

Overview of the results of the household CHR08 Single woman, 2 children, with work 0

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

Energy Intensity: Random

Seed 4930

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:08:16

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Totals

Totals for each Loadtype

| Load Type | Value | Unit |
|-------------|----------|------|
| Cold Water | 46420.30 | L |
| Electricity | 3277.88 | kWh |
| Warm Water | 48625.33 | L |

Totals for each Loadtype per Day

| Load Type | Value | Unit |
|-------------|--------|------|
| Cold Water | 126.83 | L |
| Electricity | 8.96 | kWh |
| Warm Water | 132.86 | L |

Minimum and Maximum for each Loadtype

| Household | Minimum | Maximum | Unit |
|-------------|---------|---------|-------|
| Cold Water | 0.00 | 15.00 | L/Min |
| Electricity | 0.16 | 7364.95 | Watt |
| Warm Water | 0.00 | 12.50 | L/Min |

Totals for each Loadtype per Person

| Load Type | Value | Unit |
|-------------|----------|------|
| Cold Water | 15473.43 | L |
| Electricity | 1092.63 | kWh |

| | | |
|------------|----------|---|
| Warm Water | 16208.44 | L |
|------------|----------|---|

Totals for each Loadtype per Person per Day

| Load Type | Value | Unit |
|-------------|-------|------|
| Cold Water | 42.28 | L |
| Electricity | 2.99 | kWh |
| Warm Water | 44.29 | L |

Persons

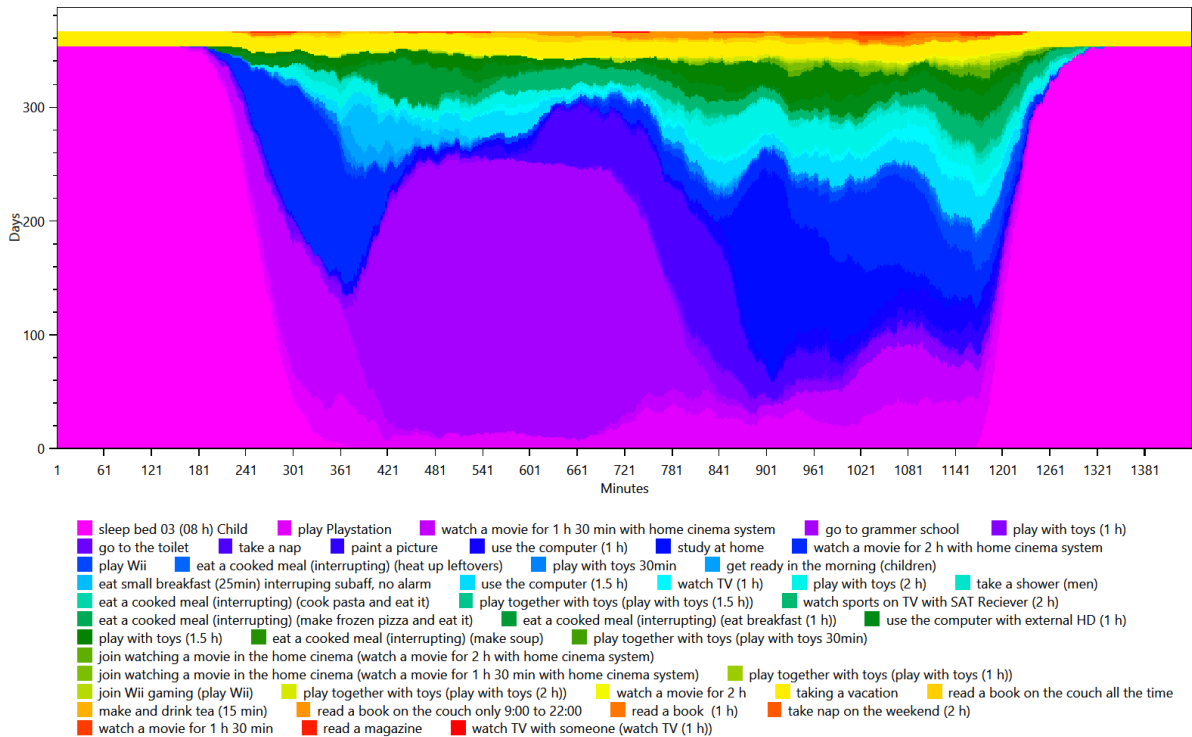
- HHO
 - CHR08 Adrian 2 (11/Male)(11/Male)
 - CHR08 Ben 2 (7/Male)(7/Male)
 - CHR08 Erin 2 (30/Female)(30/Female)

Activity Frequency Charts

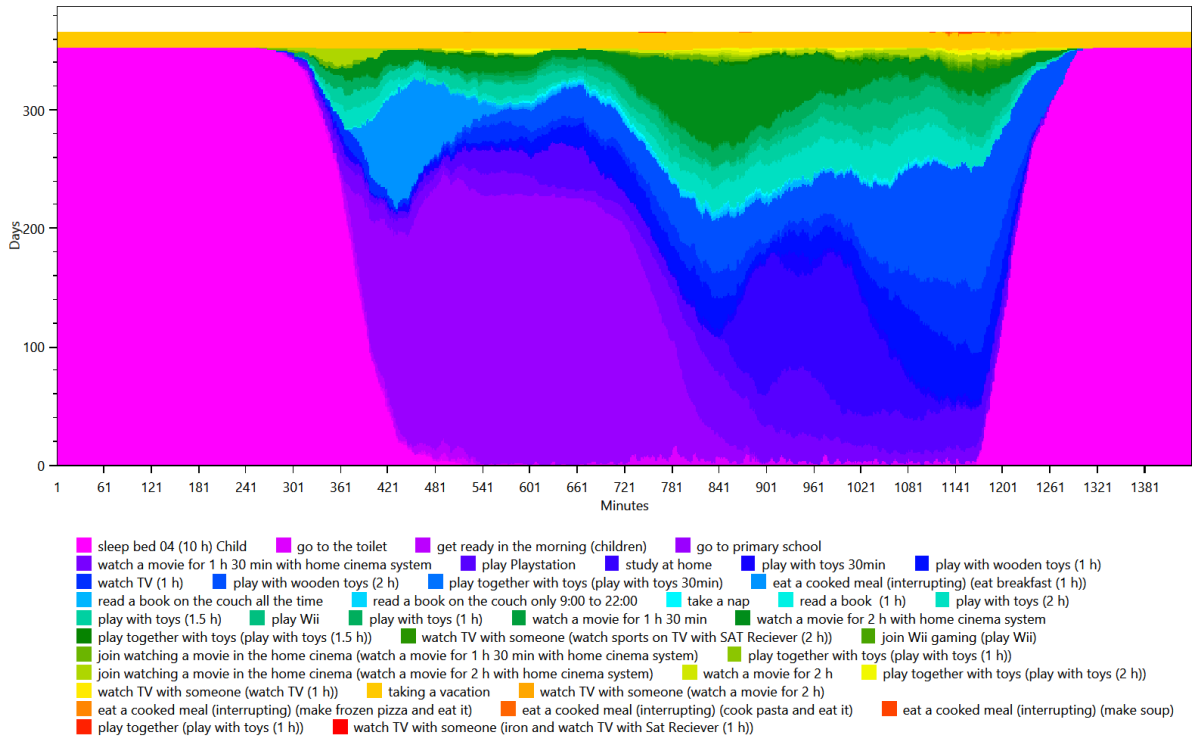
This is made from the files starting with: ActivityFrequenciesPerMinute

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.

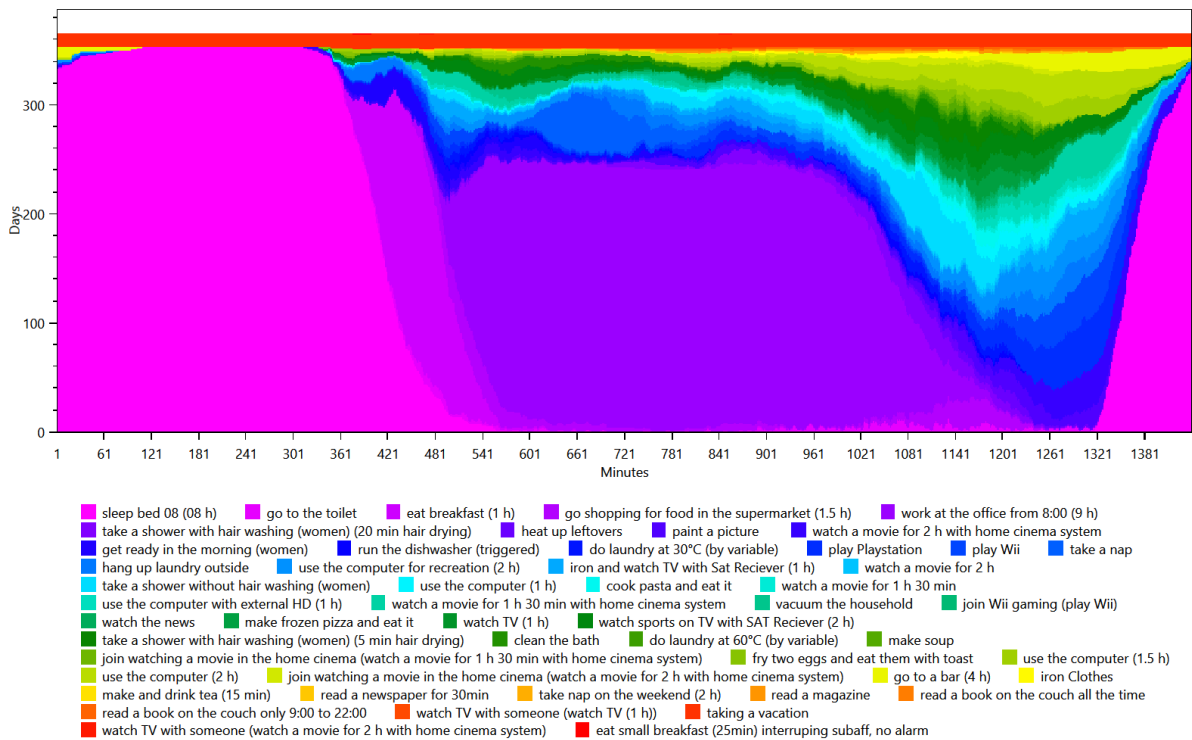
HH0 - CHR08 Adrian 2 (11 Male)



