

Overview of the results of the household CHR09 Single woman, 30 - 64 years, with work 0

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

Energy Intensity: Random

Seed 4444

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:06:08

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Totals

Totals for each Loadtype

Load Type	Value	Unit
Cold Water	11715.51	L
Electricity	1733.92	kWh
Warm Water	30780.27	L

Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	32.01	L
Electricity	4.74	kWh
Warm Water	84.10	L

Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	10.00	L/Min
Electricity	0.30	4603.66	Watt
Warm Water	0.00	16.25	L/Min

Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	11715.51	L
Electricity	1733.92	kWh

Warm Water	30780.27	L
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Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	32.01	L
Electricity	4.74	kWh
Warm Water	84.10	L

Persons

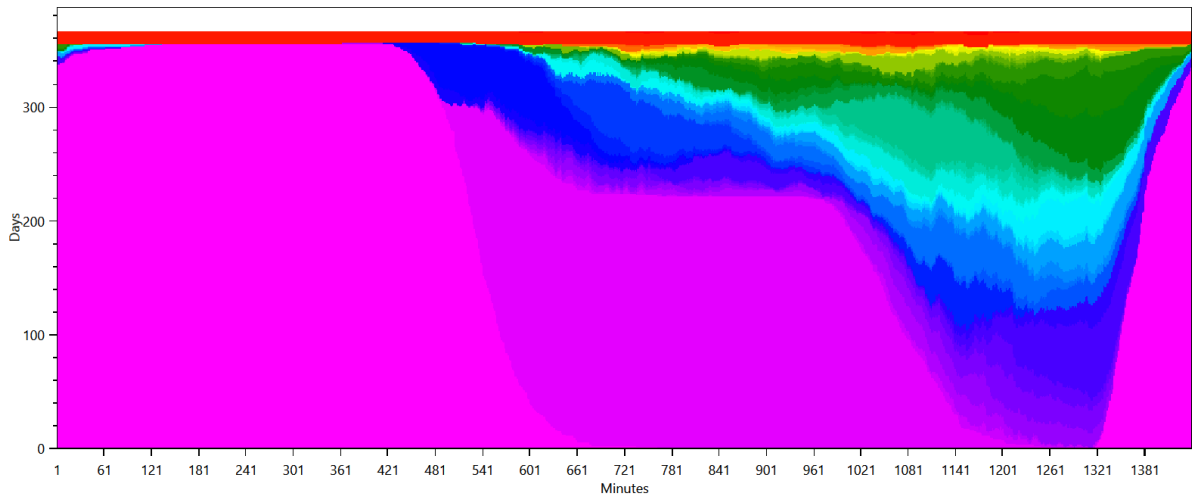
- HHO
 - CHR09 Lilly (34/Female)(34/Female)

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 - CHR09 Lilly (34 Female)



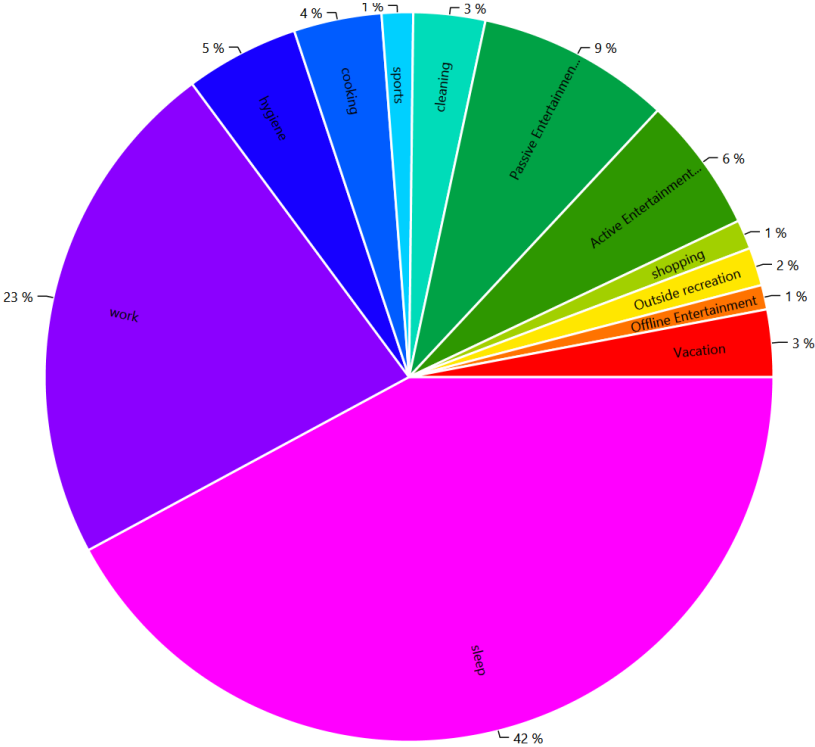
- sleep bed 01 (10 h)
- microwave frozen meal and eat it
- exercise for 30 min on the treadmill
- wash 1 dishes by hand
- watch a movie for 2 h with home cinema system
- use the computer (1 h)
- get ready in the morning (women)
- eat breakfast (1 h)
- go shopping for food in the supermarket (1.5 h)
- take a nap
- use the computer with external HD (1 h)
- take a shower without hair washing (women)
- watch TV (1 h)
- use the computer for recreation (2 h)
- fry two eggs and eat them with toast
- watch a movie for 1 h 30 min
- use the computer (1.5 h)
- wash 2 dishes by hand
- take a shower with hair washing (women) (20 min hair drying)
- cook pasta and eat it
- watch a movie for 2 h
- go to a dancing class
- do laundry at 30°C (by variable)
- run the dryer with wet laundry, only below 15°C (by variable)
- listen to music on compact hifi (2 h)
- clean the bath
- watch a movie for 1 h 30 min with home cinema system
- use the computer (2 h)
- watch sports on TV with SAT Reciever (2 h)
- watch the news
- heat up leftovers
- wash 3 dishes by hand
- change decorations
- do laundry at 60°C (by variable)
- vacuum the household
- make frozen pizza and eat it
- make soup
- make and drink tea (15 min)
- read a newspaper for 30min
- read a magazine
- read a book on the couch only 9:00 to 22:00
- read a book on the couch all the time
- eat brunch
- wash 4 dishes by hand
- take nap on the weekend (2 h)
- taking a vacation
- hang up laundry outside only above 15°C (by variable)

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 - CHR09 Lilly (34 Female)

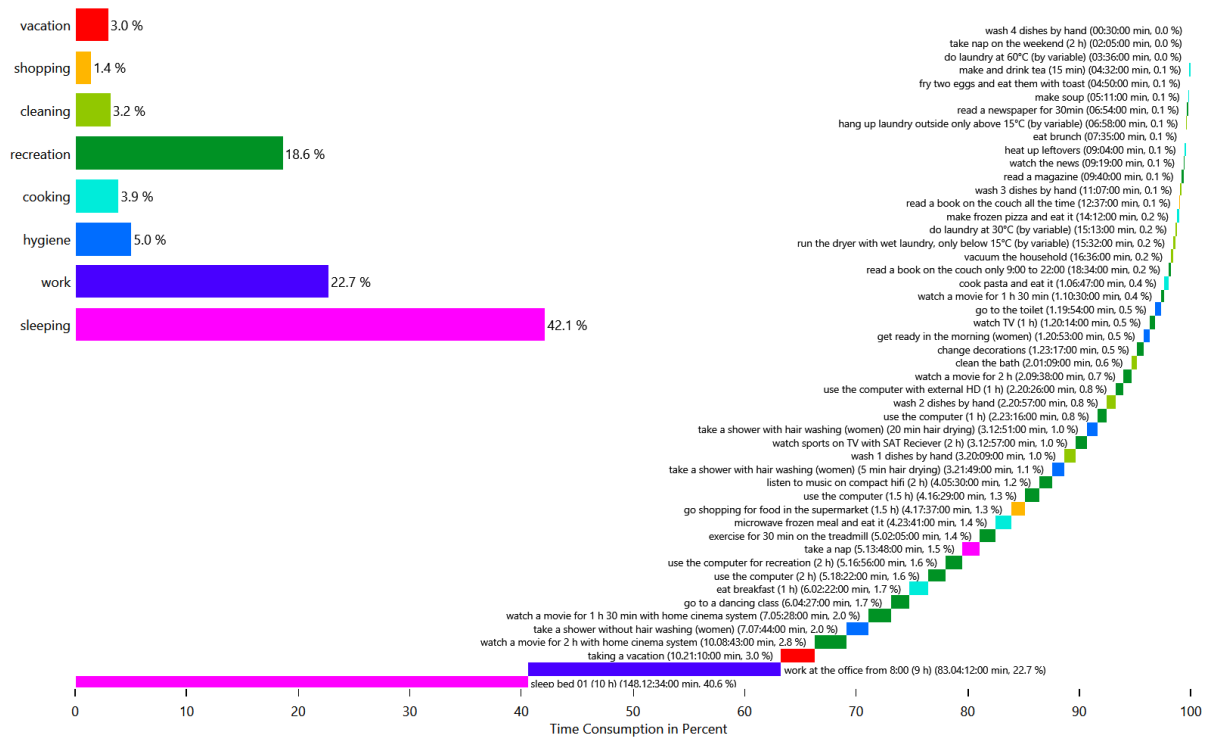


Time Use per Person per Affordance Per Person

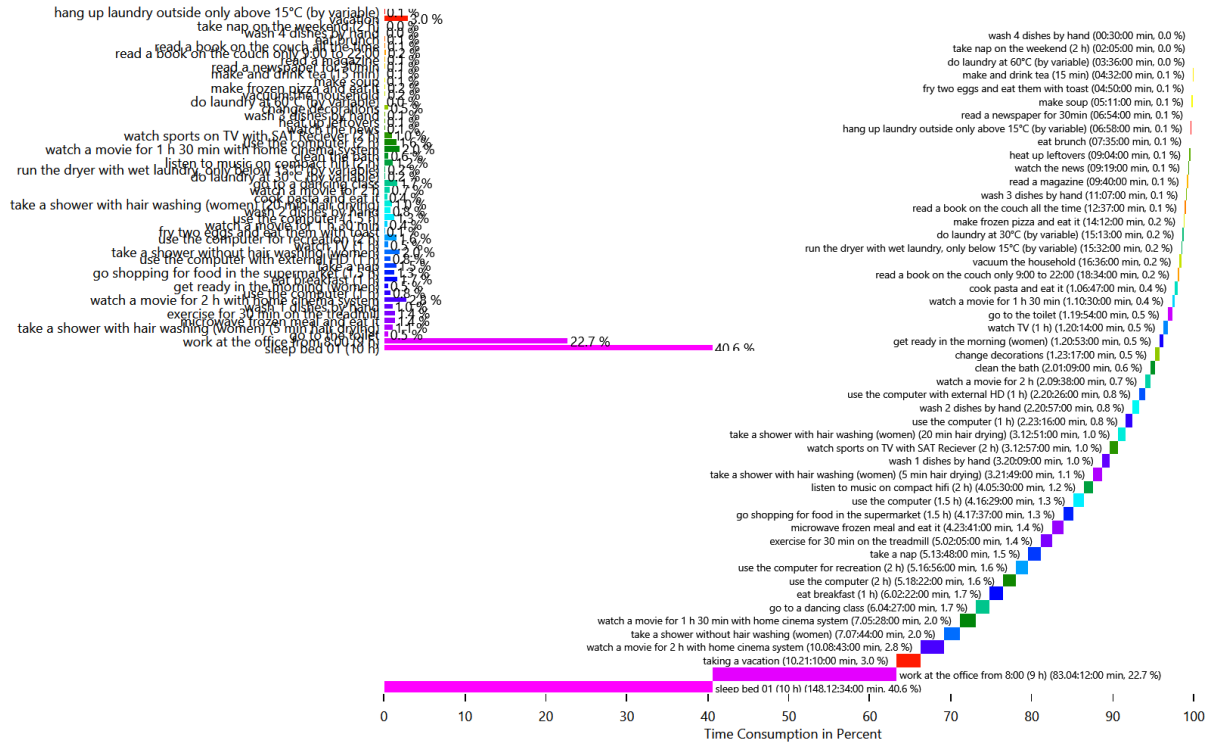
This is made from the files starting with: AffordanceTimeUse

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.

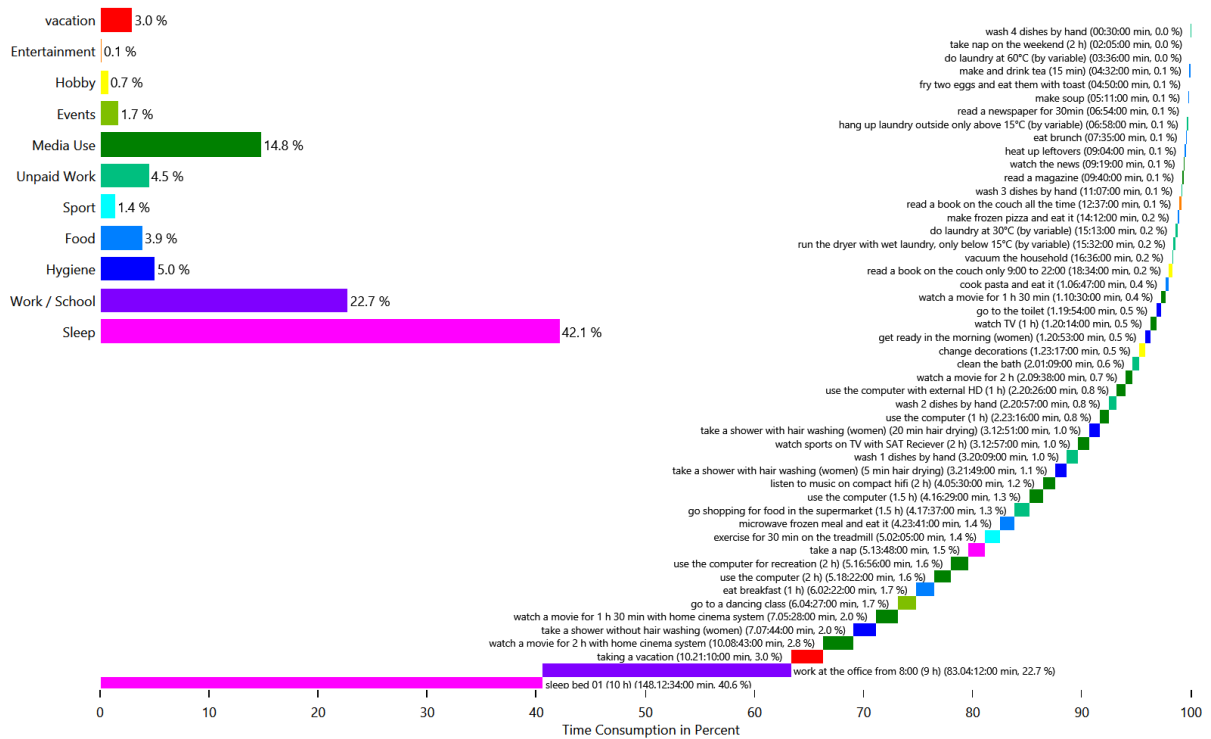
HH0 - CHR09 Lilly (34 Female)



HH0 - CHR09 Lilly (34 Female)



HH0 - CHR09 Lilly (34 Female)

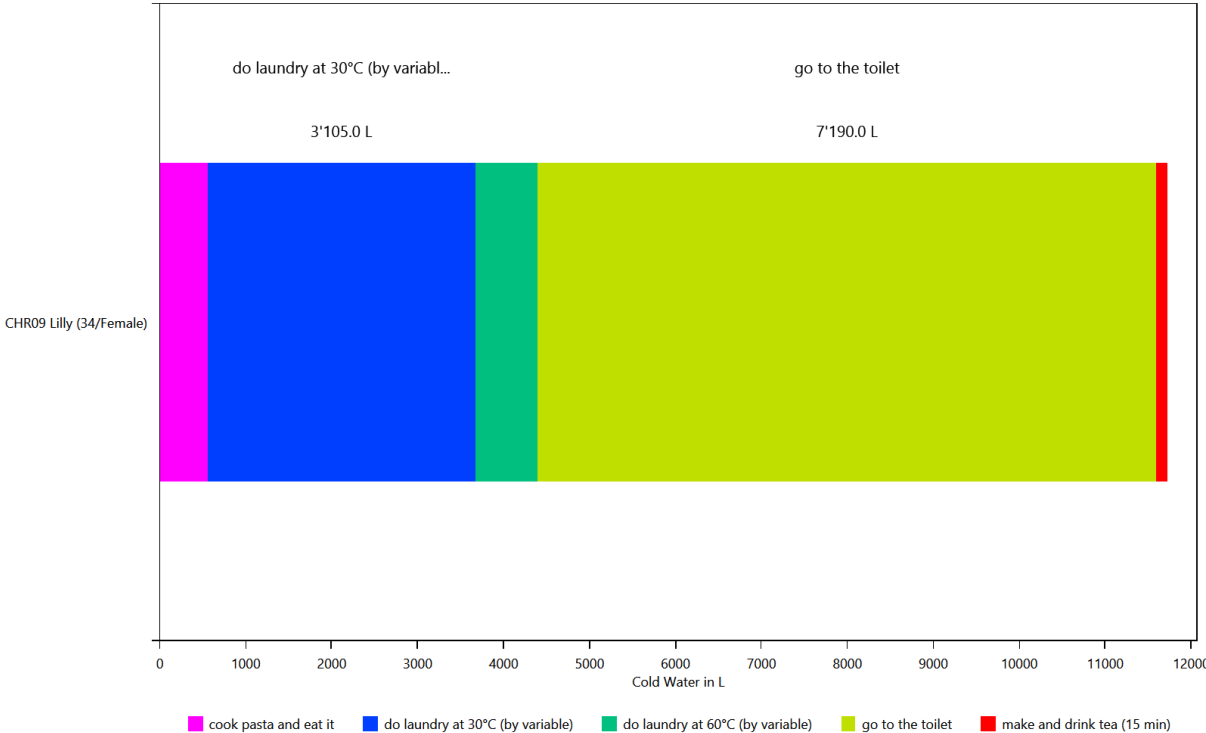


Energy use per person per affordance

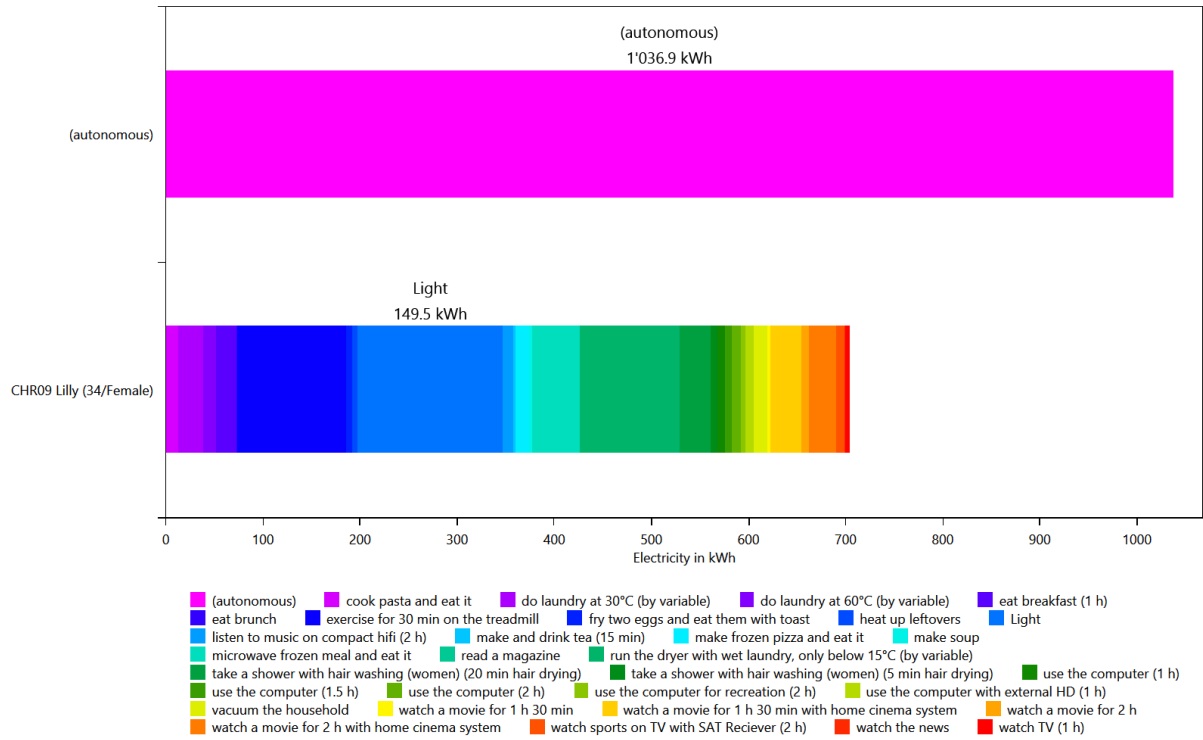
This is made from the files starting with: AffordanceEnergyUsePerPerson

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.

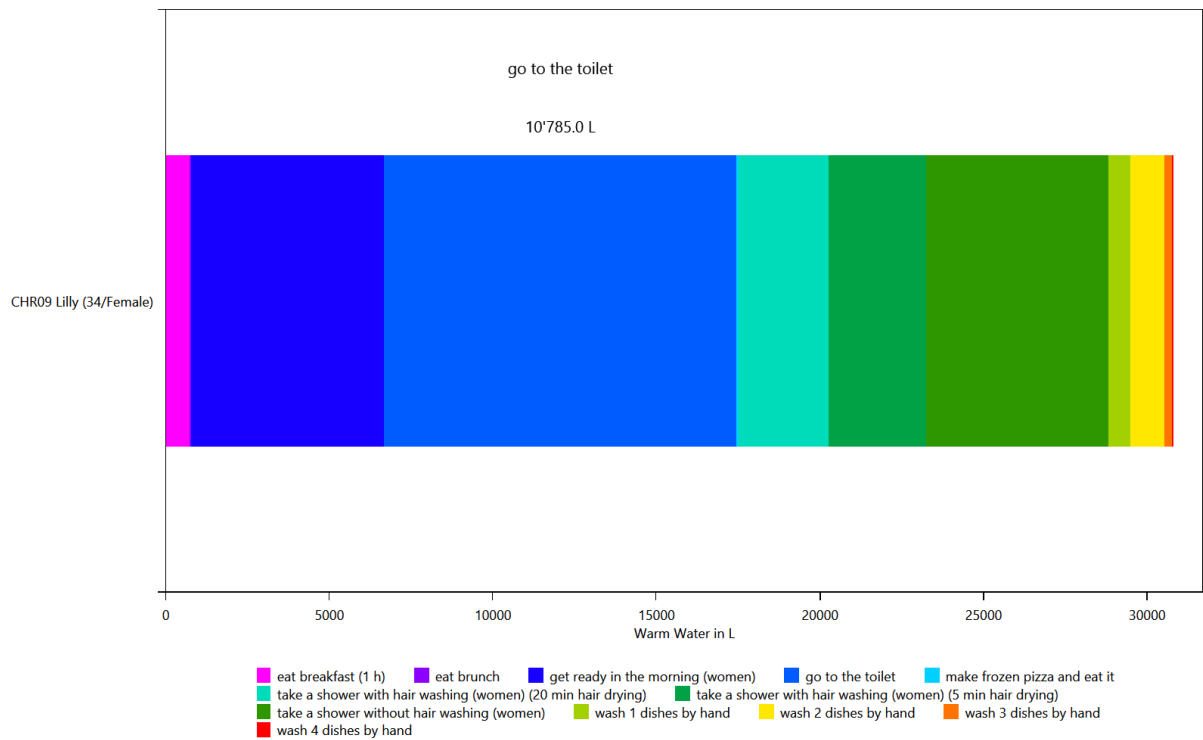
HH0 - Cold Water



HH0 - Electricity



HH0 - Warm Water

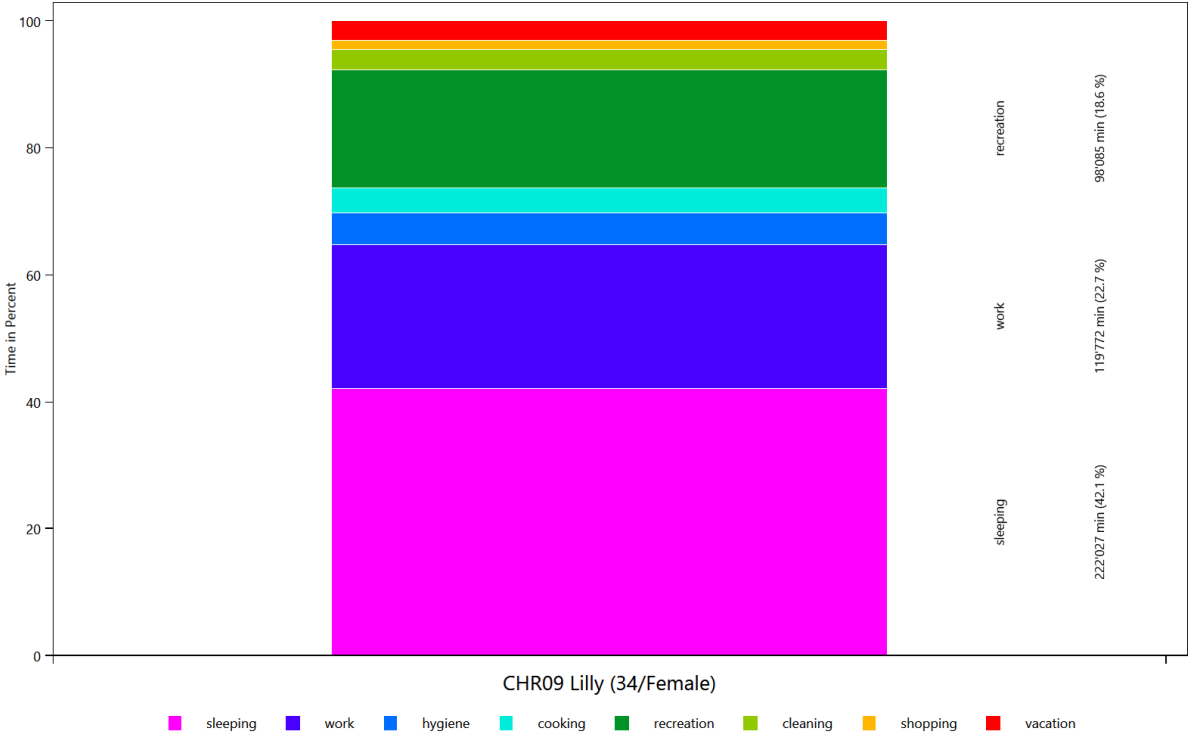


Time Use per Person Per Affordance according to different category definitions

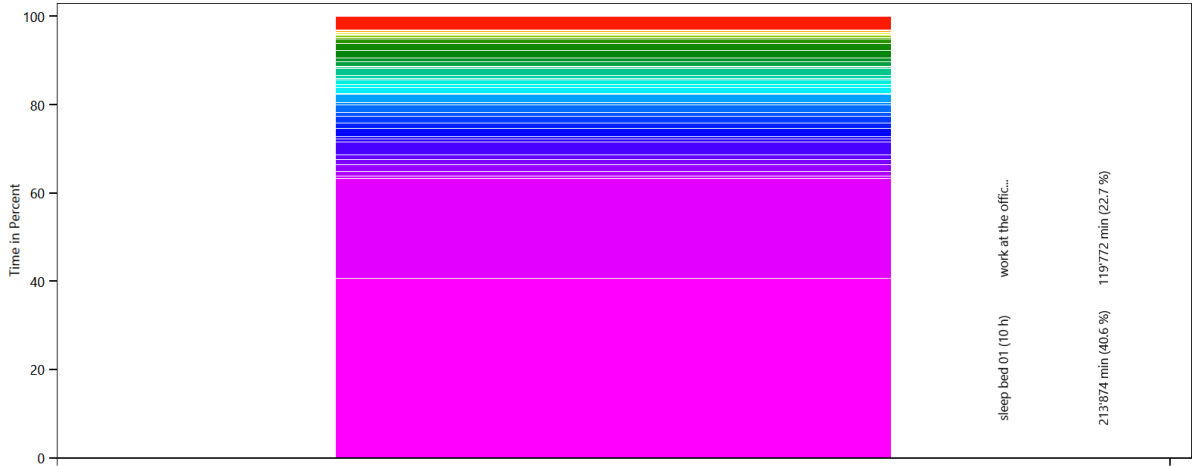
This is made from the files starting with: AffordanceTaggingSet

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



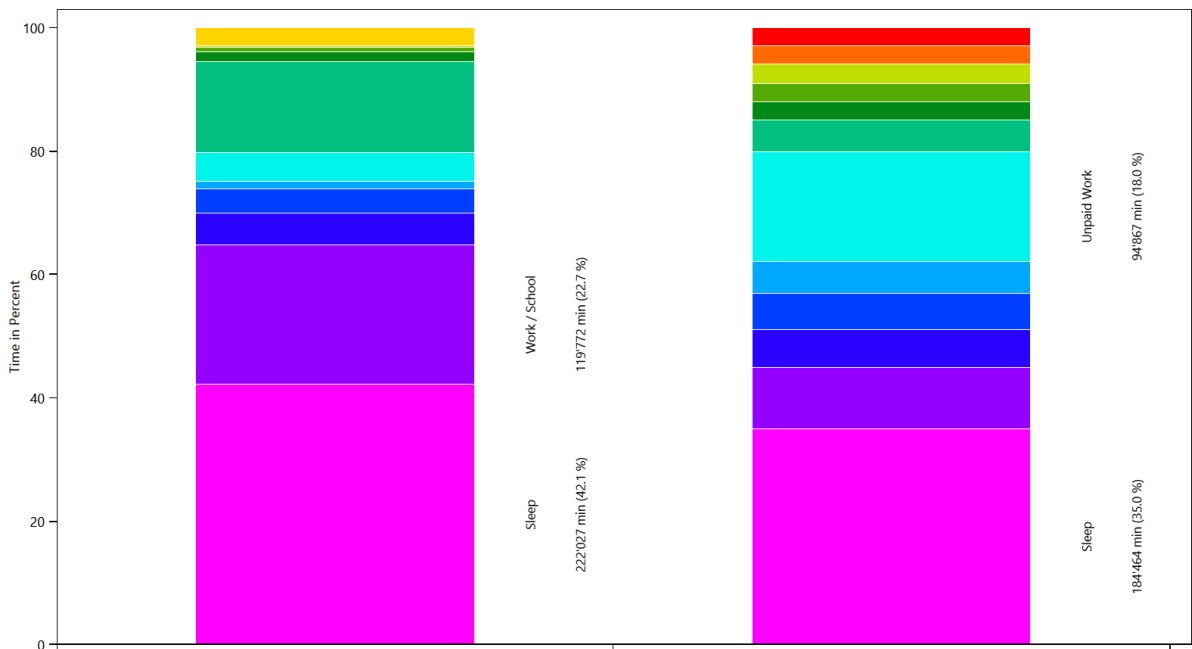
Tagging Set For Planning - HHO



CHR09 Lilly (34/Female)

