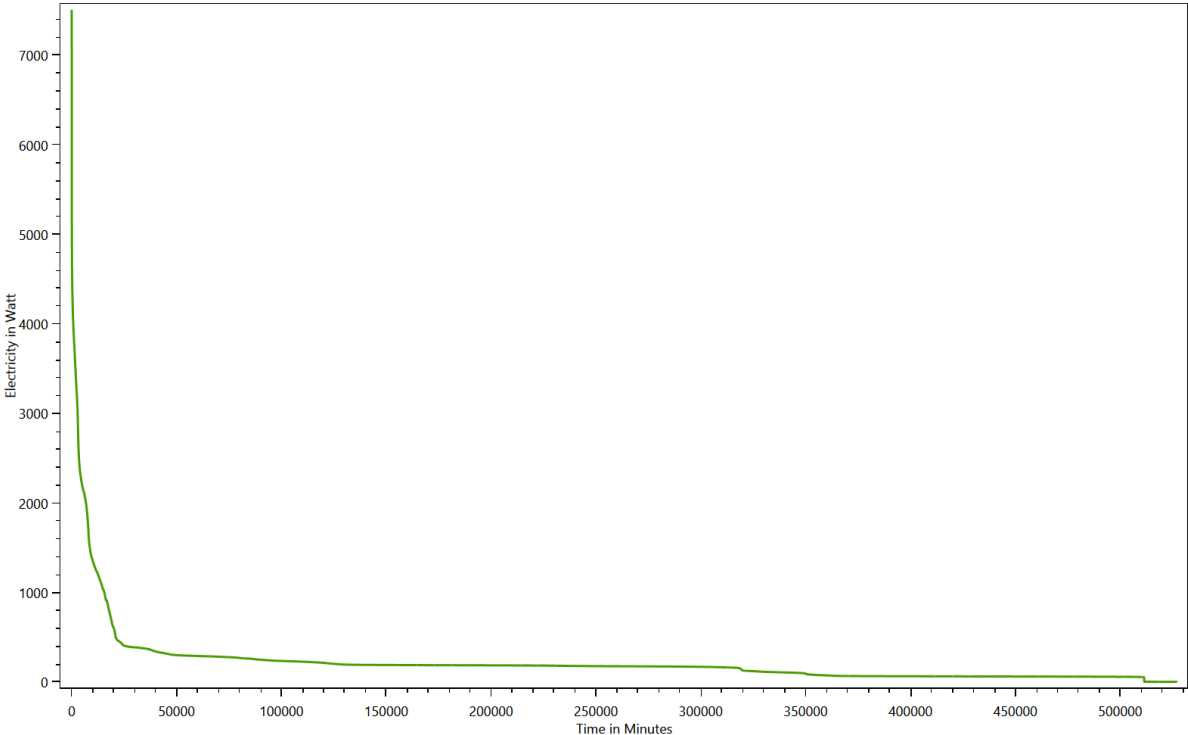
This is made from the files starting with: **DurationCurve**

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

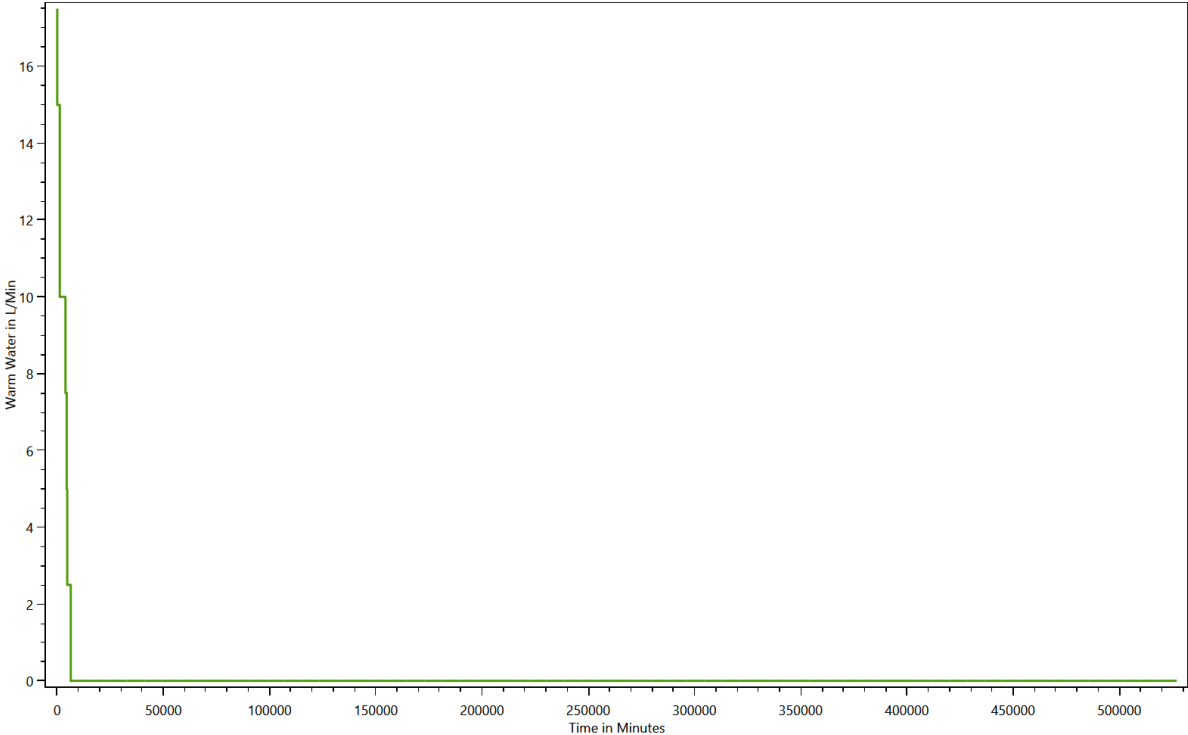
Cold Water



Electricity



Warm Water

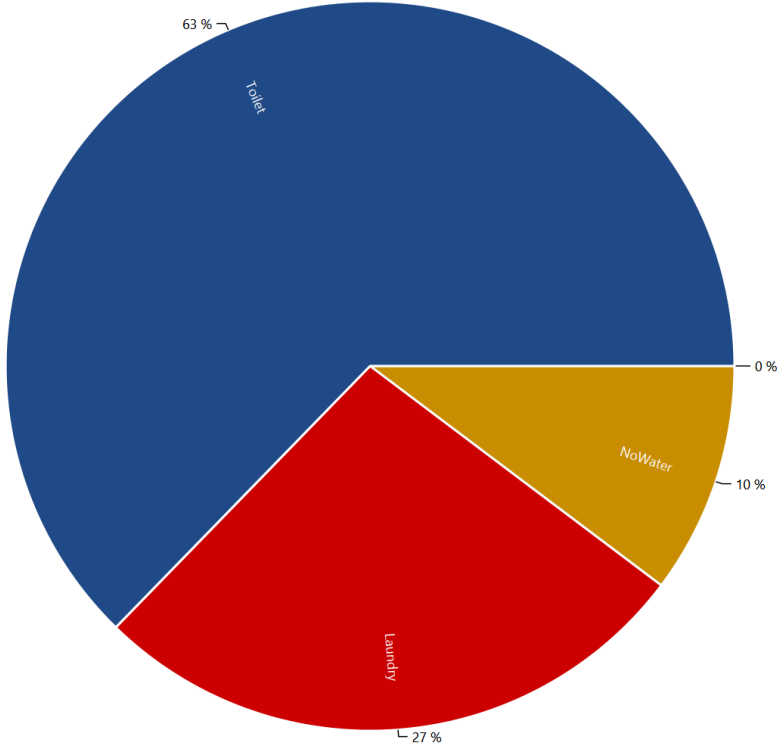


Grouped energy use for each load type for each device

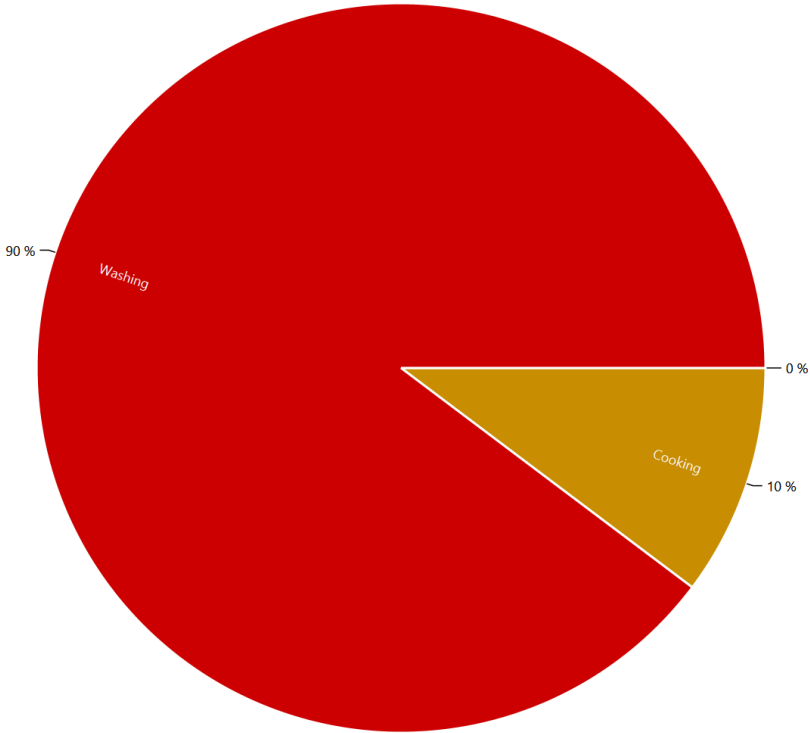
This is made from the files starting with: DeviceTaggingSet

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

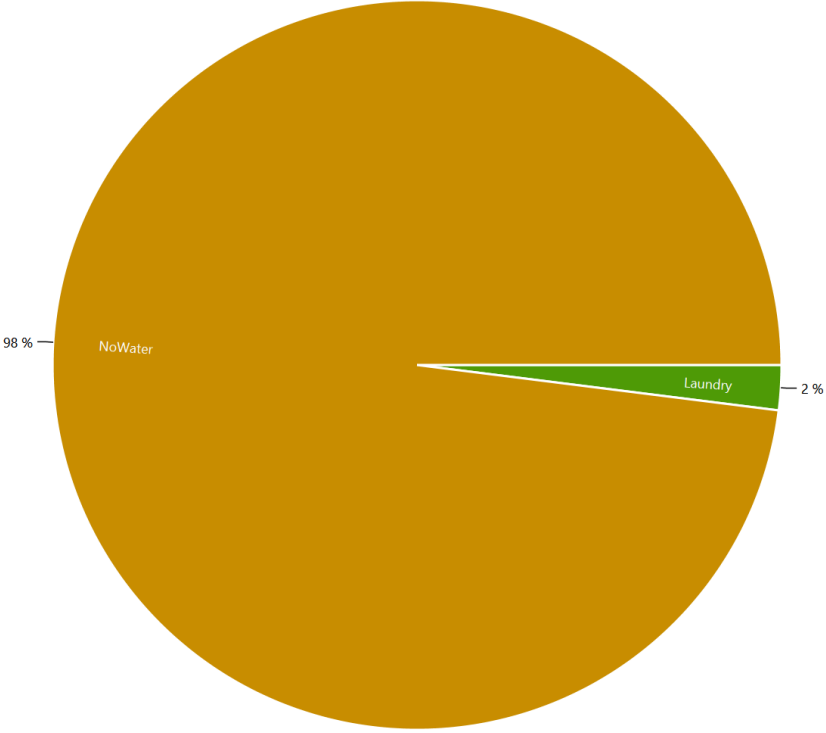
HH0 - Destatis Water Usage Statistics - Cold Water



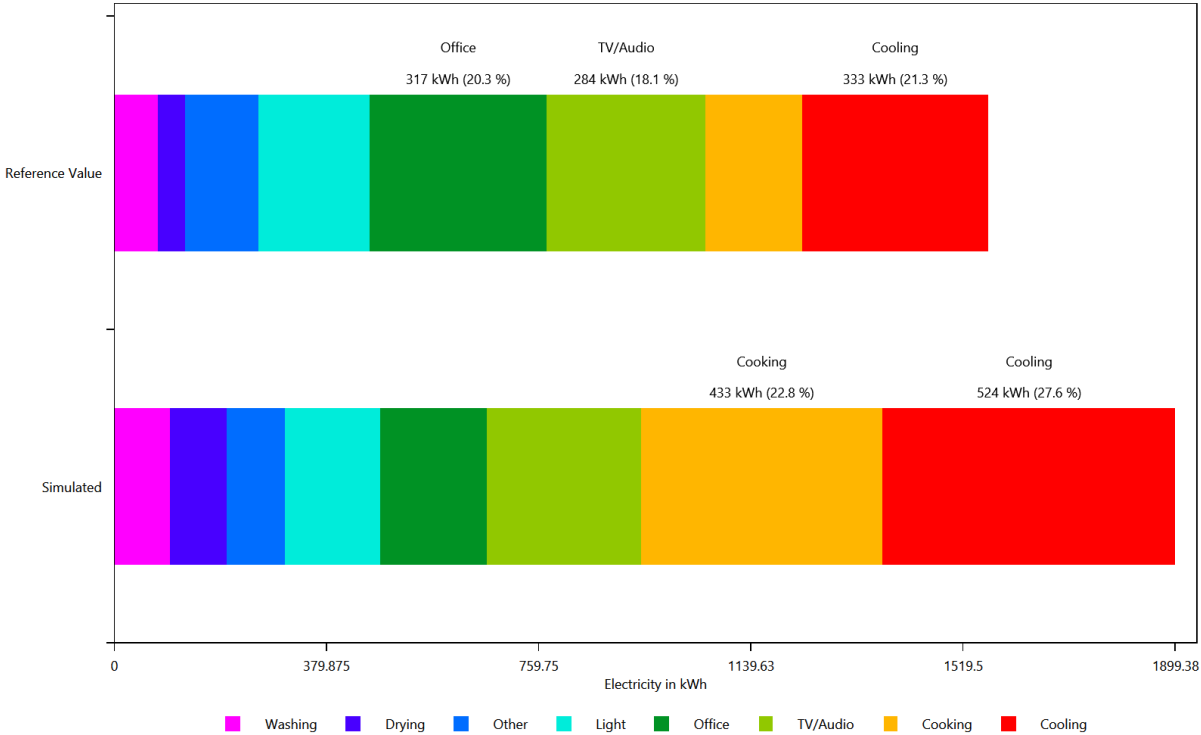
HH0 - Energieagentur - Cold Water



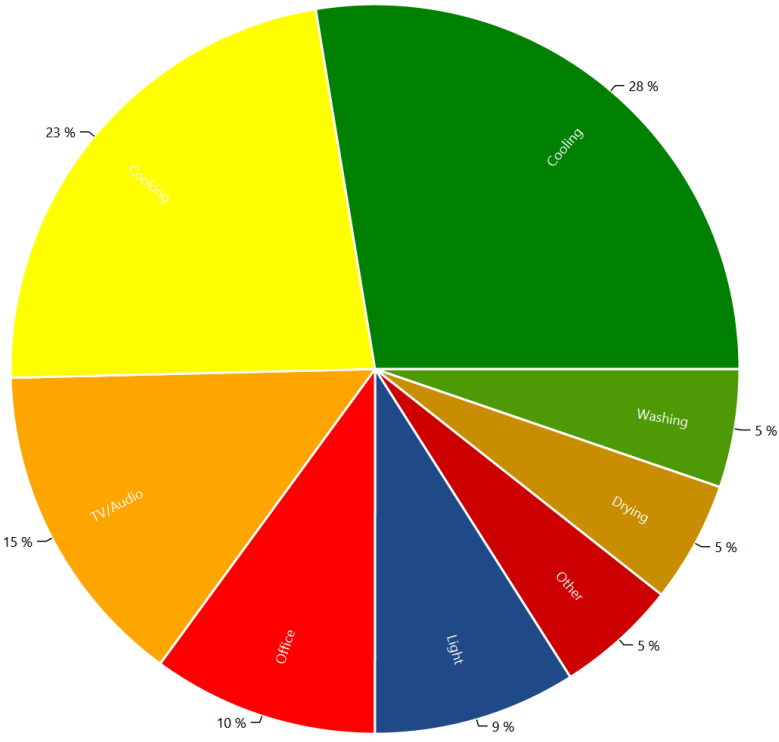
HH0 - Destatis Water Usage Statistics - Electricity