HH0 - CHR08 Ben 2 (7 Male)



HH0 - CHR08 Erin 2 (30 Female)

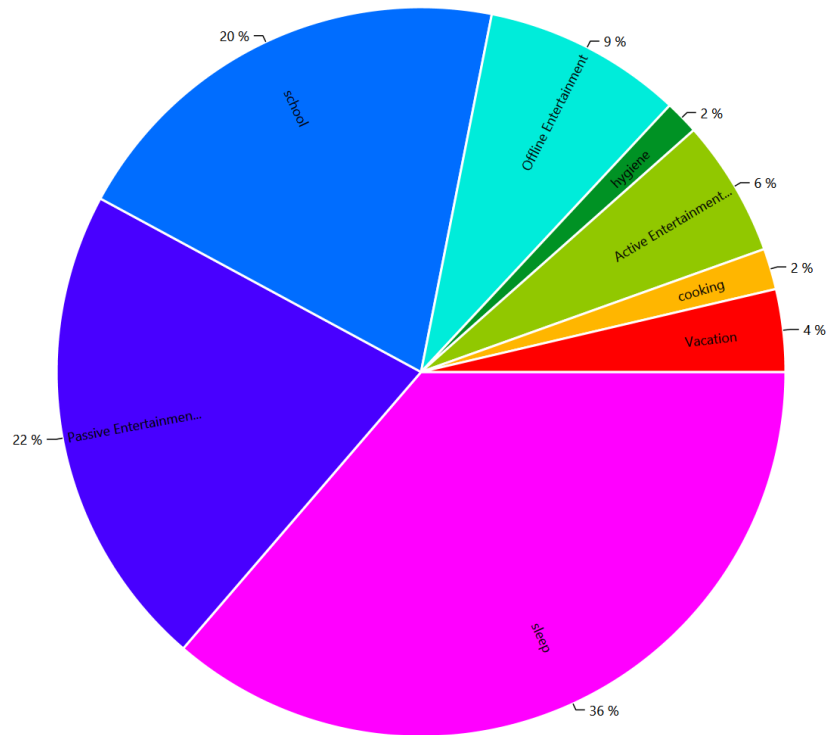


Activity Distribution per Person

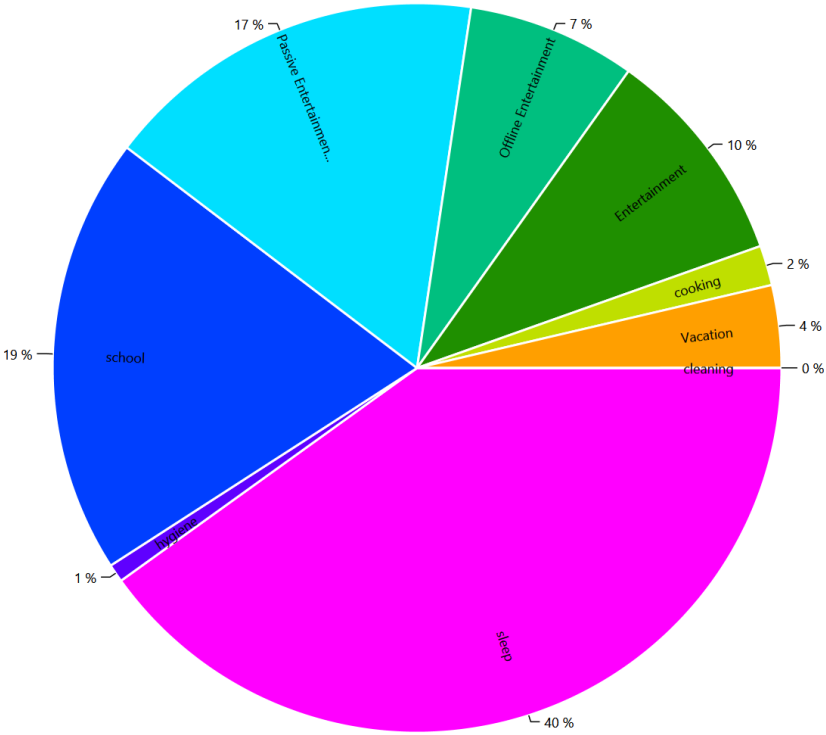
This is made from the files starting with: ActivityPercentage

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

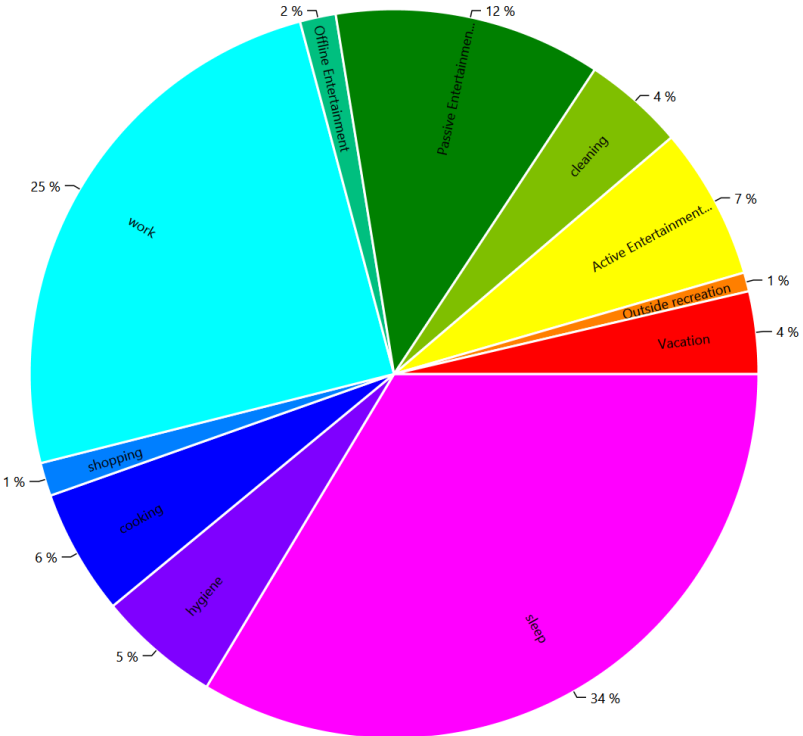
HH0 - CHR08 Adrian 2 (11 Male)



HH0 - CHR08 Ben 2 (7 Male)



HH0 - CHR08 Erin 2 (30 Female)