- sleep bed 01 (10 h)
- work at the office from 8:00 (9 h)
- go to the toilet
- take a shower with hair washing (women) (5 min hair drying)
- microwave frozen meal and eat it
- exercise for 30 min on the treadmill
- wash 1 dishes by hand
- watch a movie for 2 h with home cinema system
- use the computer (1 h)
- get ready in the morning (women)
- eat breakfast (1 h)
- go shopping for food in the supermarket (1.5 h)
- take a nap
- use the computer with external HD (1 h)
- take a shower without hair washing (women)
- watch TV (1 h)
- use the computer for recreation (2 h)
- fry two eggs and eat them with toast
- watch a movie for 1 h 30 min
- use the computer (1.5 h)
- wash 2 dishes by hand
- take a shower with hair washing (women) (20 min hair drying)
- cook pasta and eat it
- watch a movie for 2 h
- go to a dancing class
- do laundry at 30°C (by variable)
- run the dryer with wet laundry, only below 15°C (by variable)
- listen to music on compact hifi (2 h)
- clean the bath
- watch a movie for 1 h 30 min with home cinema system
- use the computer (2 h)
- watch sports on TV with SAT Receiver (2 h)
- watch the news
- heat up leftovers
- wash 3 dishes by hand
- change decorations
- do laundry at 60°C (by variable)
- vacuum the household
- make frozen pizza and eat it
- make soup
- make and drink tea (15 min)
- read a newspaper for 30min
- read a magazine
- read a book on the couch only 9:00 to 22:00
- read a book on the couch all the time
- eat brunch
- wash 4 dishes by hand
- take nap on the weekend (2 h)
- vacation
- hang up laundry outside only above 15°C (by variable)

Wo bleibt die Zeit - HHO



CHR09 Lilly (34/Female)

Reference

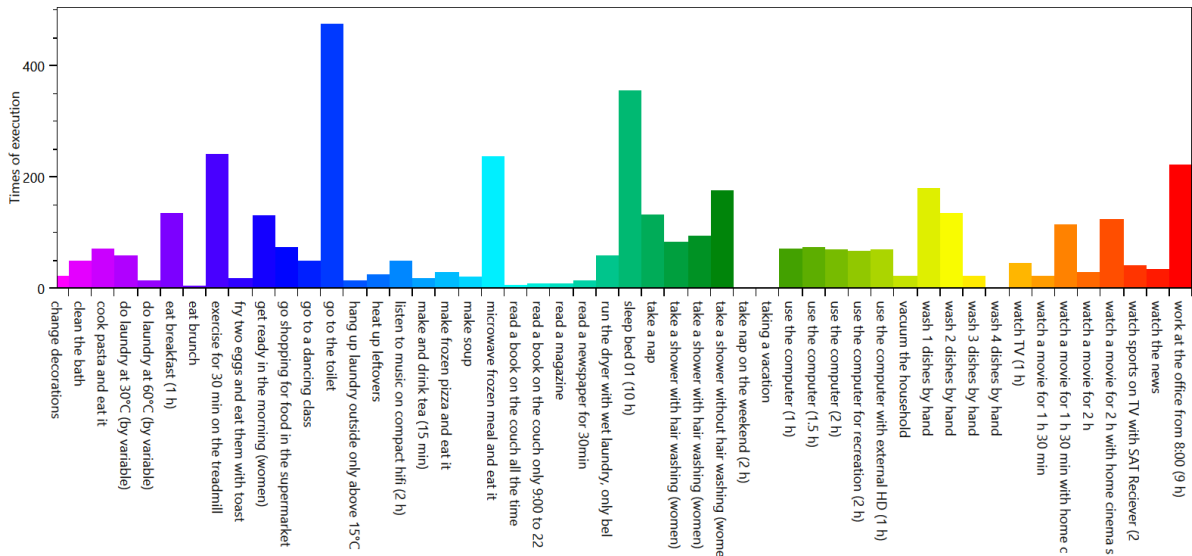
- Sleep
- Work / School
- Hygiene
- Food
- Sport
- Unpaid Work
- Media Use
- Events
- Hobby
- Entertainment
- vacation
- Games
- Contacts

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 - CHR09 Lilly (34 Female)

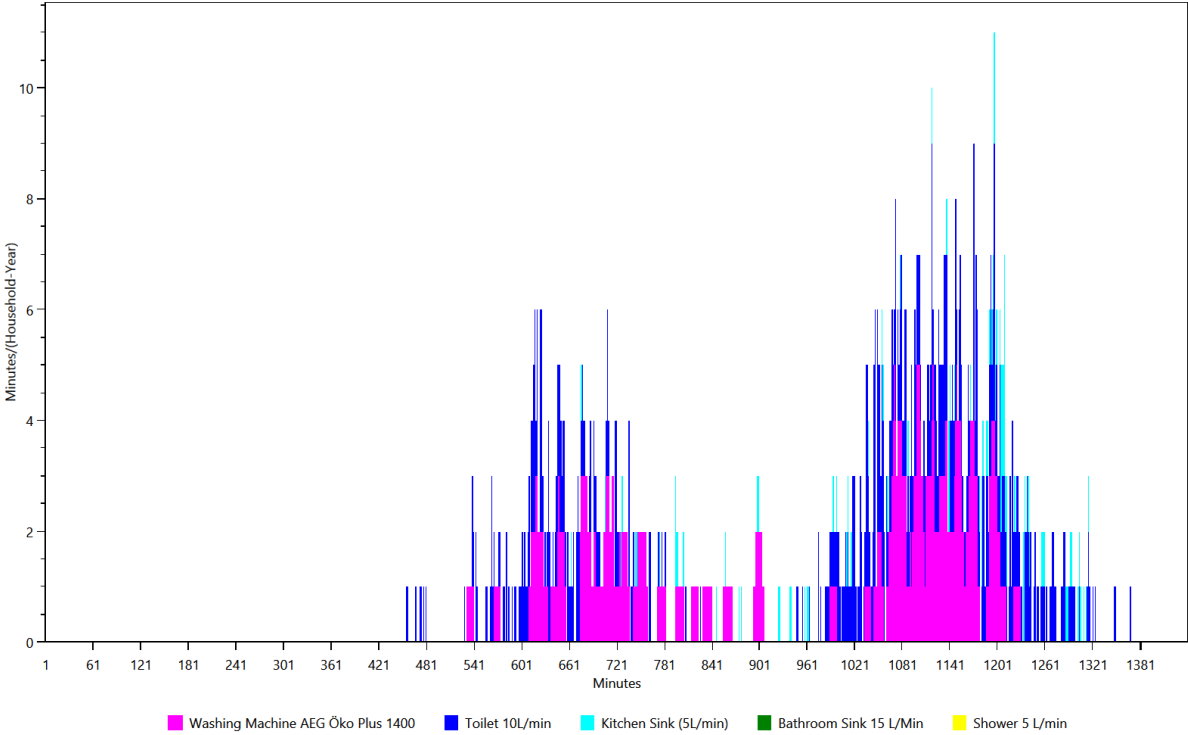


Overview of the time of the use per load type per device

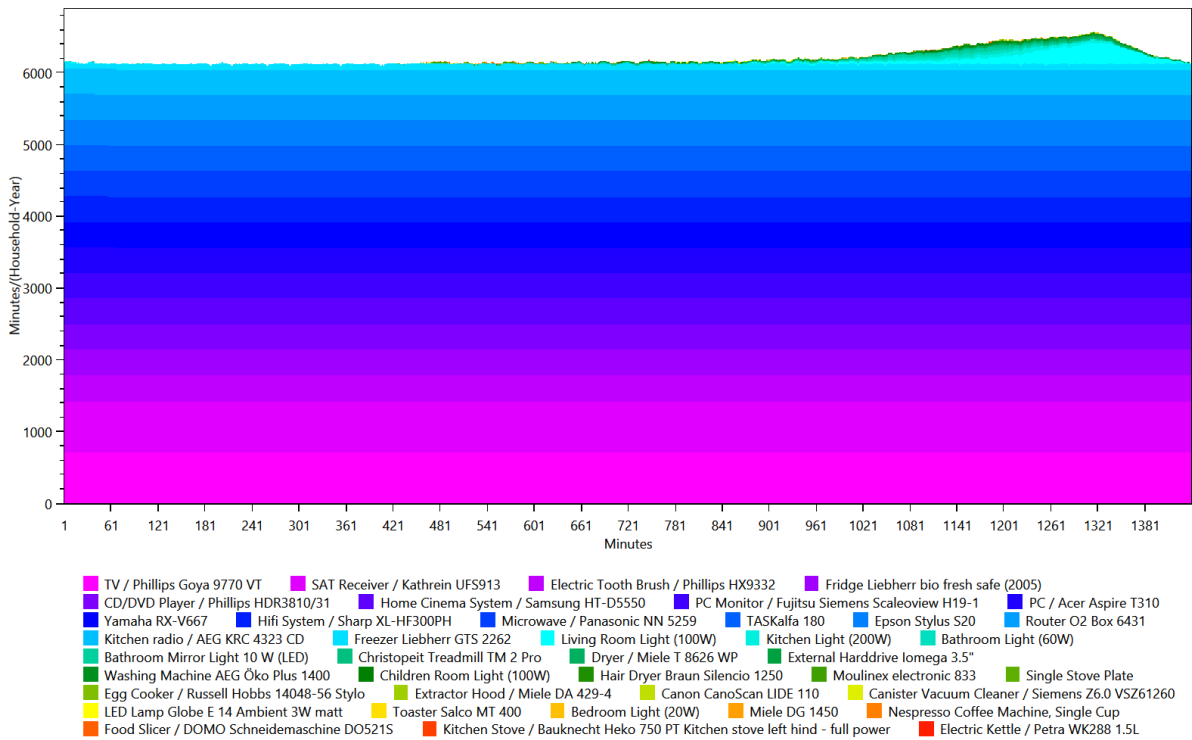
This is made from the files starting with: TimeOfUseEnergyProfiles

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

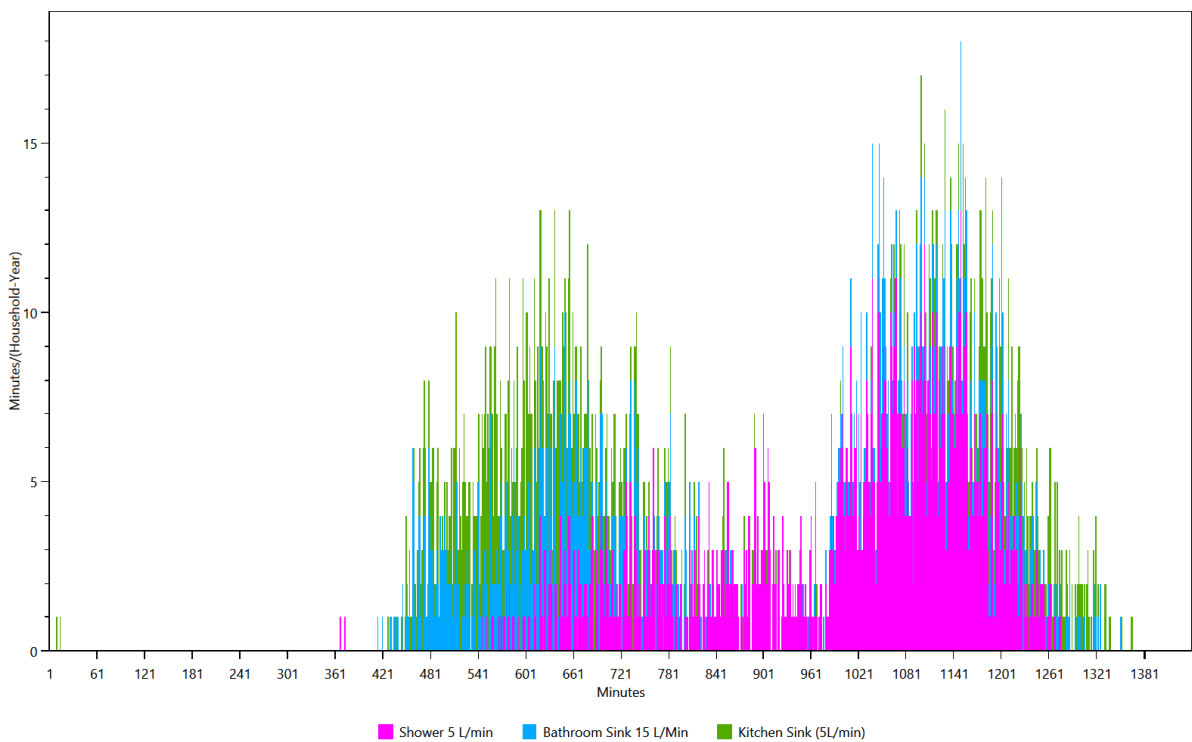
Cold Water



Electricity



Warm Water

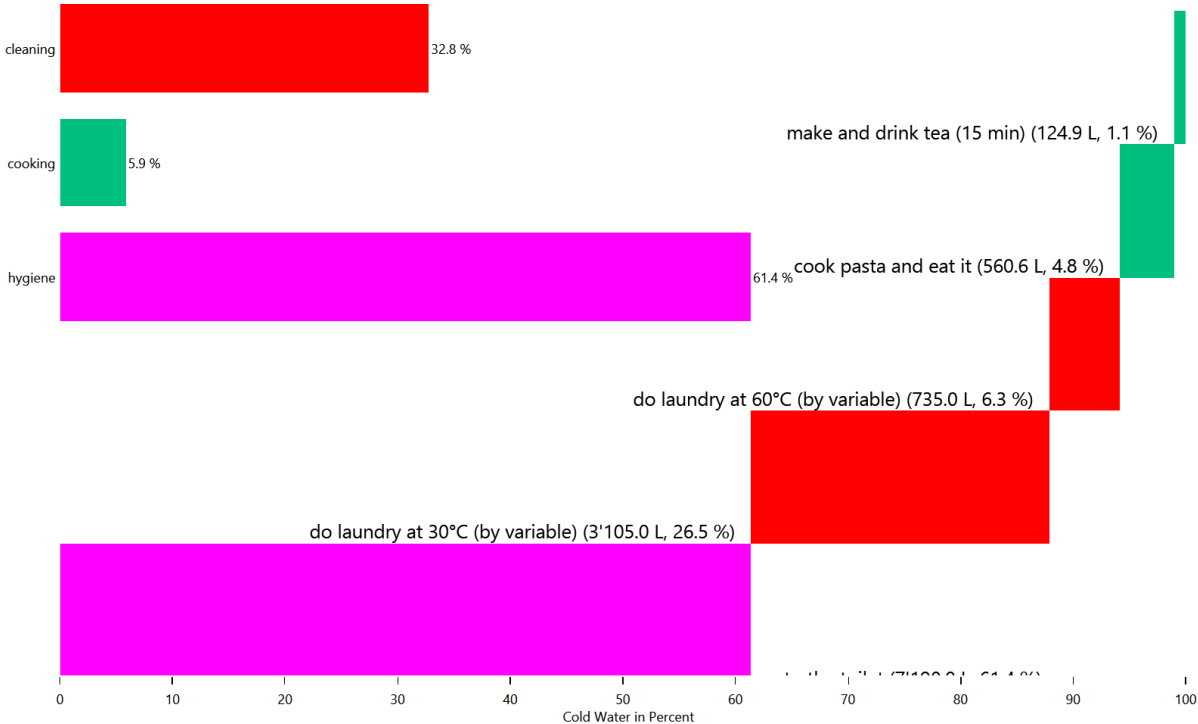


Energy/Resource use distribution per load type per affordance

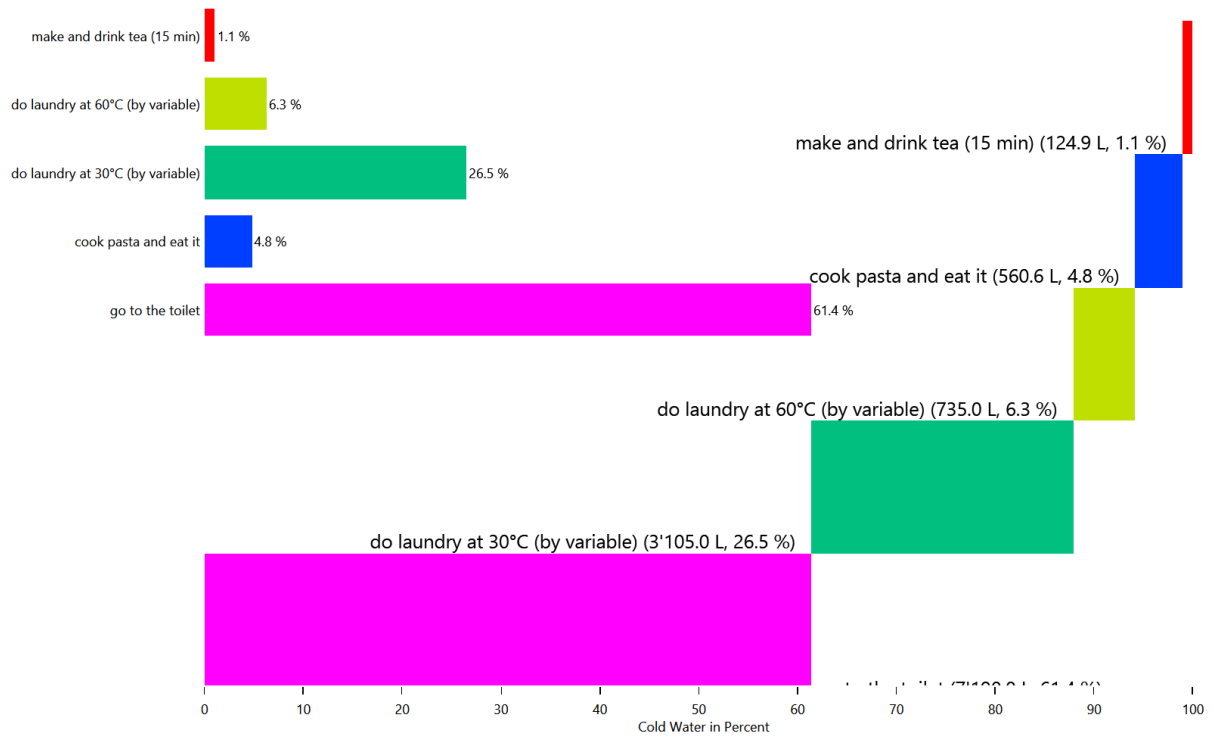
This is made from the files starting with: AffordanceEnergyUse