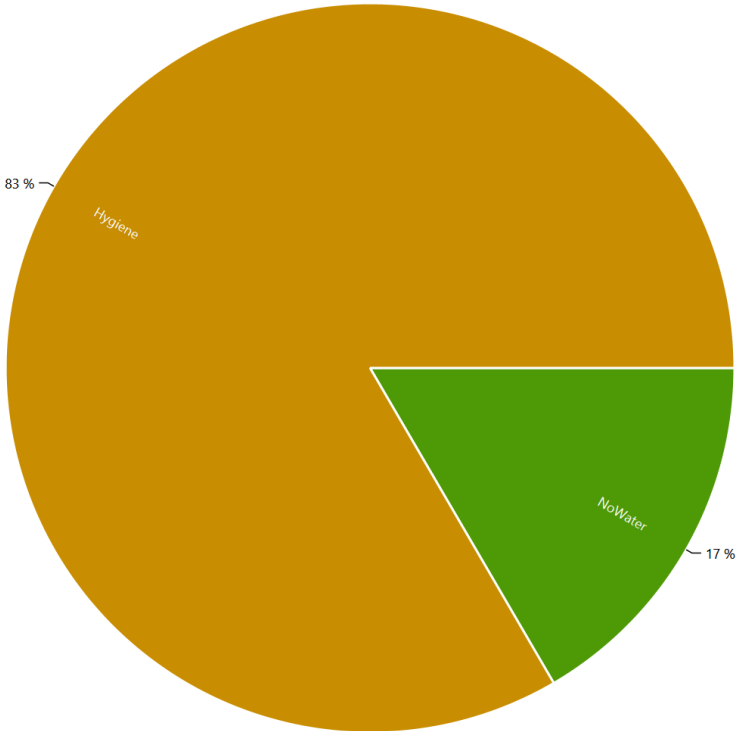
HH0 - Energieagentur - Electricity



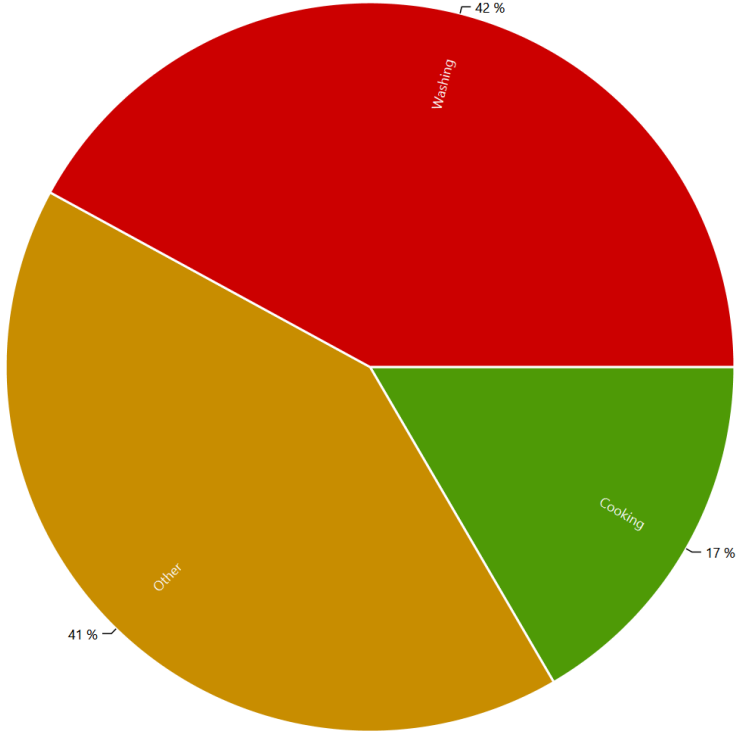
HH0 - Energieagentur - Electricity



HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

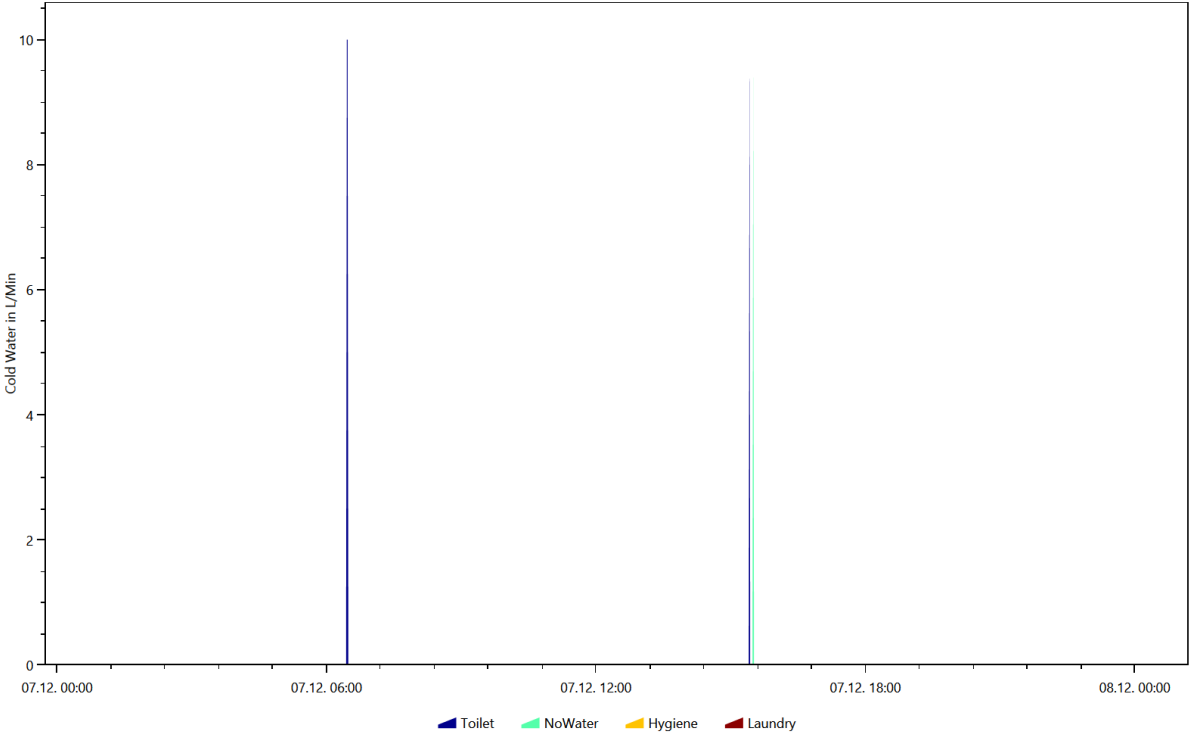


Example of the device profiles for each load type

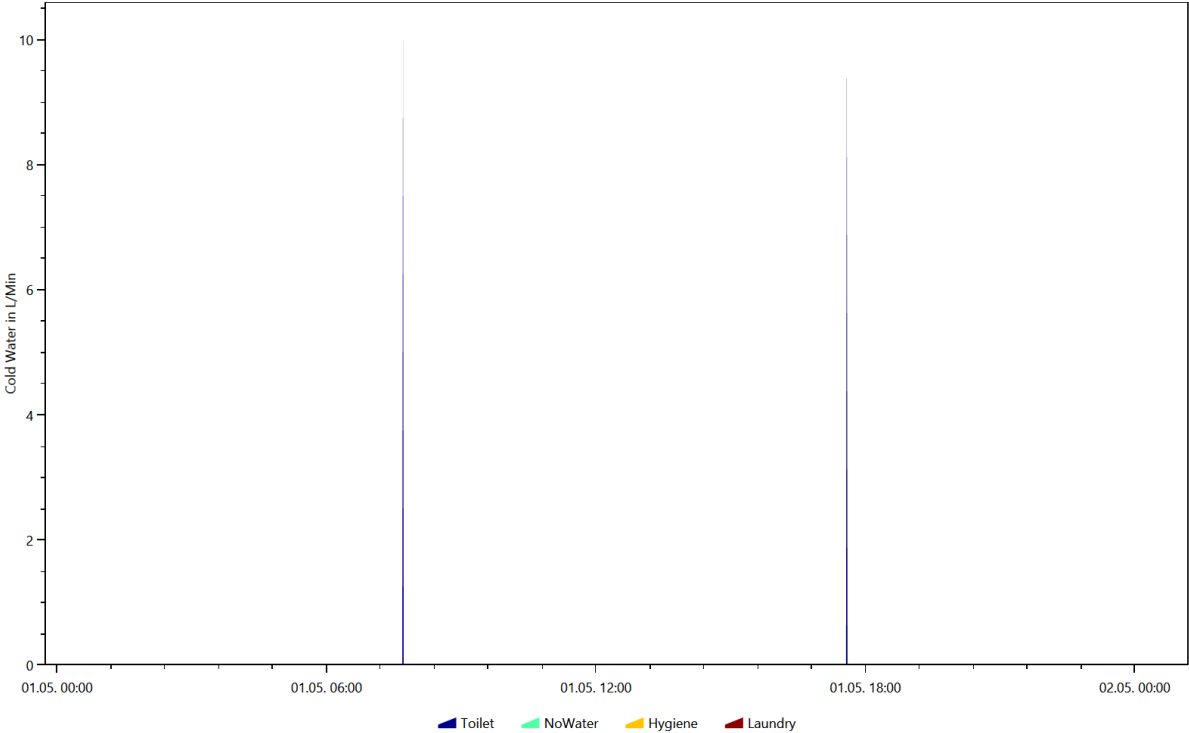
This is made from the files starting with: DeviceProfiles

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

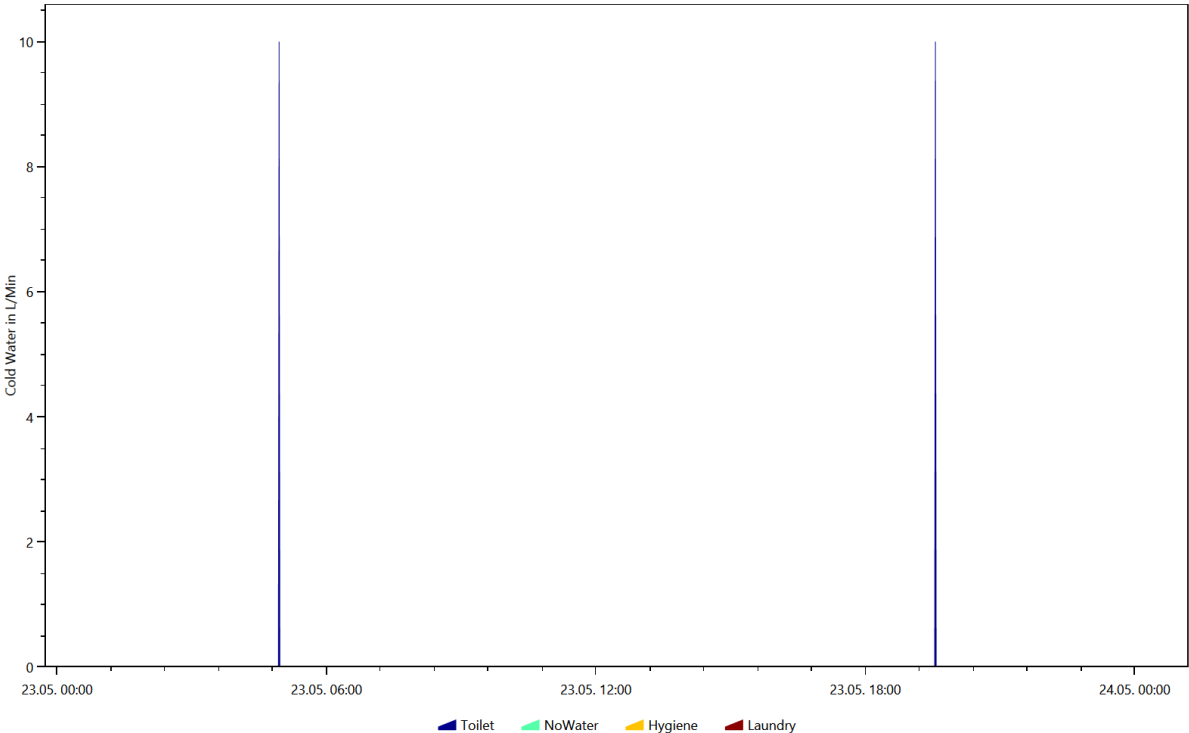
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.7



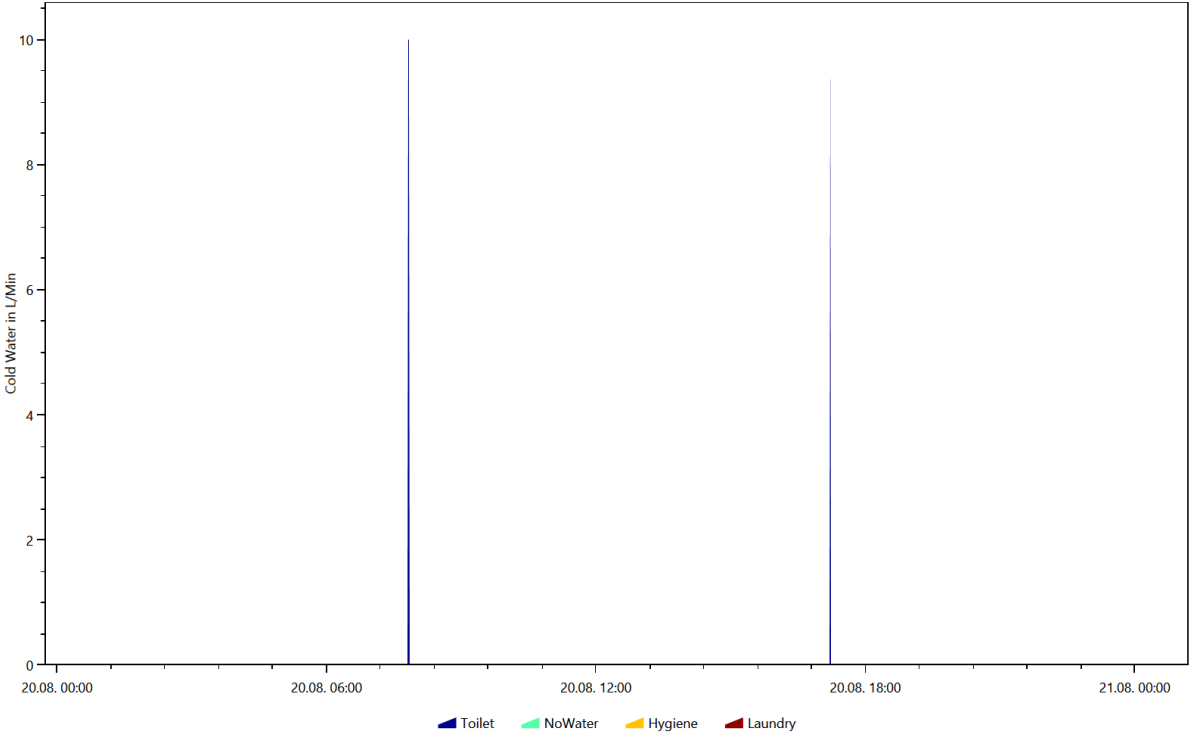
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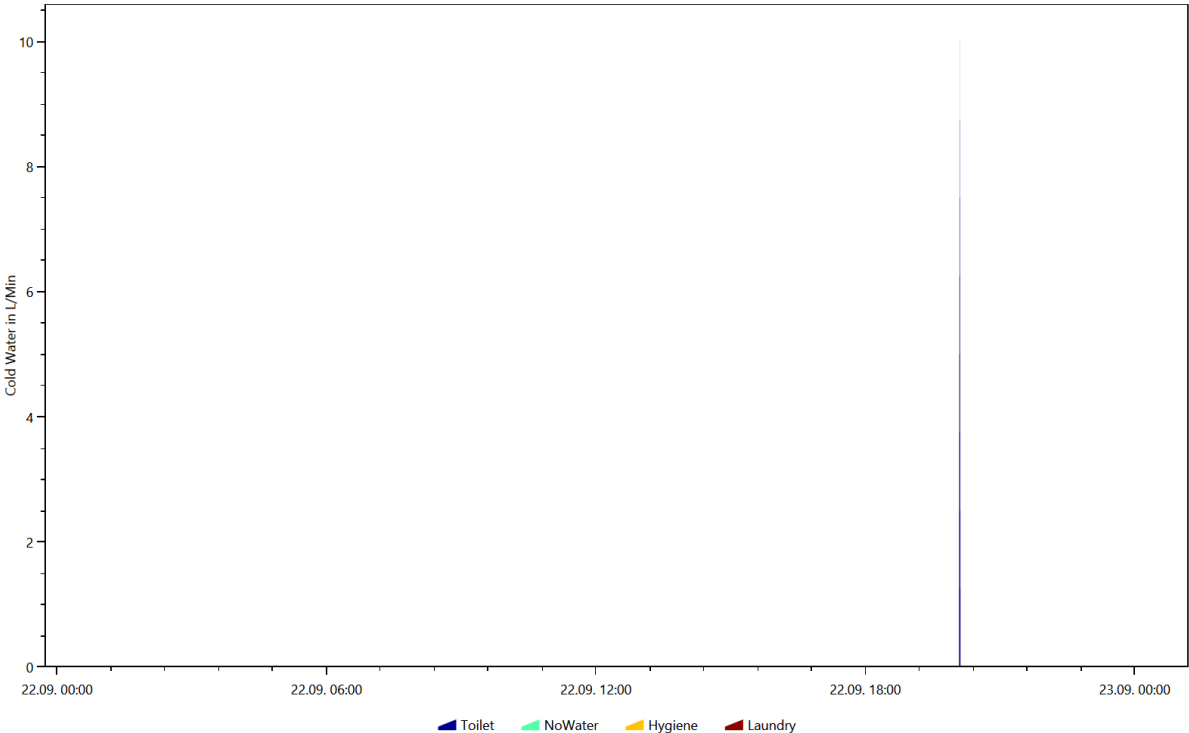
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.23