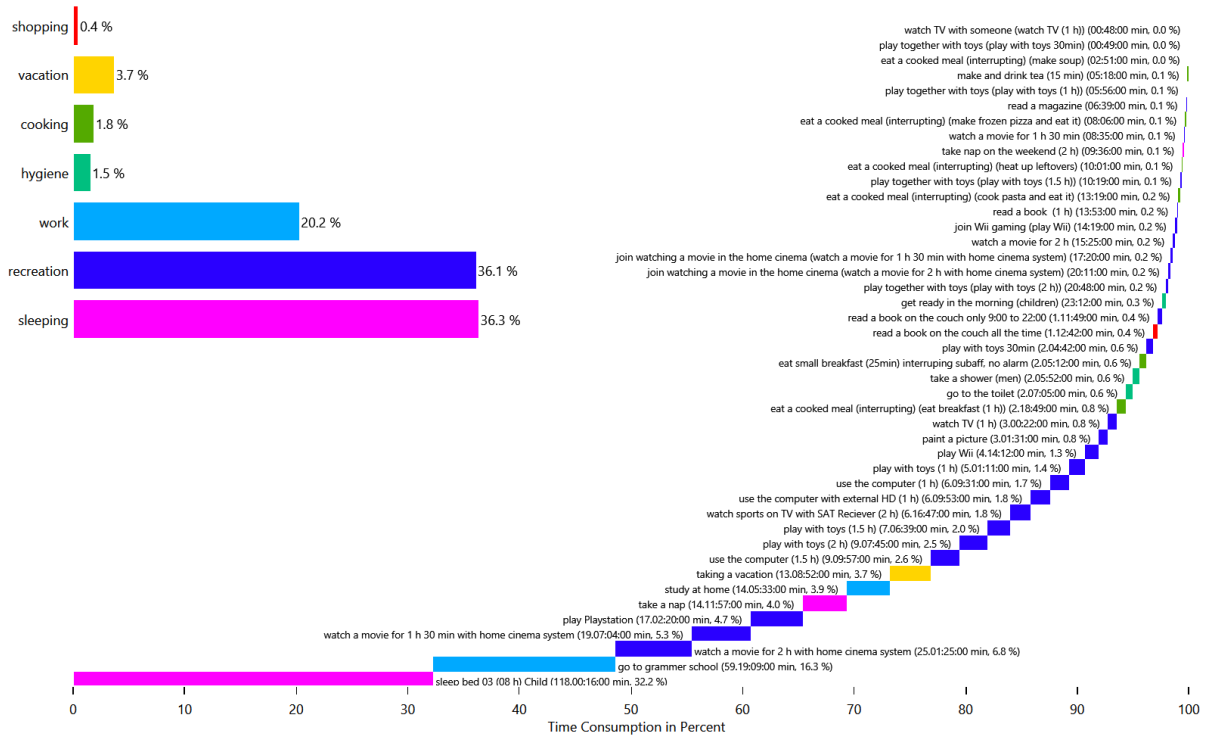


Time Use per Person per Affordance Per Person

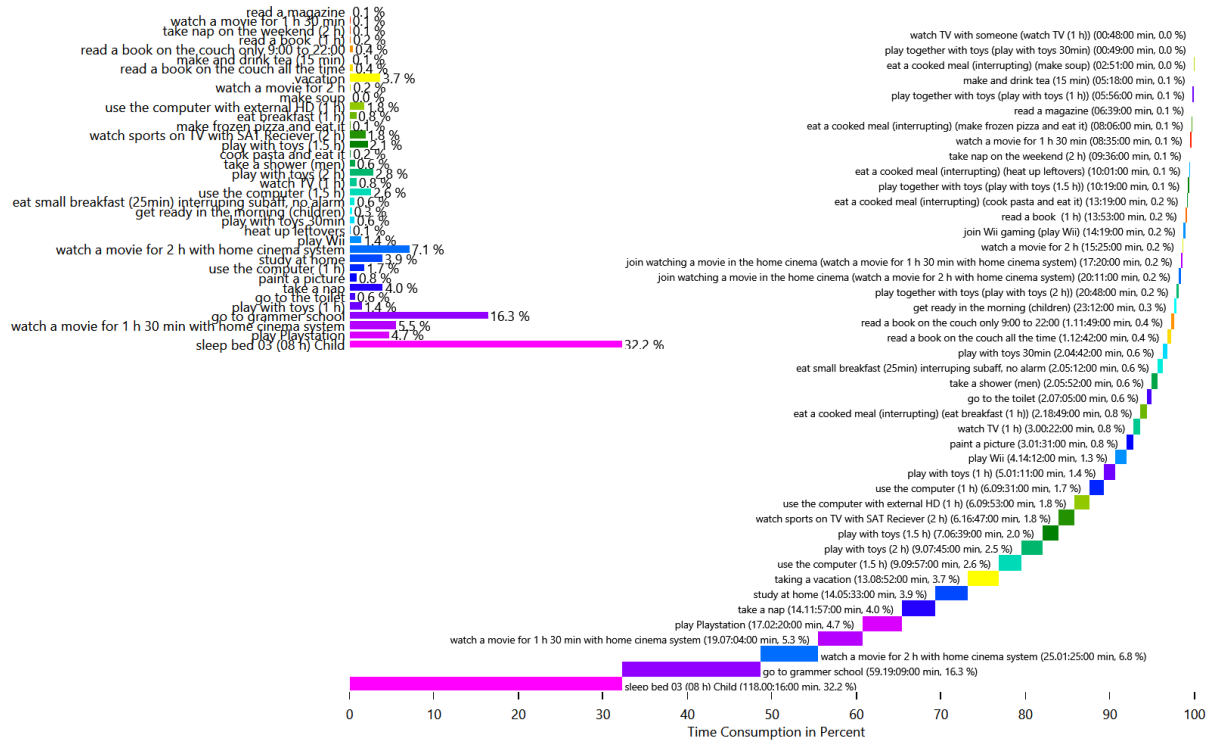
This is made from the files starting with: AffordanceTimeUse

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.

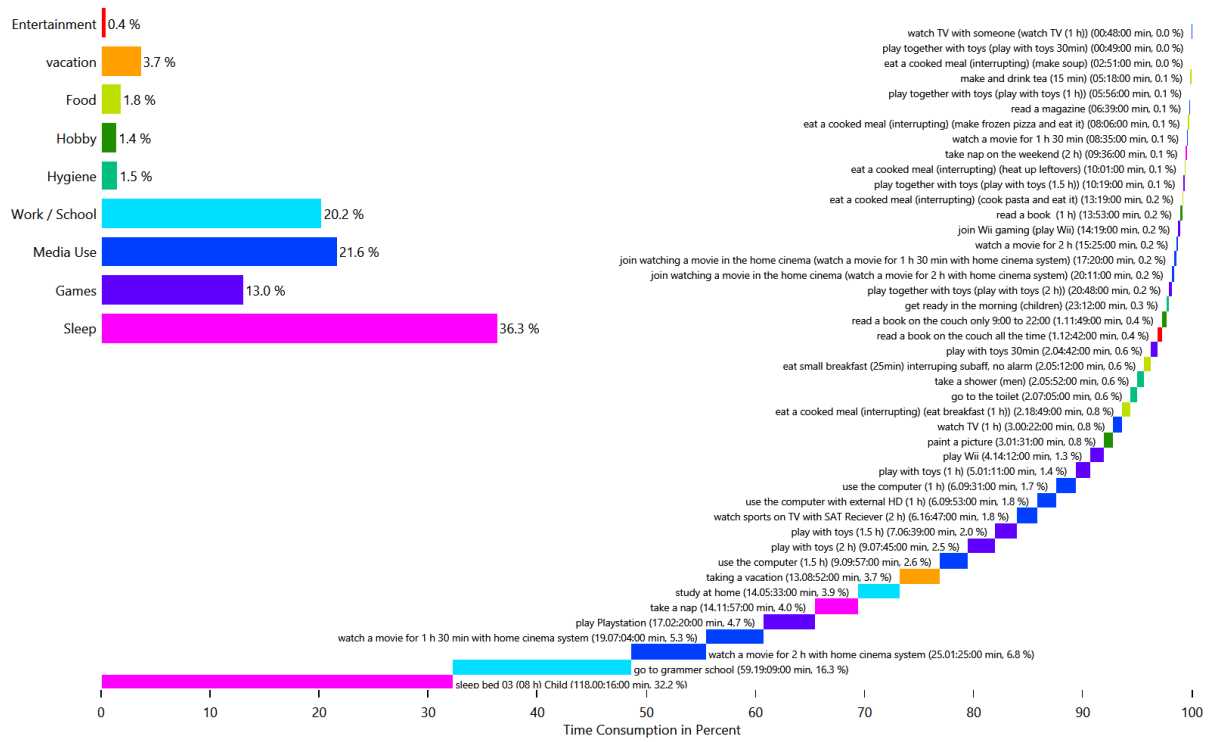
HH0 - CHR08 Adrian 2 (11 Male)



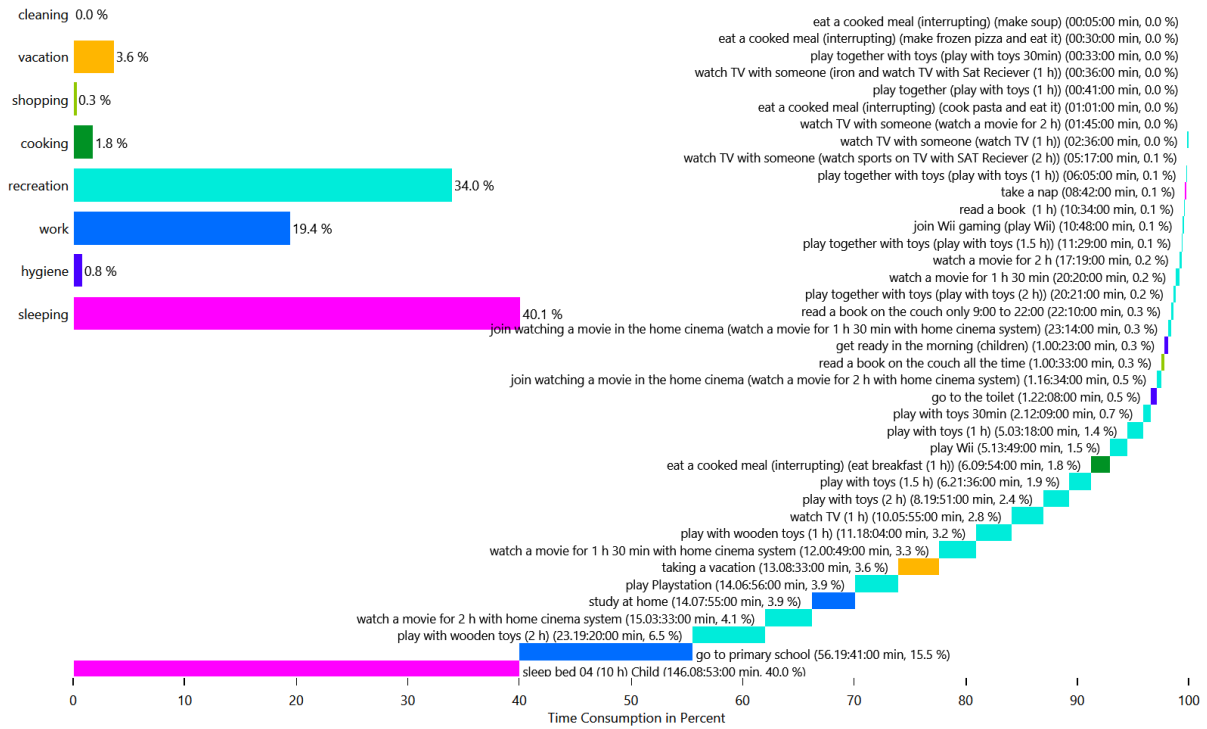
HH0 - CHR08 Adrian 2 (11 Male)