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

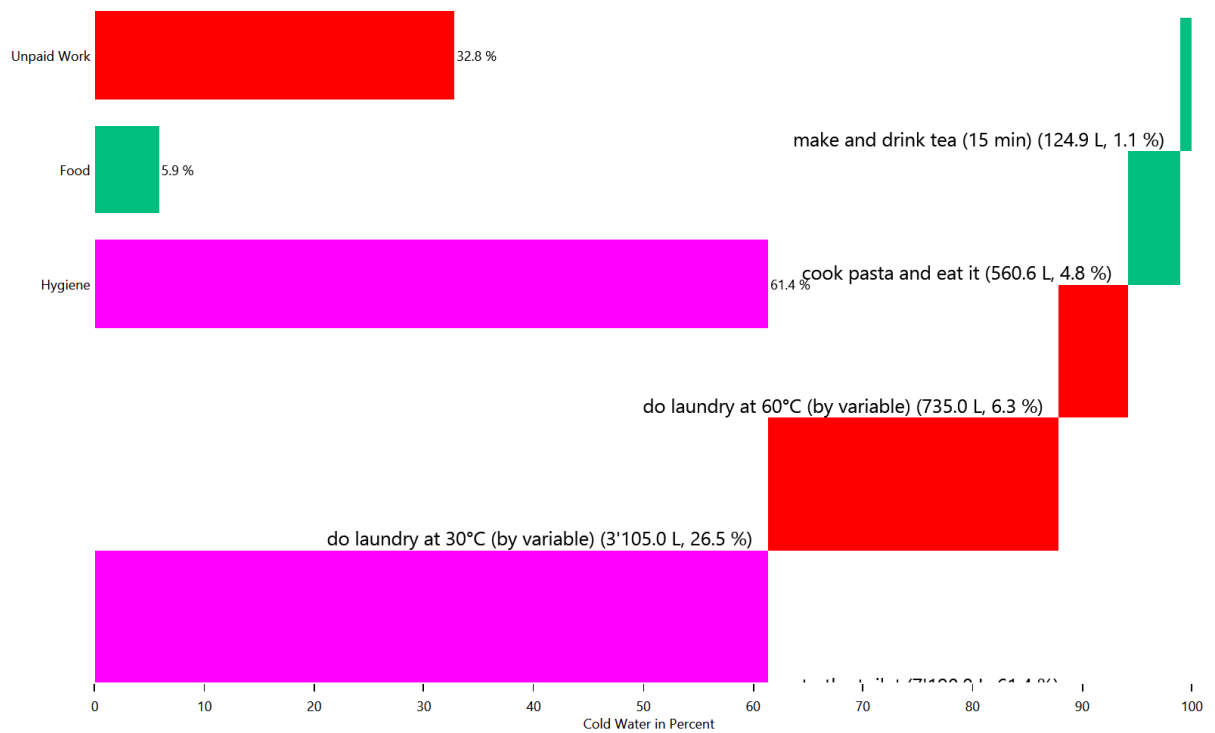
HH0 - Cold Water



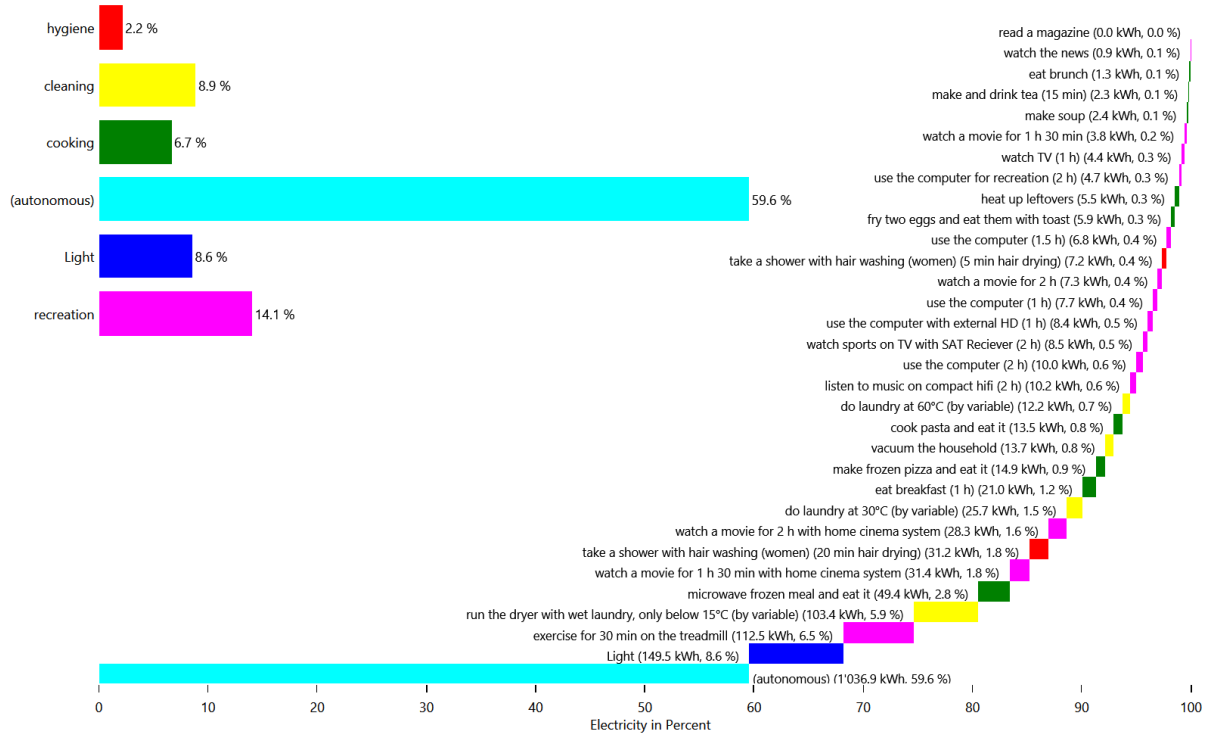
HH0 - Cold Water



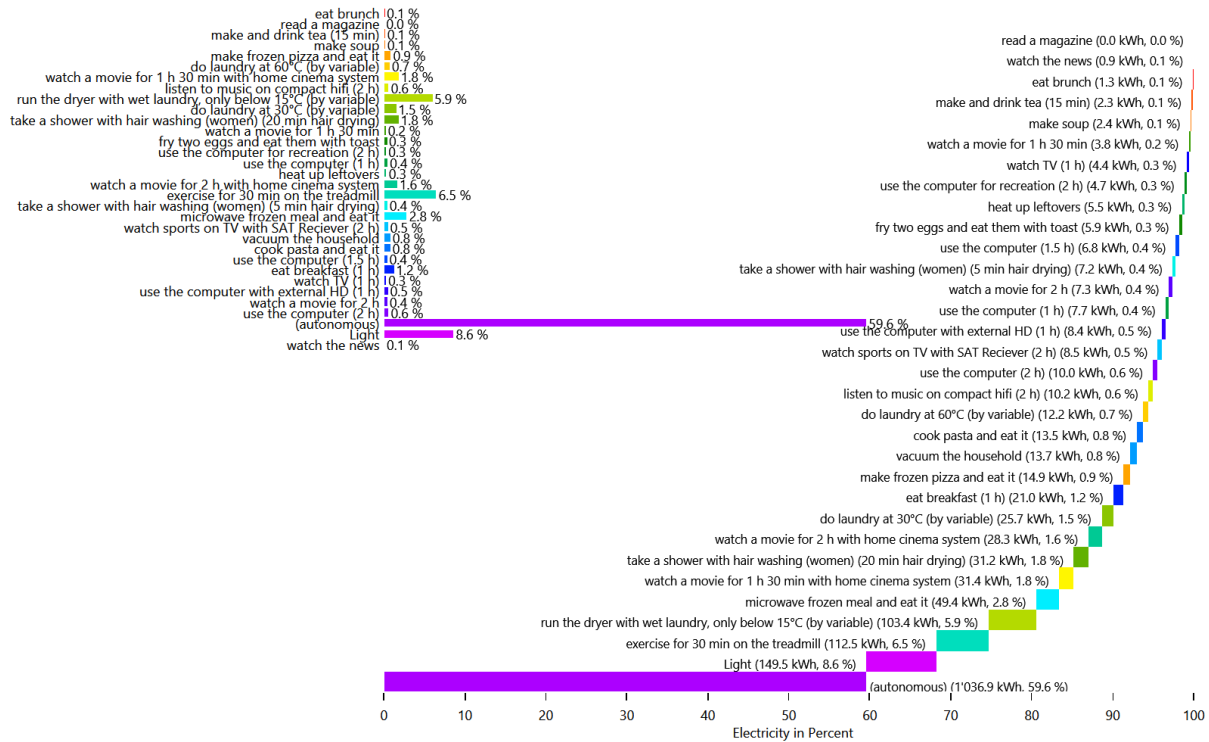
HH0 - Cold Water



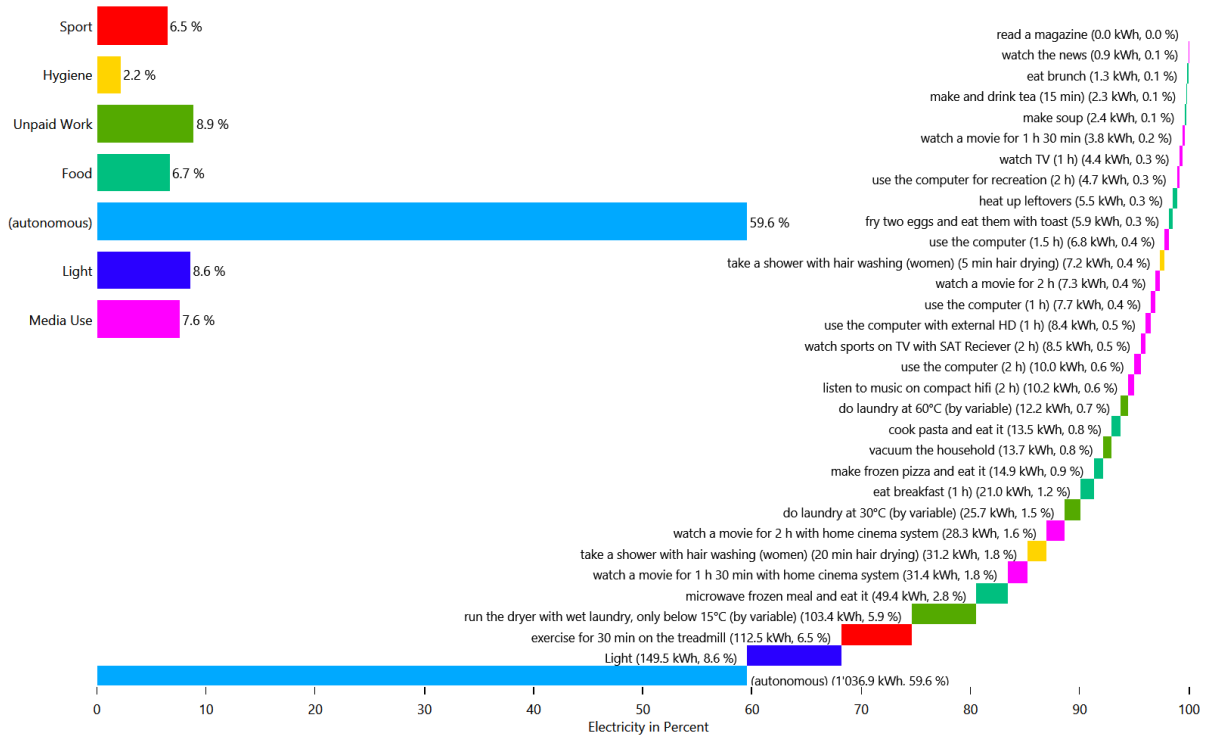
HH0 - Electricity



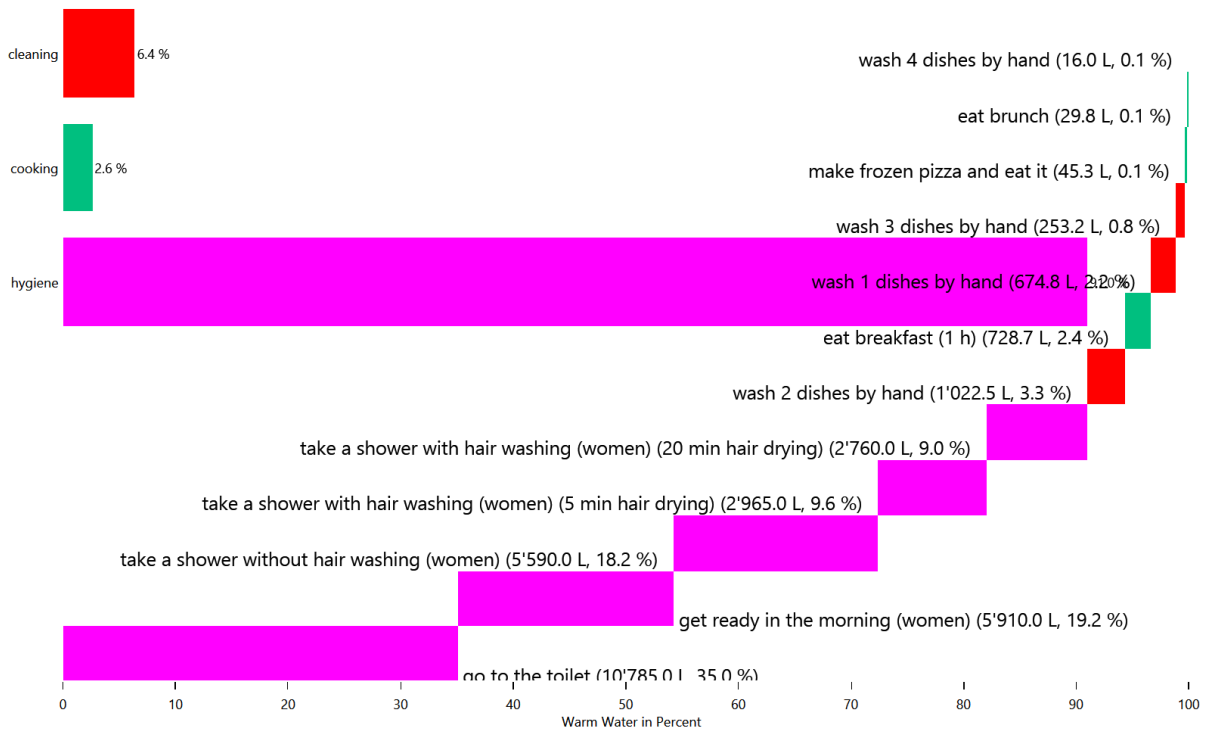
HH0 - Electricity



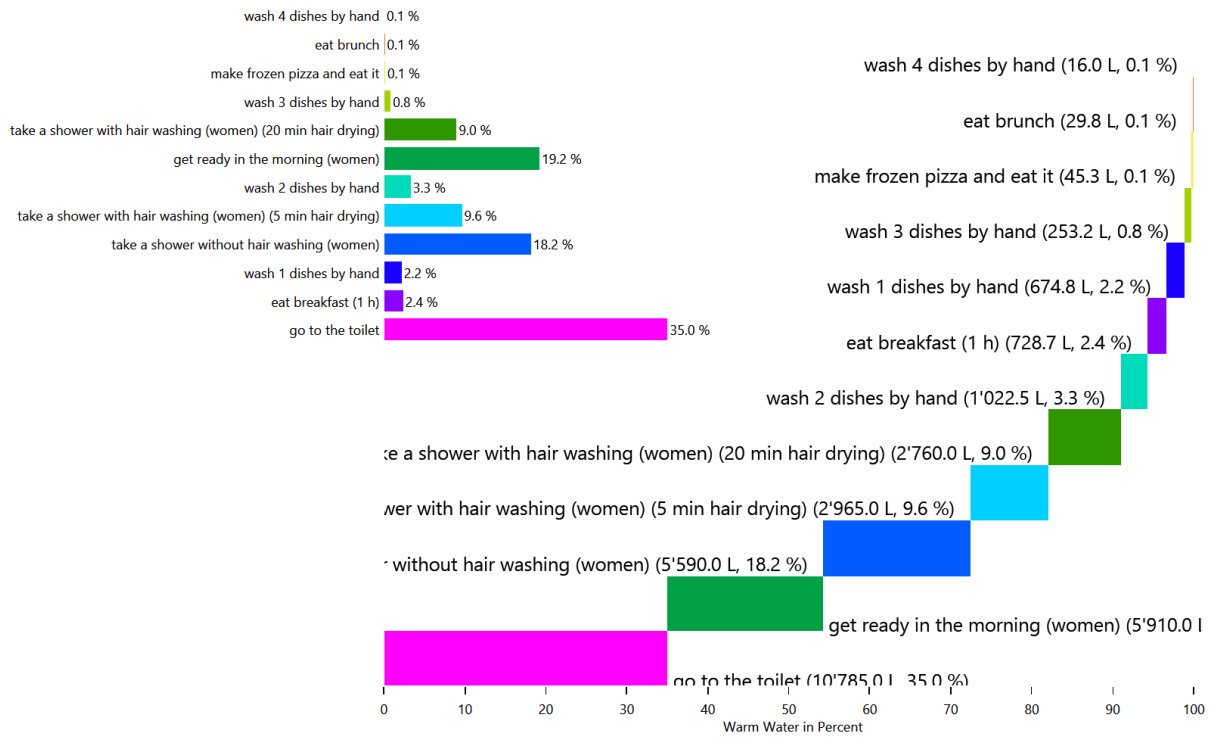
HH0 - Electricity



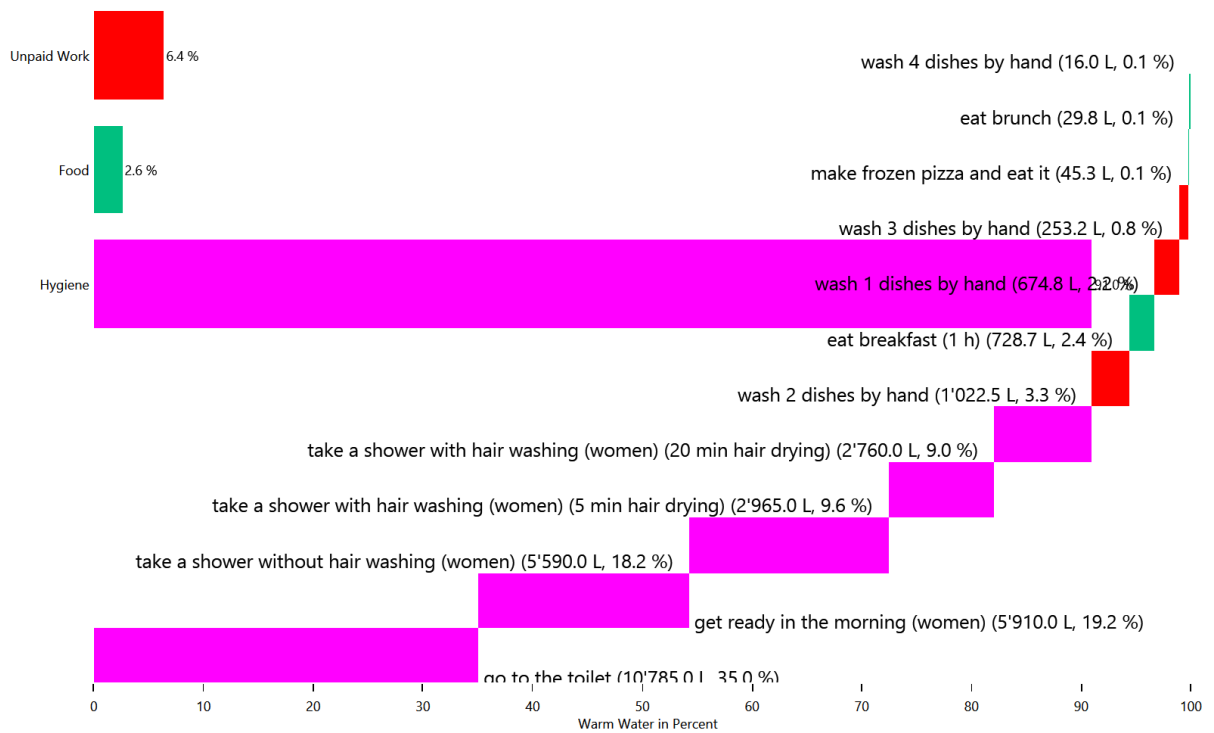
HH0 - Warm Water



HH0 - Warm Water



HH0 - Warm Water

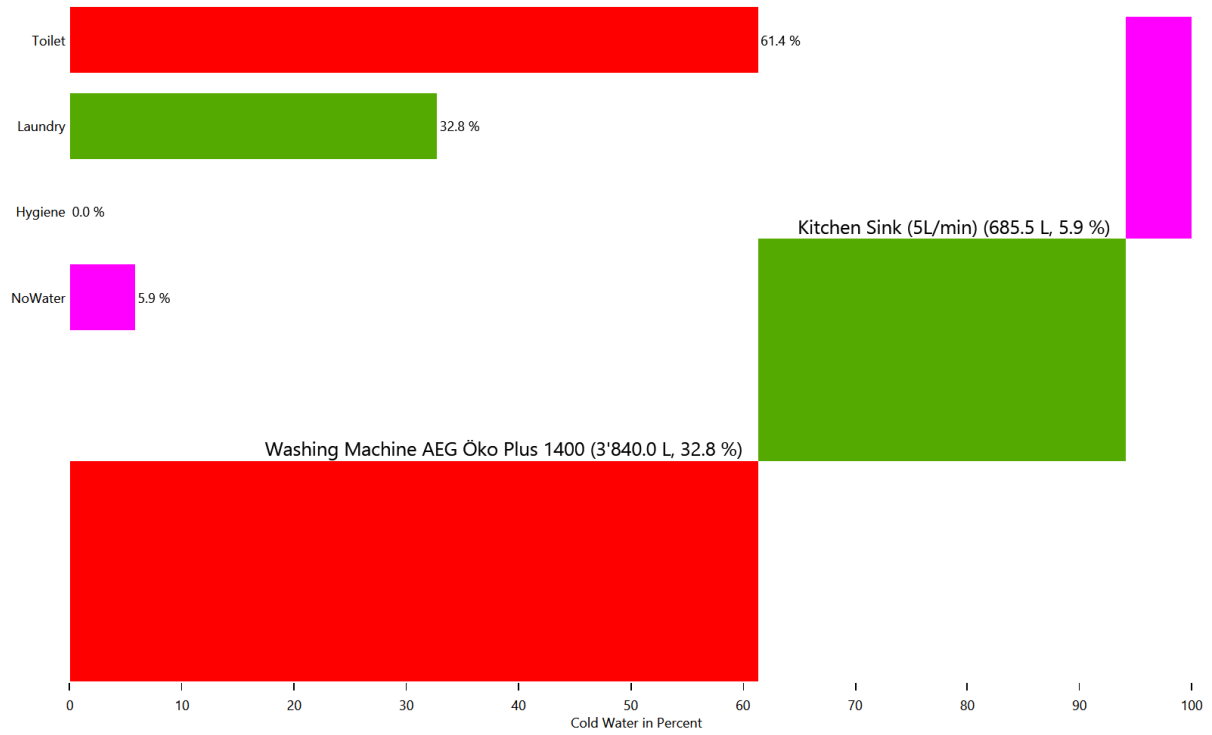


Energy use for each load type for each device

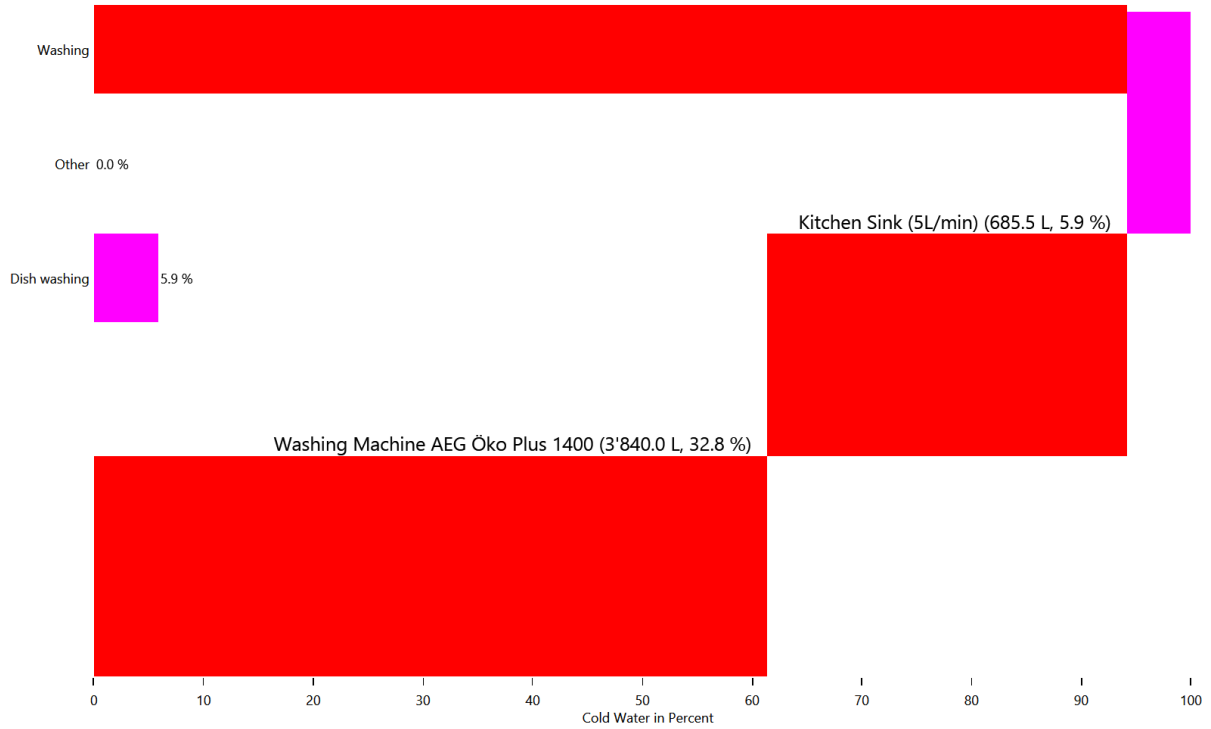
This is made from the files starting with: DeviceSums

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

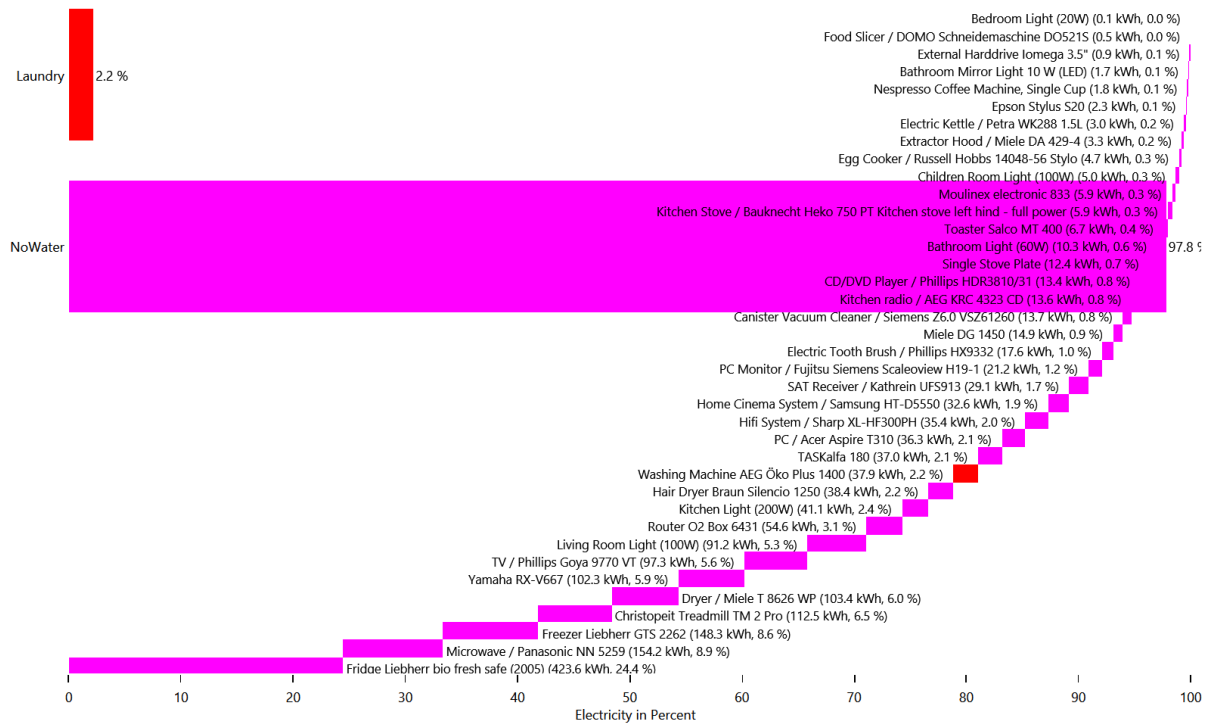
Cold Water



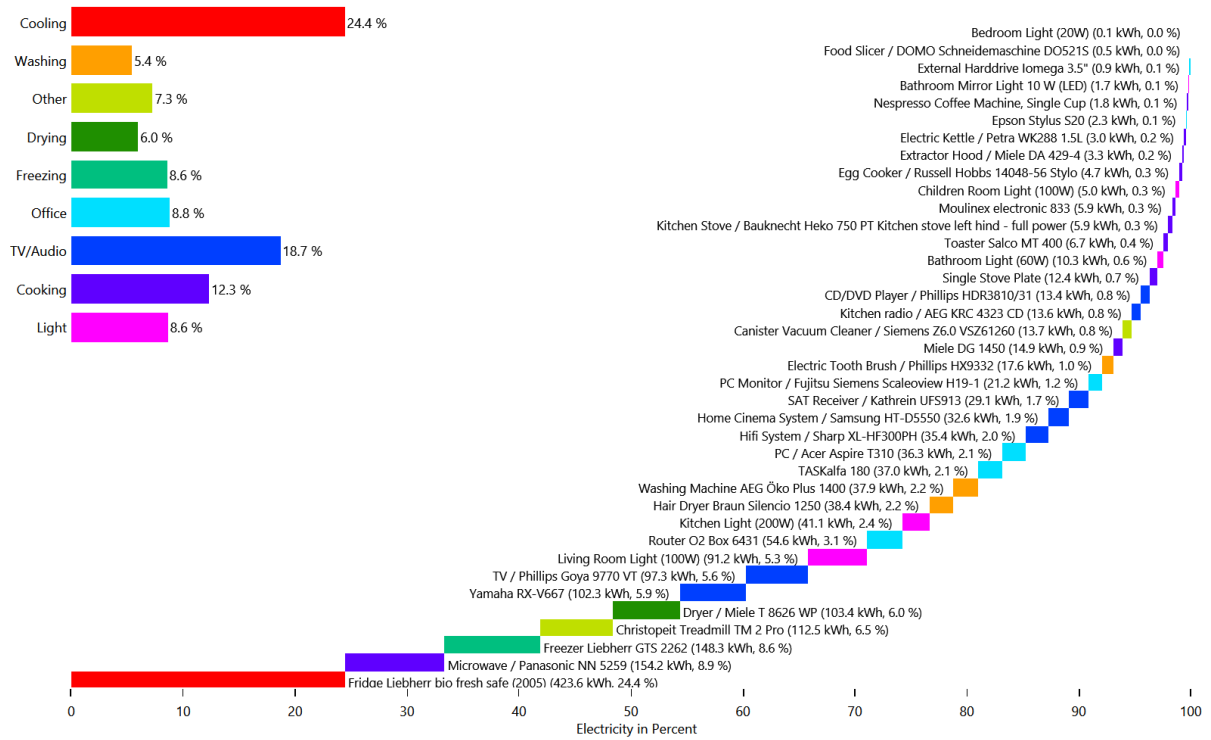
Cold Water



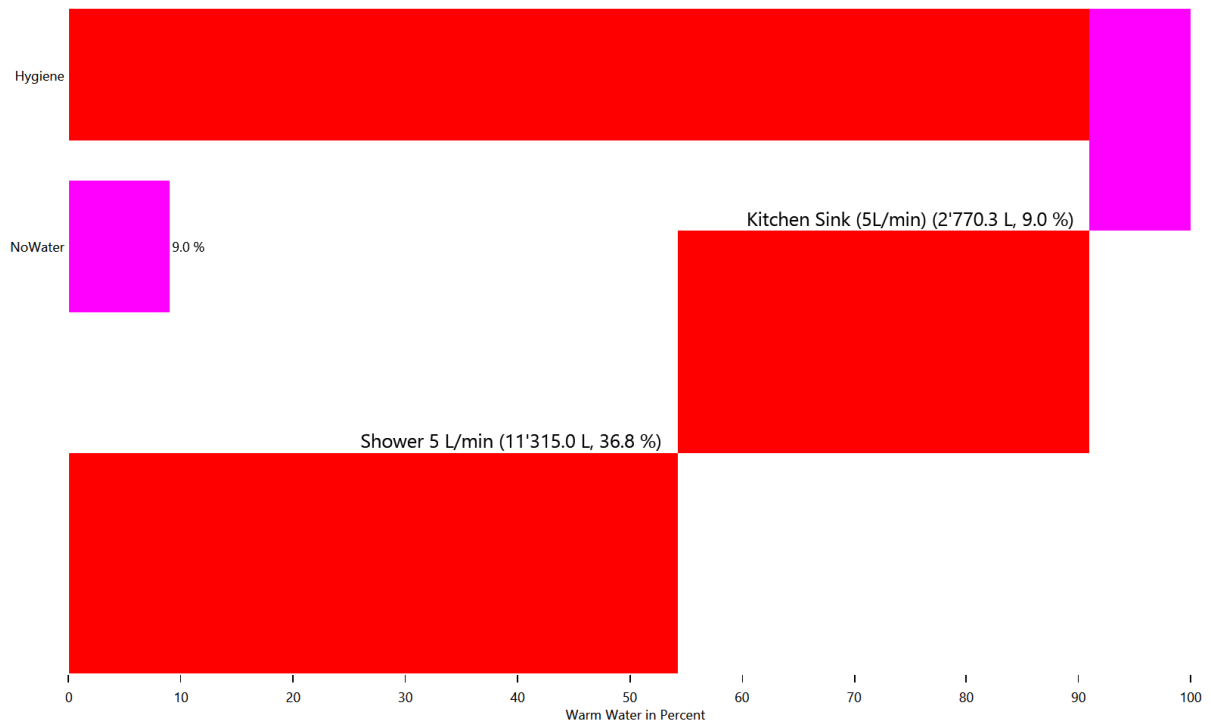
Electricity



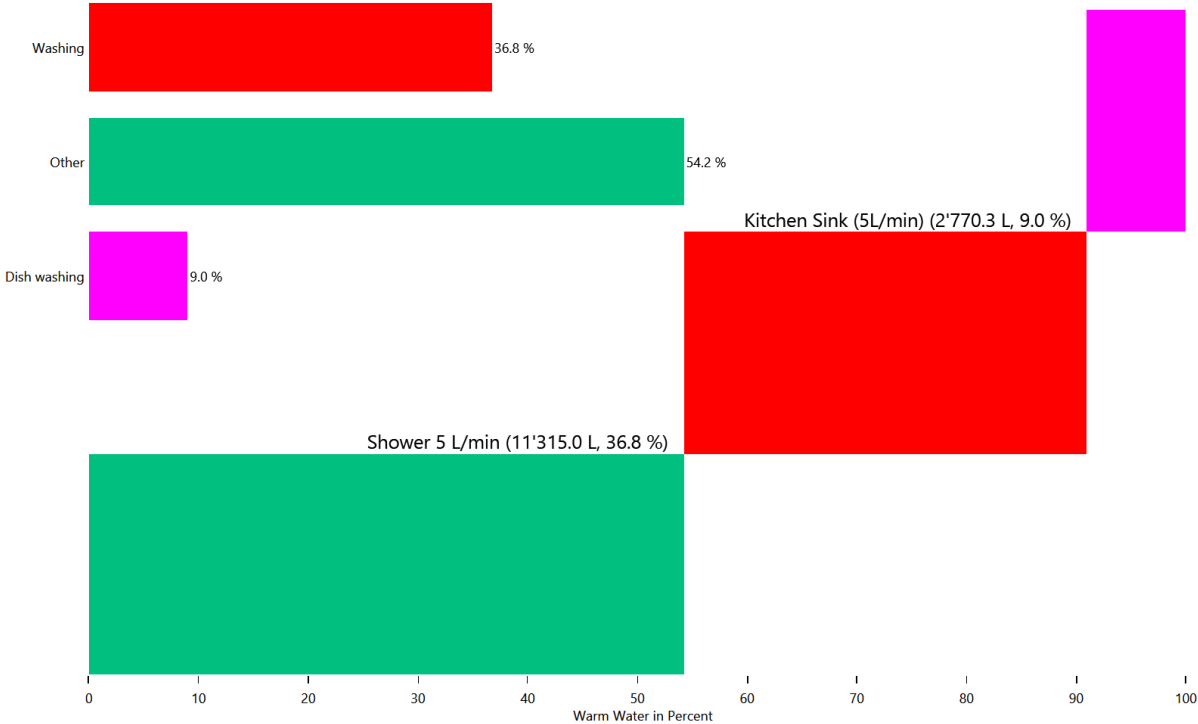
Electricity



Warm Water



Warm Water

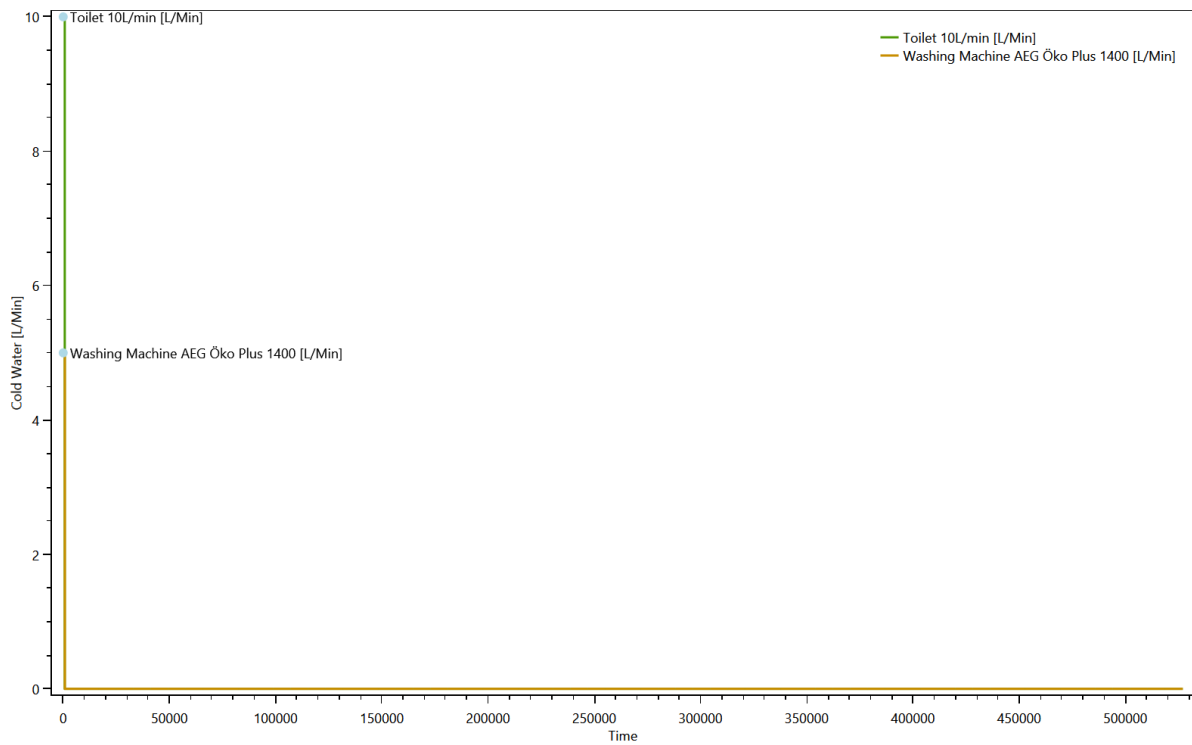


Duration curve for each device for each load type

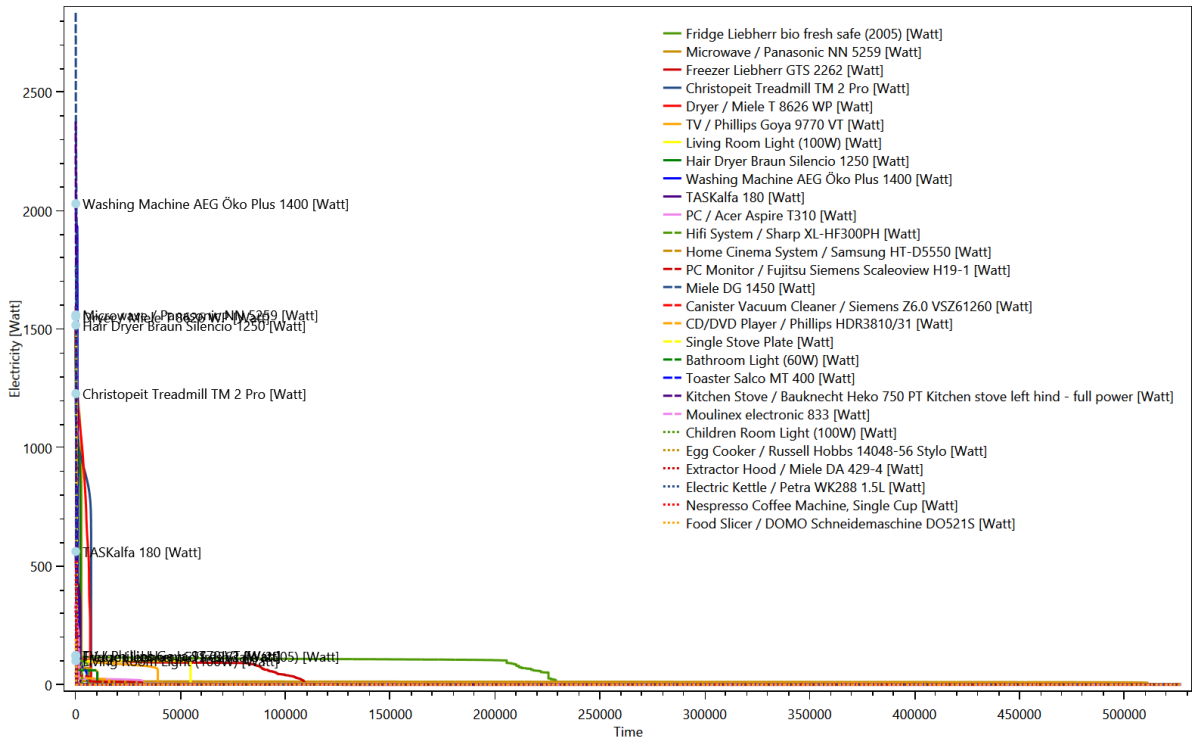
This is made from the files starting with: DeviceDurationCurves