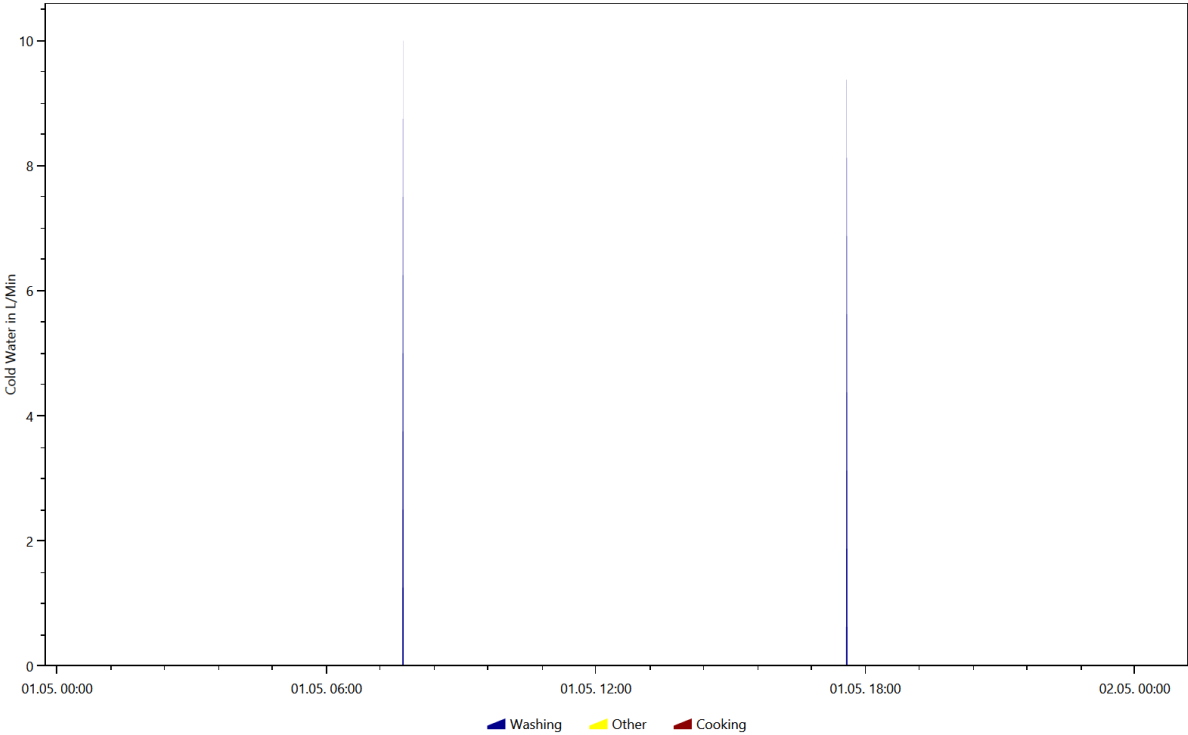
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.20



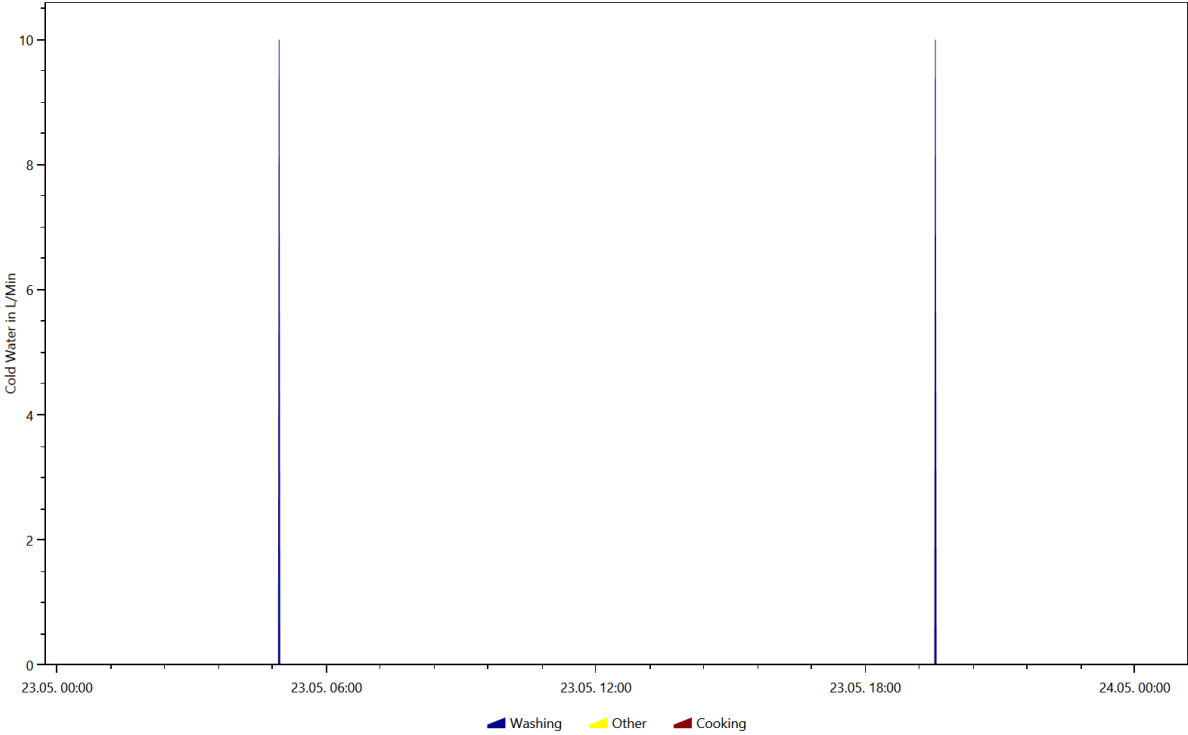
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.22



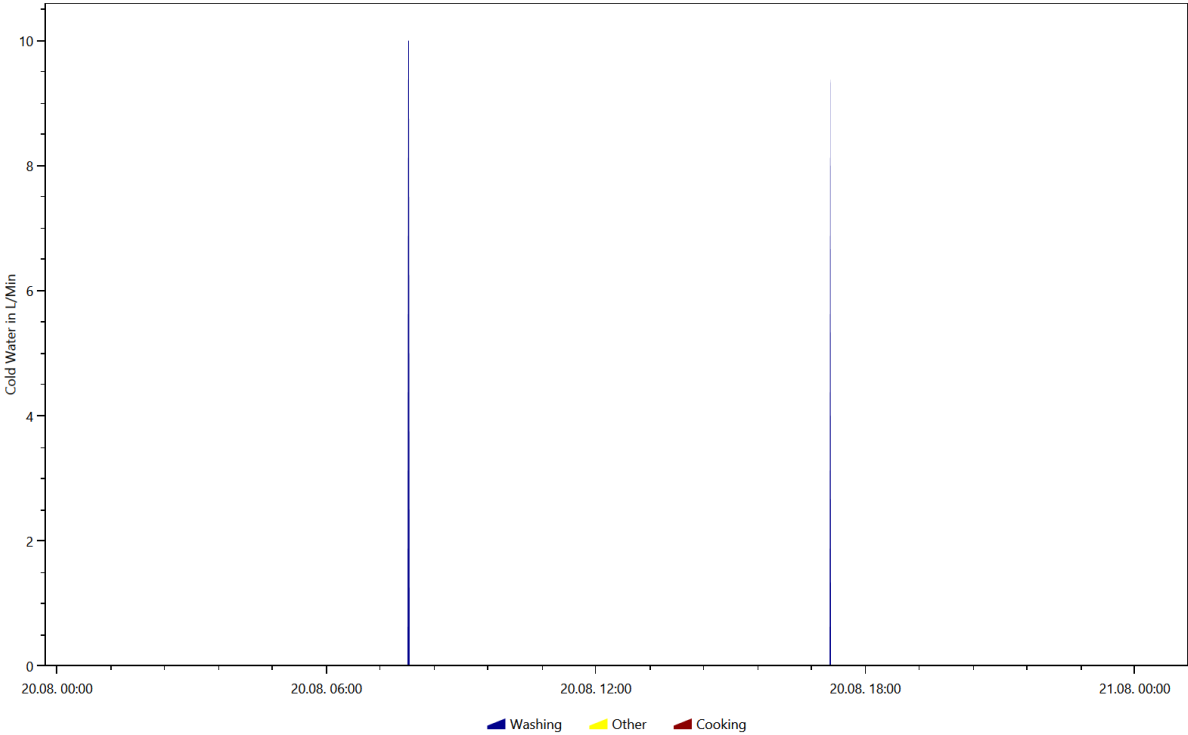
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.1



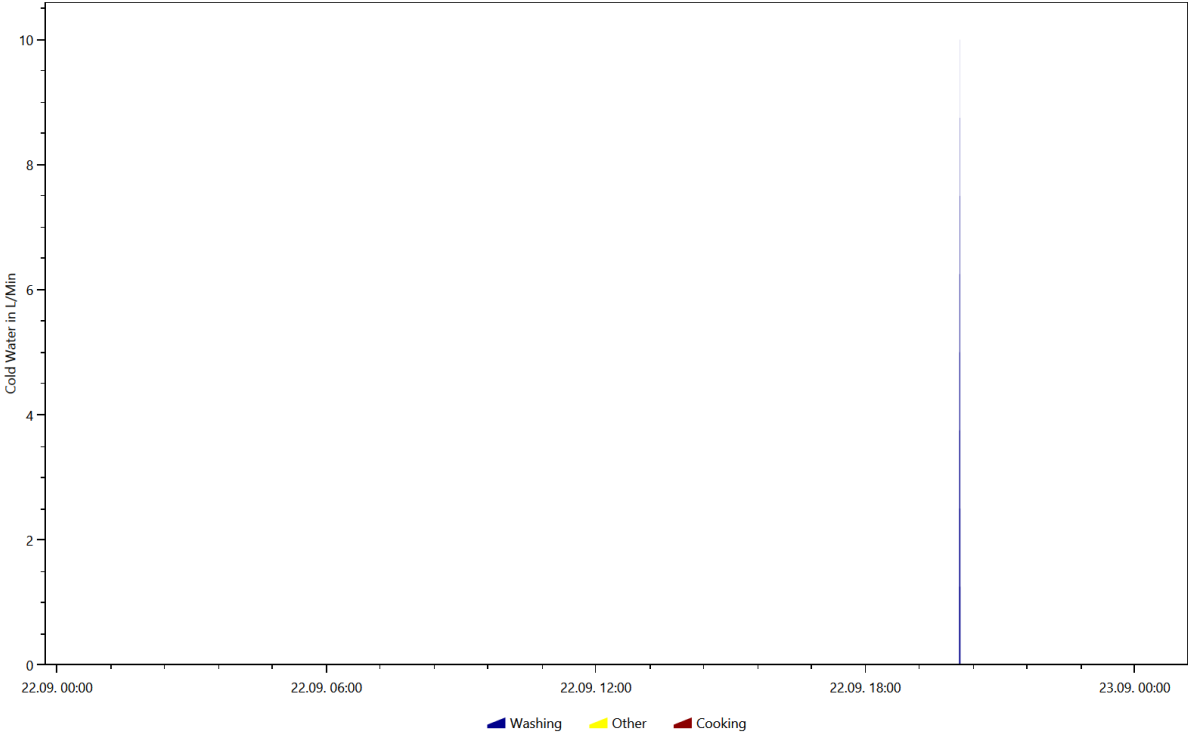
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.23



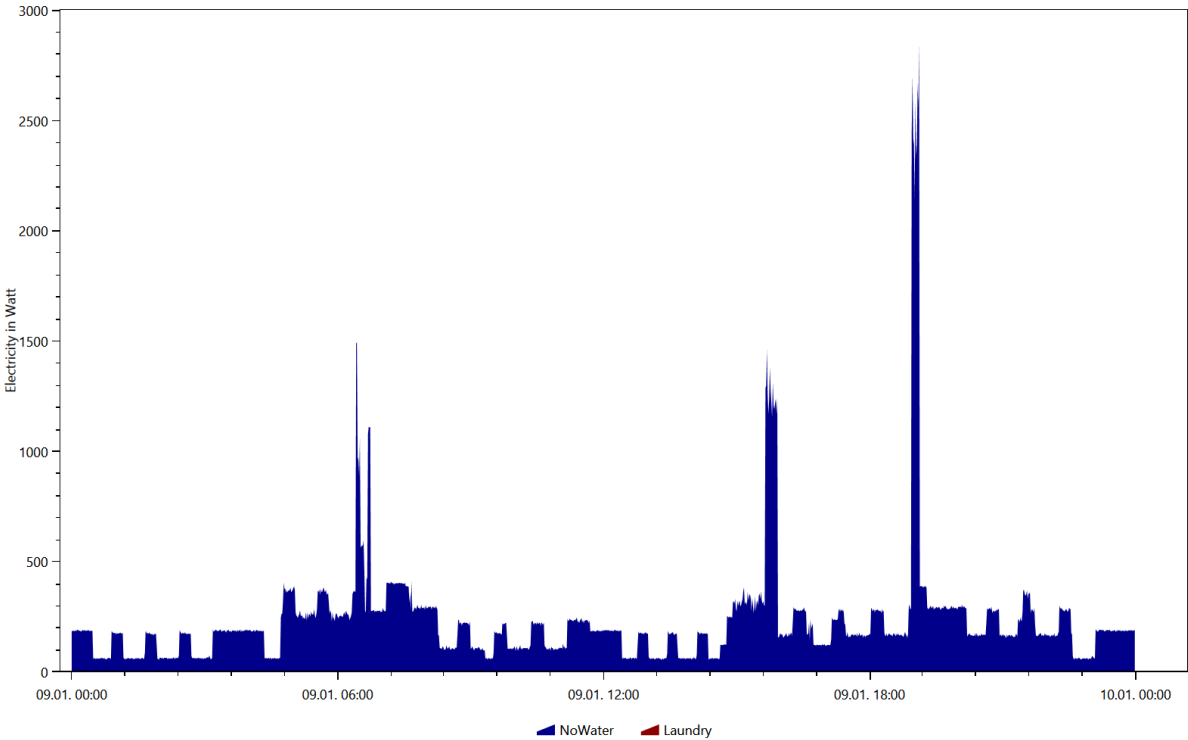
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.20



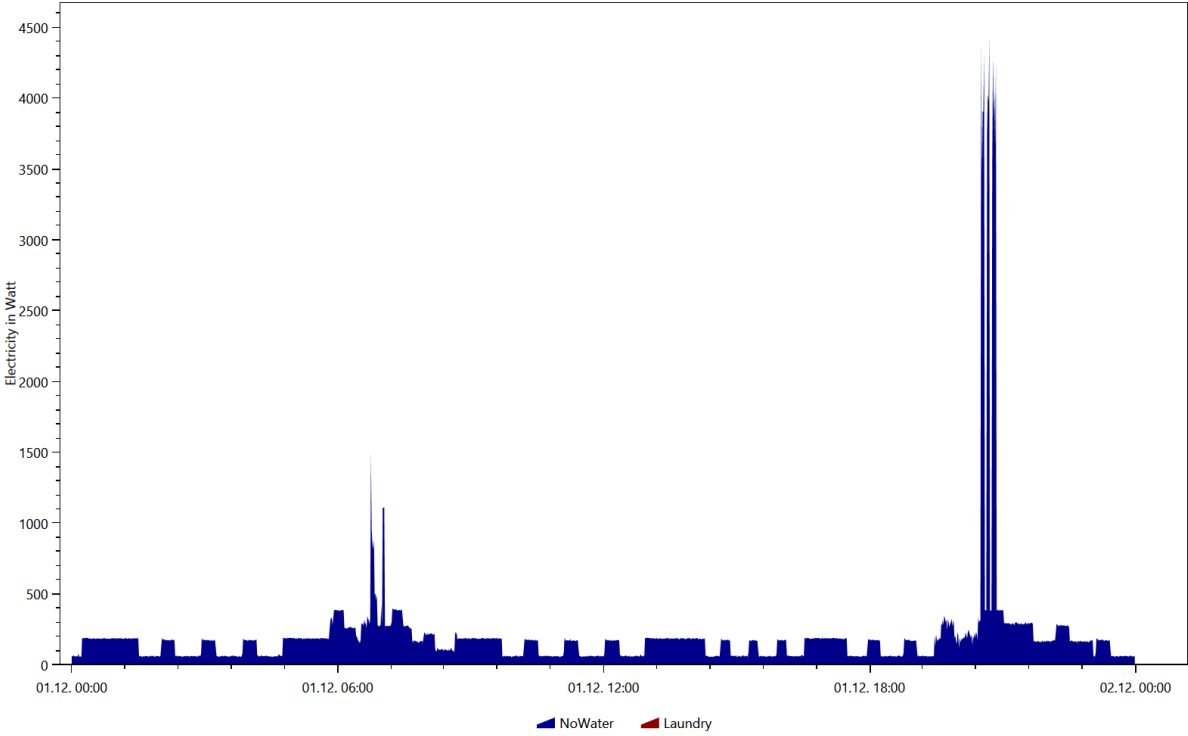
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.22



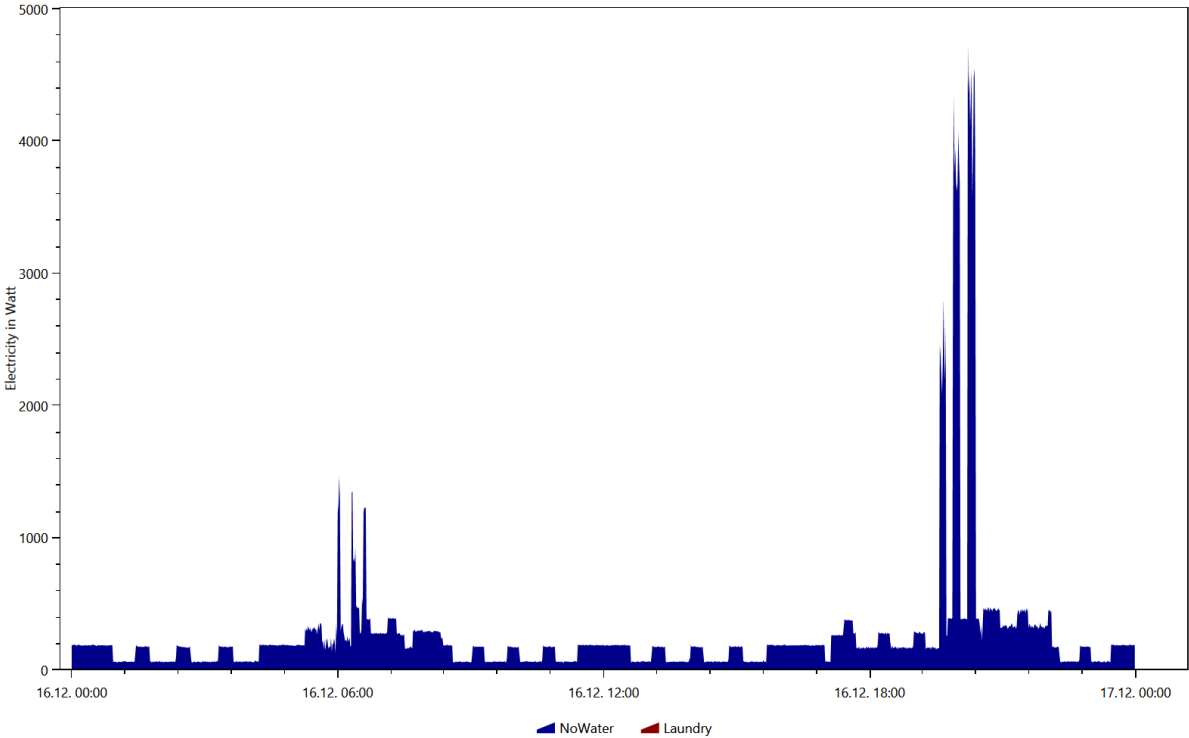
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.9