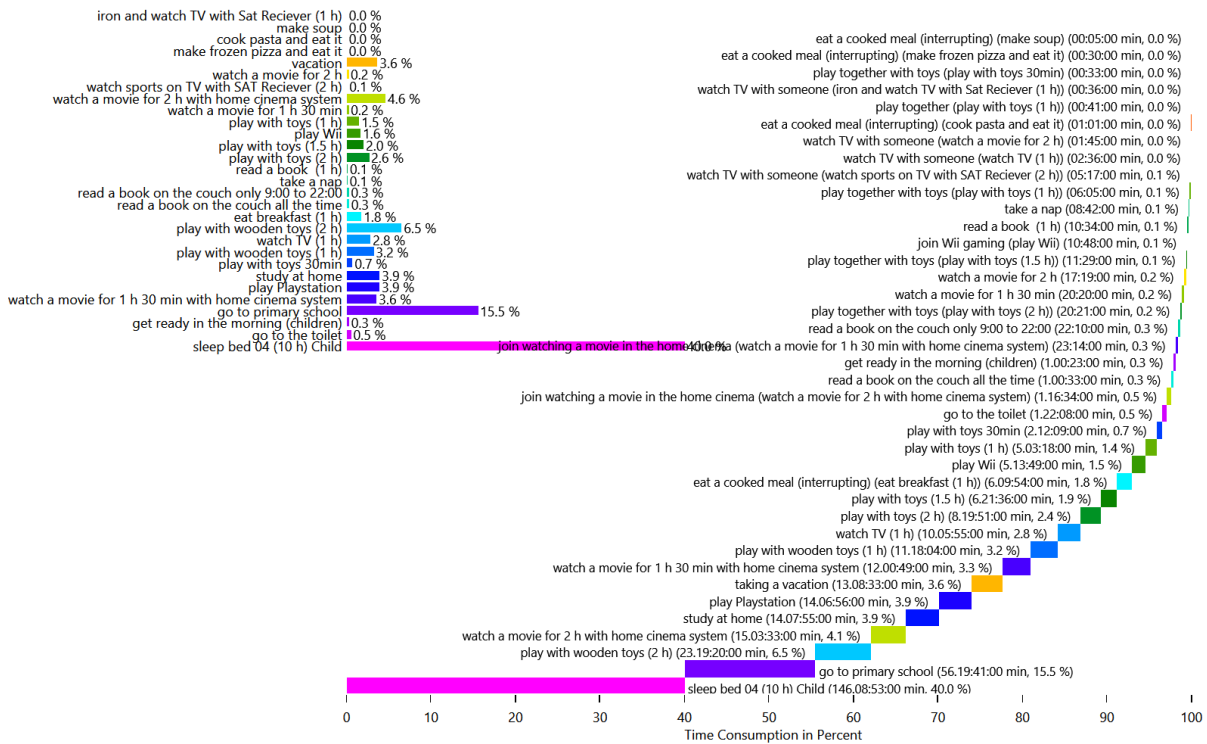
HH0 - CHR08 Adrian 2 (11 Male)



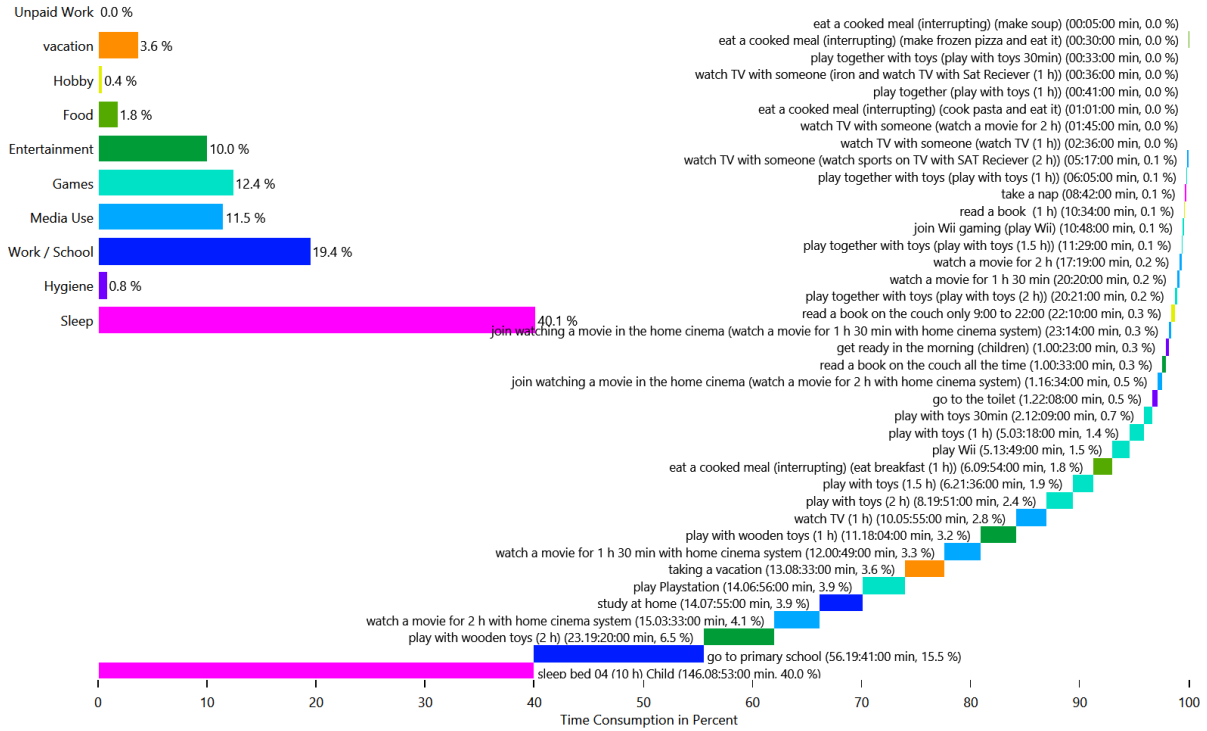
HH0 - CHR08 Ben 2 (7 Male)



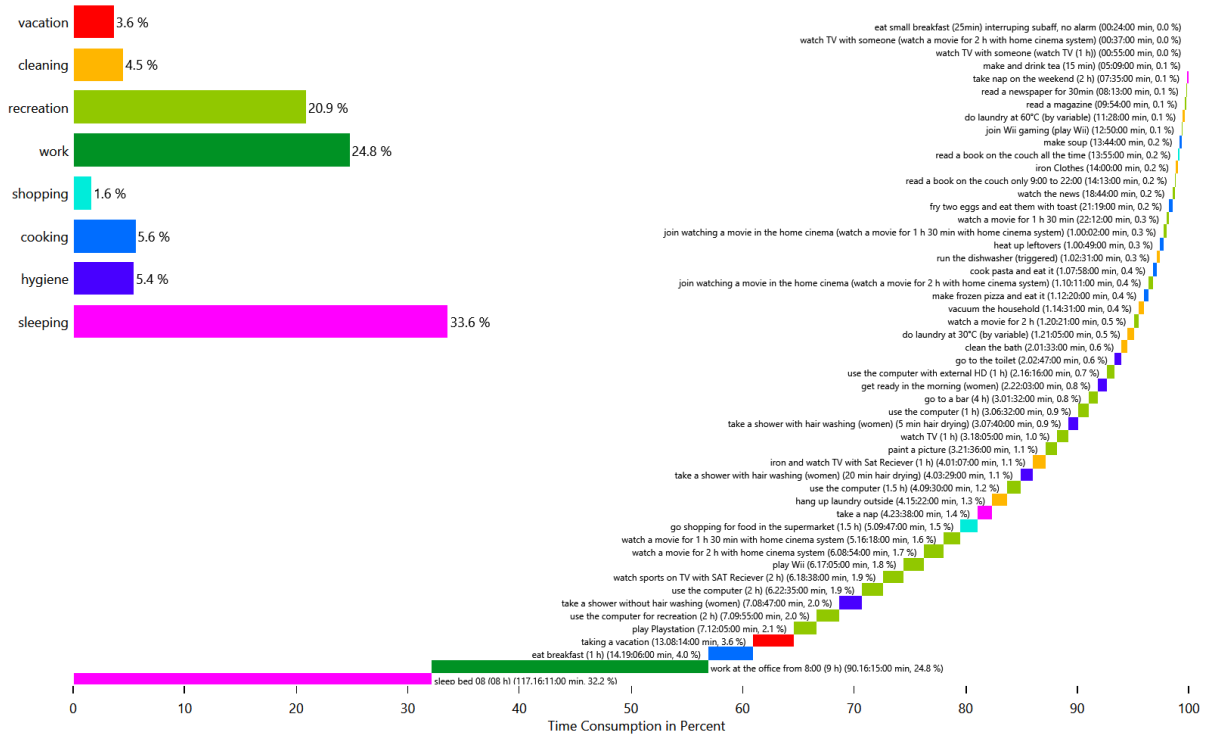
HH0 - CHR08 Ben 2 (7 Male)