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

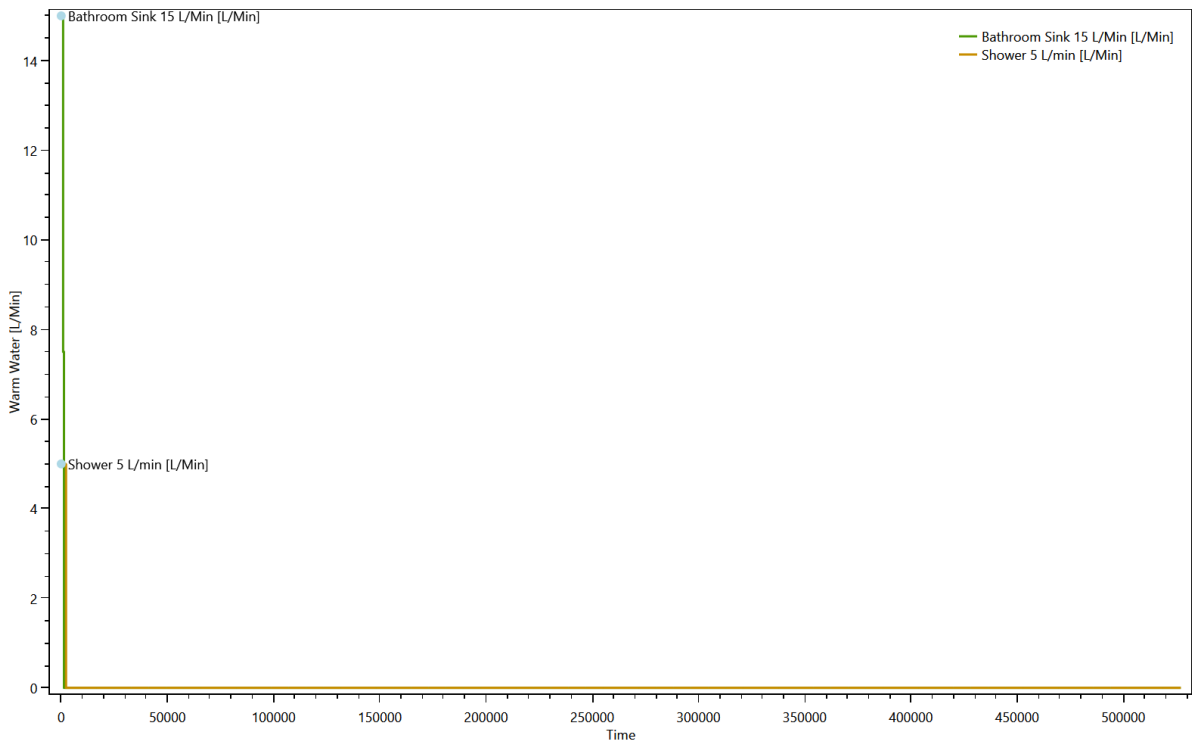
Cold Water



Electricity



Warm Water

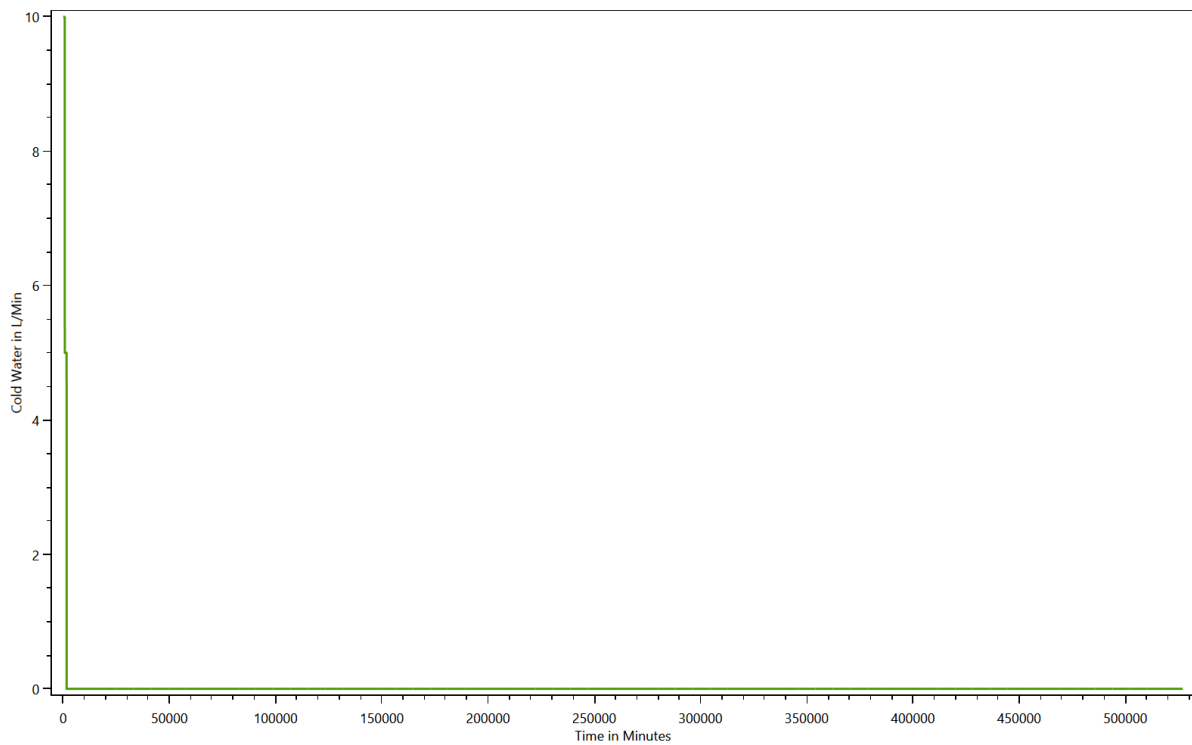


Duration curve for each load type

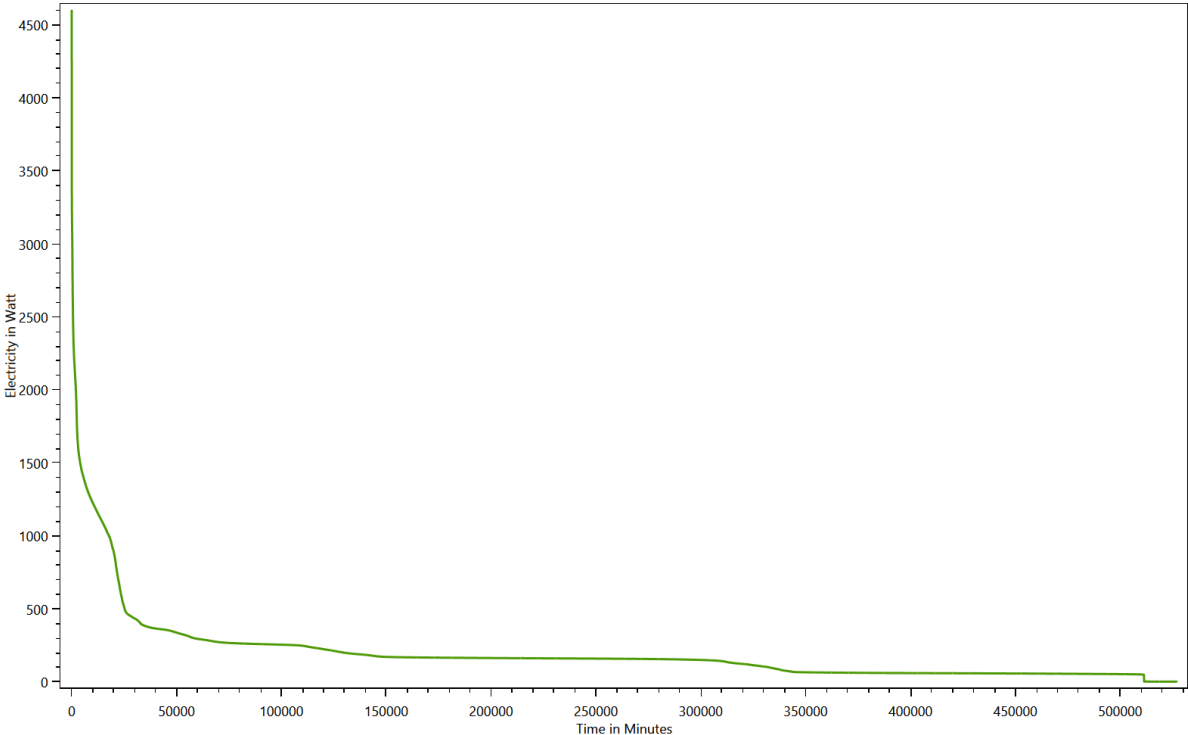
This is made from the files starting with: DurationCurve

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

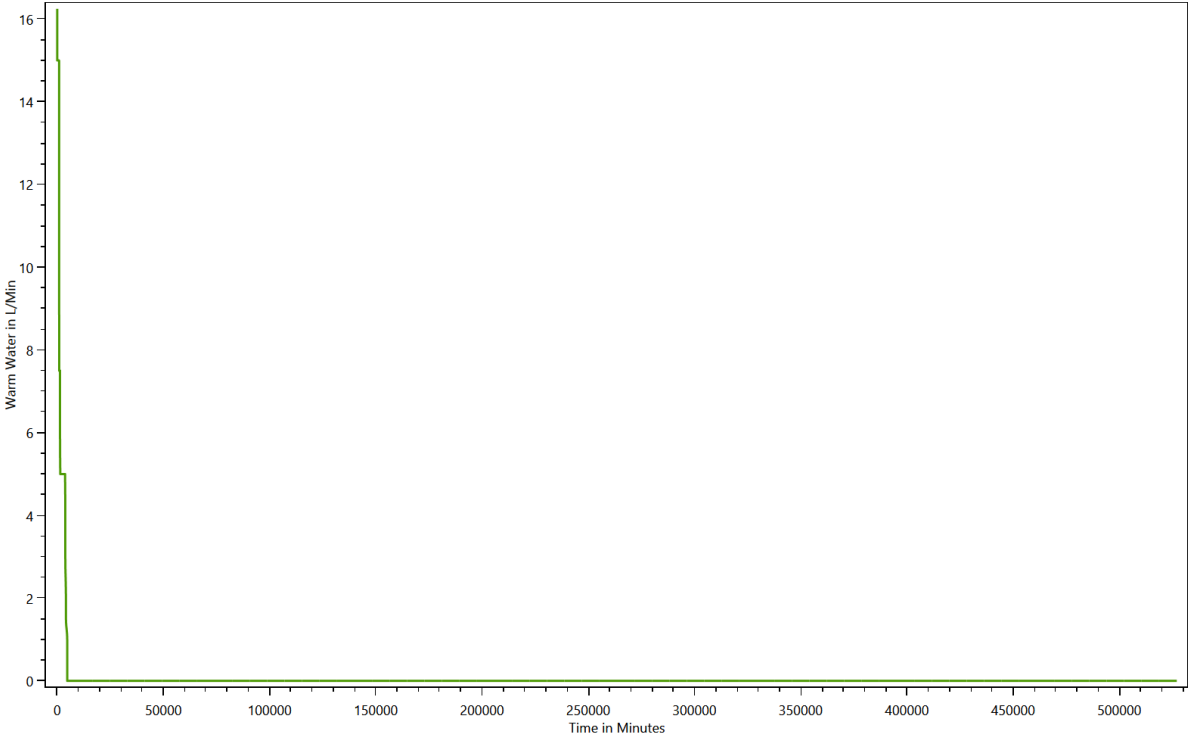
Cold Water



Electricity



Warm Water

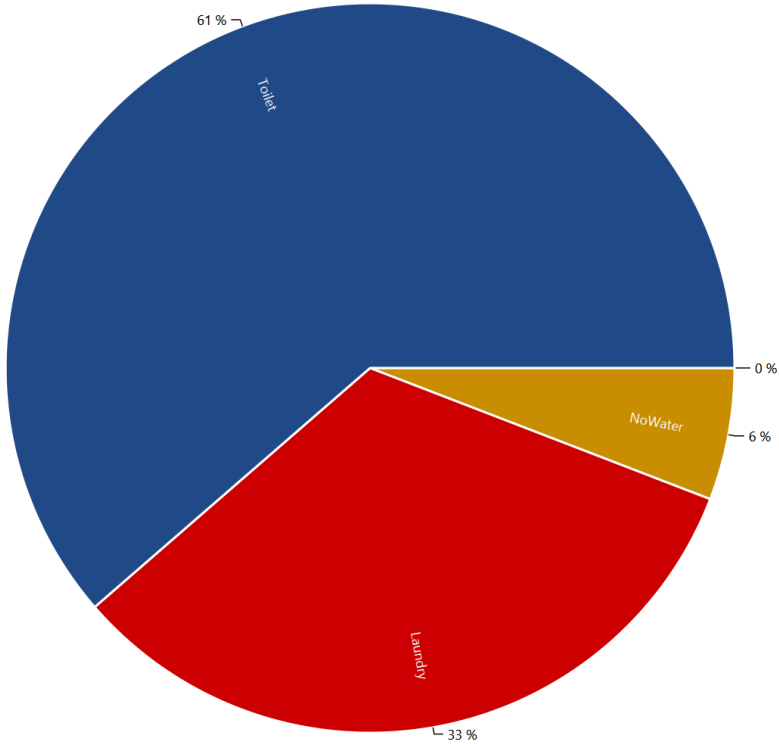


Grouped energy use for each load type for each device

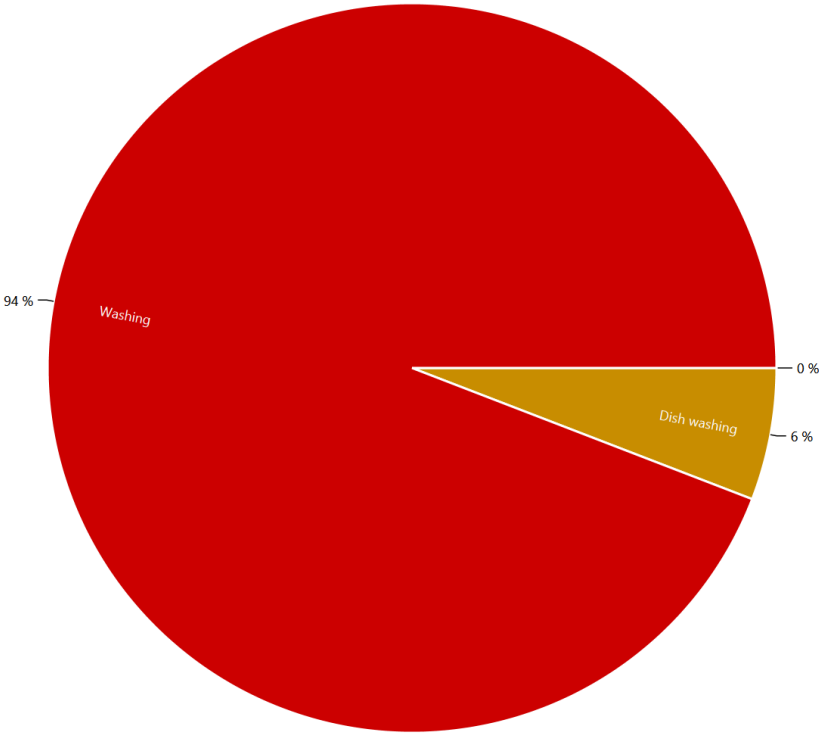
This is made from the files starting with: DeviceTaggingSet

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

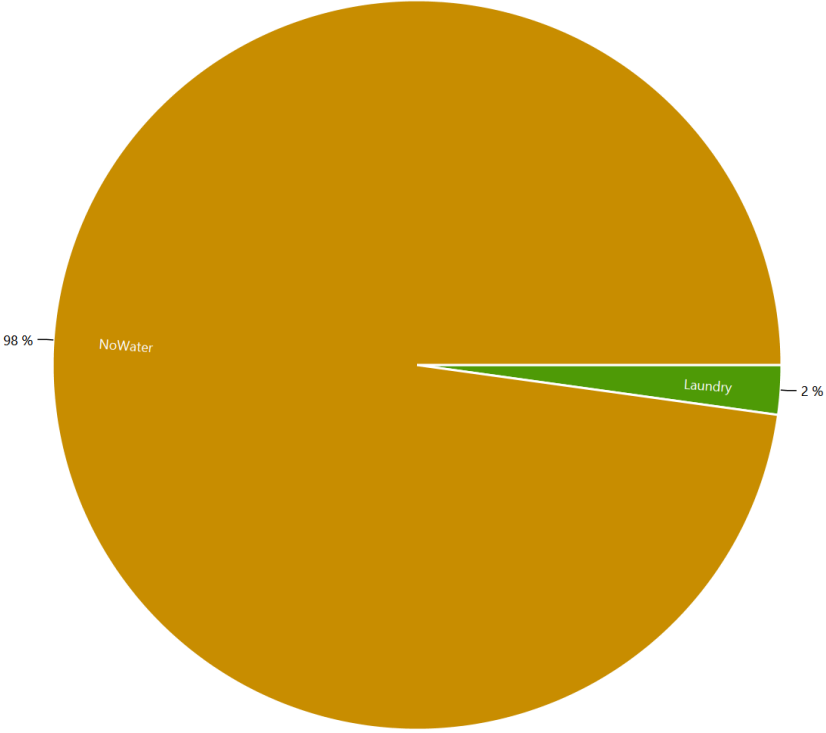
HH0 - Destatis Water Usage Statistics - Cold Water



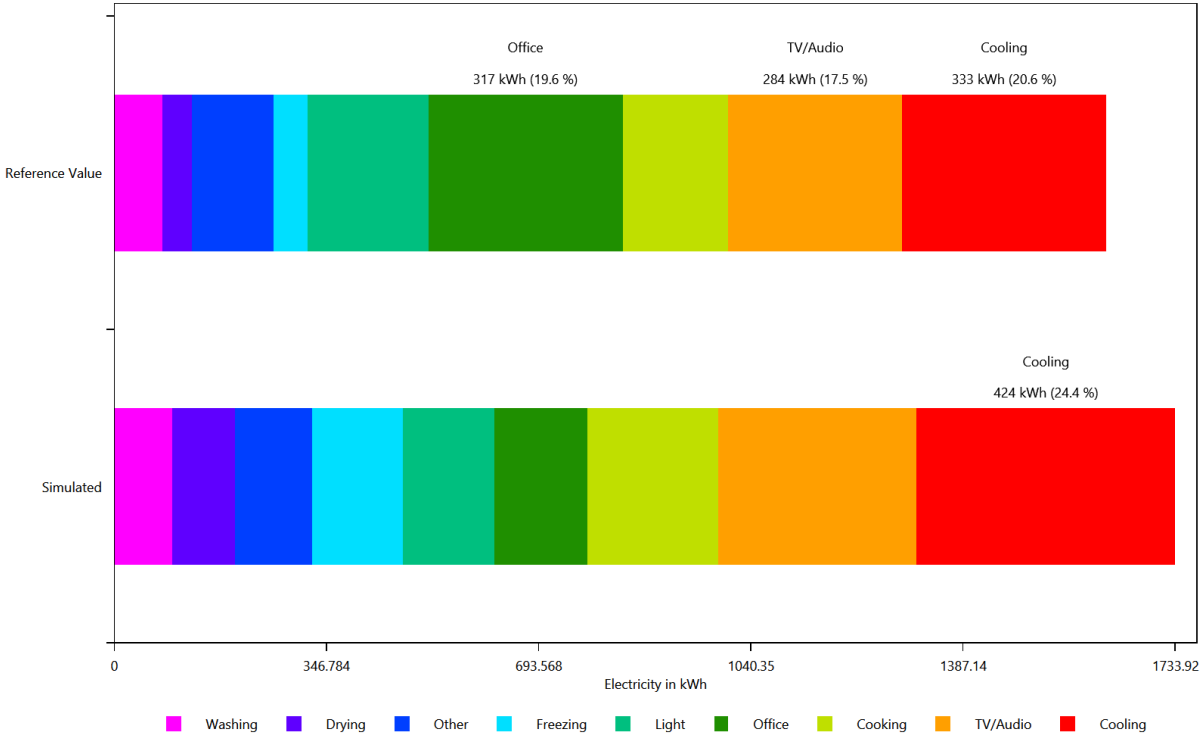
HH0 - Energieagentur - Cold Water



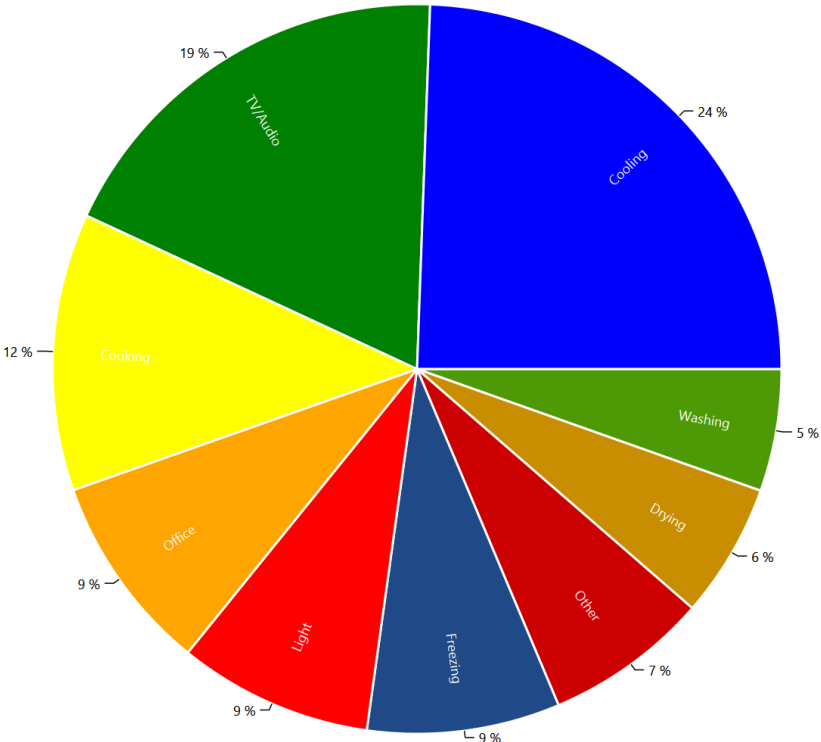
HH0 - Destatis Water Usage Statistics - Electricity