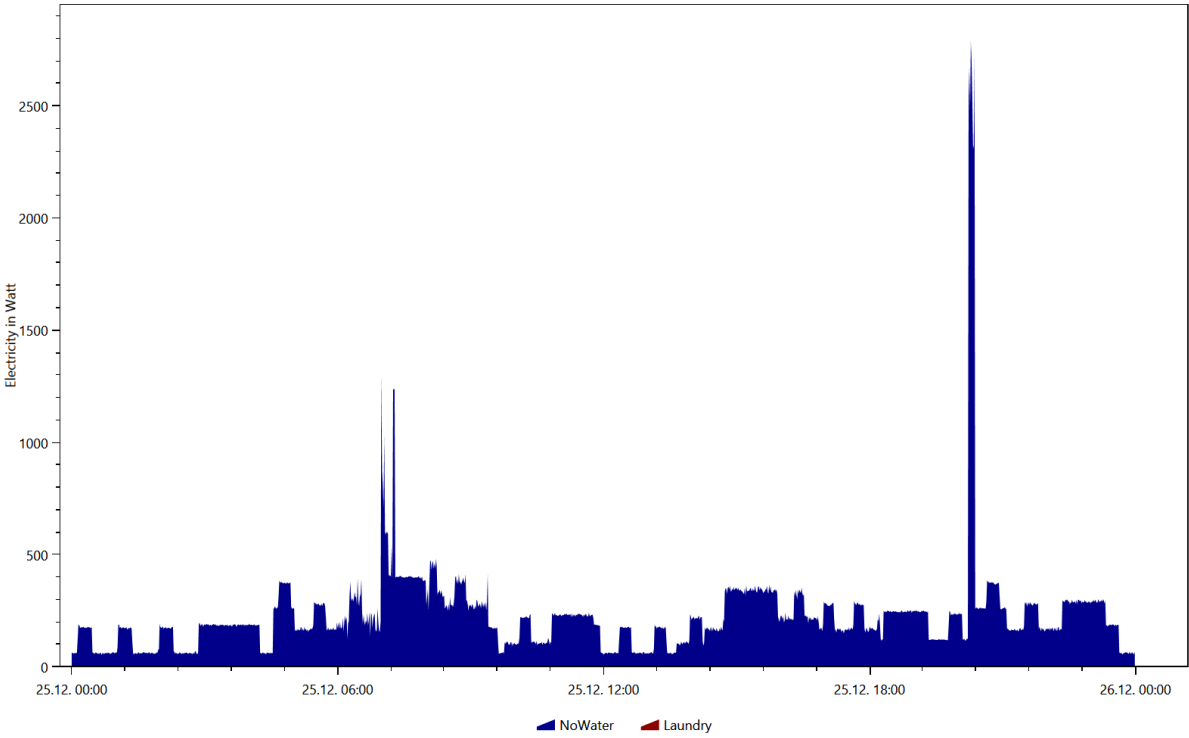
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.1



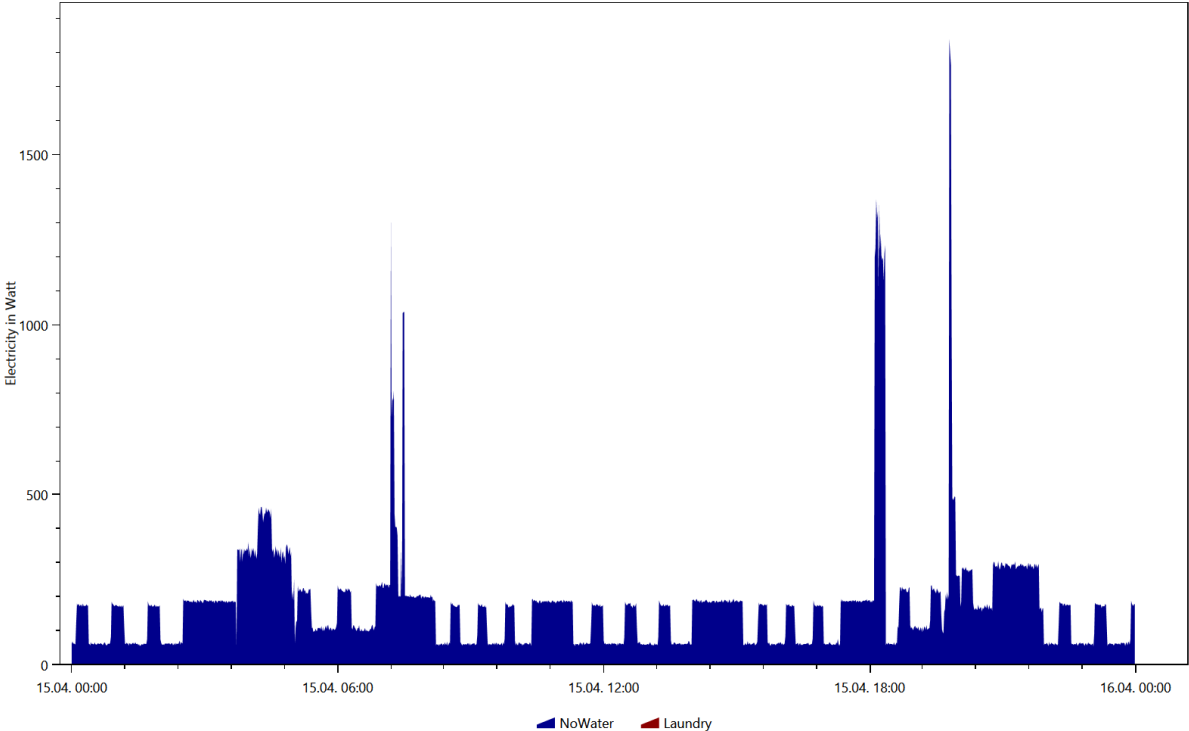
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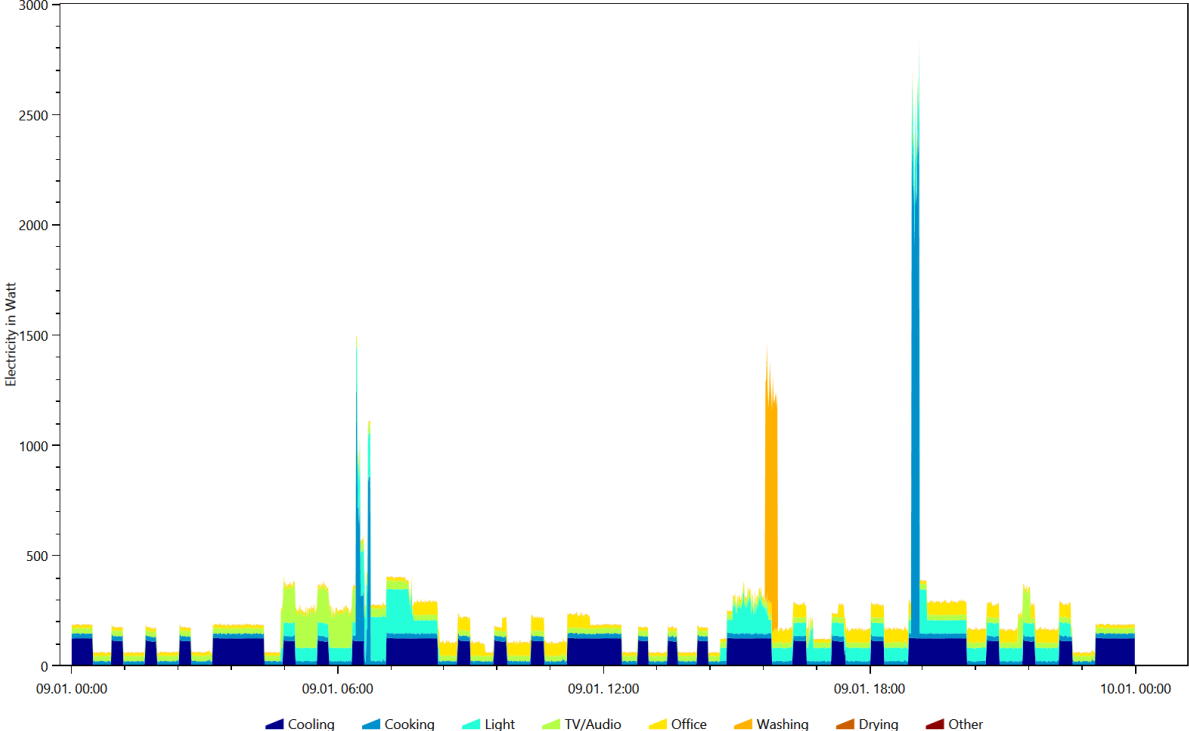
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.25



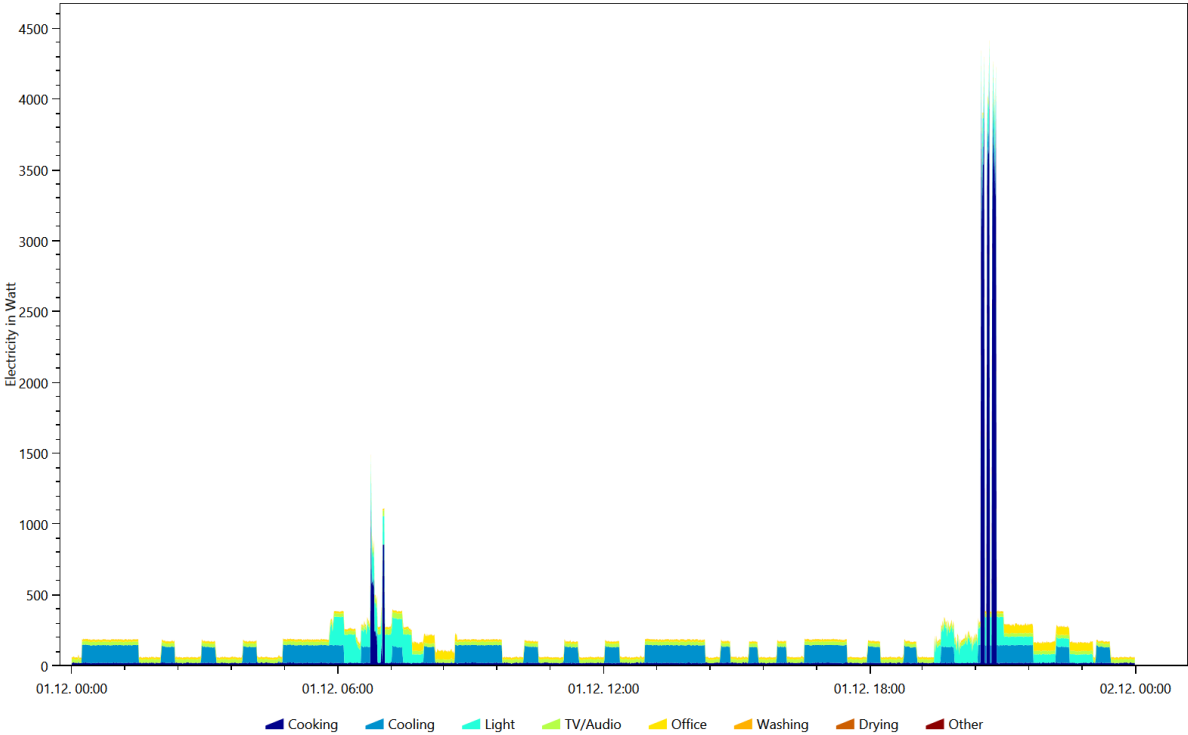
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.15



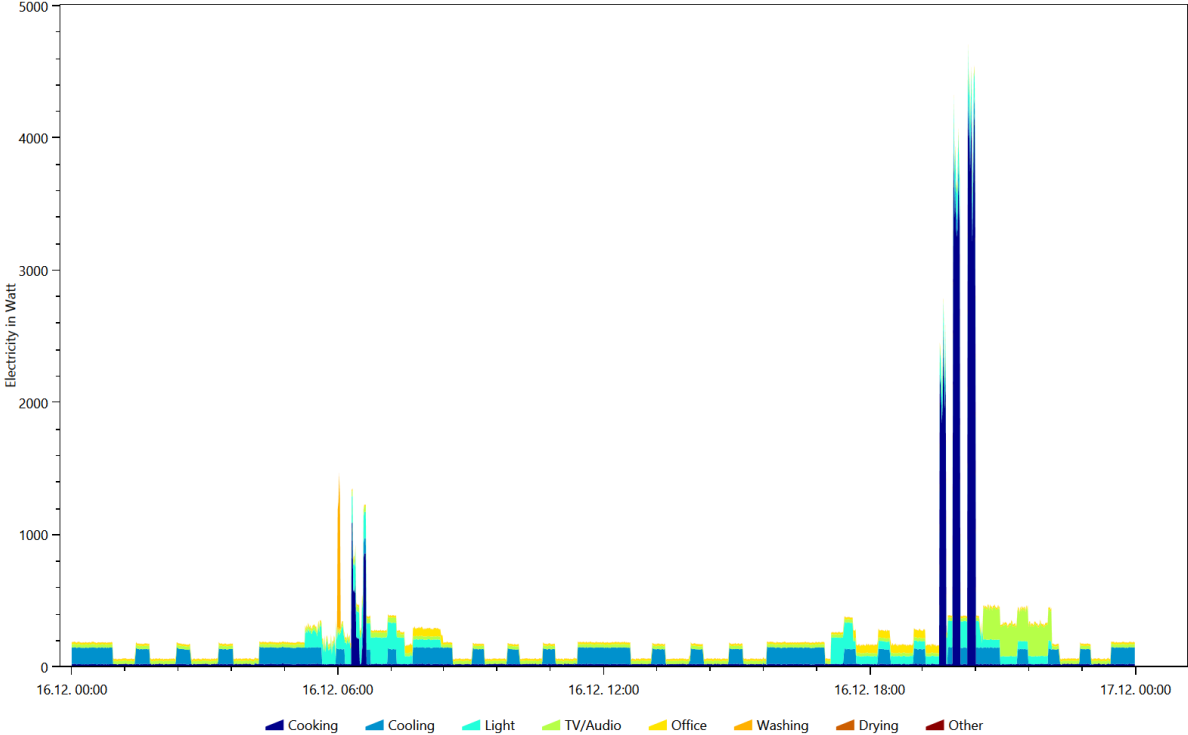
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.9



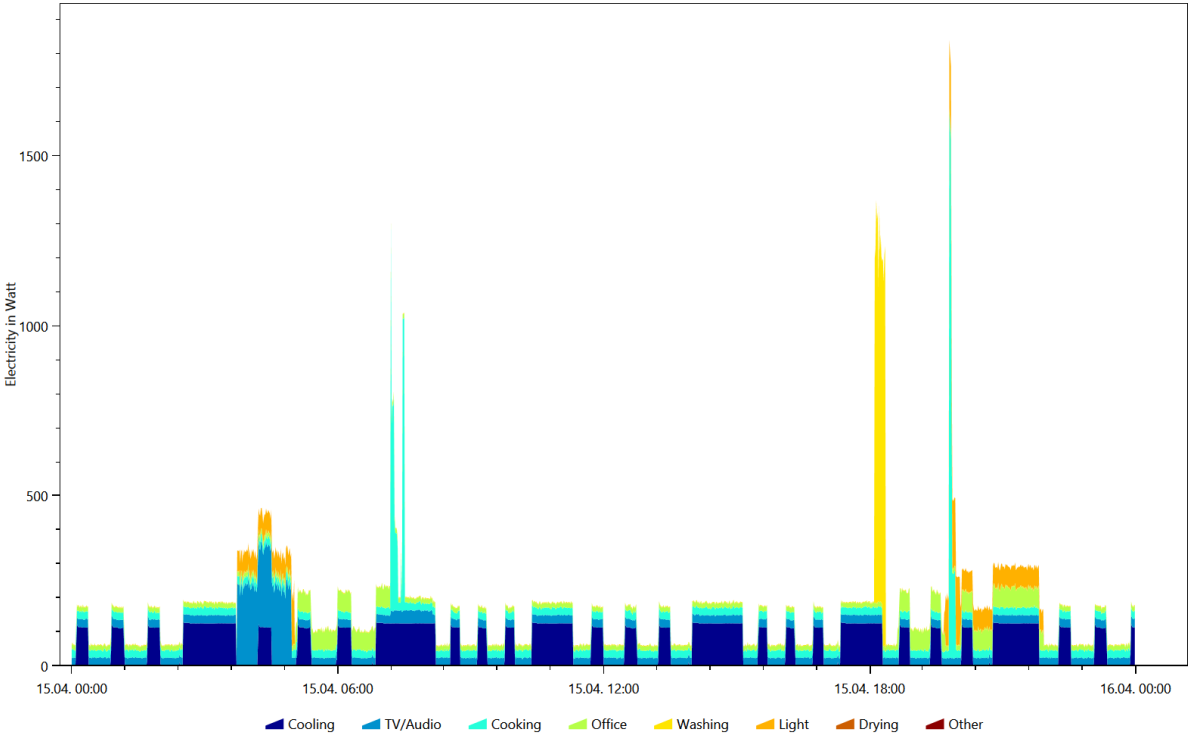
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.12.1