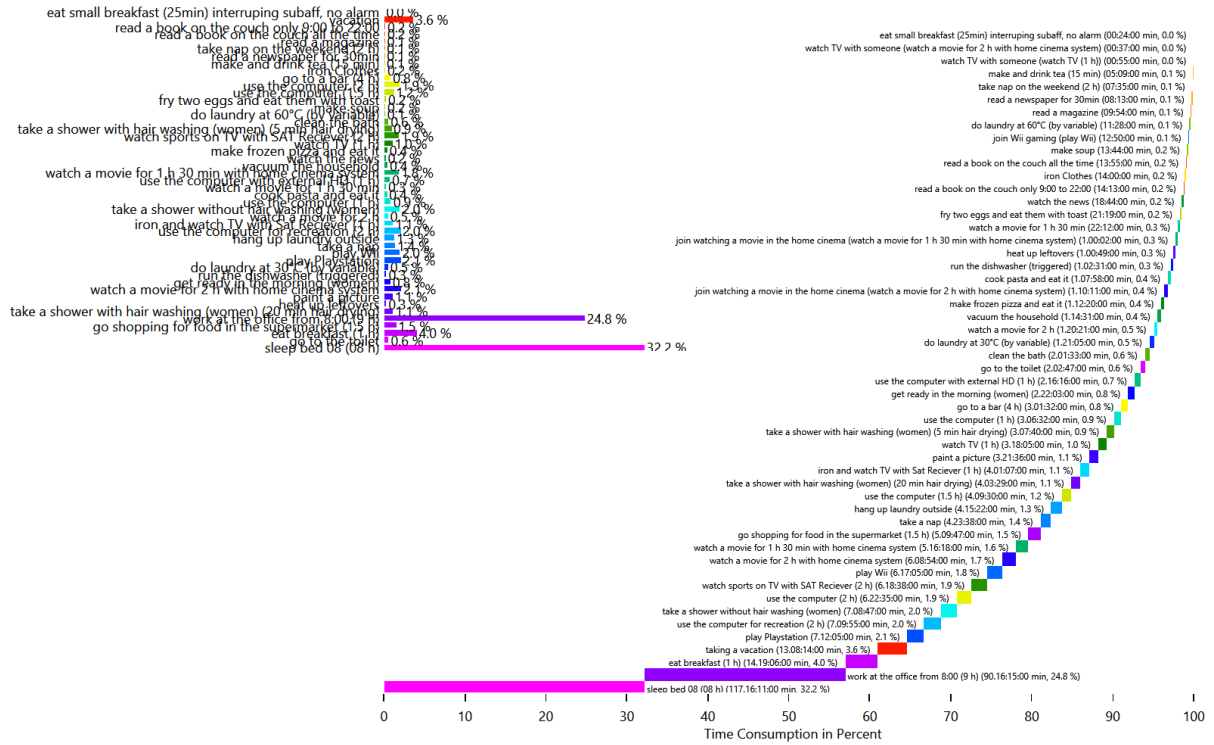
HH0 - CHR08 Ben 2 (7 Male)



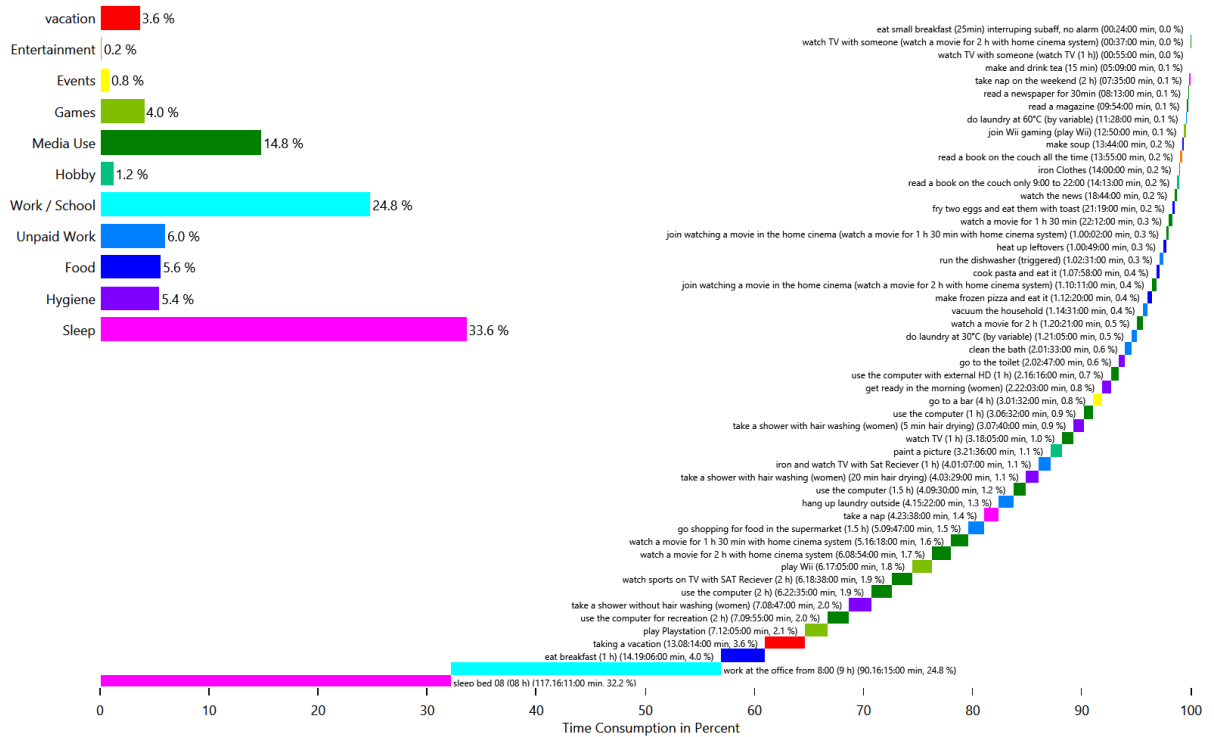
HH0 - CHR08 Erin 2 (30 Female)



HH0 - CHR08 Erin 2 (30 Female)



HH0 - CHR08 Erin 2 (30 Female)