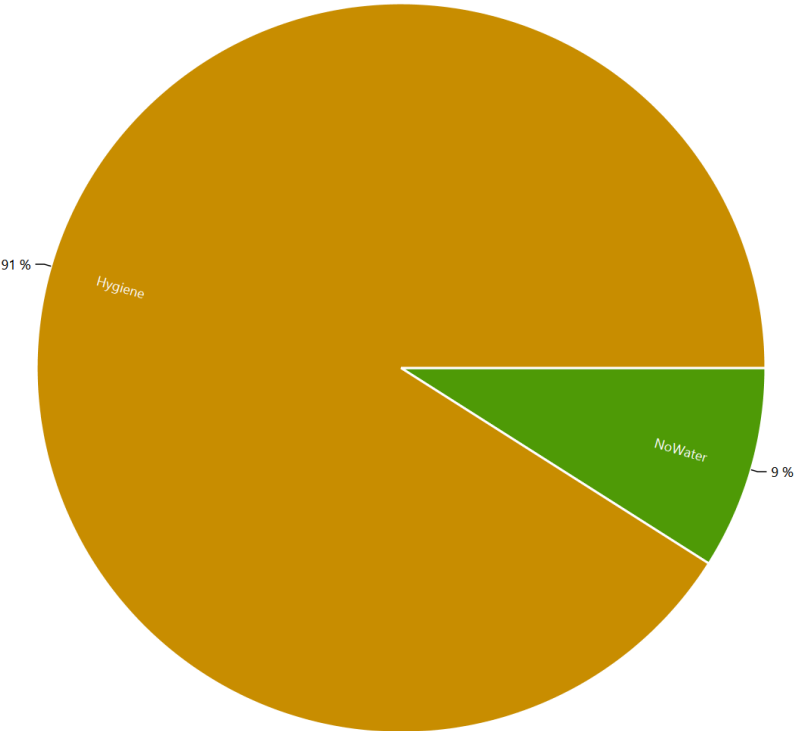
HH0 - Energieagentur - Electricity



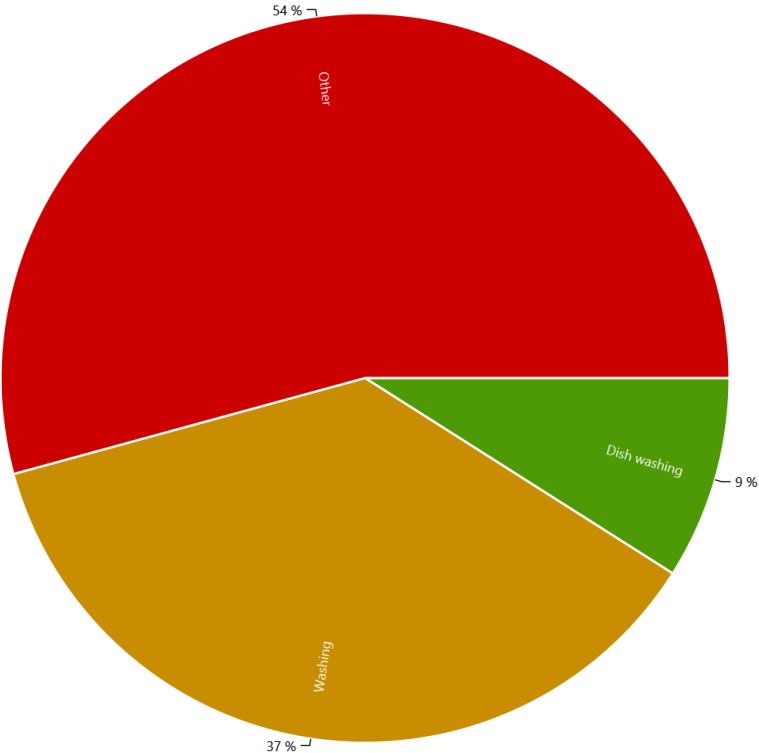
HH0 - Energieagentur - Electricity



HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

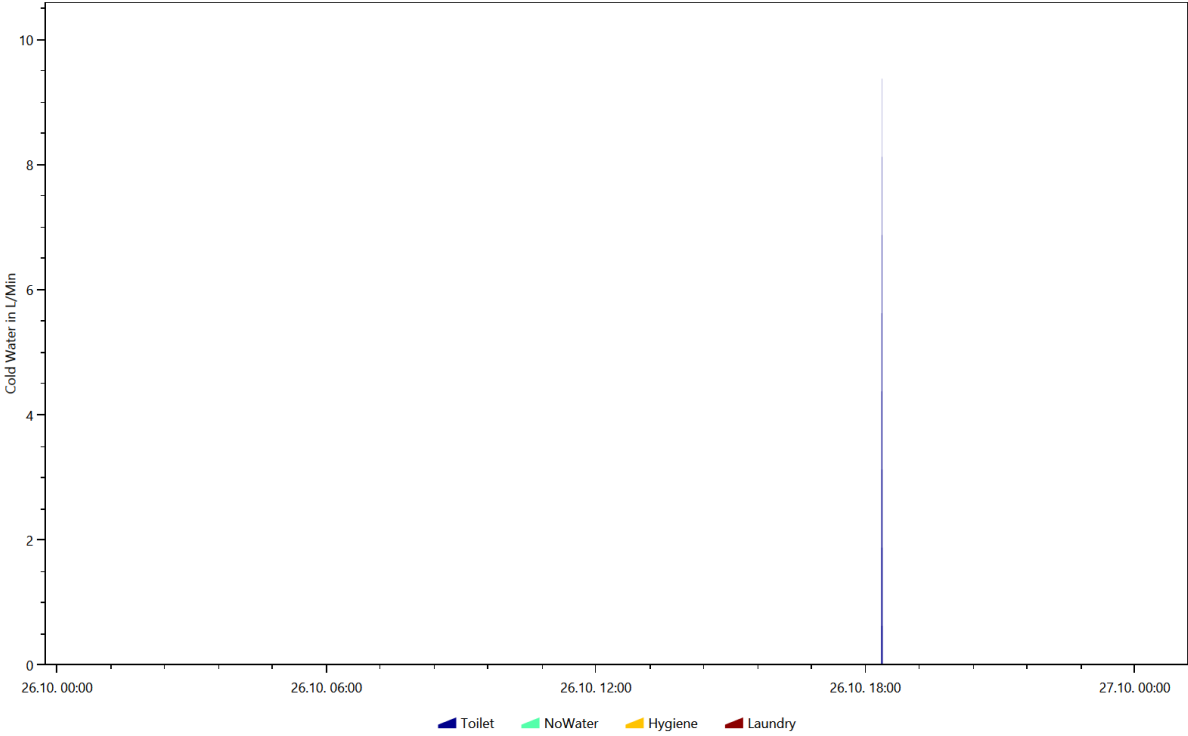


Example of the device profiles for each load type

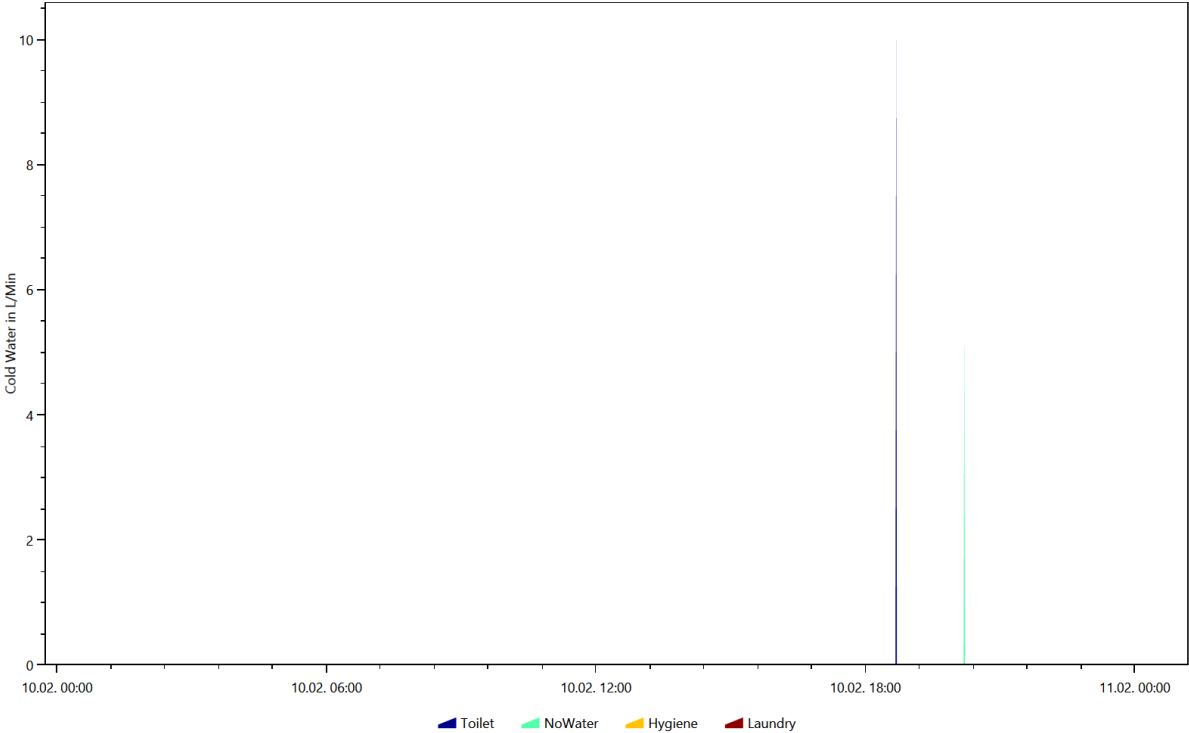
This is made from the files starting with: DeviceProfiles

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

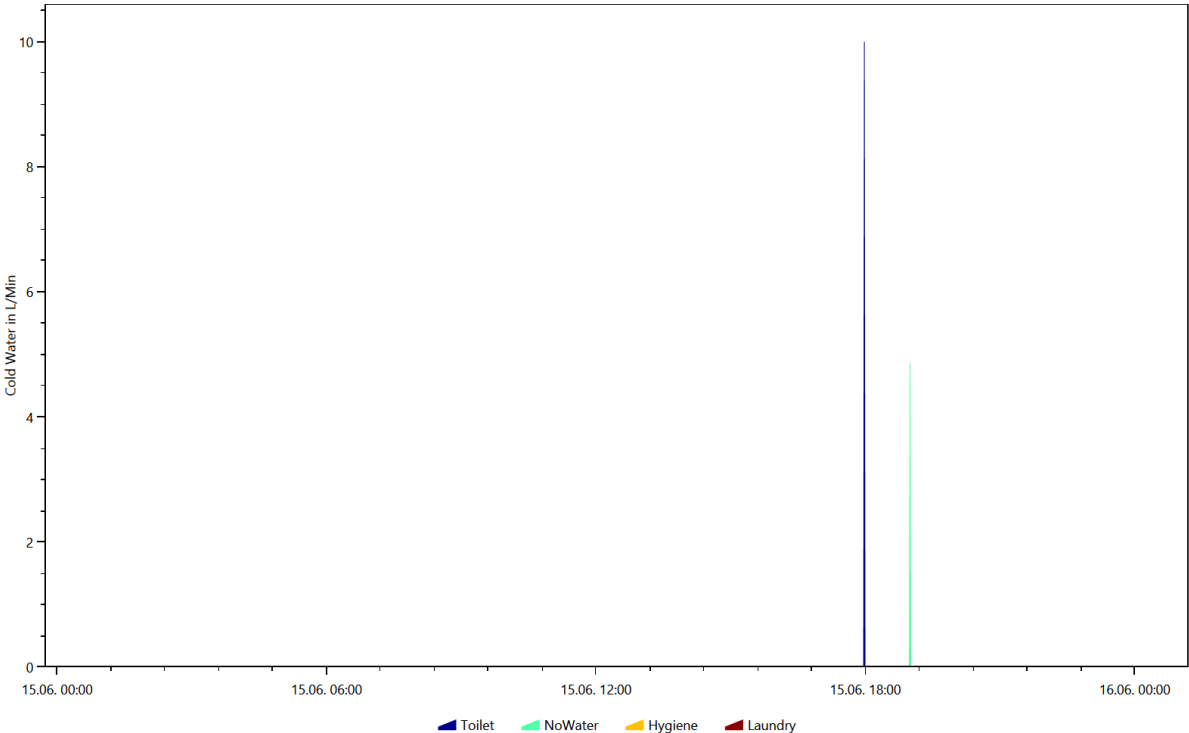
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.26



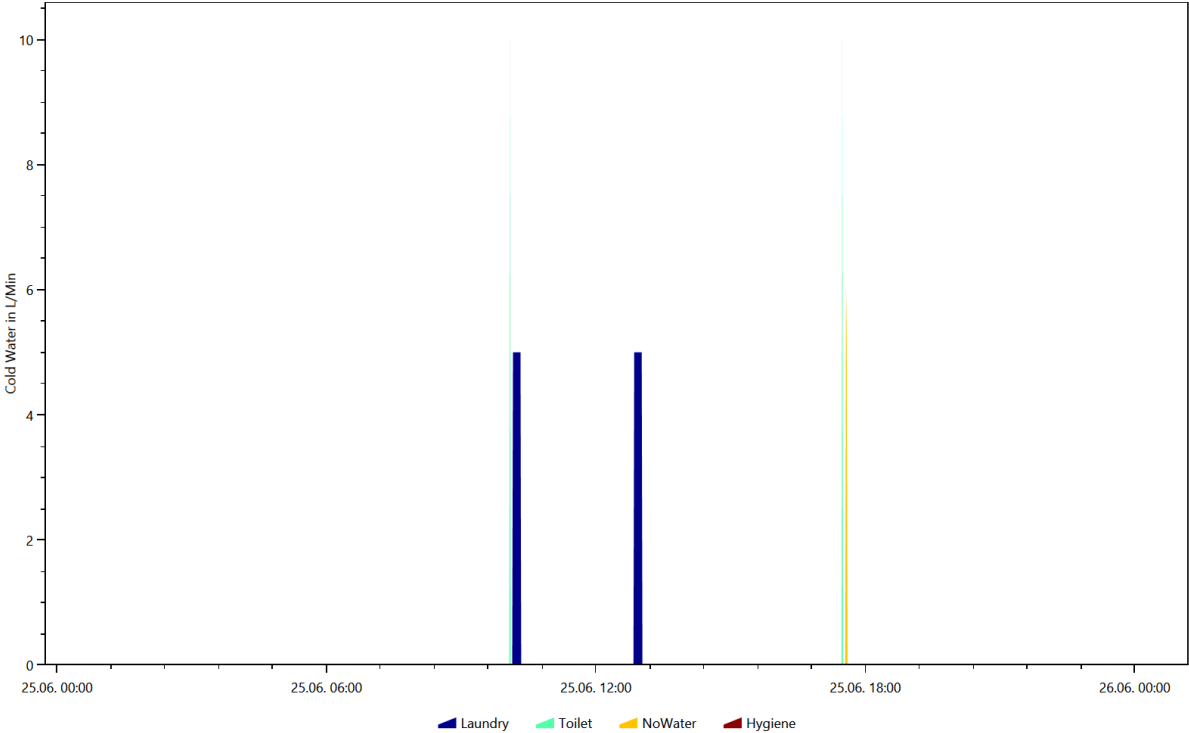
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.10



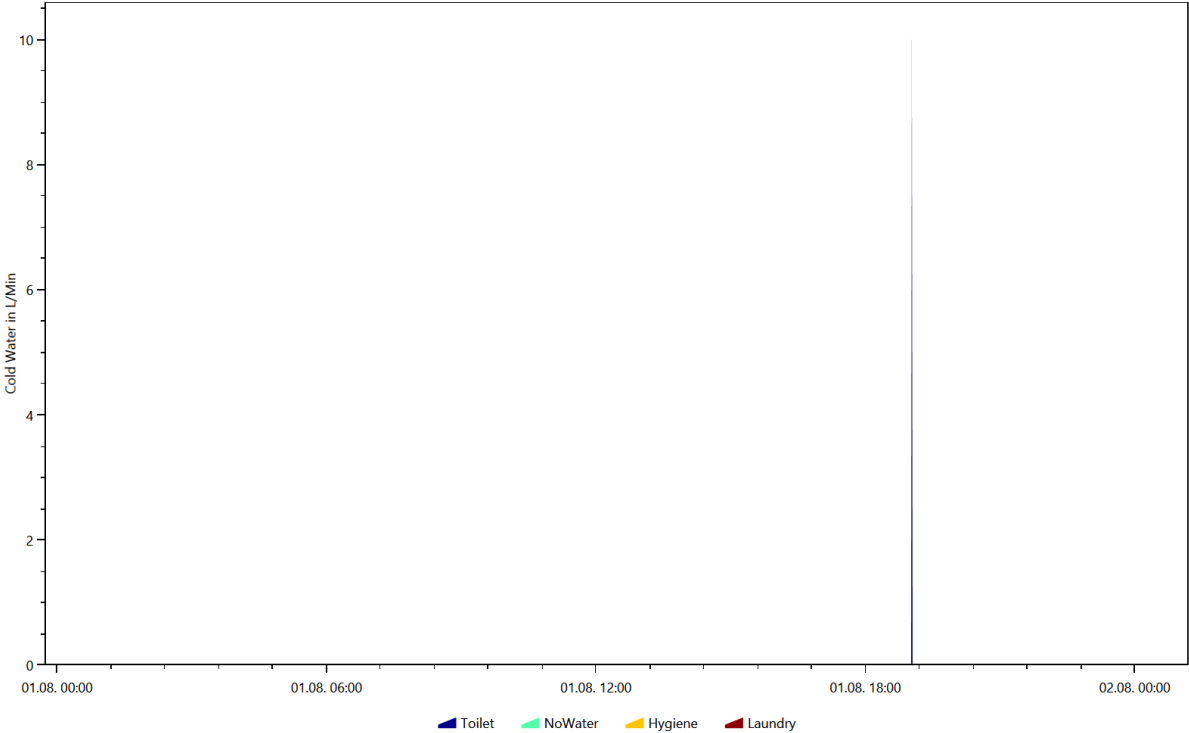
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.15



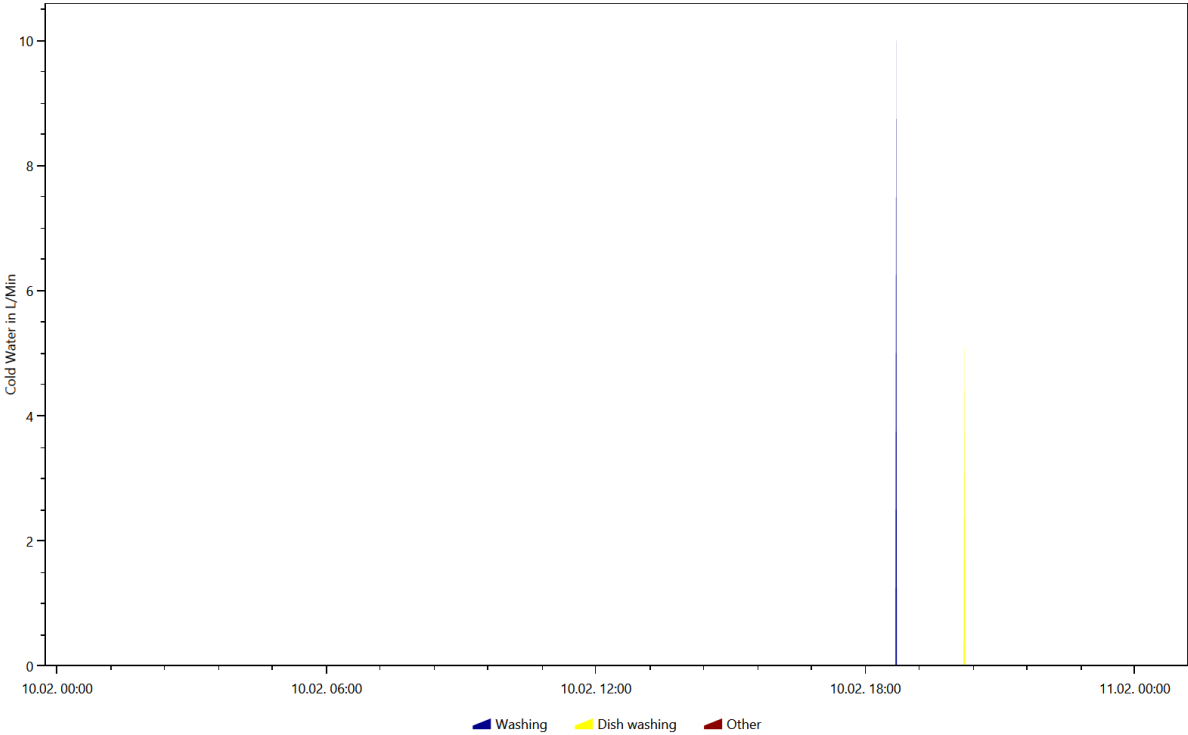
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.25



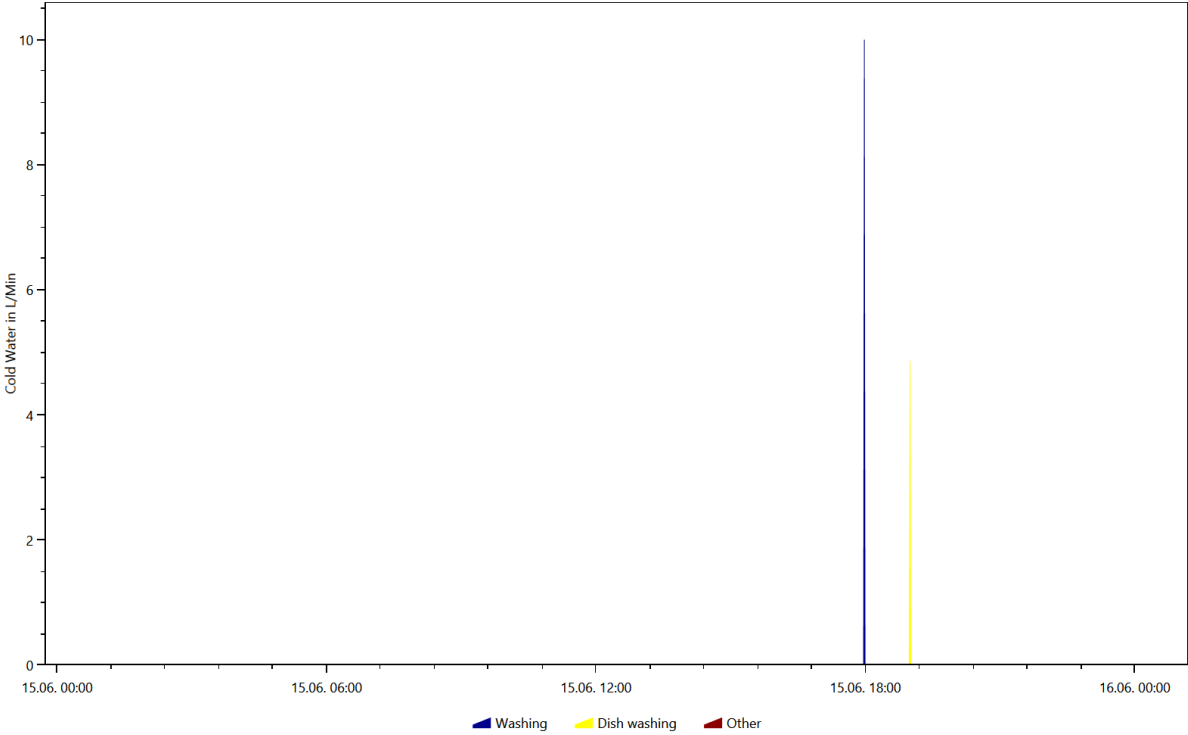
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.1



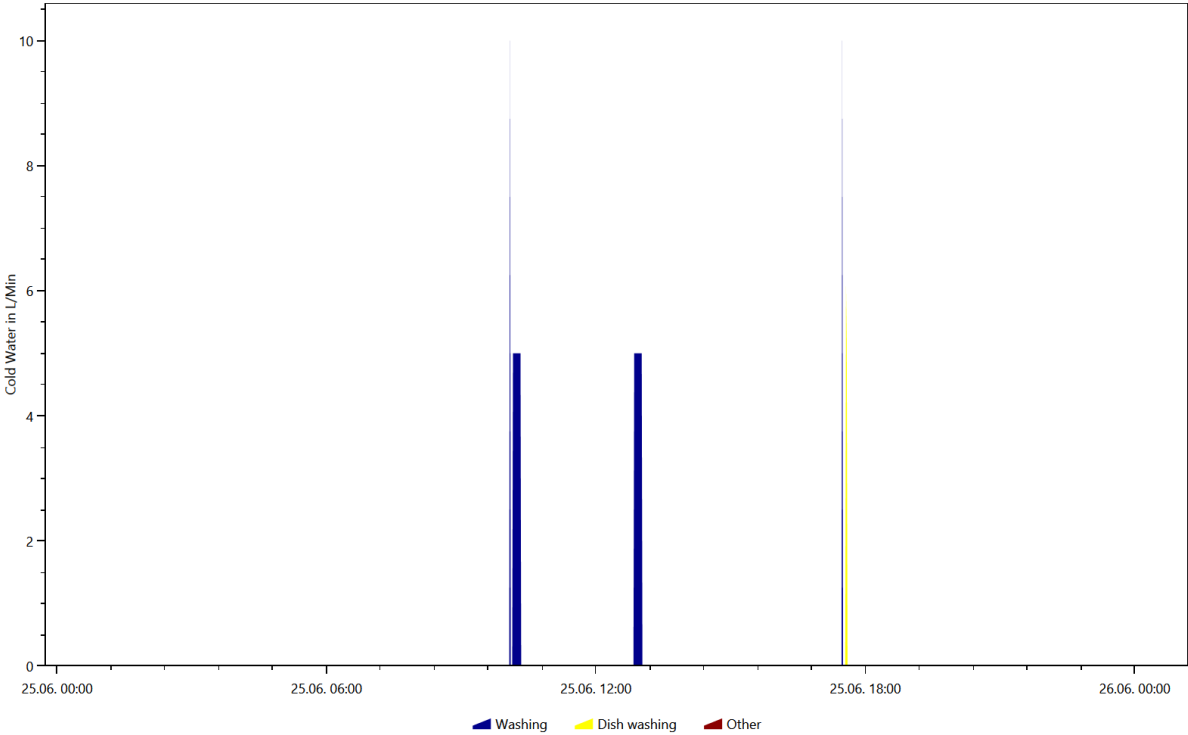
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.10



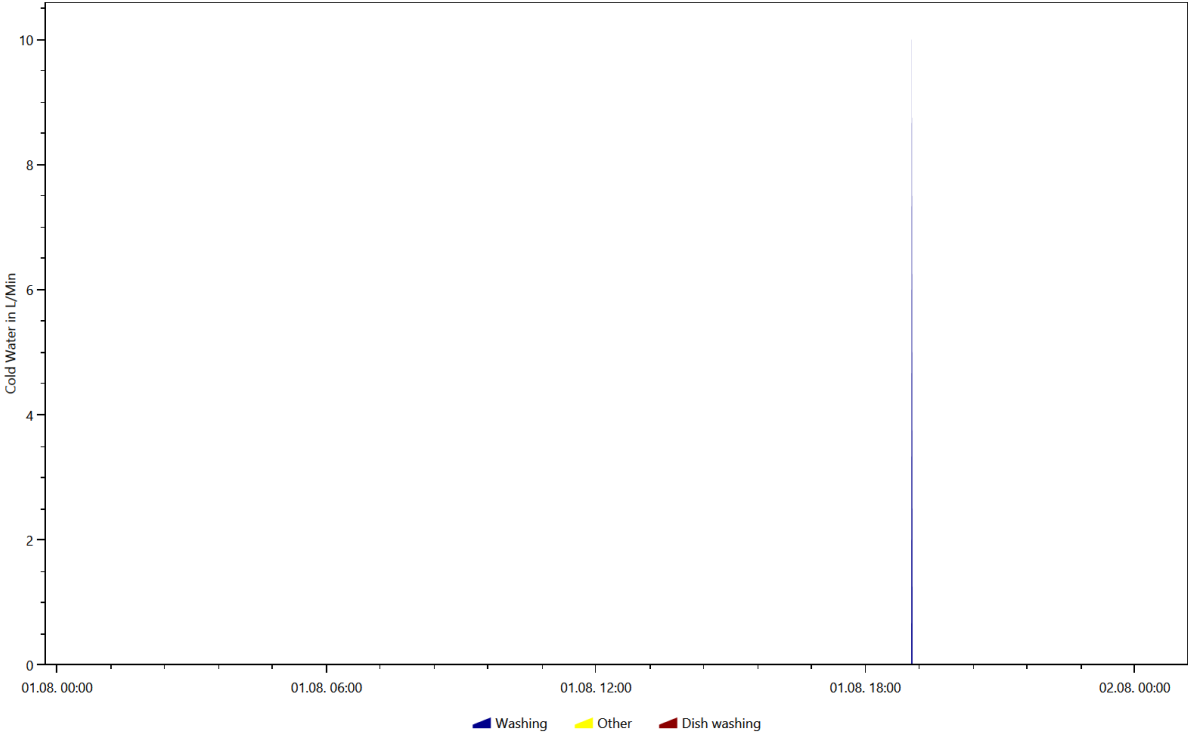
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.15



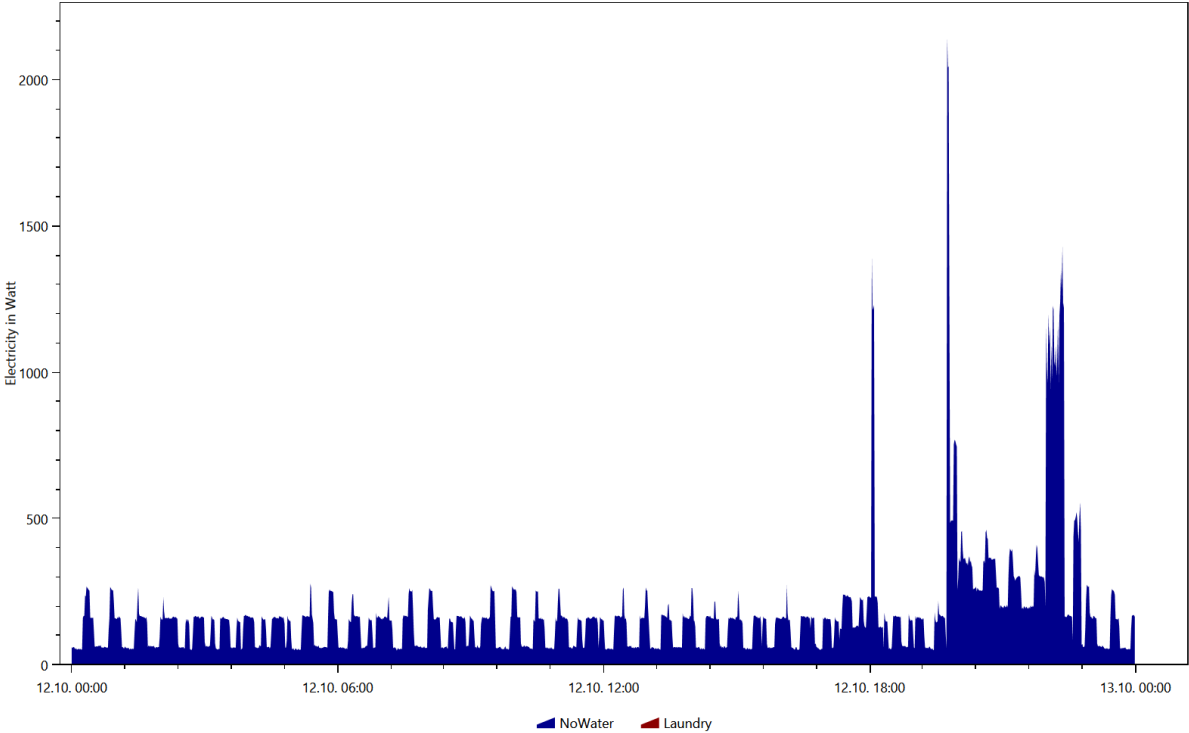
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.25



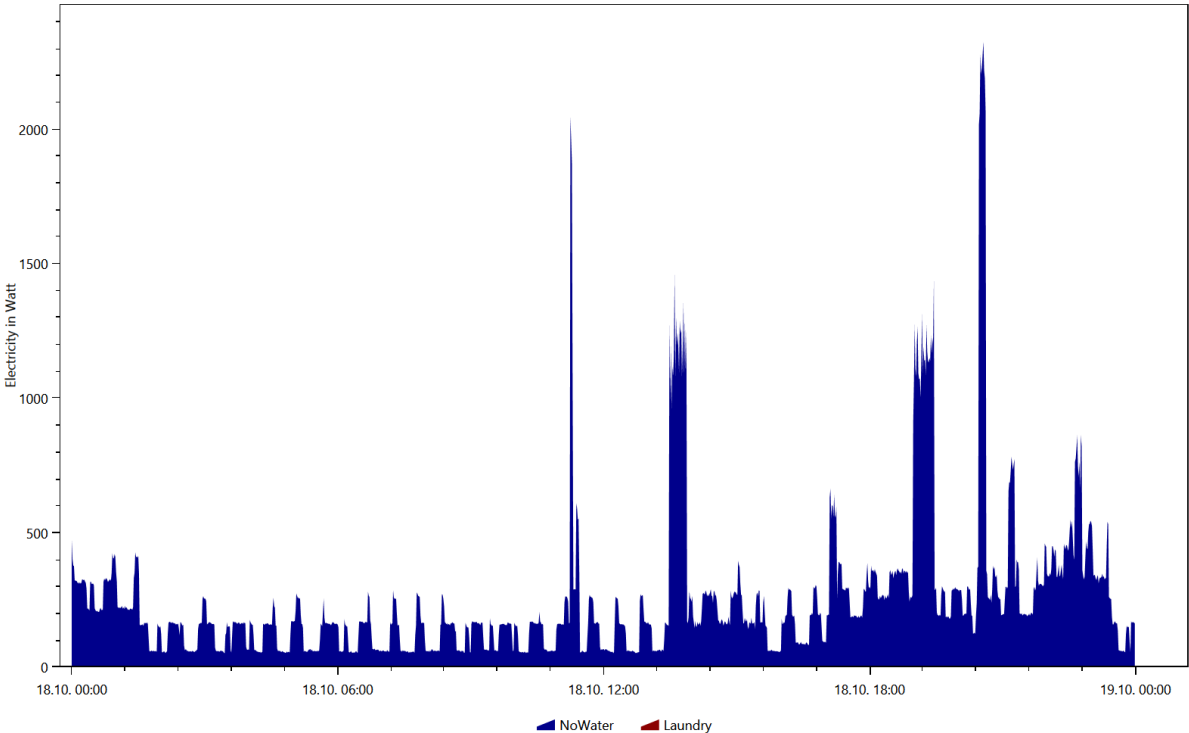
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.1