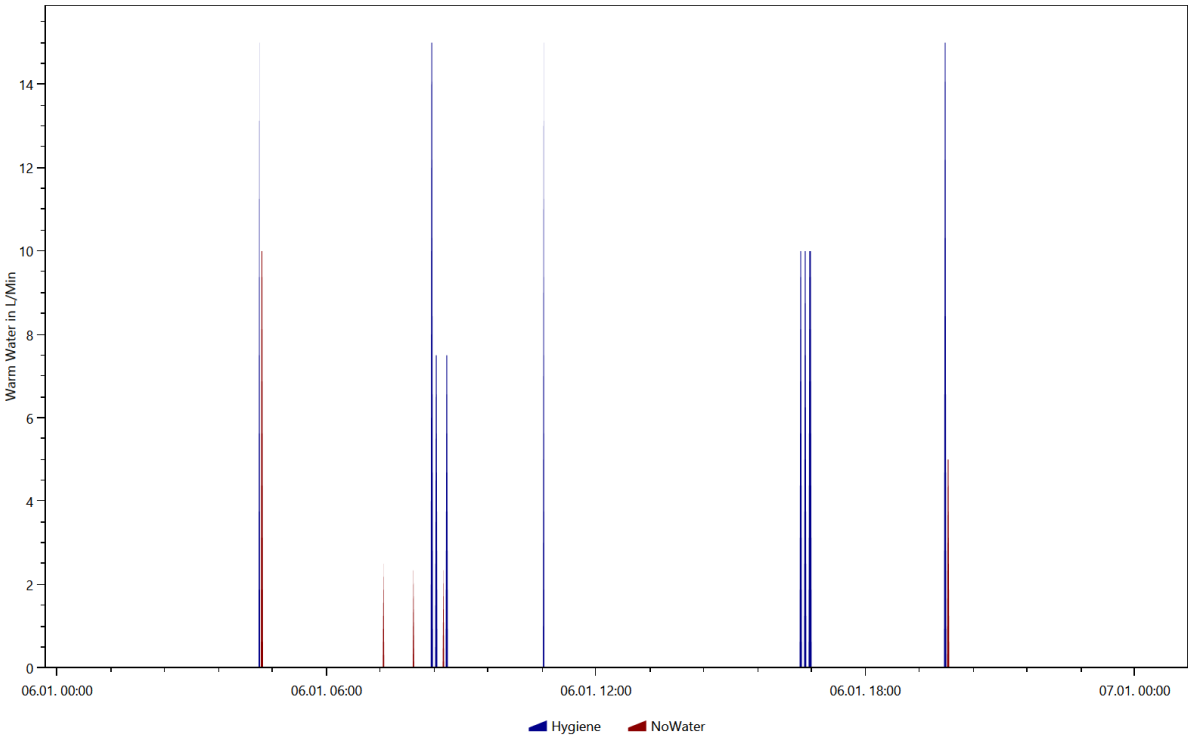
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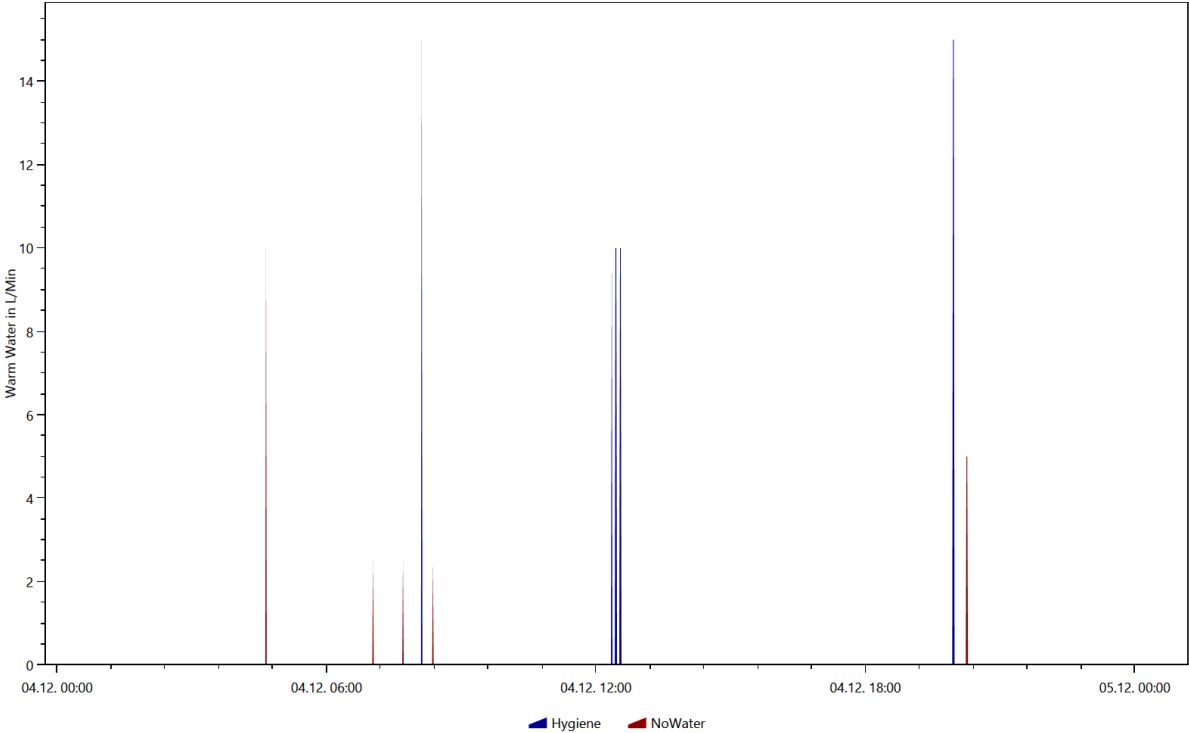
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.15



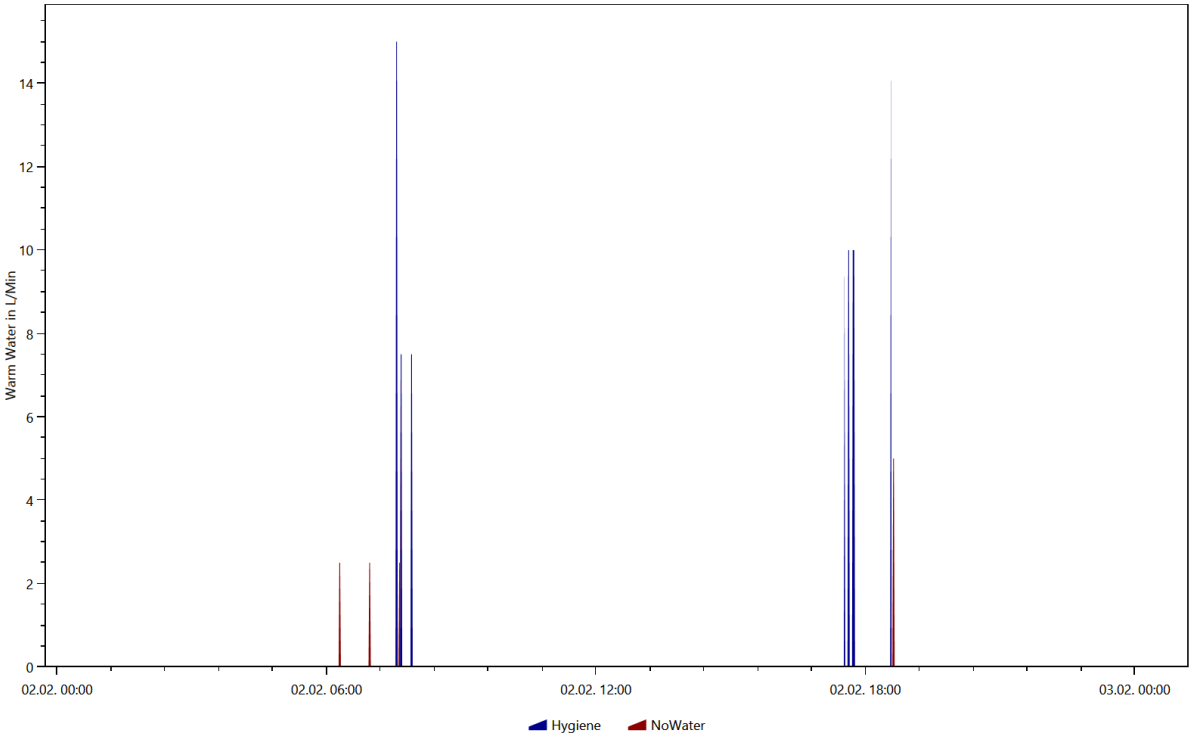
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.6



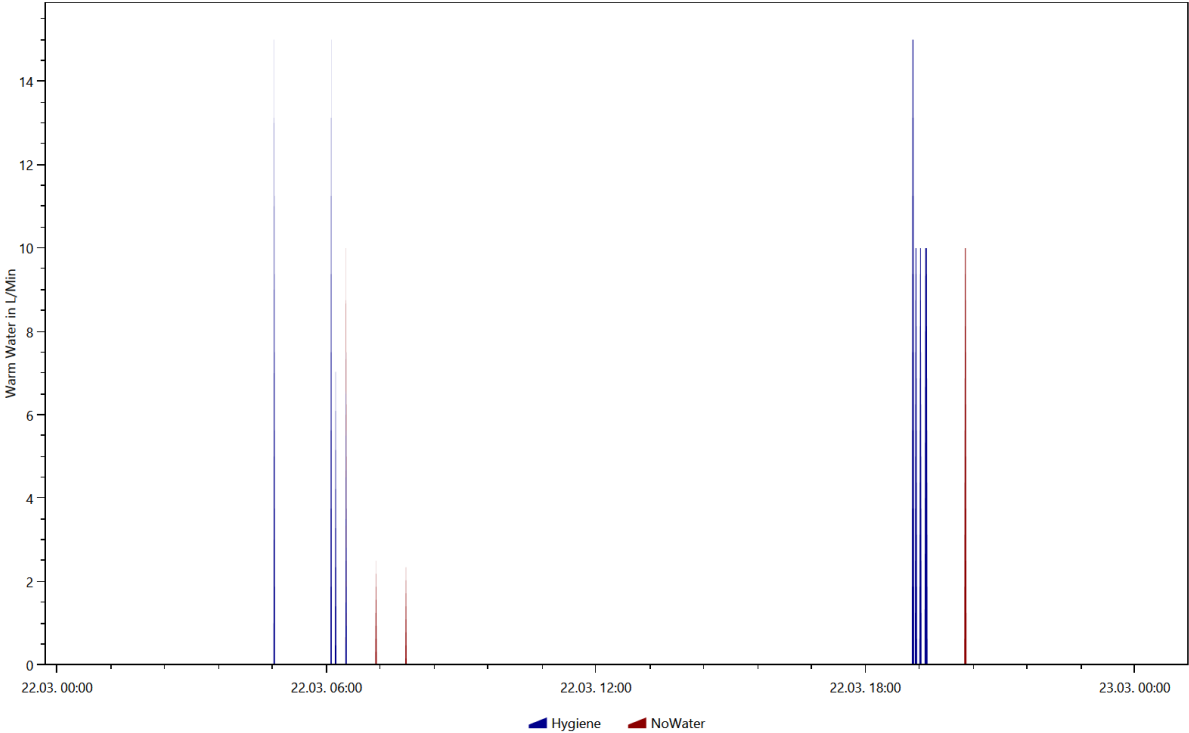
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.4



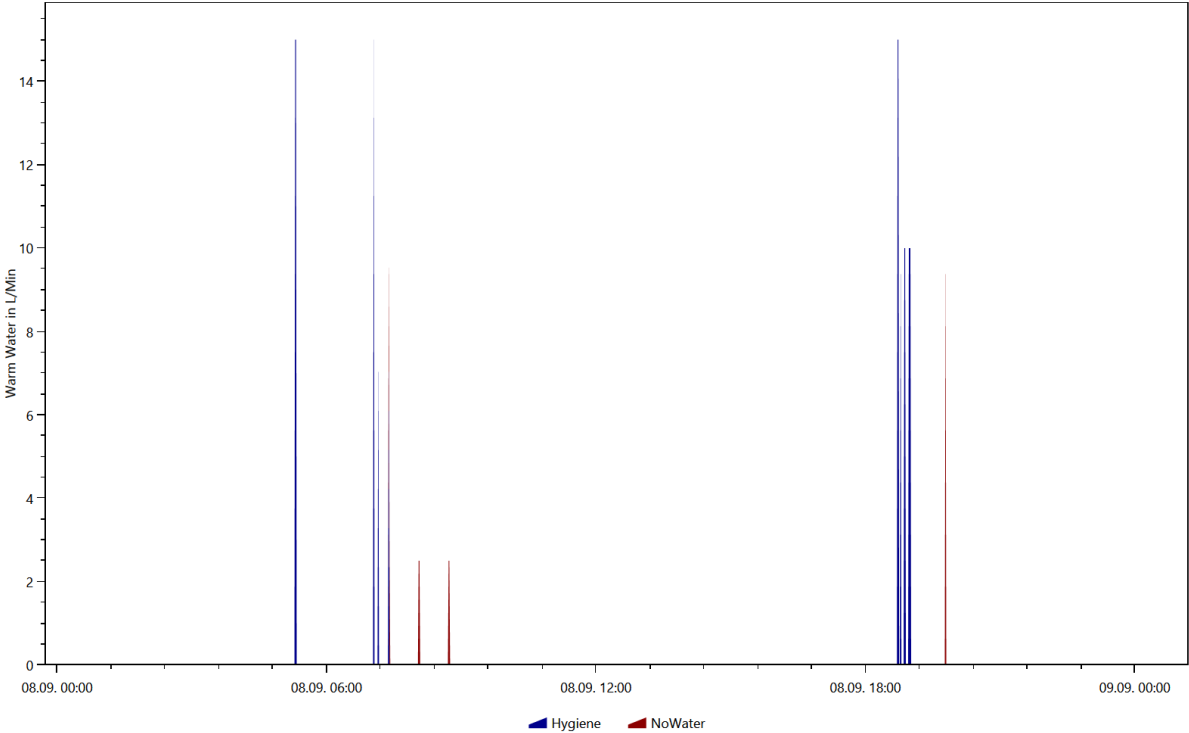
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.2



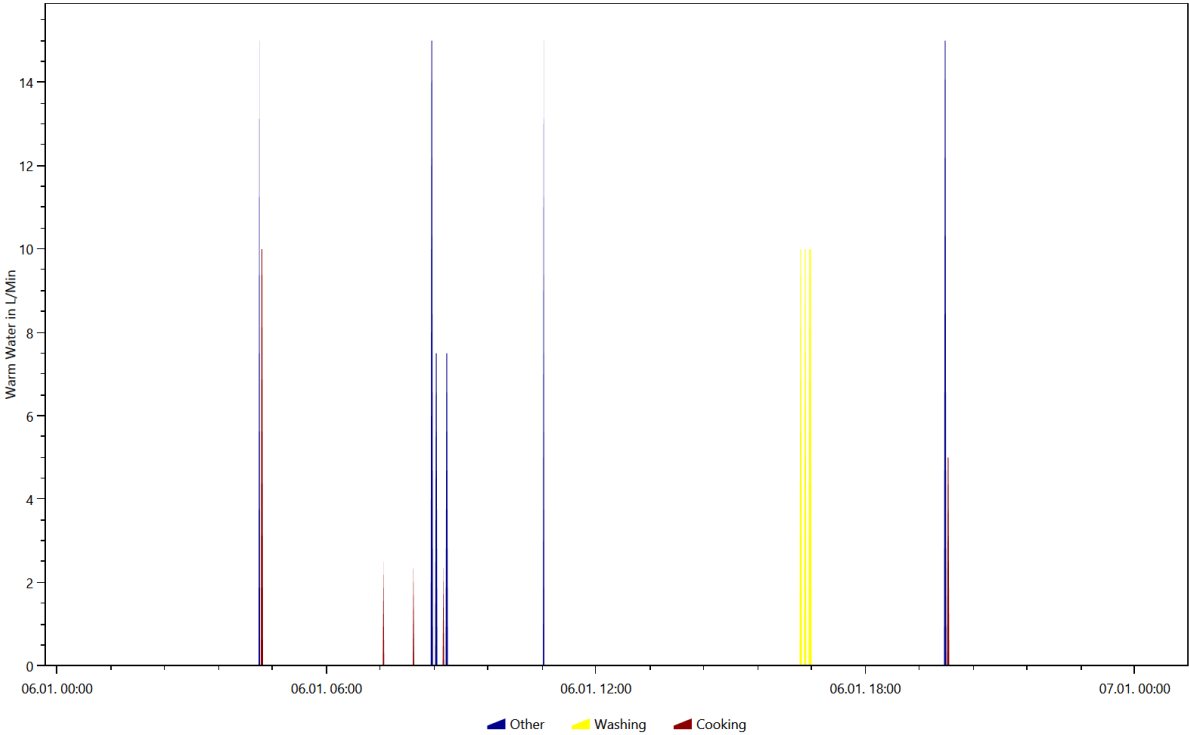
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.22