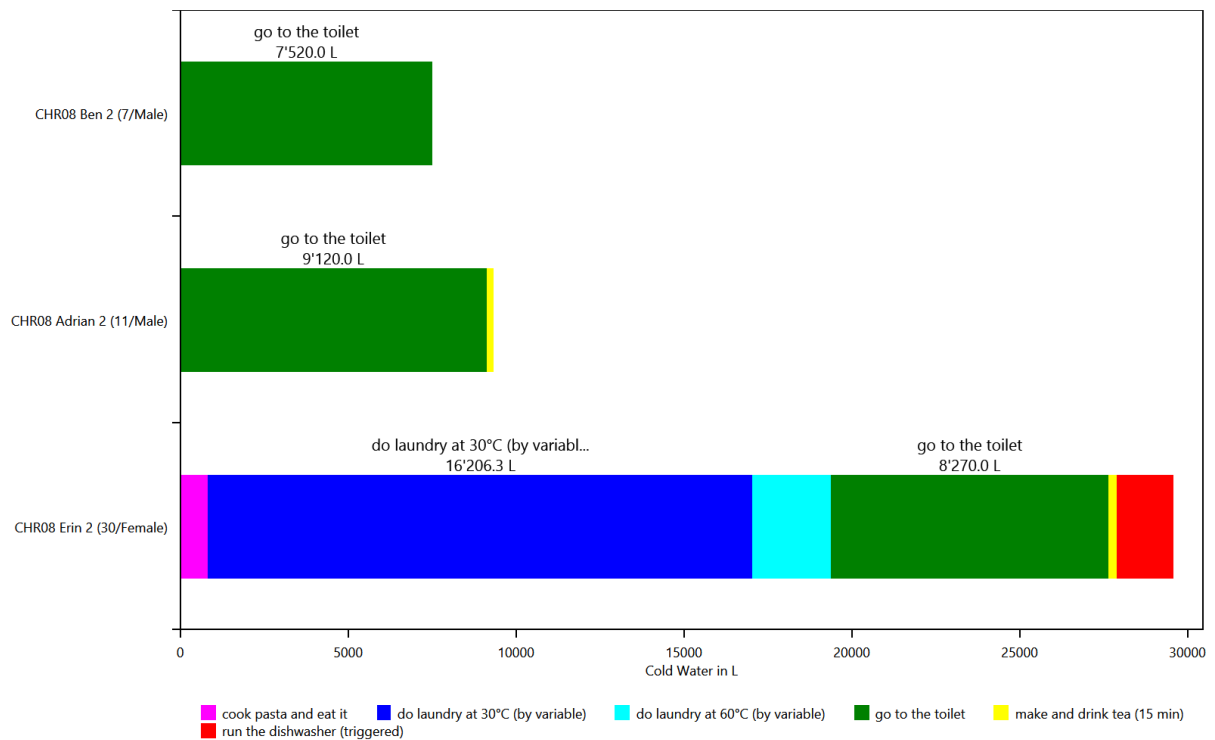


Energy use per person per affordance

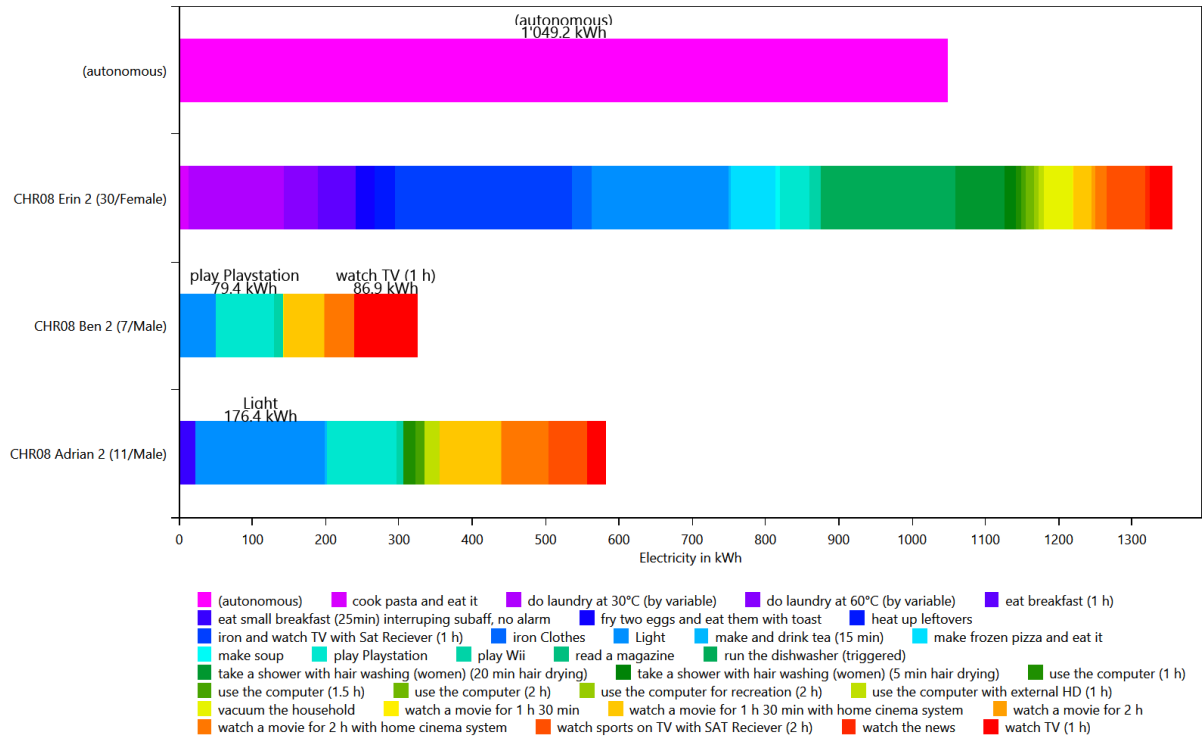
This is made from the files starting with: **AffordanceEnergyUsePerPerson**