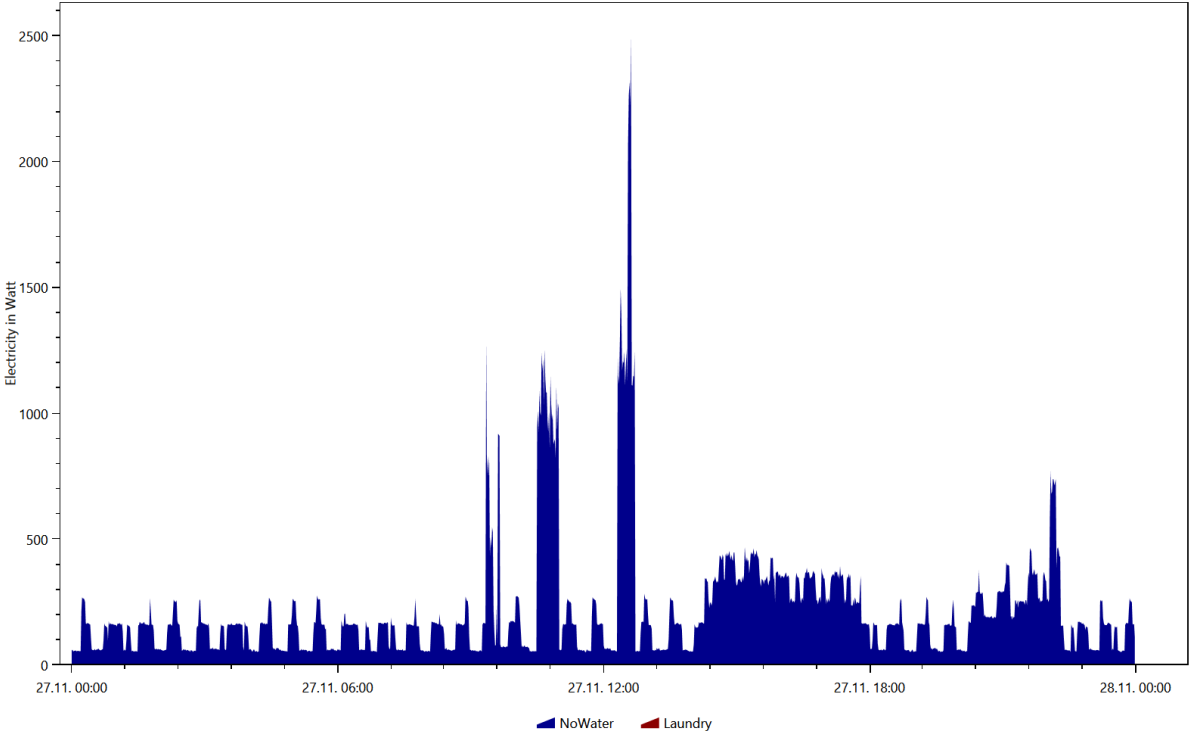
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.12



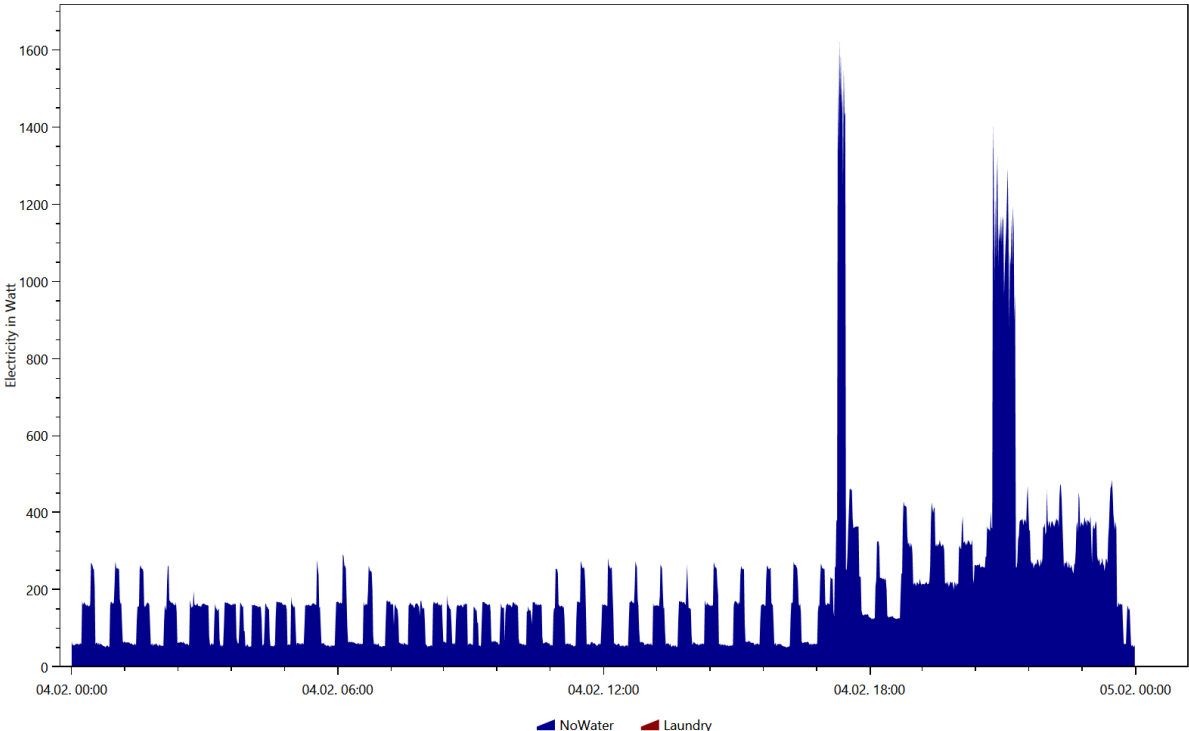
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.18



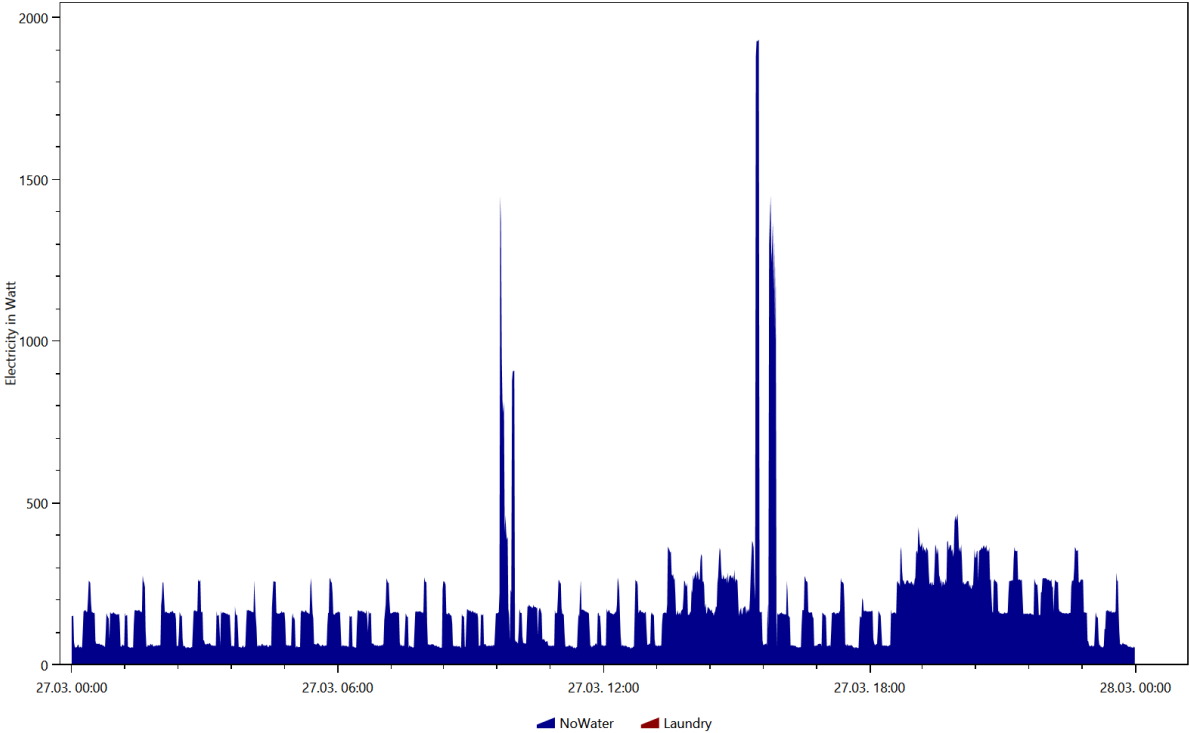
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.27



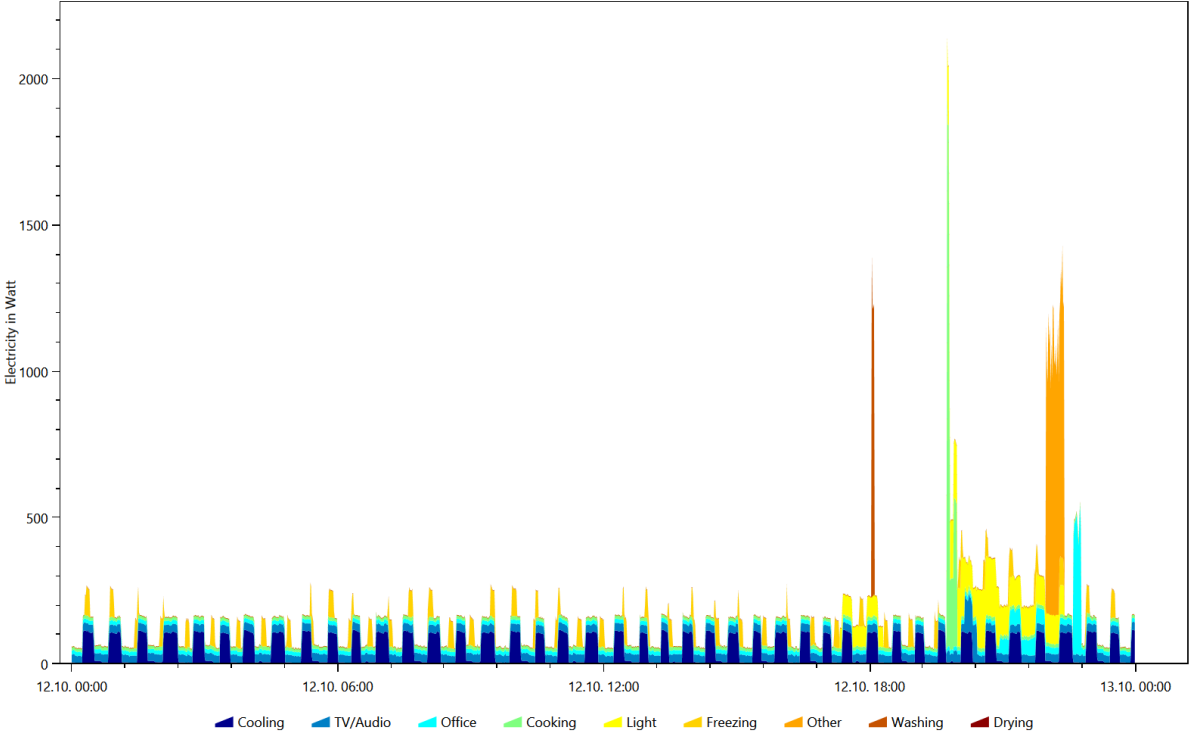
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.4



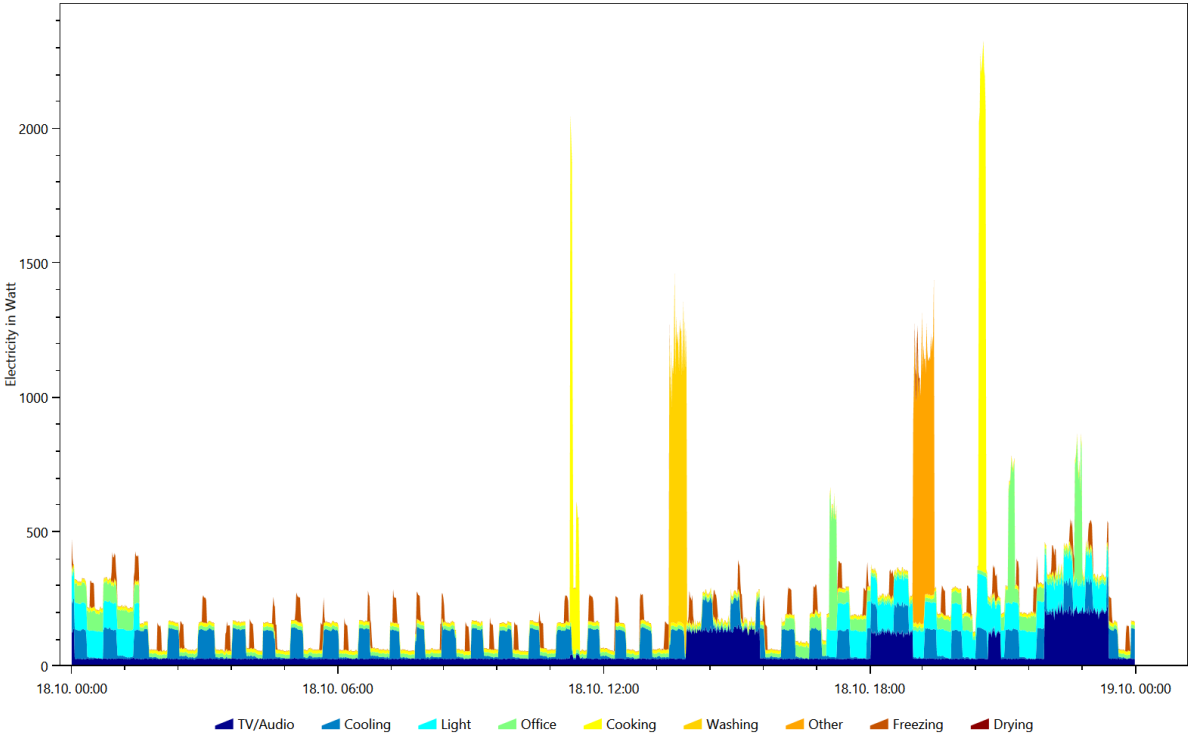
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.27



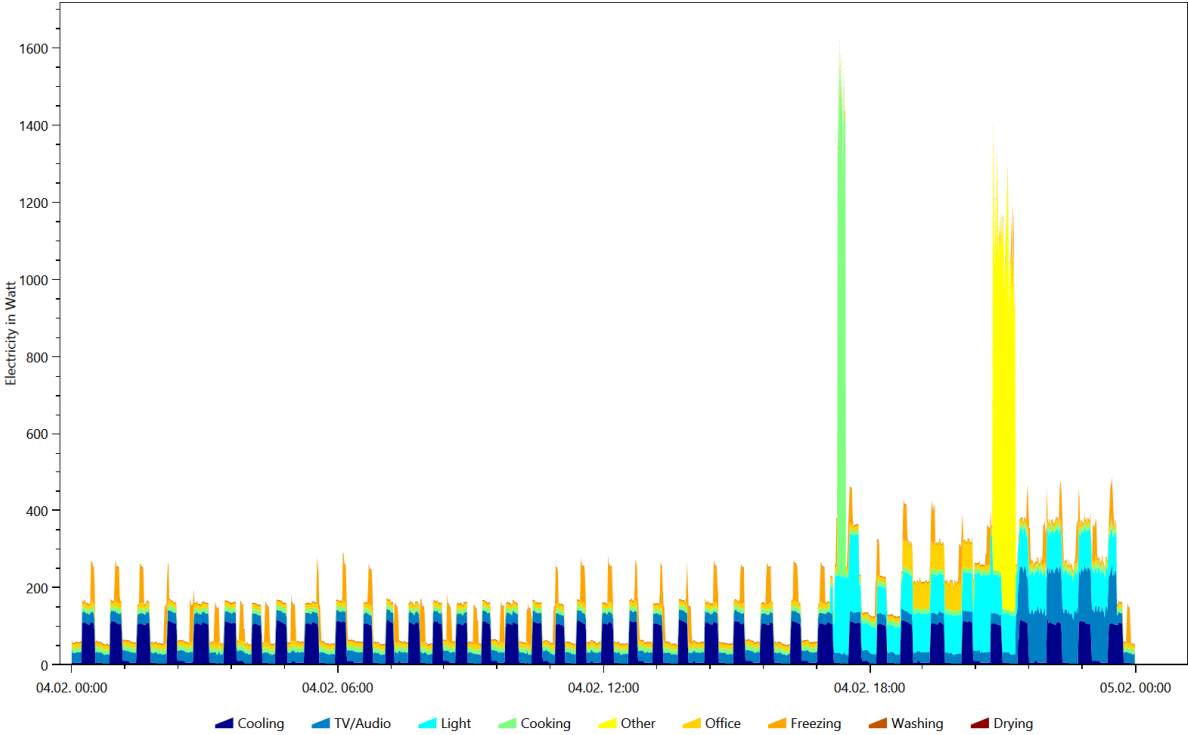
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.12



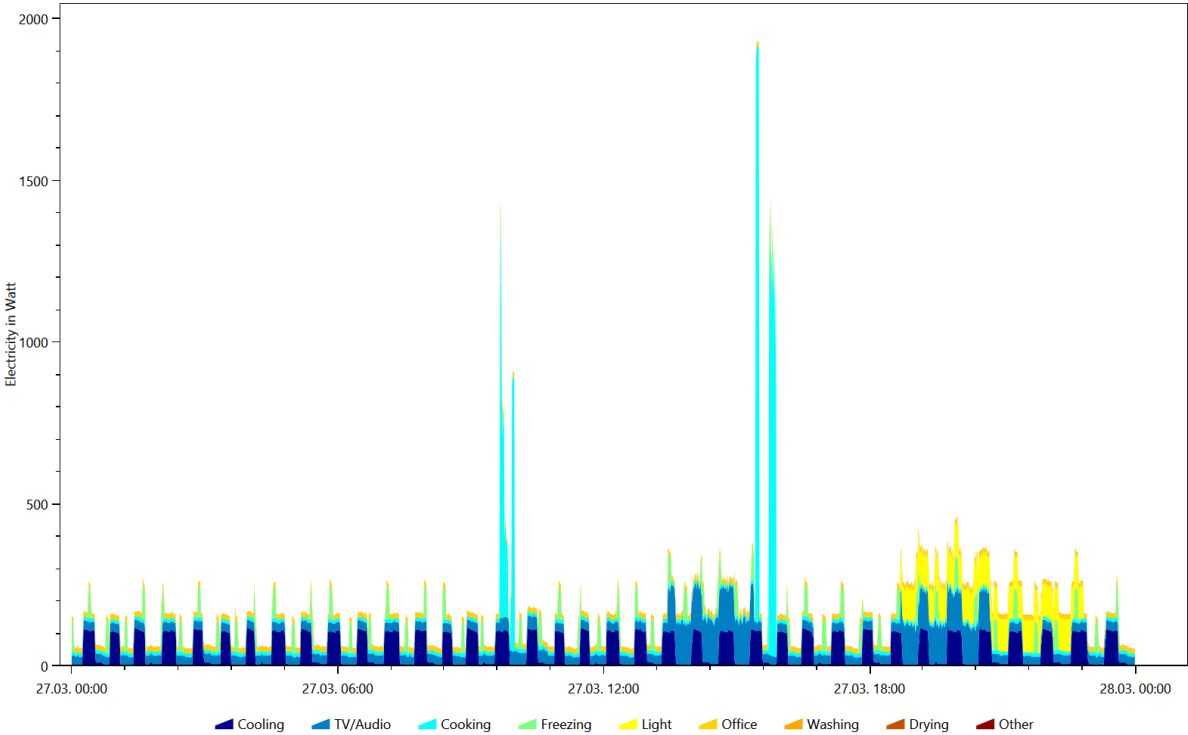
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.18



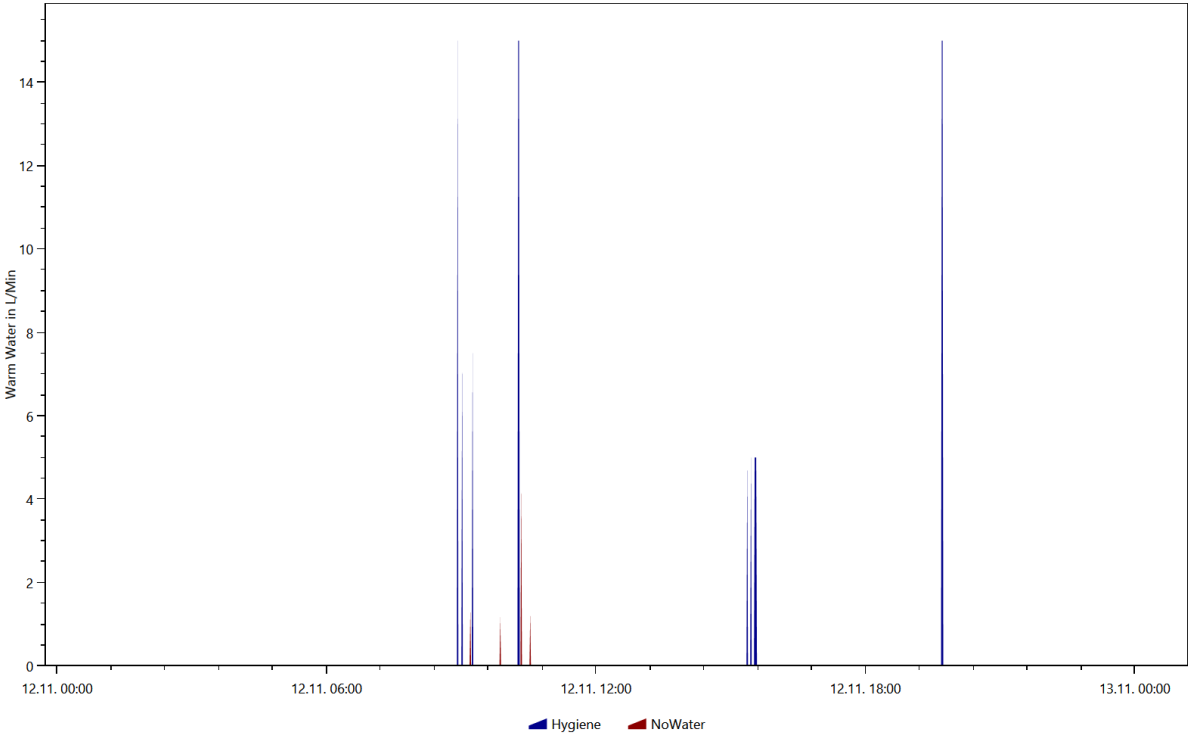
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.4



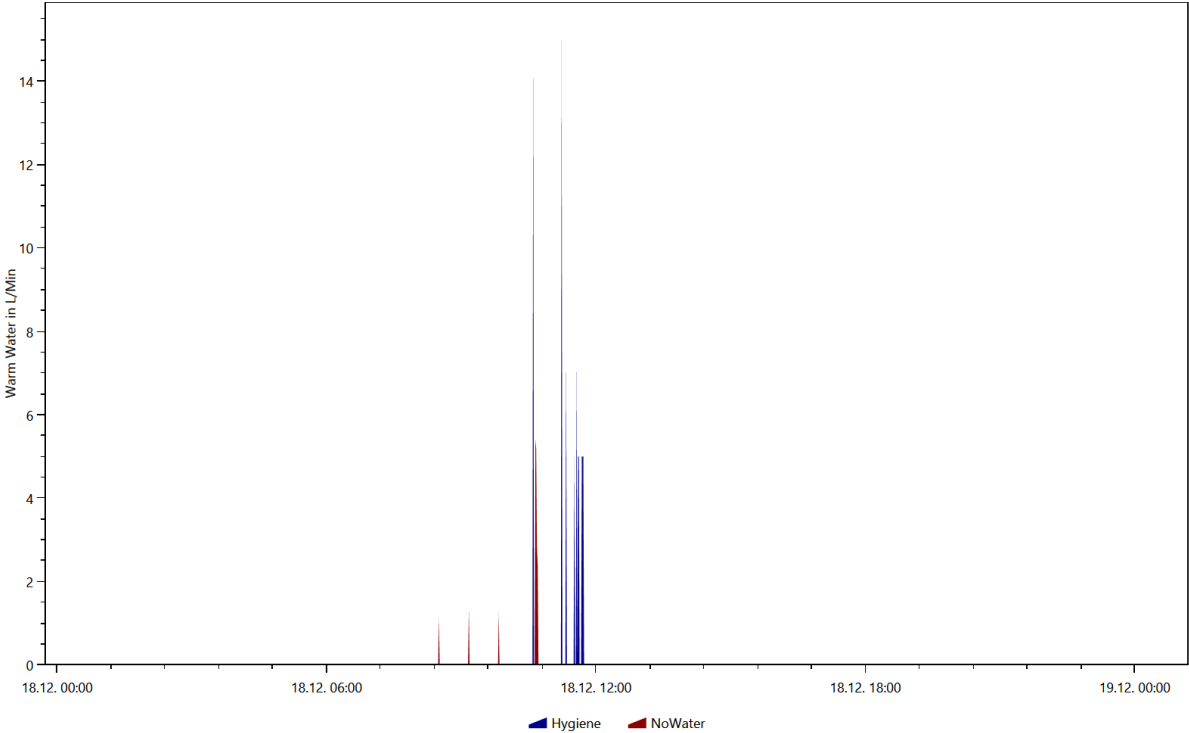
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.27



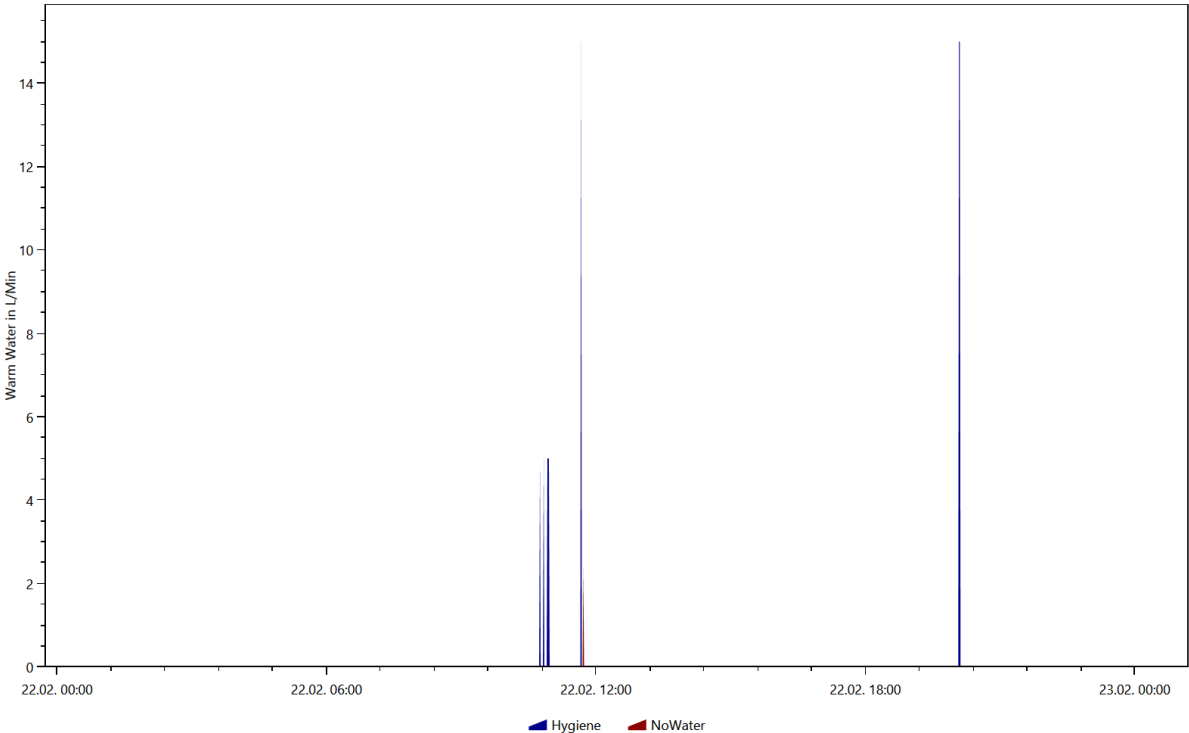
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.12