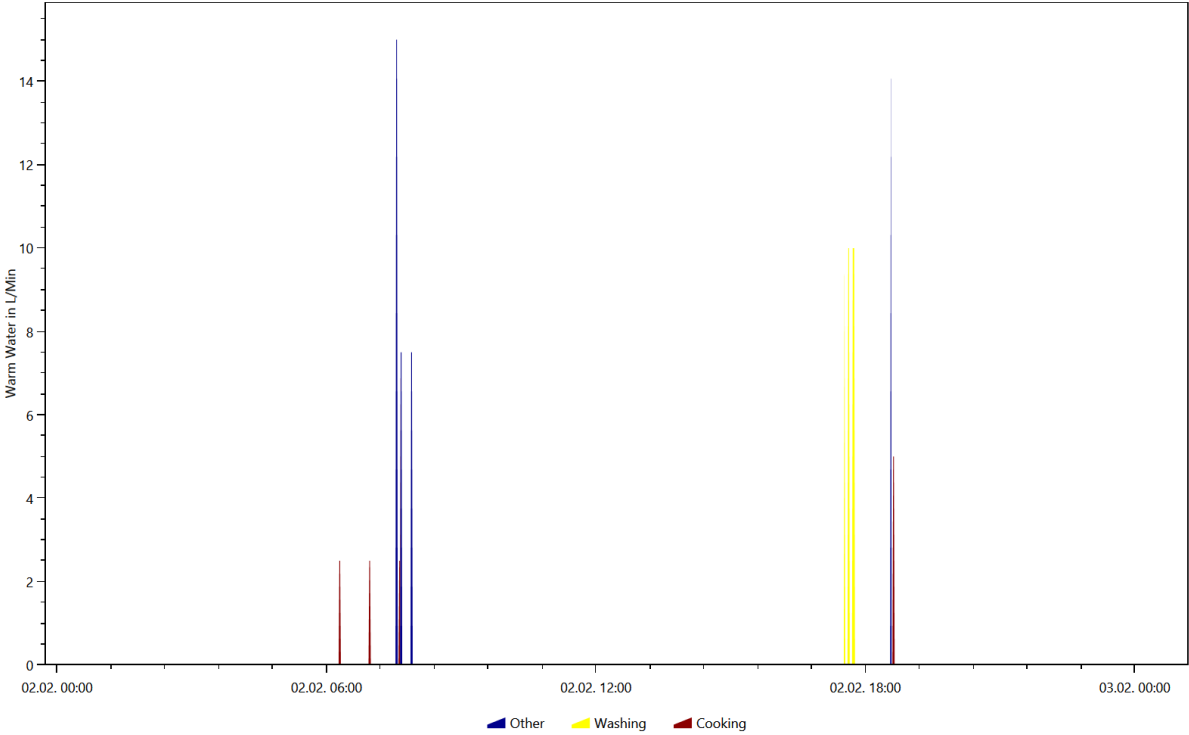
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.8



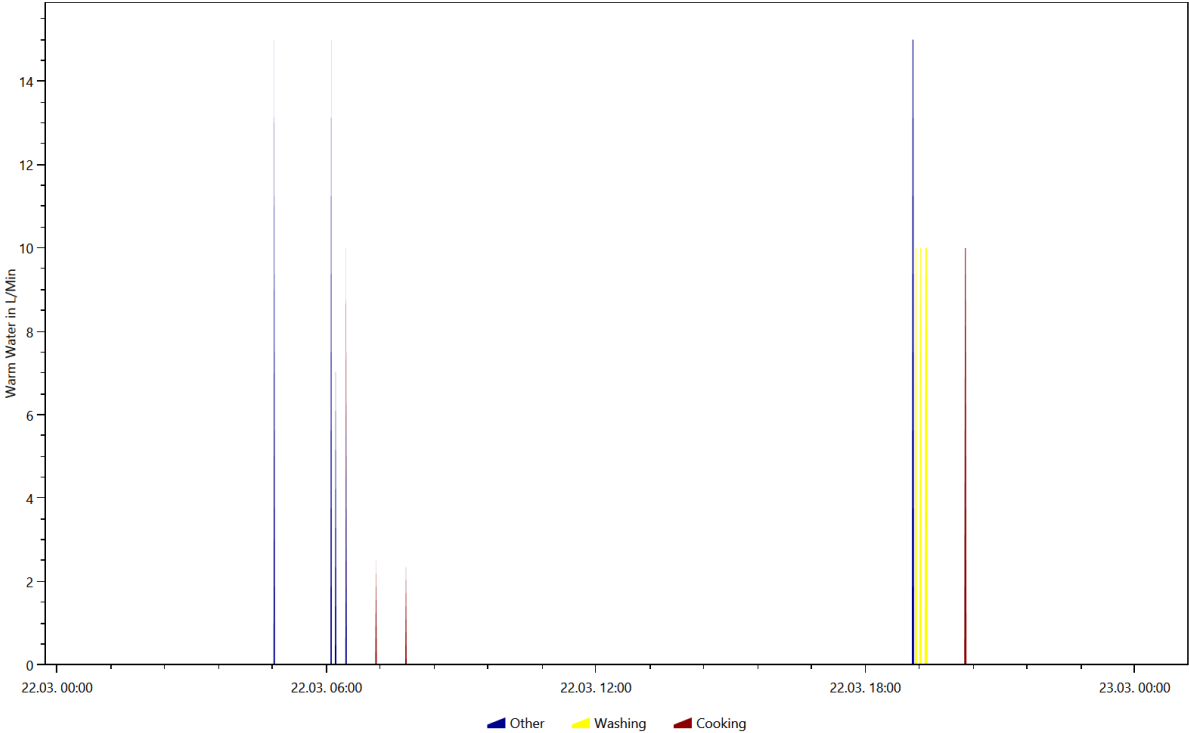
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.6



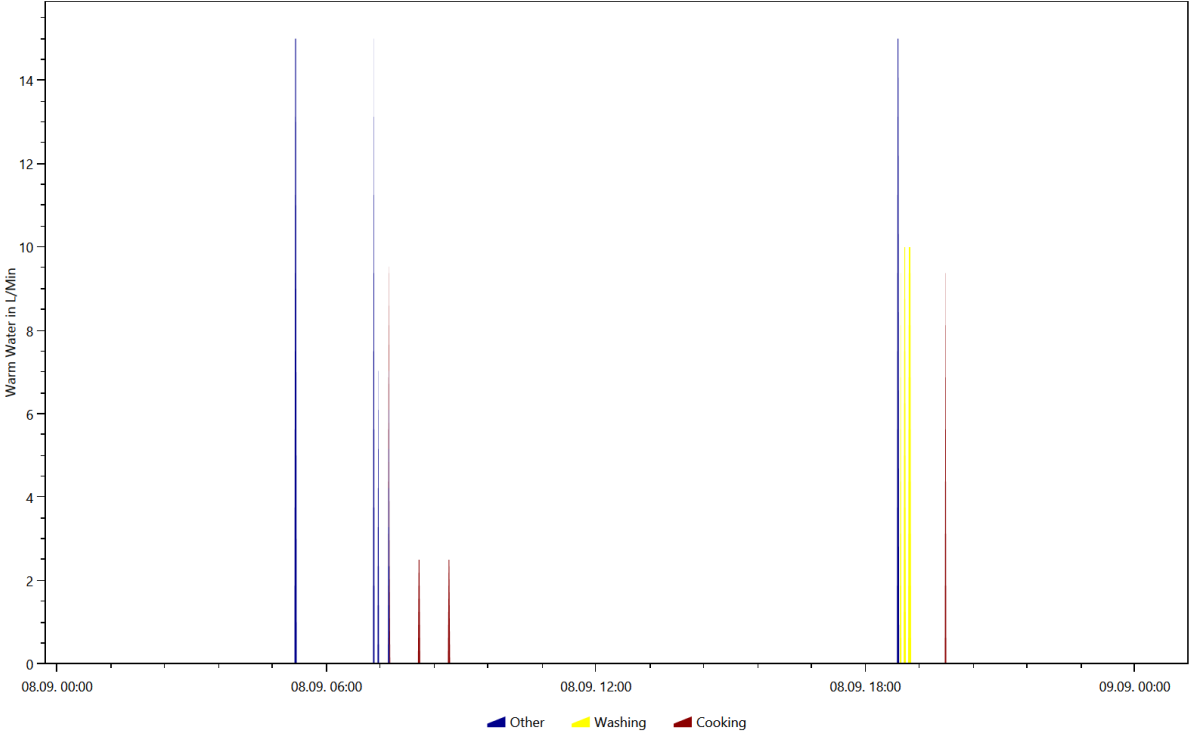
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.2



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.22



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.8

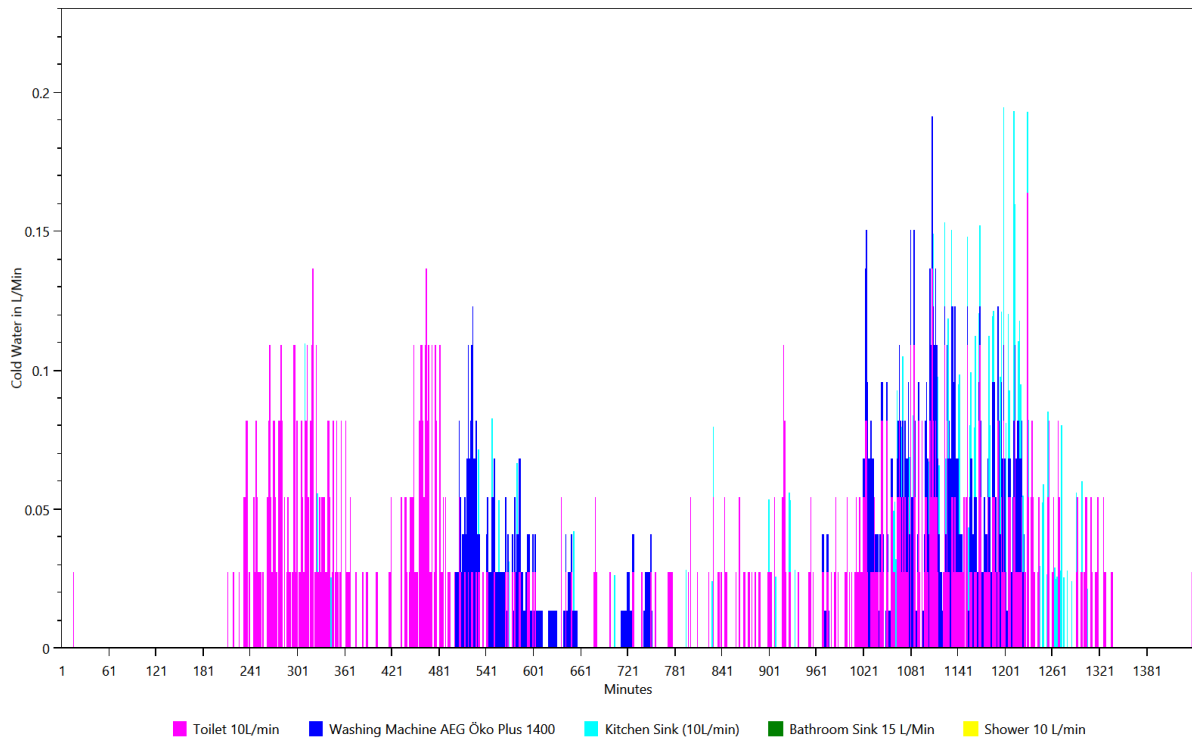


Overview of the time and power of the use per load type per device

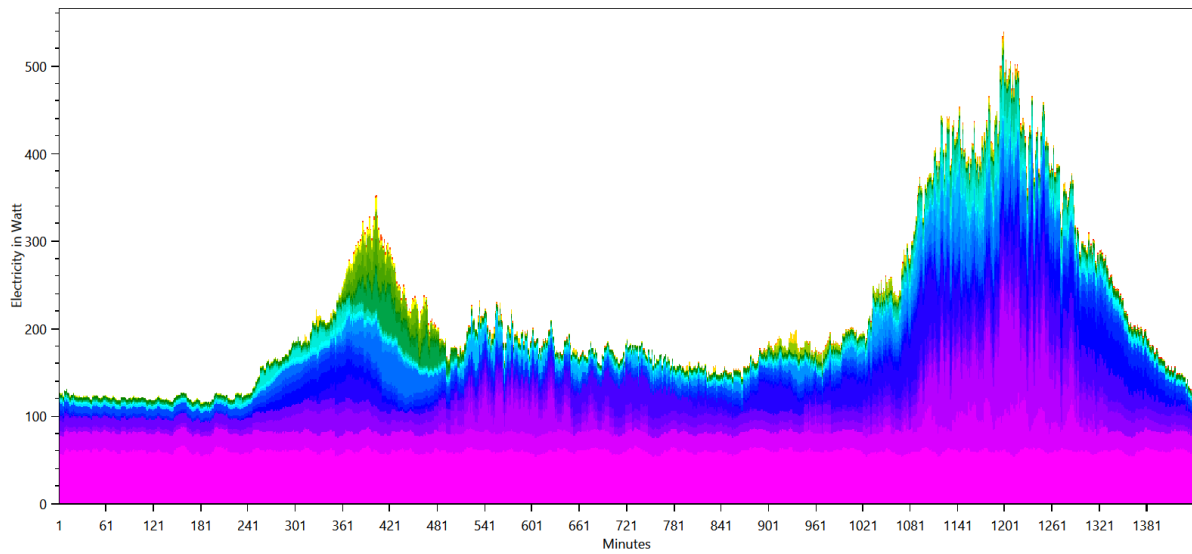
This is made from the files starting with: **TimeOfUseEnergyProfiles**

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

Cold Water

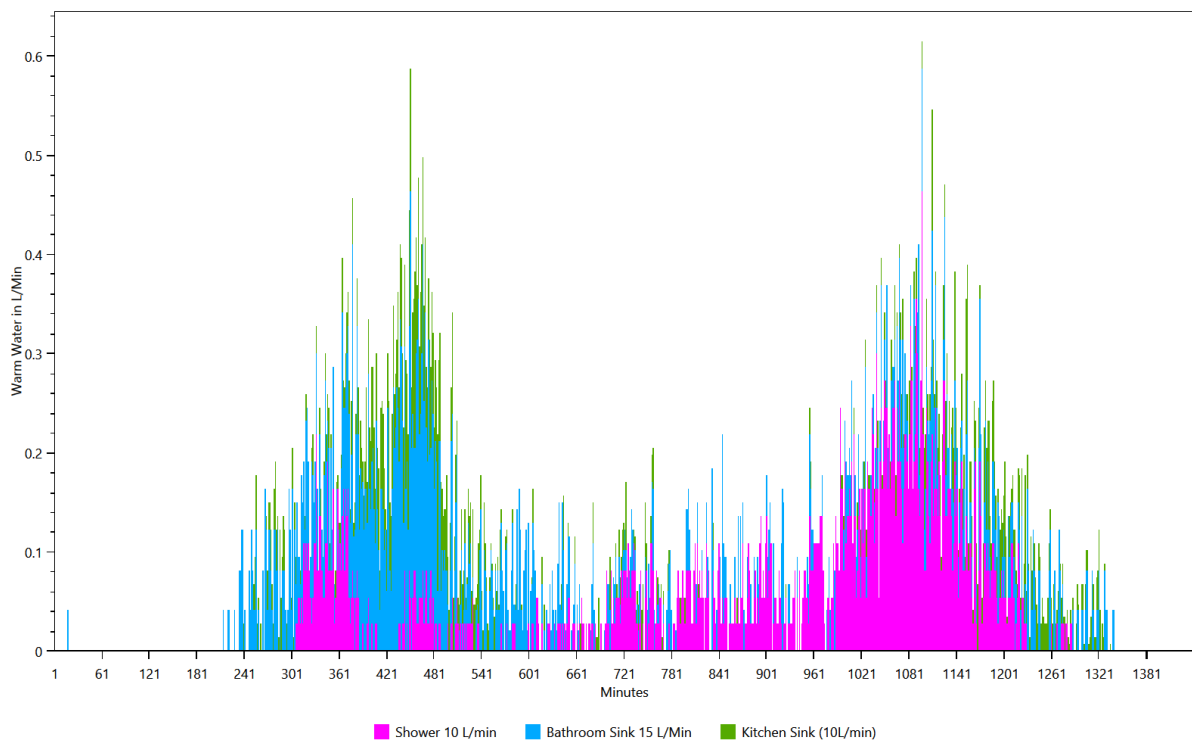


Electricity



- Siemens Fridge from 1987 (unknown type)
- Microwave / Panasonic NN-V 359 W Inverter
- Oven / AEG B 33512-5-M
- Laptop / Dell Inspiron
- Yamaha RX-V667
- Dryer / Miele T 8626 WP
- Heater / Honeywell BH-888E
- Living Room Light (60W)
- Phillips 32-9615
- Router / AVM FRITZ! Box Fon WLAN 7390
- Kitchen Light (200W)
- Hair Dryer Braun Silencio 1250
- Washing Machine AEG Öko Plus 1400
- Hifi System / Sharp XL-HF300PH
- Home Cinema System / Samsung HT-D5550
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove left hind - full power
- Bathroom Light (100W)
- Single Stove Plate
- Electric Tooth Brush / Philips HX9332
- Toaster Salco MT 400
- Kitchen radio / AEG KRC 4323 CD
- SAT Receiver / Kathrein UFS913
- CD/DVD Player / Philips DVDR 725 H
- Juicer / Moulinex Vitafruit
- Egg Cooker / Russell Hobbs 14048-56 Stylo
- Vacuum Cleaner FIF
- Bathroom Mirror Light 30W (CFL)
- Phone / Gigaset E310
- Nespresso Coffee Machine, Single Cup
- Electric Kettle / Petra WK288 1.5L
- Extractor Hood / Miele DA 429-4
- Fancy Ceiling Lights with at least 3 Bulbs
- Handmixer / Phillips Robust HR 1581
- Food Slicer / DOMO Schneidemaschine DO521S
- Bedroom Light (20W)