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

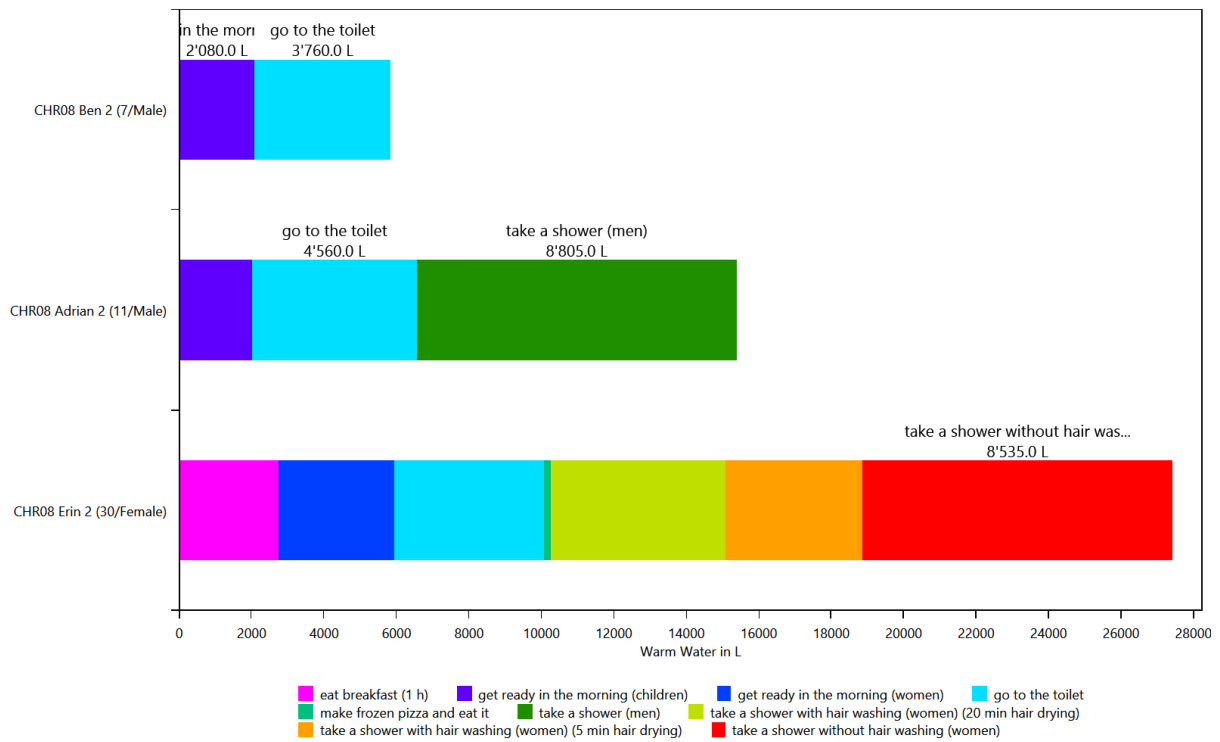
HH0 - Cold Water



HH0 - Electricity



HH0 - Warm Water

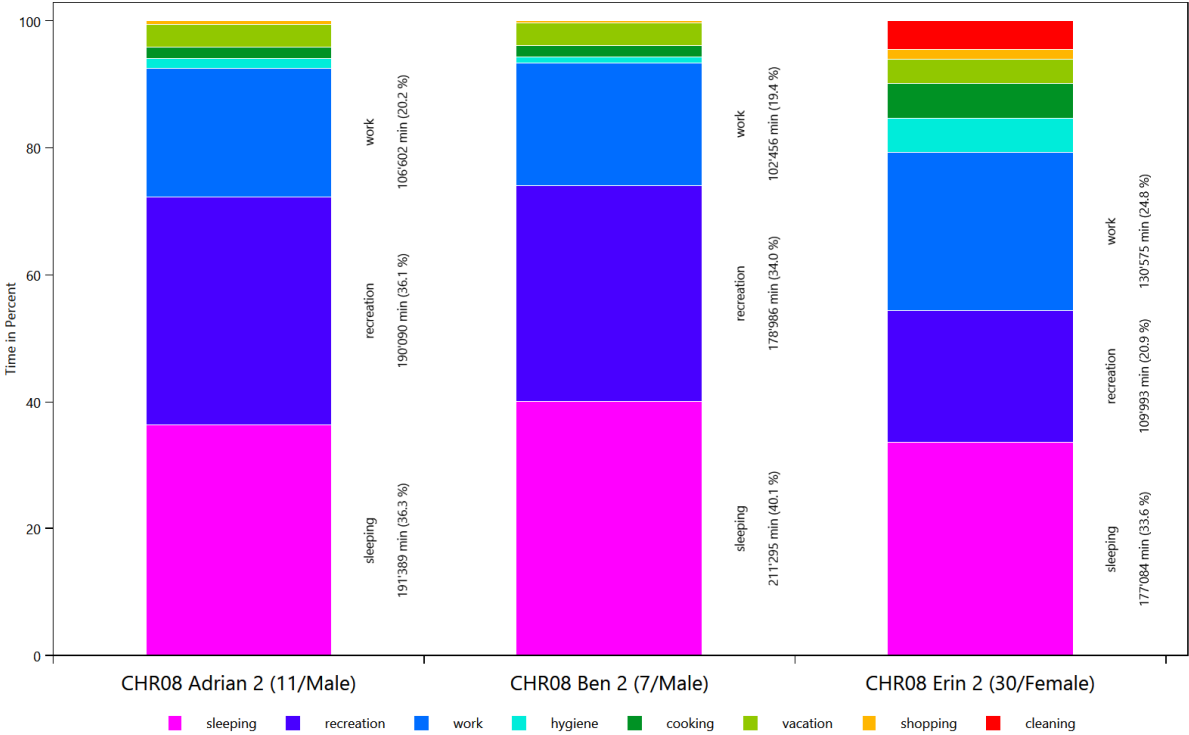


Time Use per Person Per Affordance according to different category definitions

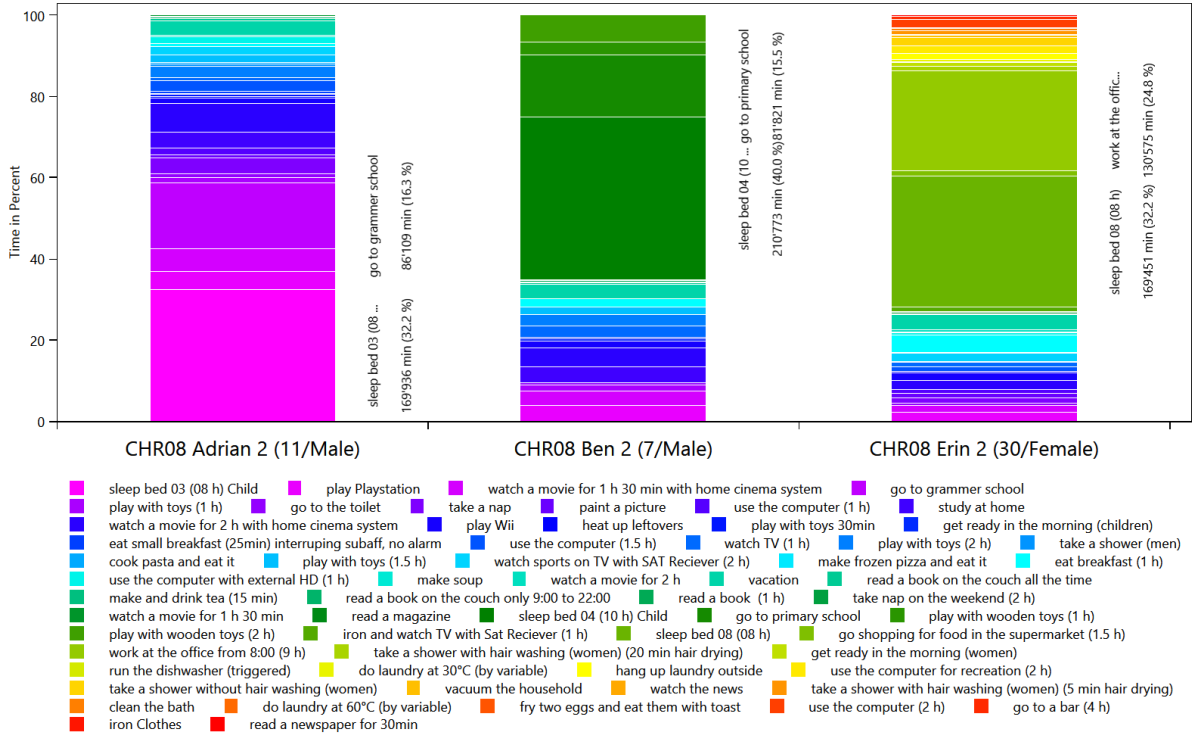
This is made from the files starting with: AffordanceTaggingSet

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

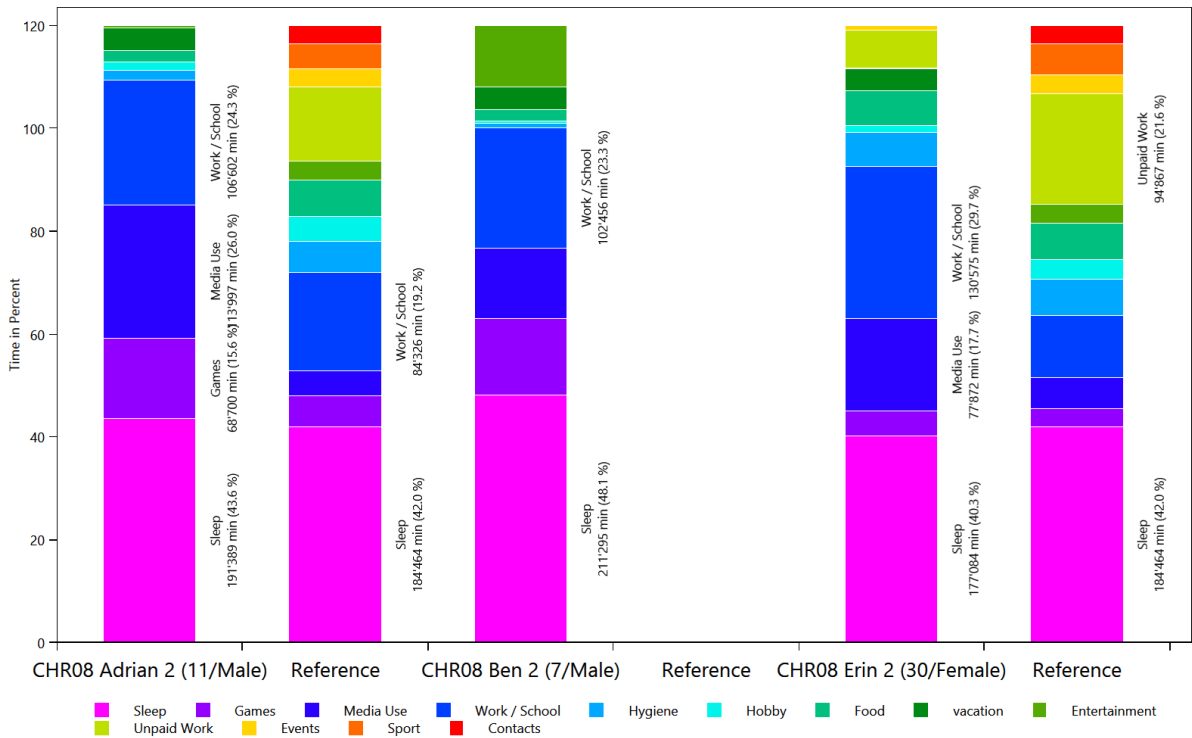
Basic Tagging - HH0



Tagging Set For Planning - HH0



Wo bleibt die Zeit - HH0

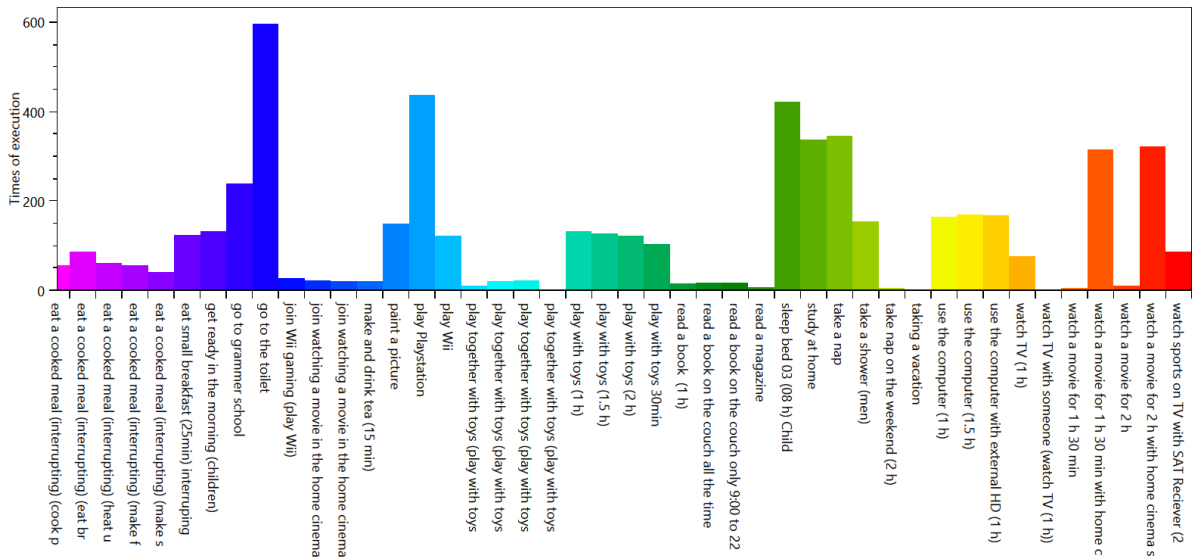


Overview of the actions of each member of the household

This is made from the files starting with: ExecutedActionsOverviewCount

These charts show how often each affordance was executed.