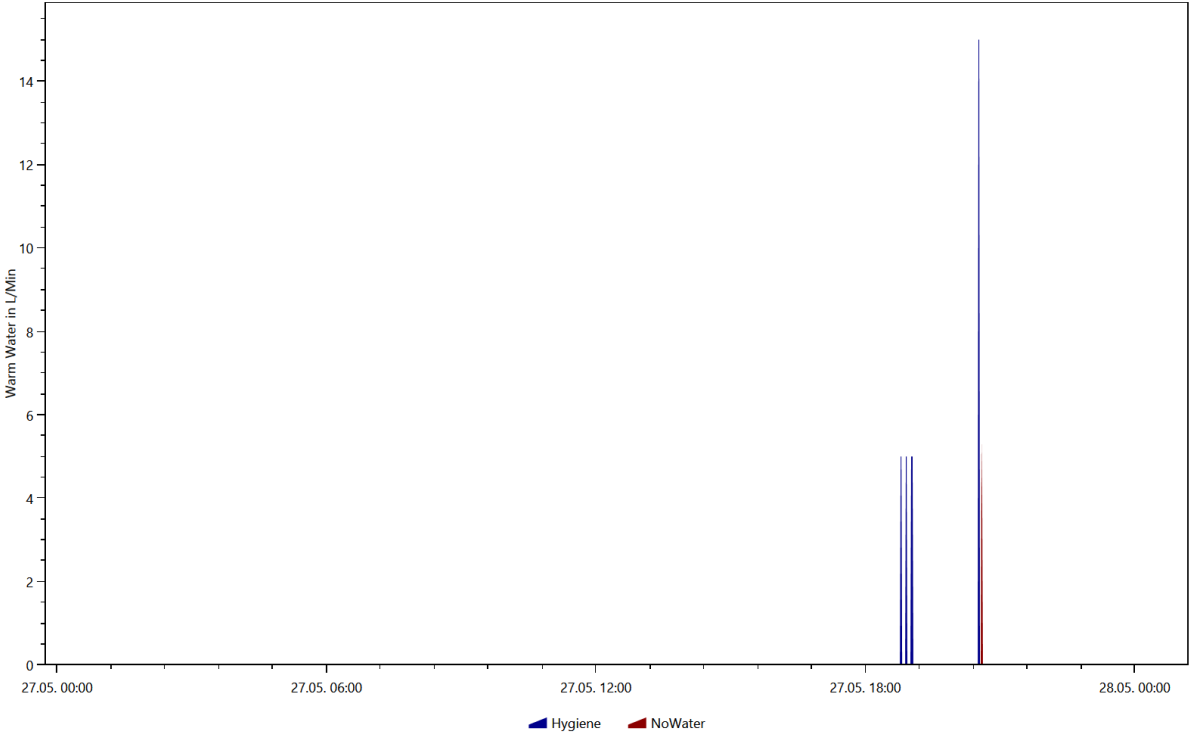
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.18



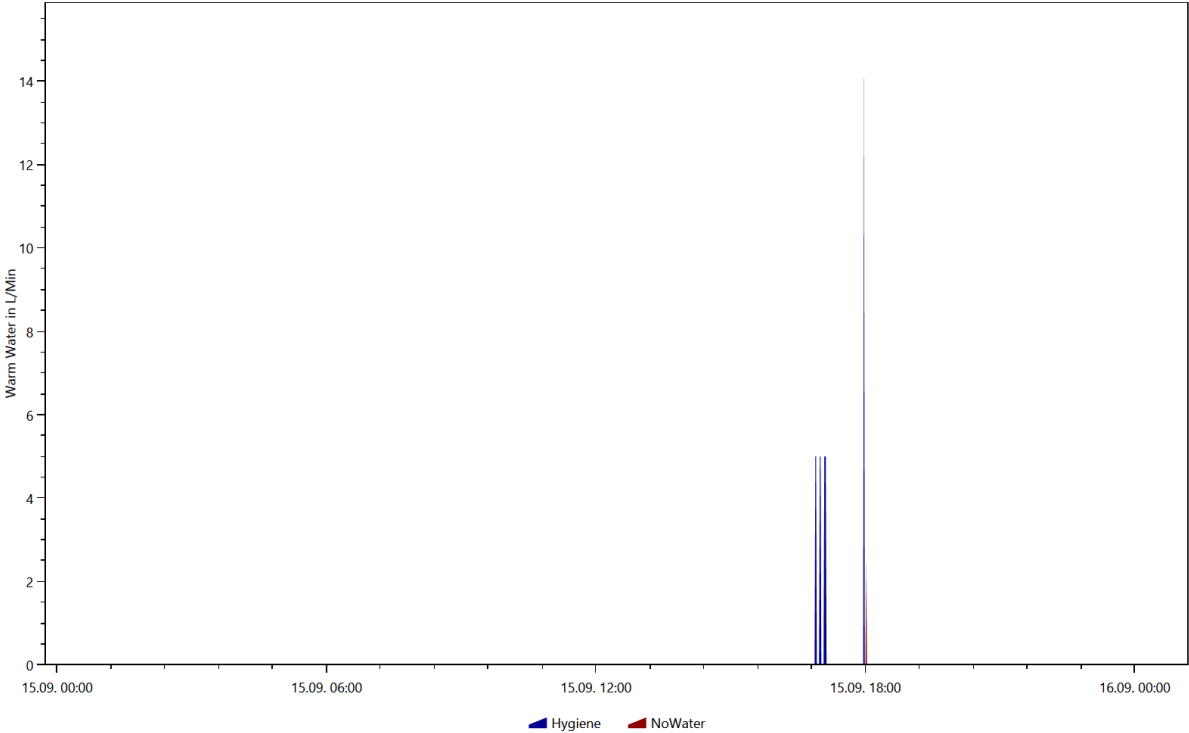
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.22



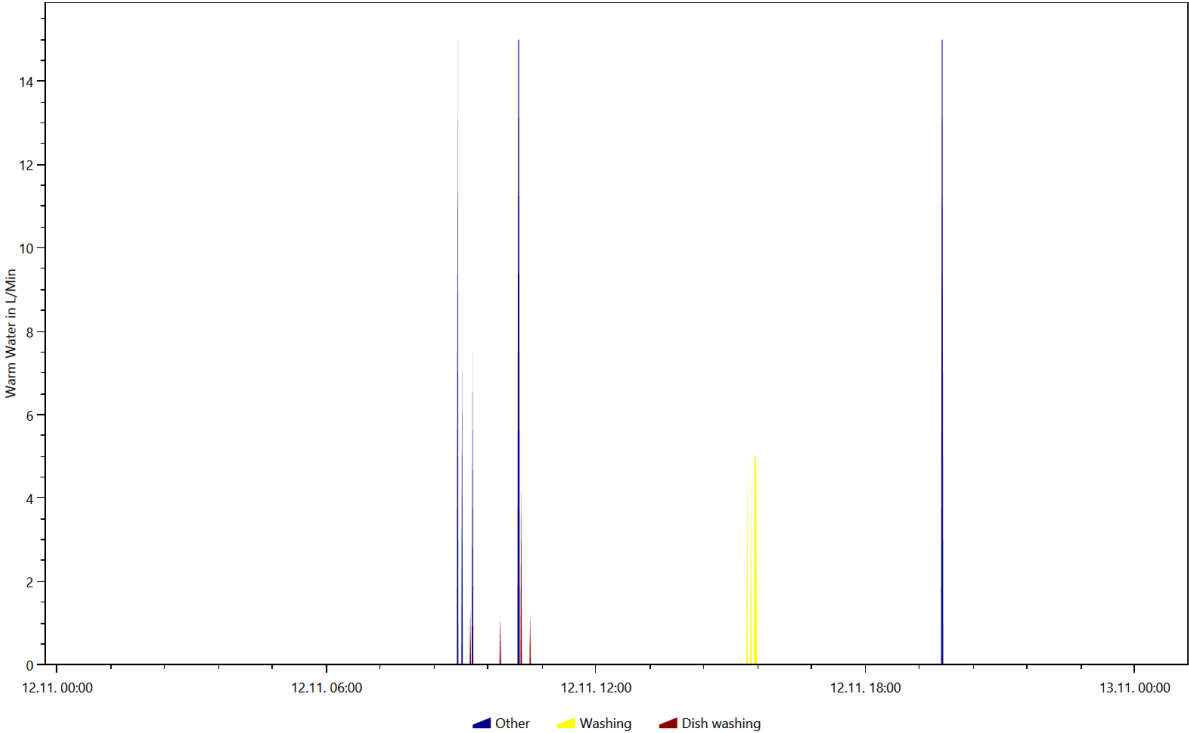
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.27



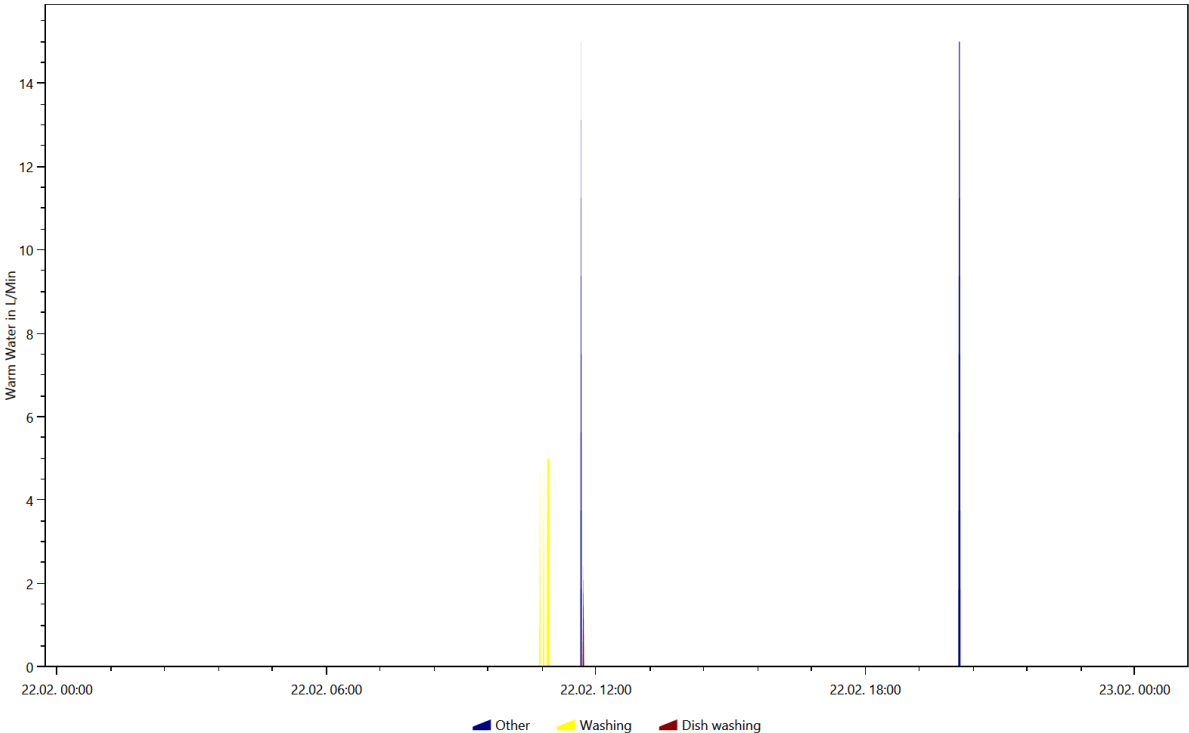
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.15



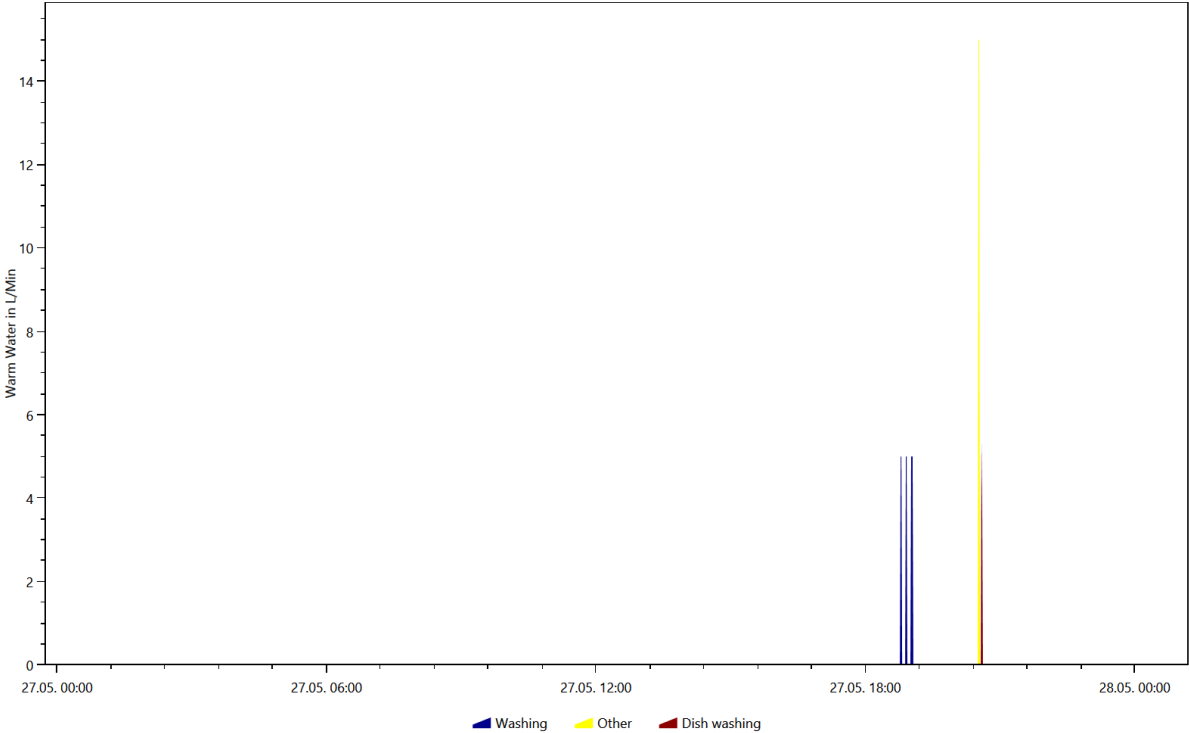
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.11.12



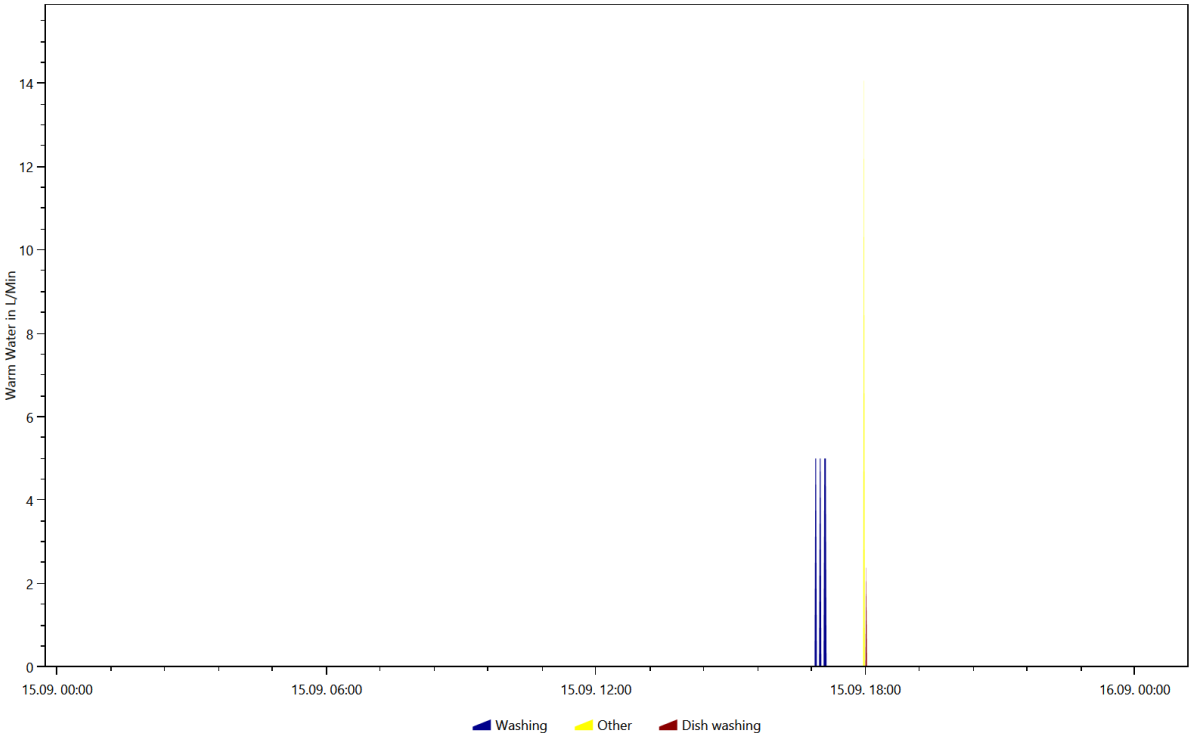
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.22



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.27



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.15

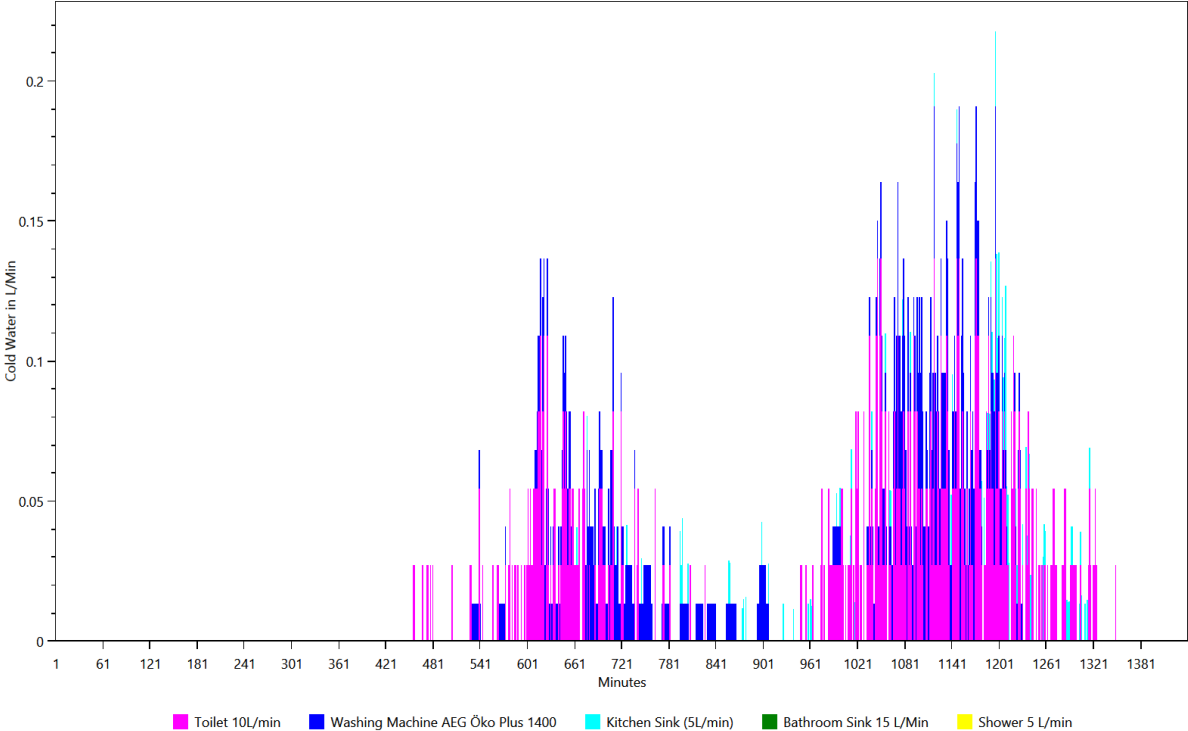


Overview of the time and power of the use per load type per device

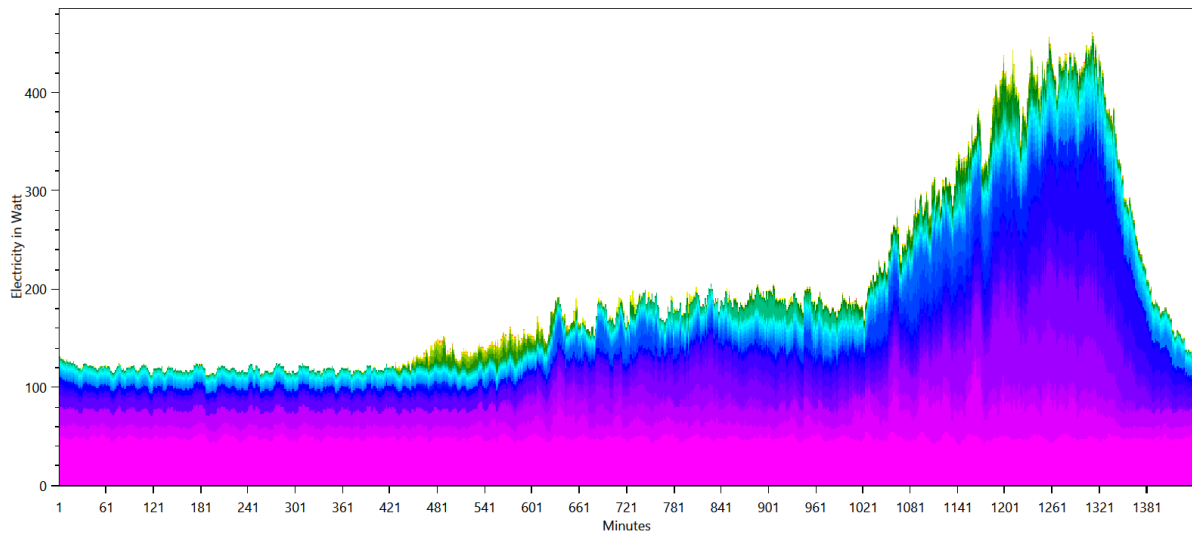
This is made from the files starting with: TimeOfUseEnergyProfiles

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

Cold Water

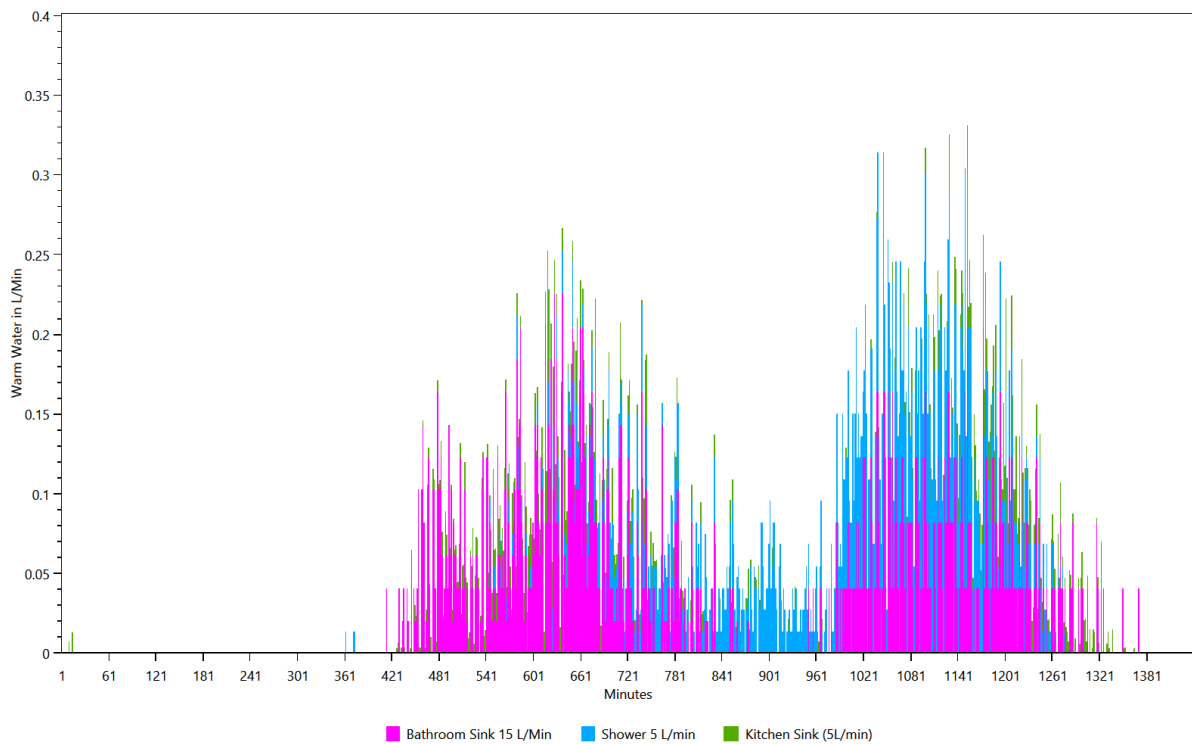


Electricity



- Fridge Liebherr bio fresh safe (2005)
- Microwave / Panasonic NN 5259
- Freezer Liebherr GTS 2262
- Christopeit Treadmill TM 2 Pro
- Dryer / Miele T 8626 WP
- Yamaha RX-V667
- TV / Philips Goya 9770 VT
- Living Room Light (100W)
- Router O2 Box 6431
- Kitchen Light (200W)
- Hair Dryer Braun Silencio 1250
- Washing Machine AEG Öko Plus 1400
- TAskalfa 180
- PC / Acer Aspire T310
- Hifi System / Sharp XL-HF300PH
- Home Cinema System / Samsung HT-D5550
- SAT Receiver / Kathrein UFS913
- PC Monitor / Fujitsu Siemens Scaleoview H19-1
- Electric Tooth Brush / Phillips HX9332
- Miele DG 1450
- Canister Vacuum Cleaner / Siemens Z6.0 VSZ61260
- Kitchen radio / AEG KRC 4323 CD
- CD/DVD Player / Phillips HDR3810/31
- Single Stove Plate
- Bathroom Light (60W)
- Toaster Salco MT 400
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove left hind - full power
- Moulinex electronic 833
- Children Room Light (100W)
- Egg Cooker / Russell Hobbs 14048-56 Stylo
- Extractor Hood / Miele DA 429-4
- Electric Kettle / Petra WK288 1.5L
- Epson Stylus S20
- Nespresso Coffee Machine, Single Cup
- Bathroom Mirror Light 10 W (LED)
- External Harddrive lomega 3.5"
- Food Slicer / DOMO Schneidemaschine DO521S
- Bedroom Light (20W)
- Canon CanoScan LIDE 110
- LED Lamp Globe E 14 Ambient 3W matt

Warm Water



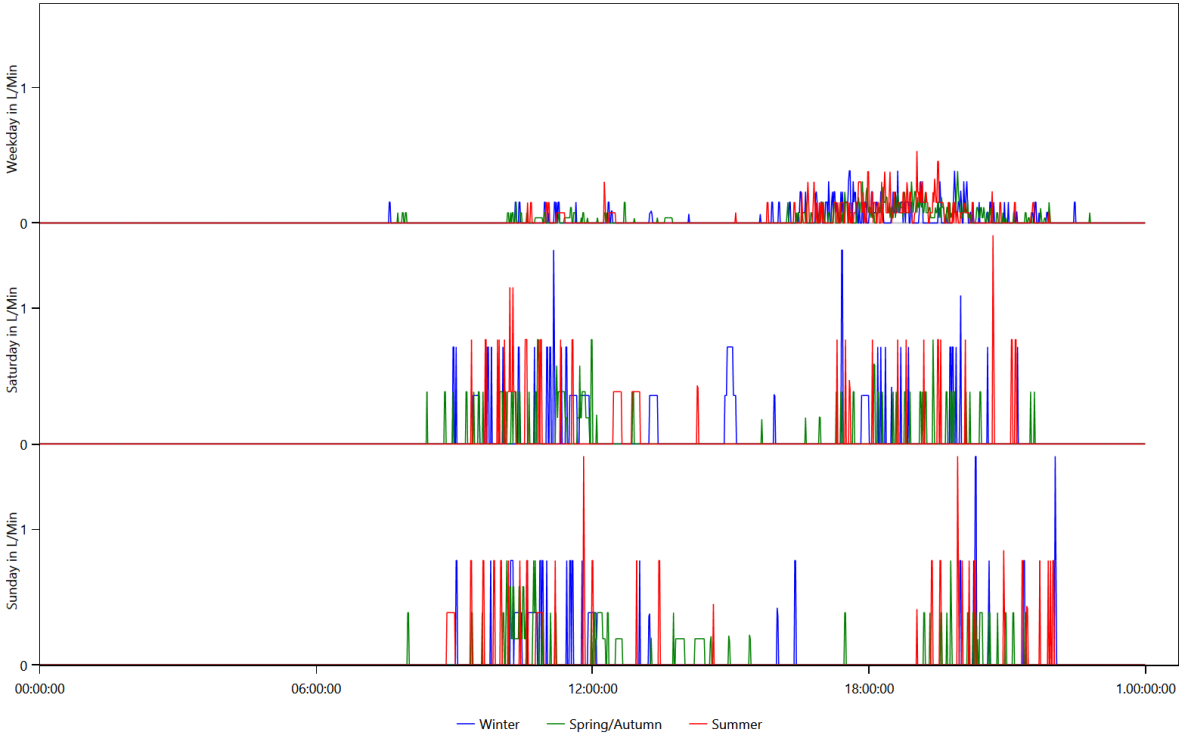
- Bathroom Sink 15 L/Min
- Shower 5 L/min
- Kitchen Sink (5L/min)

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

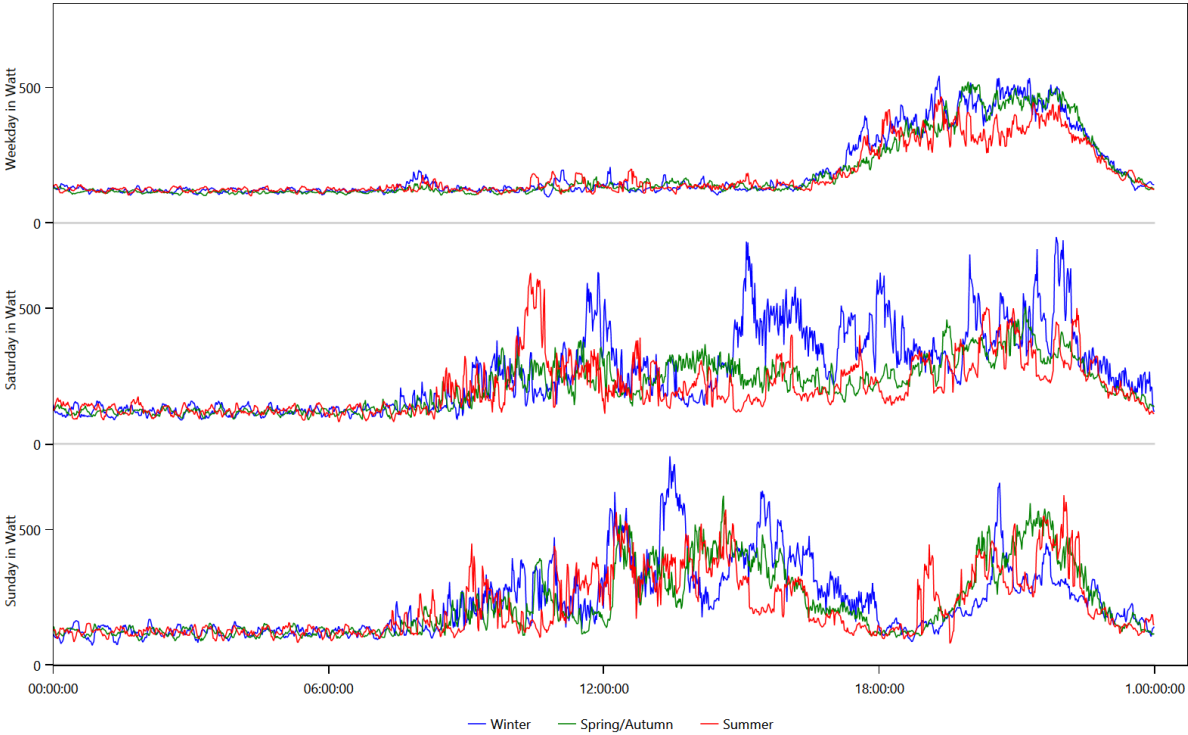
This is made from the files starting with: WeekdayProfiles