Warm Water



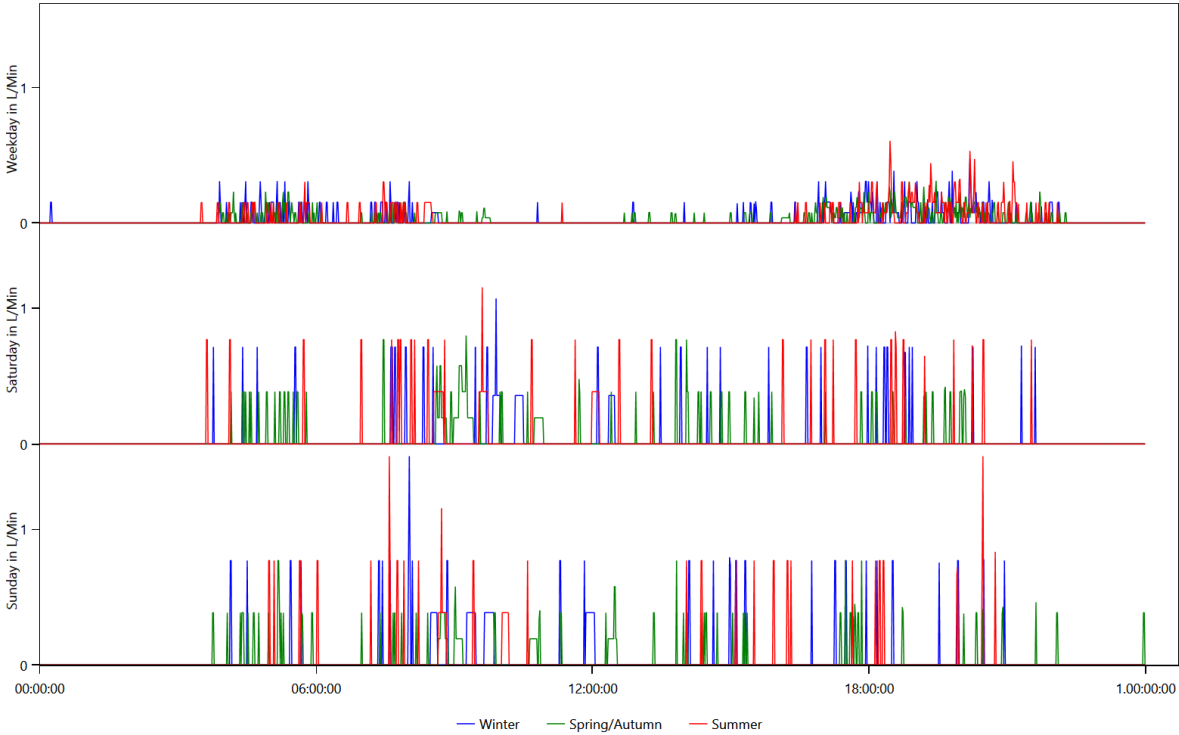
- Shower 10 L/min
- Bathroom Sink 15 L/Min
- Kitchen Sink (10L/min)

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

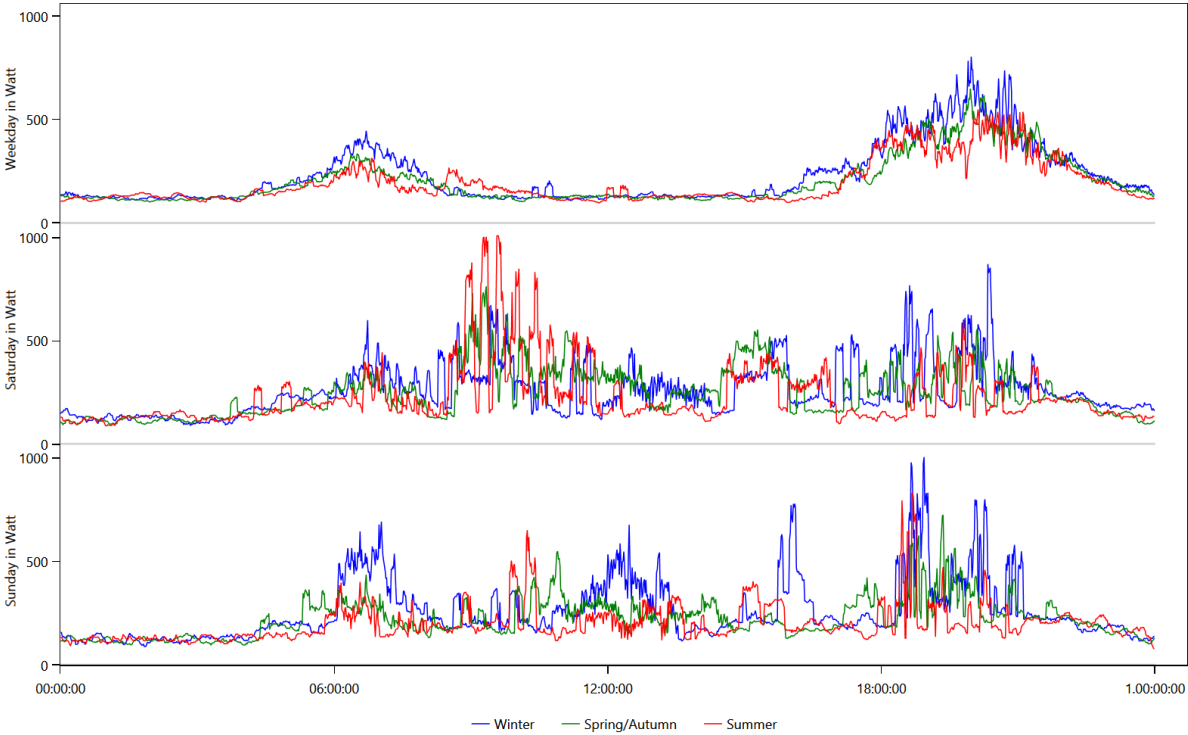
This is made from the files starting with: WeekdayProfiles

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

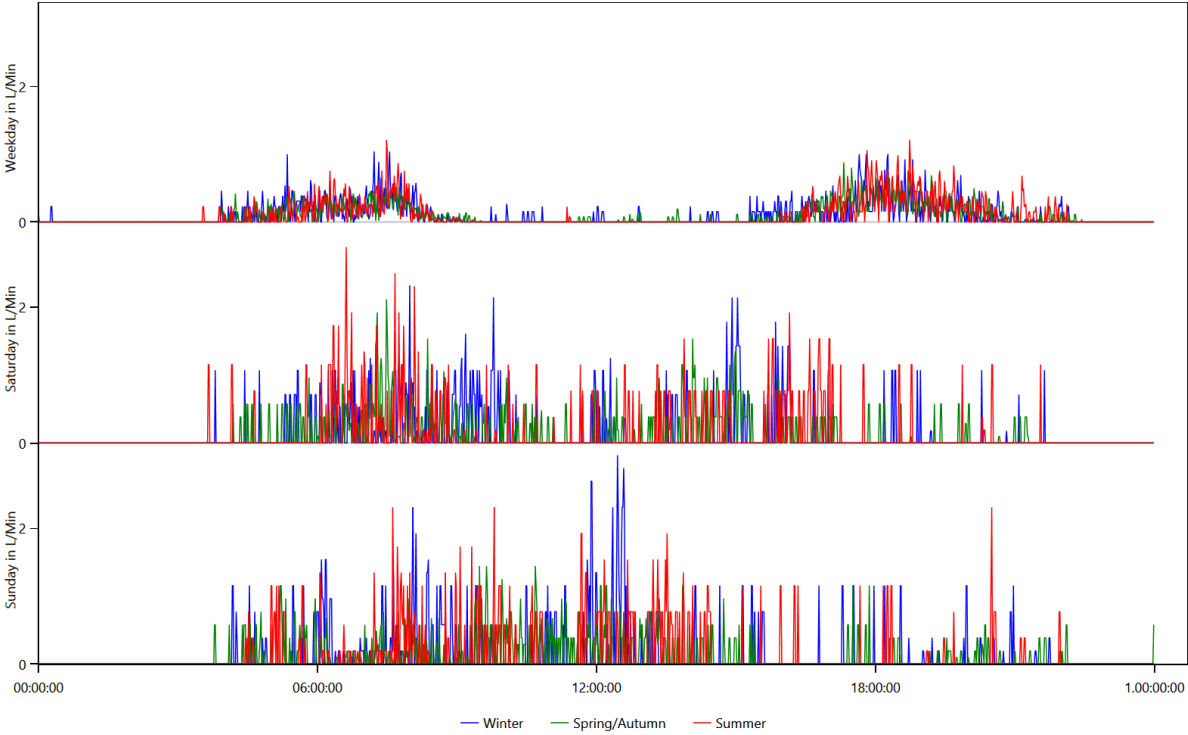
Cold Water



Electricity



Warm Water

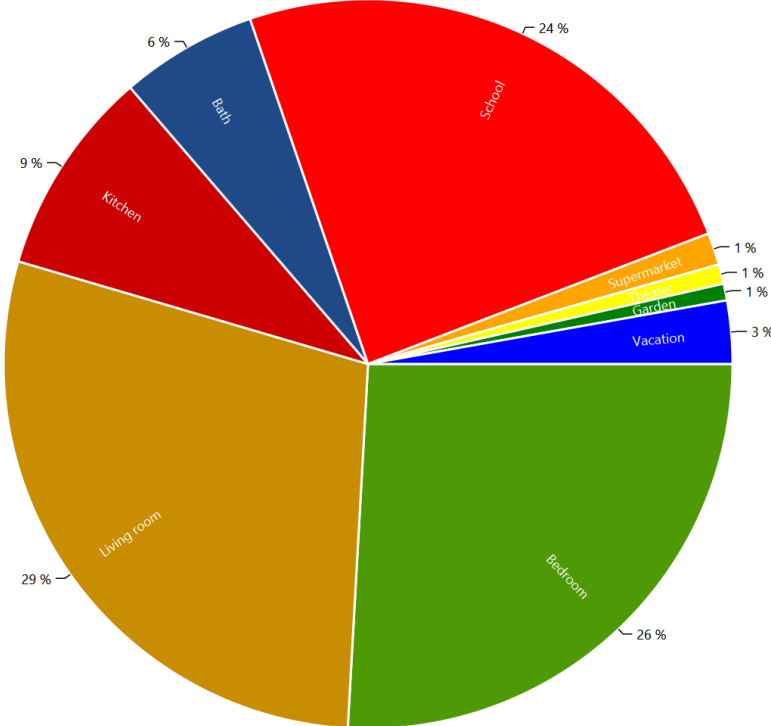


Location Distribution per Person

This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

CHR35 Heike (42 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

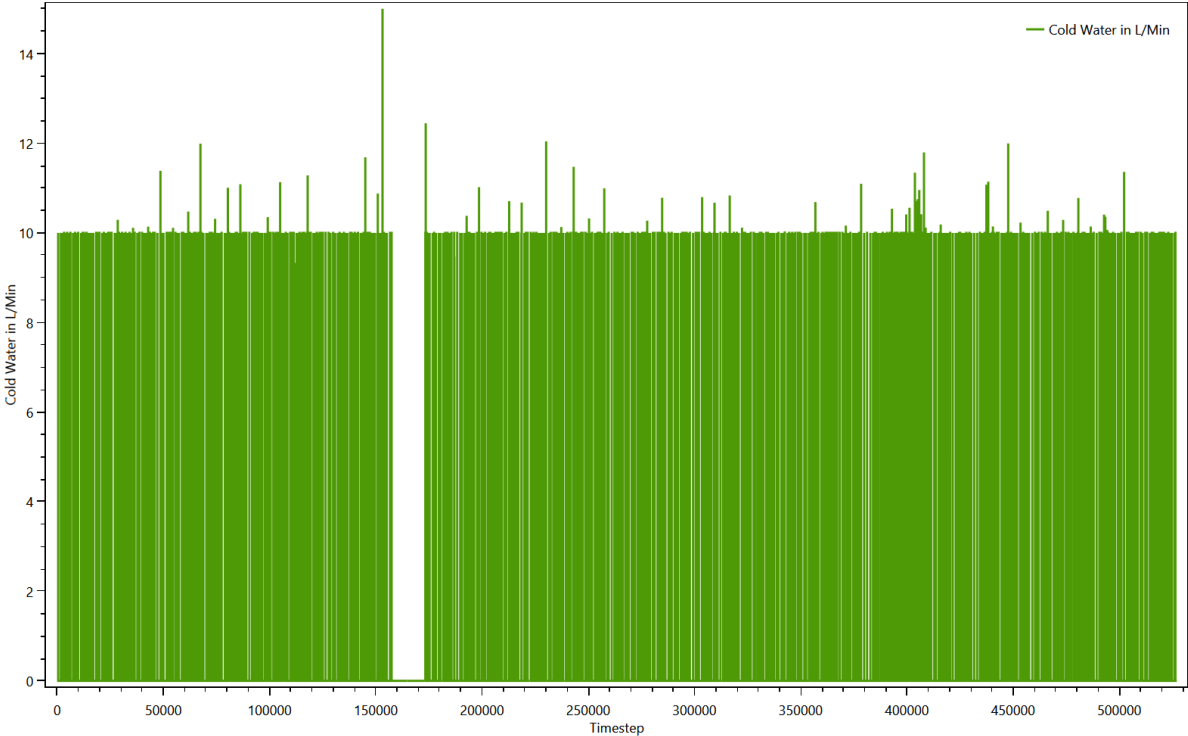
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR35 Heike (42/Female);sleep bed 01 (06 h);sleep;False;
305;01.01.2016 05:05;CHR35 Heike (42/Female);use the laptop (1 h);Active Entertainment (Computer, Internet etc);False;
362;01.01.2016 06:02;CHR35 Heike (42/Female);eat breakfast (1 h);cooking;False;
433;01.01.2016 07:13;CHR35 Heike (42/Female);get ready in the morning (women);hygiene;False;
451;01.01.2016 07:31;CHR35 Heike (42/Female);paint a picture ;Offline Entertainment;False;
481;01.01.2016 08:01;CHR35 Heike (42/Female);go to the toilet;hygiene;False;
486;01.01.2016 08:06;CHR35 Heike (42/Female);wash 1 dishes by hand;cleaning;False;
521;01.01.2016 08:41;CHR35 Heike (42/Female);work as teacher ;work;False;
1056;01.01.2016 17:36;CHR35 Heike (42/Female);take a shower with hair washing (women) (20 min hair drying);hygiene;False;
1113;01.01.2016 18:33;CHR35 Heike (42/Female);go shopping for food in the supermarket (1.5 h);shopping;False;
1199;01.01.2016 19:59;CHR35 Heike (42/Female);heat up leftovers;cooking;False;
1221;01.01.2016 20:21;CHR35 Heike (42/Female);use the laptop for Internet, Movie, Music, News (2 h);Active Entertainment (Computer, Internet etc);False;
1336;01.01.2016 22:16;CHR35 Heike (42/Female);sleep bed 01 (06 h);sleep;False;
1704;02.01.2016 04:24;CHR35 Heike (42/Female);go to the toilet;hygiene;False;
1709;02.01.2016 04:29;CHR35 Heike (42/Female);watch a movie for 2 h with home cinema system;Passive Entertainment (TV etc.);False;
1844;02.01.2016 06:44;CHR35 Heike (42/Female);eat breakfast (1 h);cooking;False;
1897;02.01.2016 07:37;CHR35 Heike (42/Female);wash 1 dishes by hand;cleaning;False;
1925;02.01.2016 08:05;CHR35 Heike (42/Female);use the laptop (1 h);Active Entertainment (Computer, Internet etc);False;
1990;02.01.2016 09:10;CHR35 Heike (42/Female);get ready in the morning (women);hygiene;False;