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

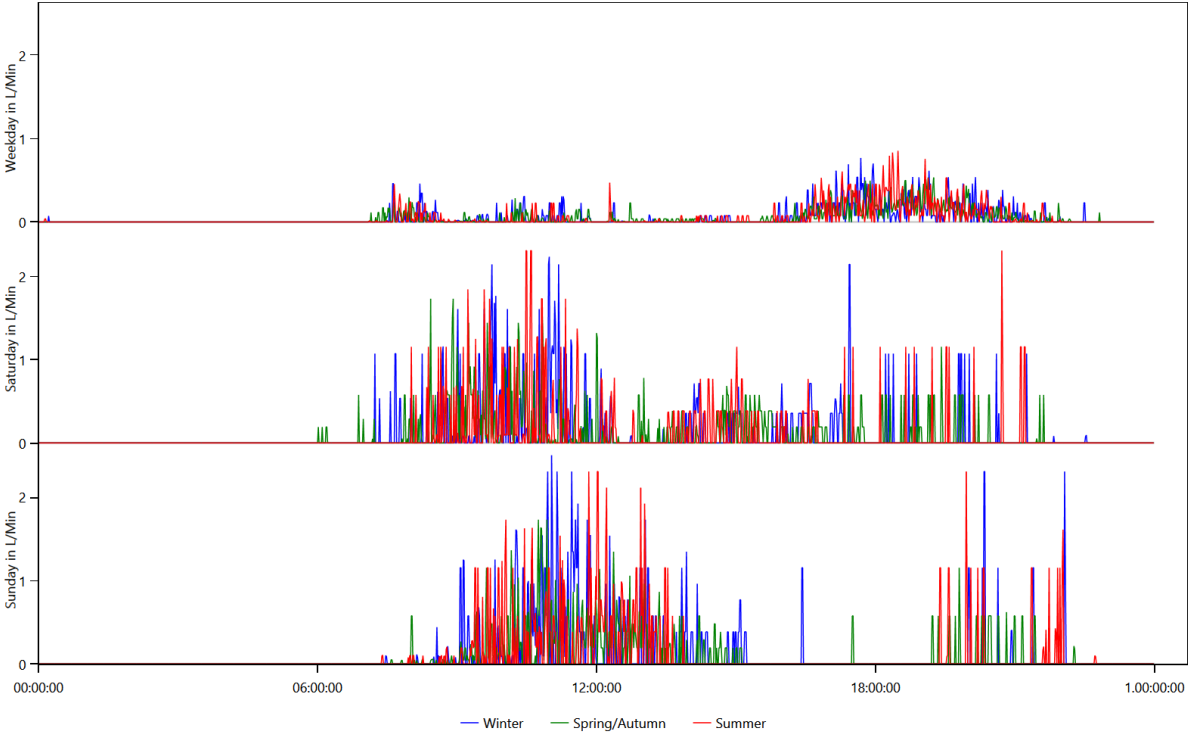
Cold Water



Electricity



Warm Water

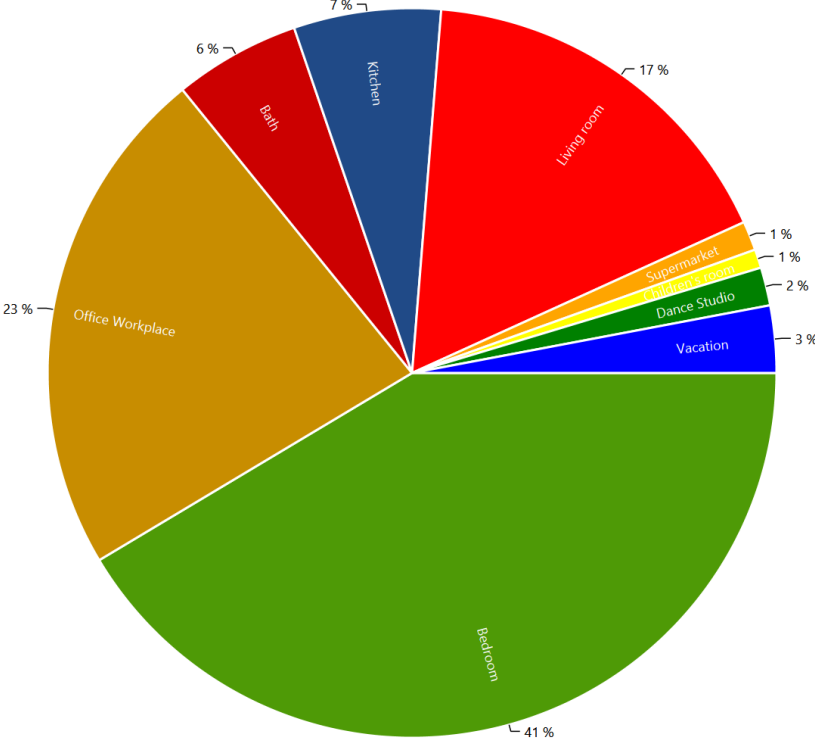


Location Distribution per Person

This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

CHR09 Lilly (34 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

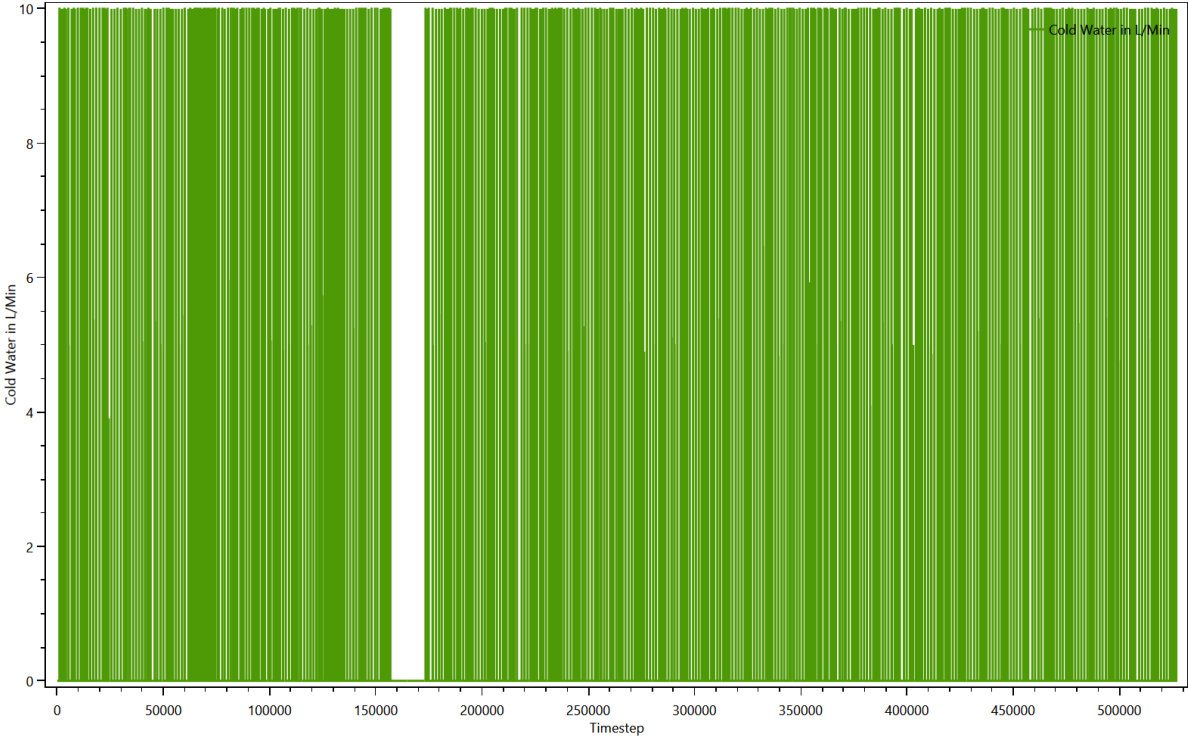
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR09 Lilly (34/Female);sleep bed 01 (10 h);sleep;False;
519;01.01.2016 08:39;CHR09 Lilly (34/Female);work at the office from 8:00 (9 h);work;False;
1060;01.01.2016 17:40;CHR09 Lilly (34/Female);go to the toilet;hygiene;False;
1066;01.01.2016 17:46;CHR09 Lilly (34/Female);take a shower with hair washing (women) (5 min hair
drying);hygiene;False;
1118;01.01.2016 18:38;CHR09 Lilly (34/Female);microwave frozen meal and eat it;cooking;False;
1148;01.01.2016 19:08;CHR09 Lilly (34/Female);exercise for 30 min on the treadmill;sports;False;
1180;01.01.2016 19:40;CHR09 Lilly (34/Female);wash 1 dishes by hand;cleaning;False;
1206;01.01.2016 20:06;CHR09 Lilly (34/Female);watch a movie for 2 h with home cinema system;Passive
Entertainment (TV etc.);False;
1318;01.01.2016 21:58;CHR09 Lilly (34/Female);use the computer (1 h);Active Entertainment (Computer,
Internet etc.);False;
1375;01.01.2016 22:55;CHR09 Lilly (34/Female);sleep bed 01 (10 h);sleep;False;
1935;02.01.2016 08:15;CHR09 Lilly (34/Female);get ready in the morning (women);hygiene;False;
1955;02.01.2016 08:35;CHR09 Lilly (34/Female);eat breakfast (1 h);cooking;False;
2028;02.01.2016 09:48;CHR09 Lilly (34/Female);go to the toilet;hygiene;False;
2033;02.01.2016 09:53;CHR09 Lilly (34/Female);go shopping for food in the supermarket (1.5
h);shopping;False;
2126;02.01.2016 11:26;CHR09 Lilly (34/Female);take a nap;sleep;False;
2192;02.01.2016 12:32;CHR09 Lilly (34/Female);use the computer with external HD (1 h);Active Entertainment
(Computer, Internet etc.);False;
2246;02.01.2016 13:26;CHR09 Lilly (34/Female);wash 1 dishes by hand;cleaning;False;
2275;02.01.2016 13:55;CHR09 Lilly (34/Female);take a shower without hair washing (women);hygiene;False;
2342;02.01.2016 15:02;CHR09 Lilly (34/Female);watch TV (1 h);Passive Entertainment (TV etc.);False;
```

Sum Profiles

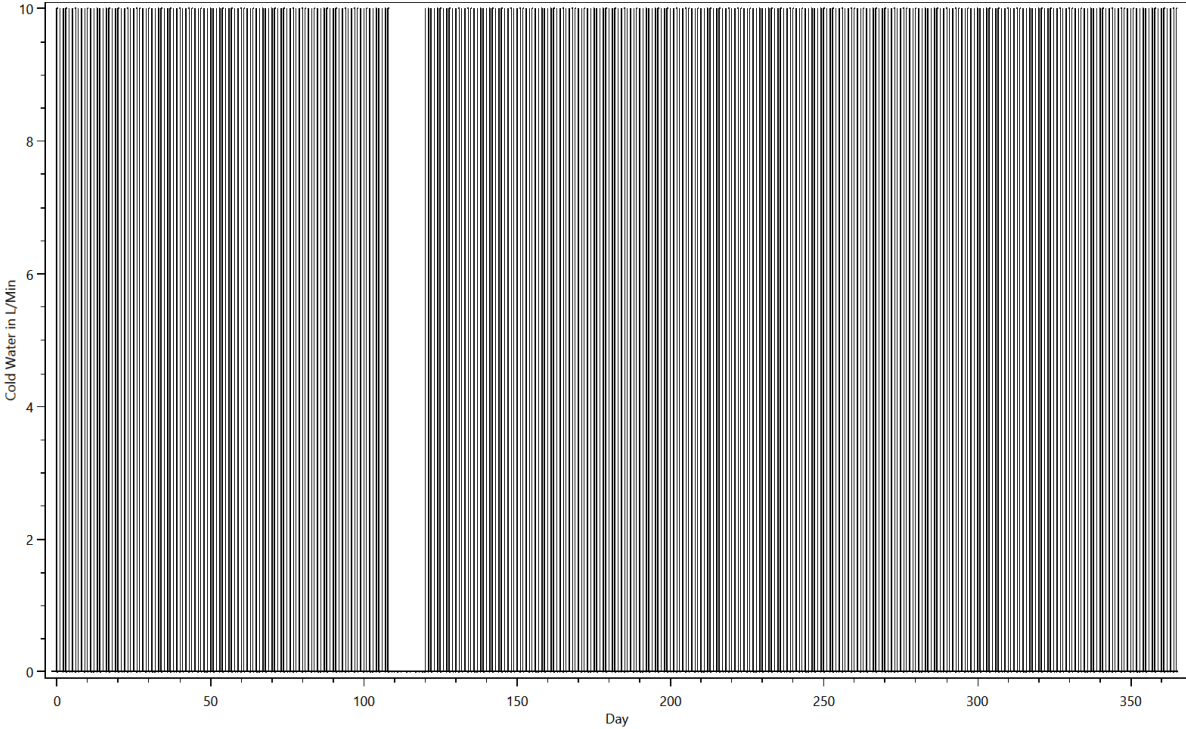
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

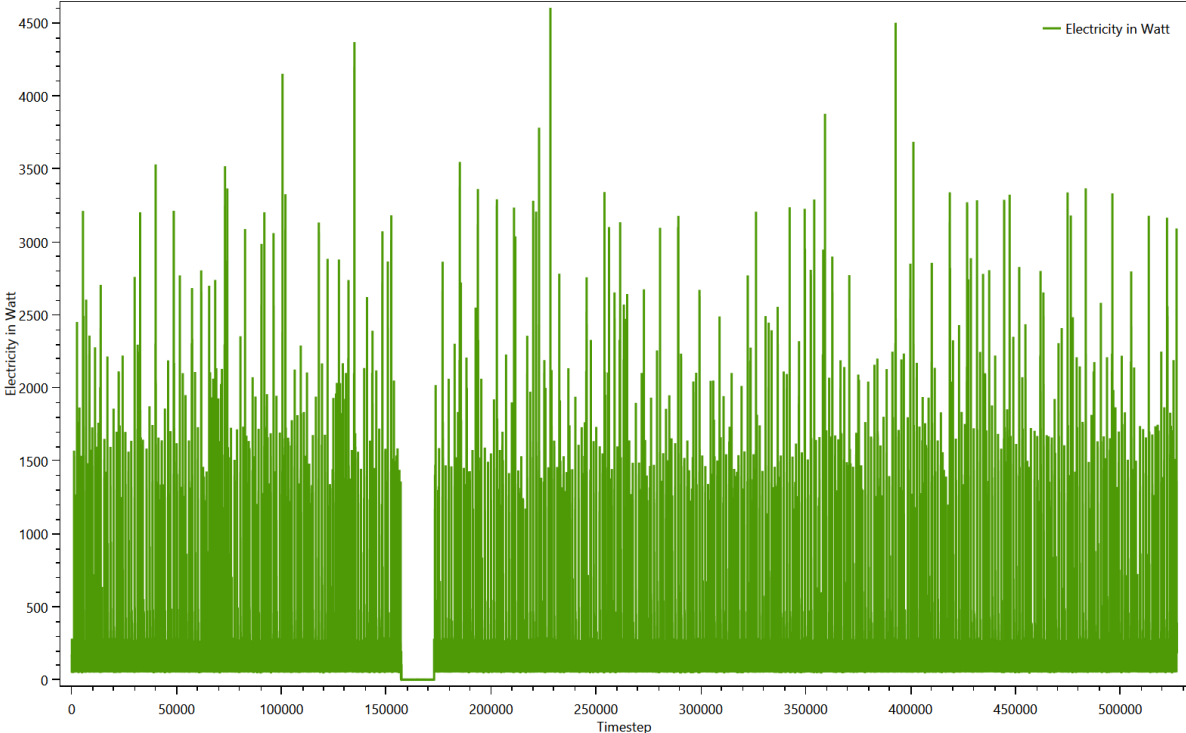
Summed up curve for Cold Water from SumProfiles.Cold Water.png



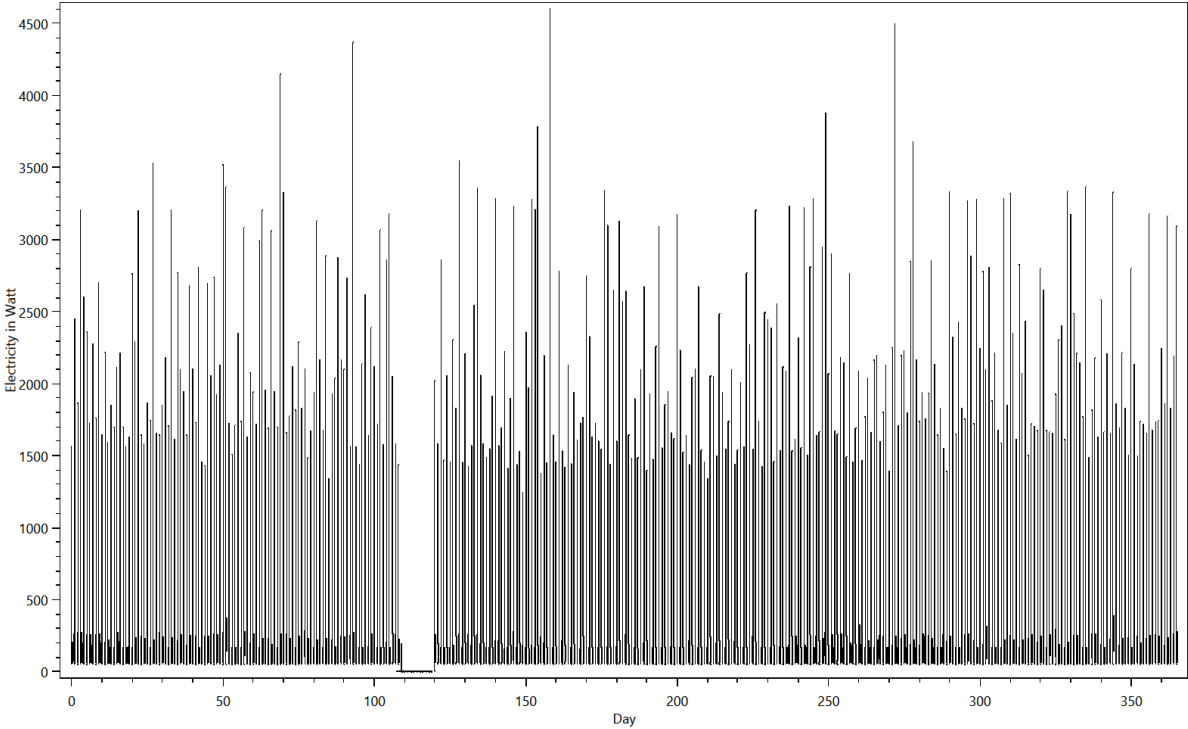
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



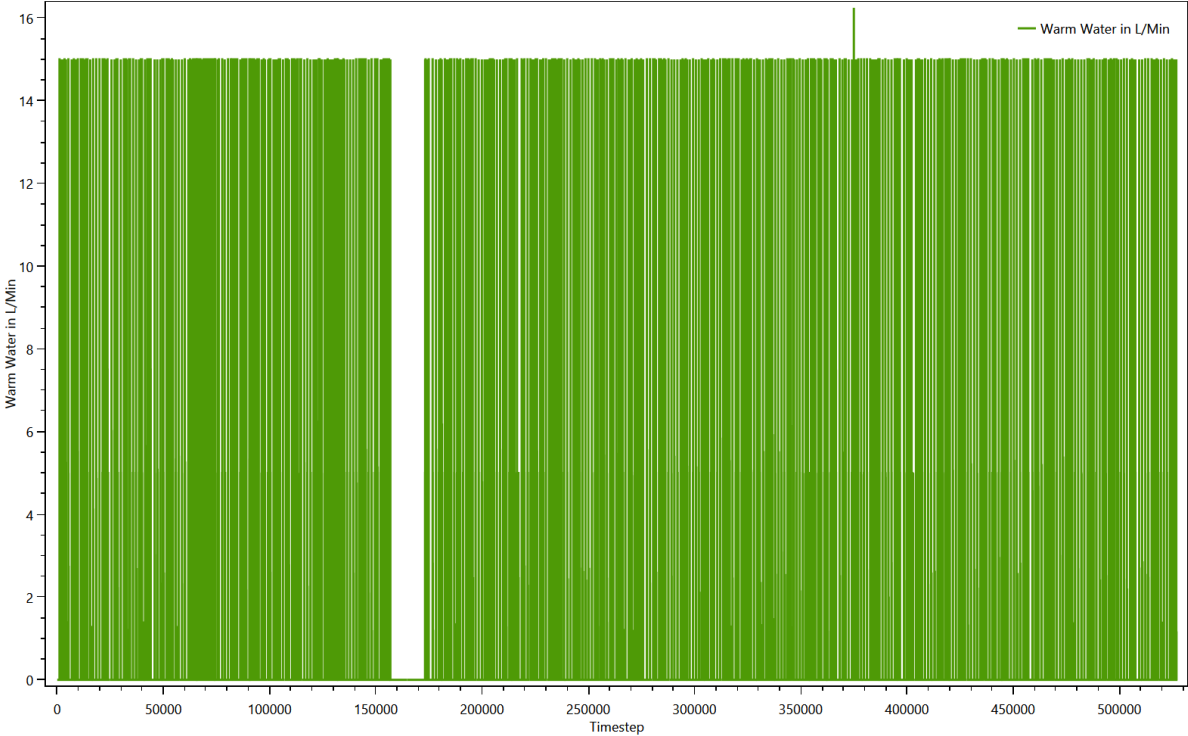
Summed up curve for Electricity from SumProfiles.Electricity.png



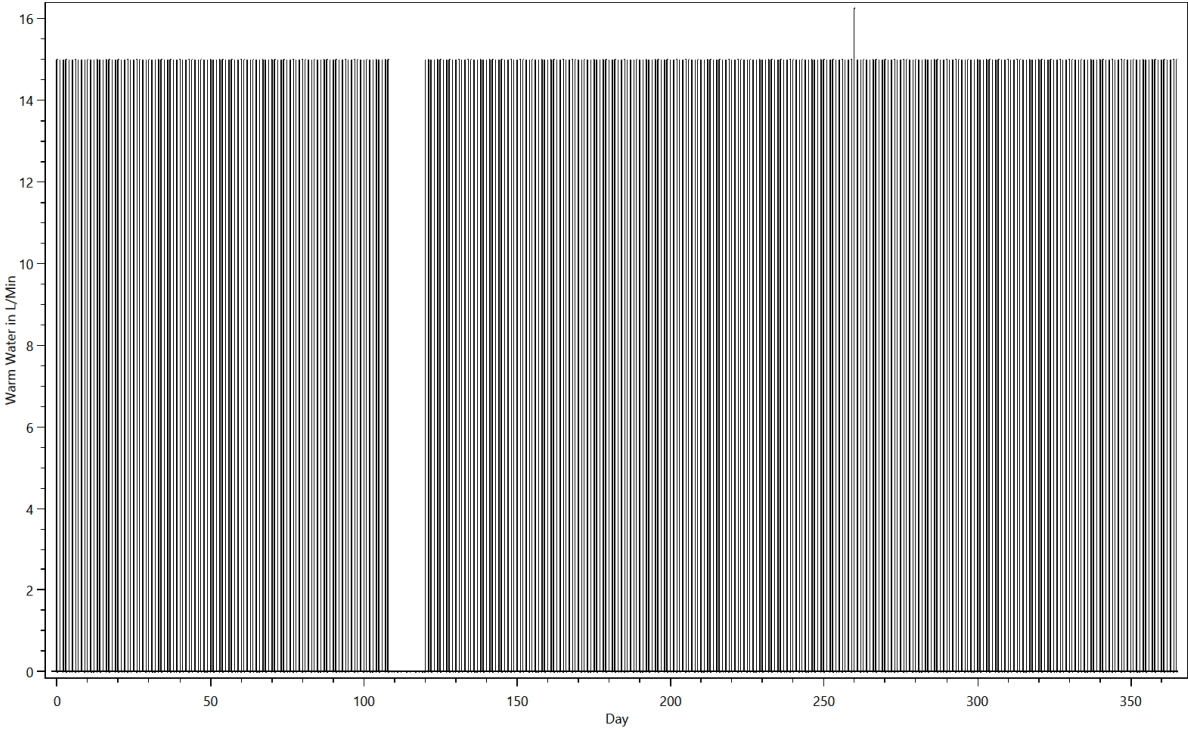
Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR09 Single woman, 30 - 64 years, with work 0.txt

Device;Load Type;Profile;Number of Activations

Bathroom Light (60W);Electricity;Bath - light [Synthetic for Light Device];377

Bathroom Mirror Light 10 W (LED);Electricity;Bath - light [Synthetic for Light Device];377

Bathroom Sink 15 L/Min;Warm Water;0 h 01 min 100% [Synthetic];612

Bathroom Sink 15 L/Min;Warm Water;0 h 01 min 50% [Synthetic];262

Bed 1;None;10 h 0 min 100% [Synthetic];357

Bedroom Light (20W);Electricity;Bedroom - light [Synthetic for Light Device];4

CD/DVD Player / Phillips HDR3810/31;Electricity;01 h 30 min 100% [Synthetic];137

CD/DVD Player / Phillips HDR3810/31;Electricity;02 h 0 min 100% [Synthetic];30

CD/DVD Player / Phillips HDR3810/31;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8525

Canister Vacuum Cleaner / Siemens Z6.0 VSZ61260;Electricity;0 h 30 min 100% [Synthetic];23

Canon CanoScan LIDE 110;Electricity;0 h 10 min 100% [Synthetic];71

Children Room Light (100W);Electricity;Children's room - light [Synthetic for Light Device];44

Christopeit Treadmill TM 2 Pro;Electricity;0 h 30 min 100% [Synthetic];242

Cleanser;None;01 h 0 min 100% [Synthetic];50

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

Couch;None;01 h 0 min 100% [Synthetic];133

Couch;None;02 h 0 min 100% [Synthetic];17

Dancing Shoes;None;03 h 0 min 100 % [Synthetic];49

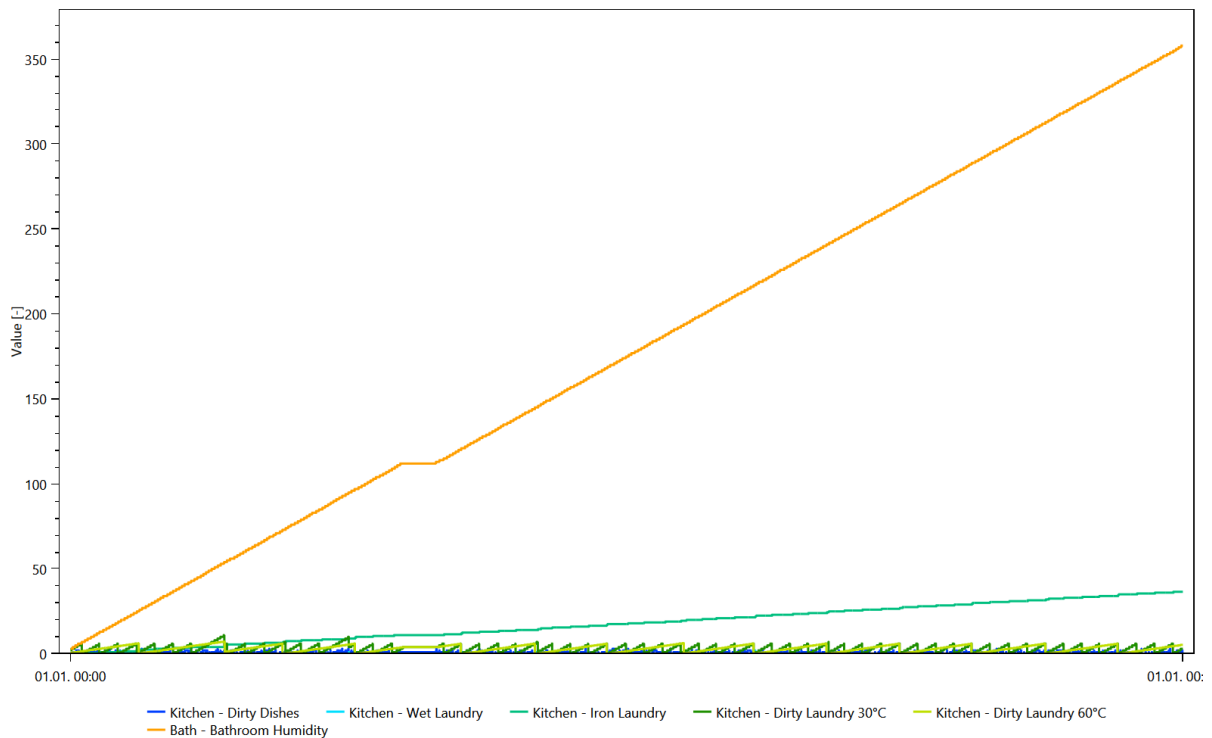
Decorations;None;02 h 0 min 100% [Synthetic];24

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