Sum Profiles

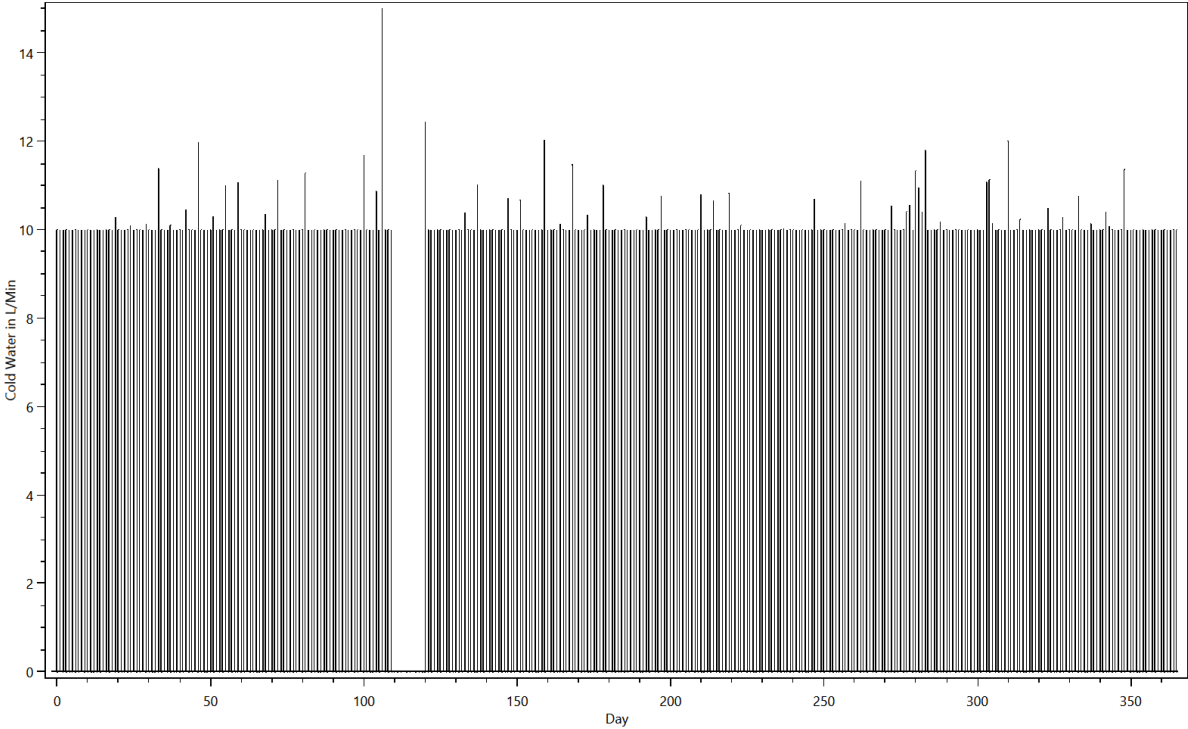
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

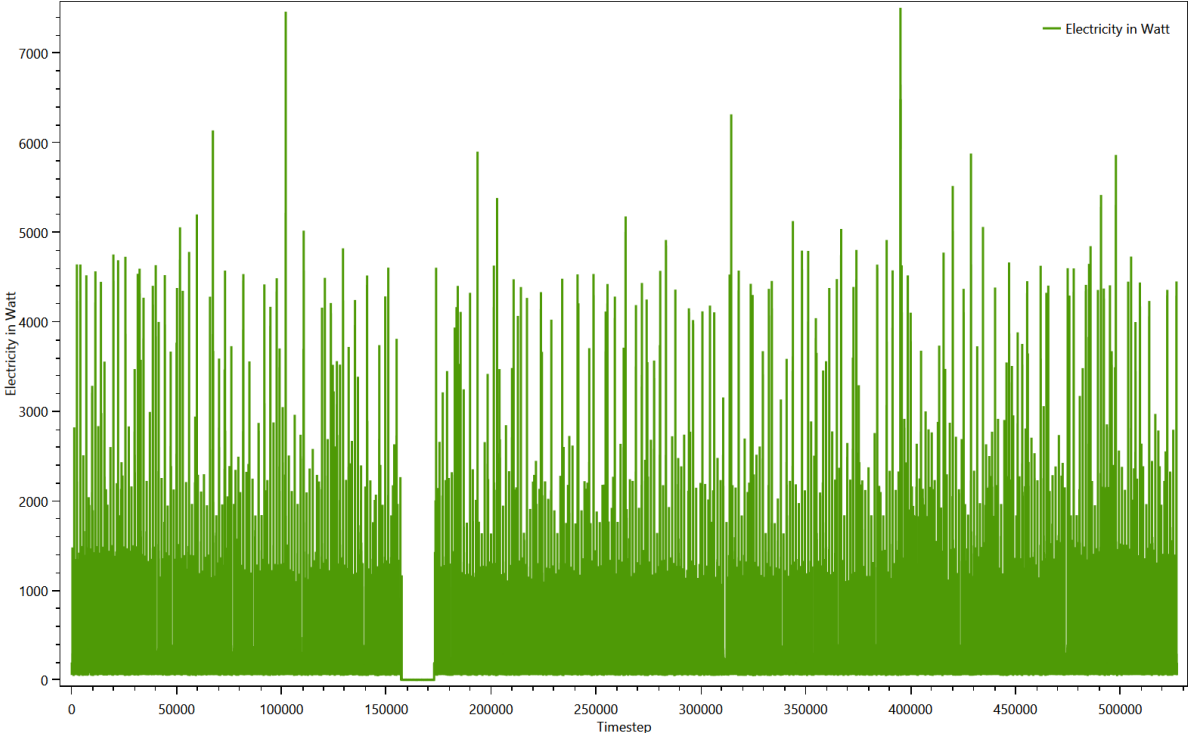
Summed up curve for Cold Water from SumProfiles.Cold Water.png



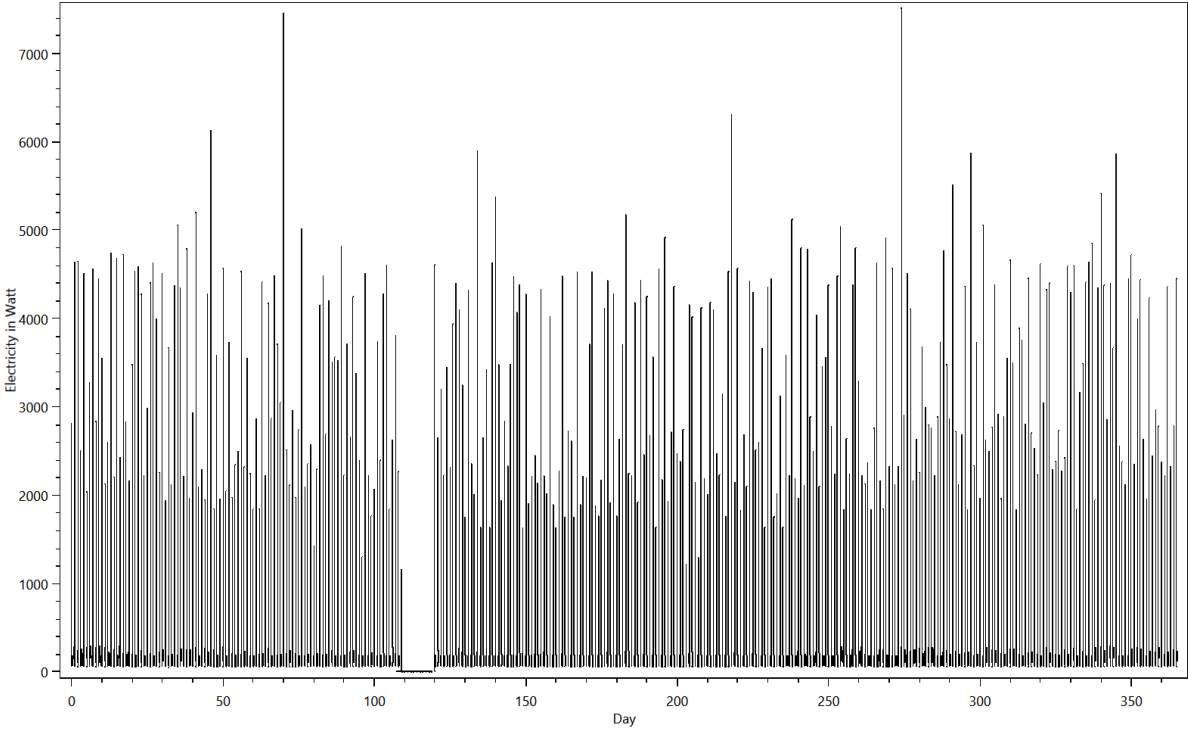
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



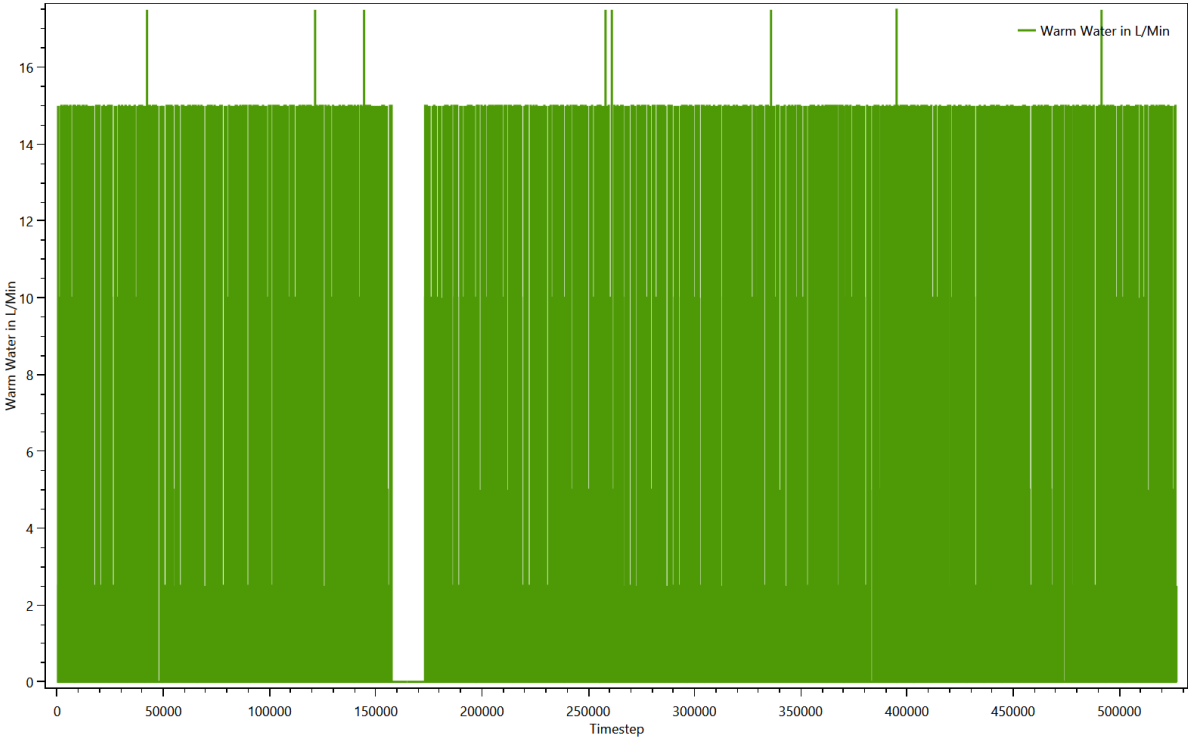
Summed up curve for Electricity from SumProfiles.Electricity.png



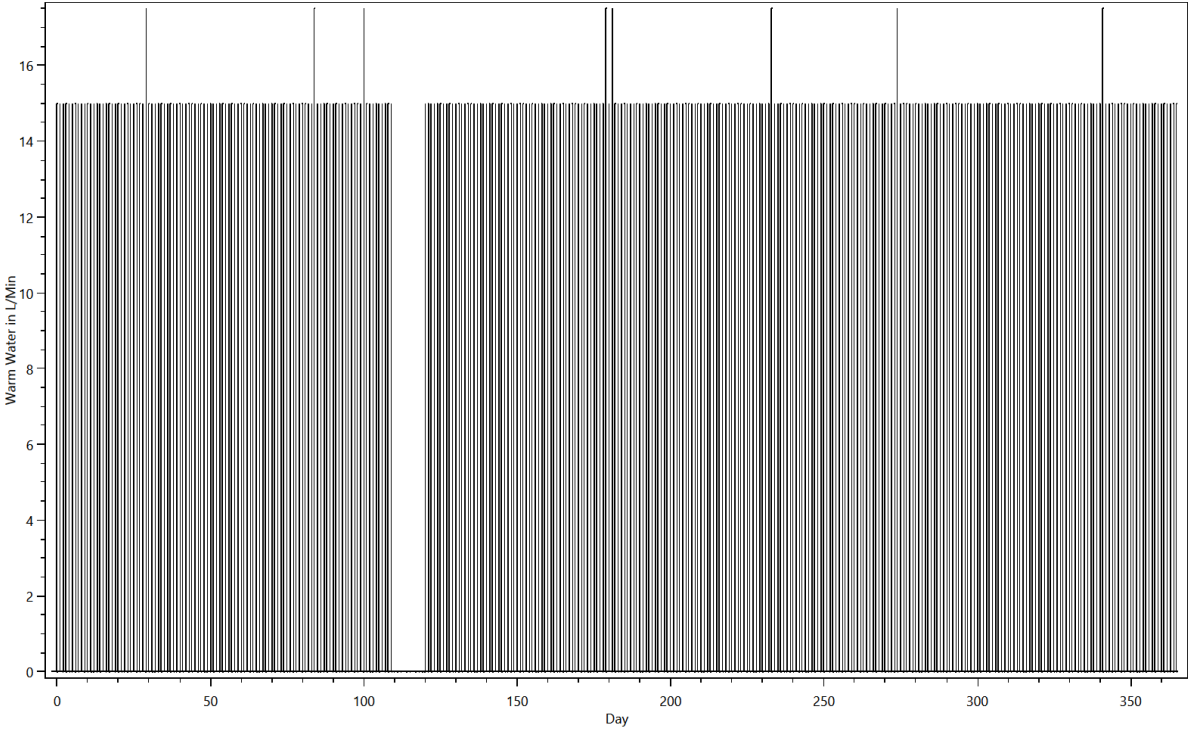
Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR35 Single woman, 30 - 64 years, with work 0.txt

Device;Load Type;Profile;Number of Activations

Bathroom Light (100W);Electricity;Bath - light [Synthetic for Light Device];523

Bathroom Mirror Light 30W (CFL);Electricity;Bath - light [Synthetic for Light Device];523

Bathroom Sink 15 L/Min;Warm Water;0 h 01 min 100% [Synthetic];817

Bathroom Sink 15 L/Min;Warm Water;0 h 01 min 50% [Synthetic];418

Bed 1;None;06 h 0 min 100% [Synthetic];357

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

CD/DVD Player / Philips DVDR 725 H;Electricity;01 h 30 min 100% [Synthetic];92

CD/DVD Player / Philips DVDR 725 H;Electricity;02 h 0 min 100% [Synthetic];6

CD/DVD Player / Philips DVDR 725 H;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8518

Cleanser;None;01 h 0 min 100% [Synthetic];49

Cloth Drying Rack;None;0 h 20 min 100% [Synthetic];14

Couch;None;01 h 0 min 100% [Synthetic];117

Couch;None;02 h 0 min 100% [Synthetic];179

Desk 2;None;0 h 30 min 100% [Synthetic];88

Dryer / Miele T 8626 WP;Electricity;Dryer Profile 2h [Measured 1 min resolution];59

Egg Cooker / Russell Hobbs 14048-56 Stylo;Electricity;0 h 05 min 100% [Synthetic];348

Electric Kettle / Petra WK288 1.5L;Electricity;Profile for Electric Kettle Petra WK288 1.5L Electricity [Measurement by ZSW (1min)];25

Electric Tooth Brush / Phillips HX9332;Electricity;01 h 0 min 100% [Synthetic];8787

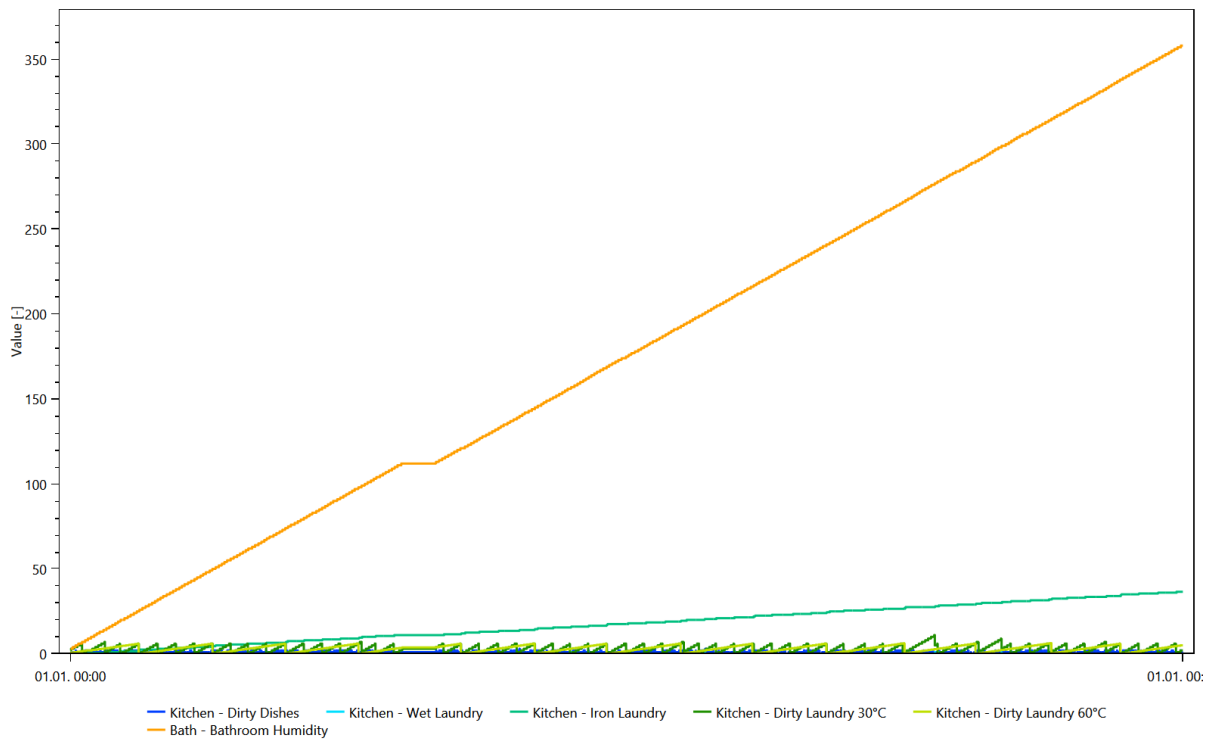
Extractor Hood / Miele DA 429-4;Electricity;Cooking profile I 15 min [Synthetic];74

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