HH0 - CHR08 Adrian 2 (11 Male)

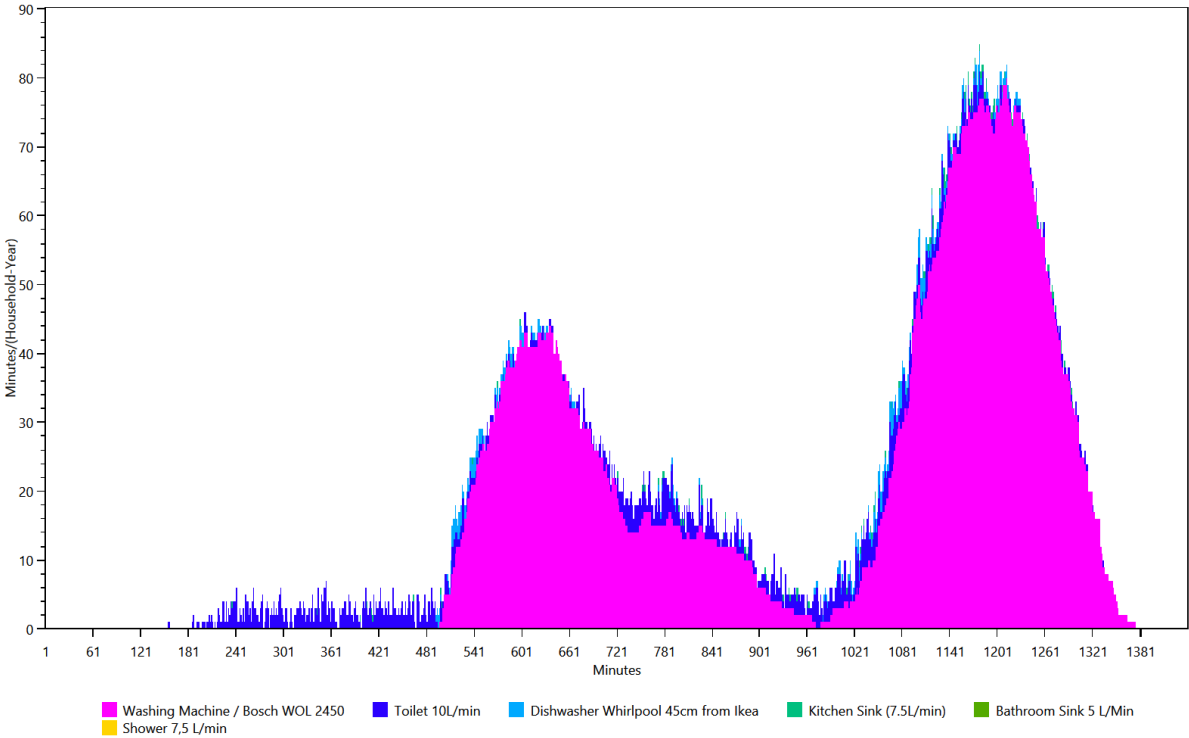


Overview of the time of the use per load type per device

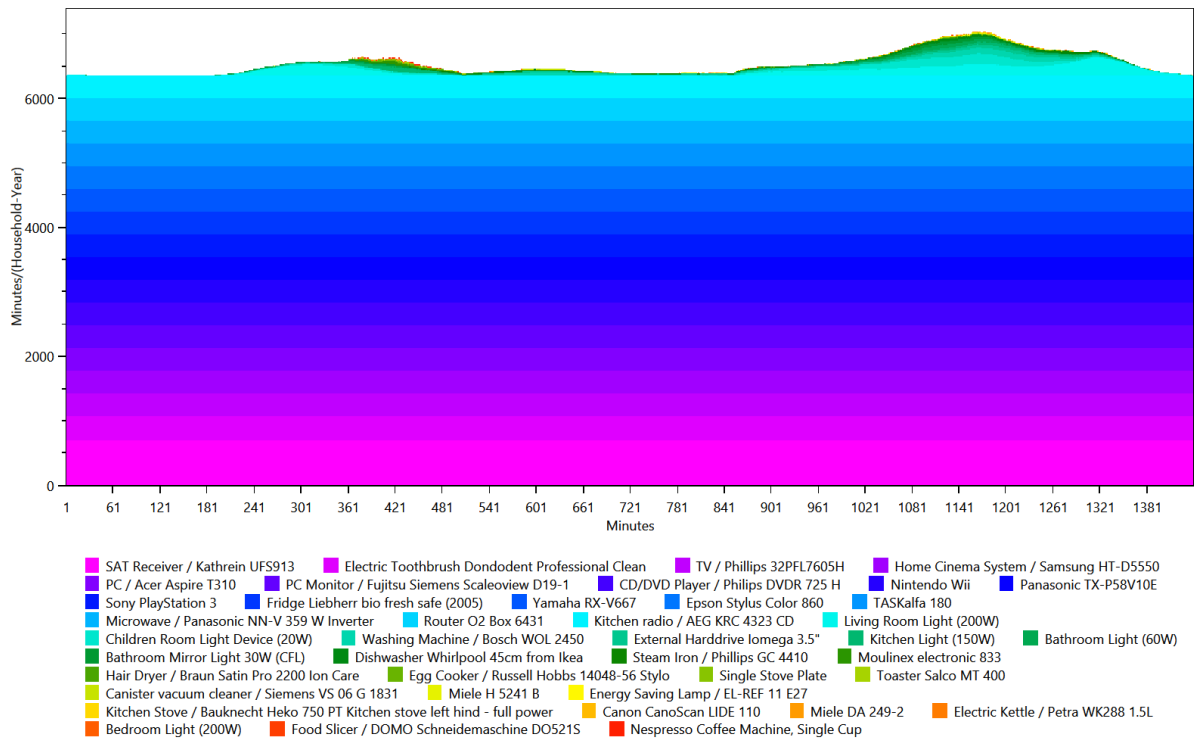
This is made from the files starting with: TimeOfUseEnergyProfiles

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

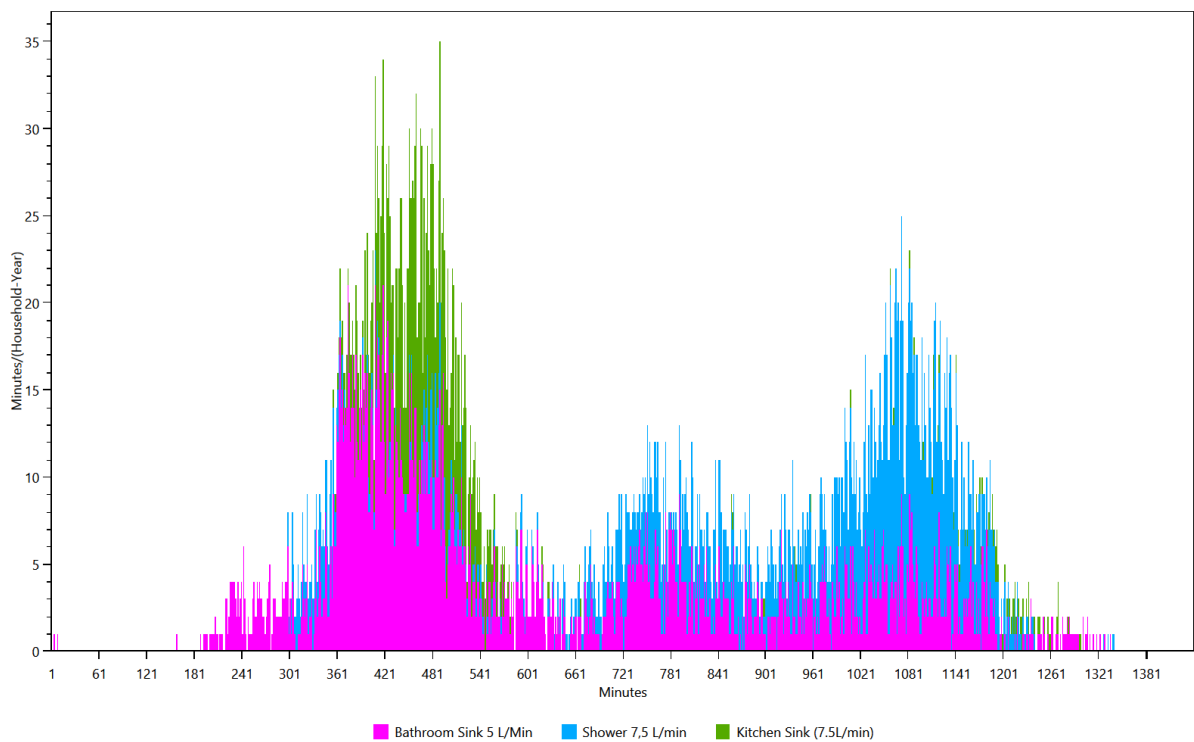
Cold Water



Electricity



Warm Water

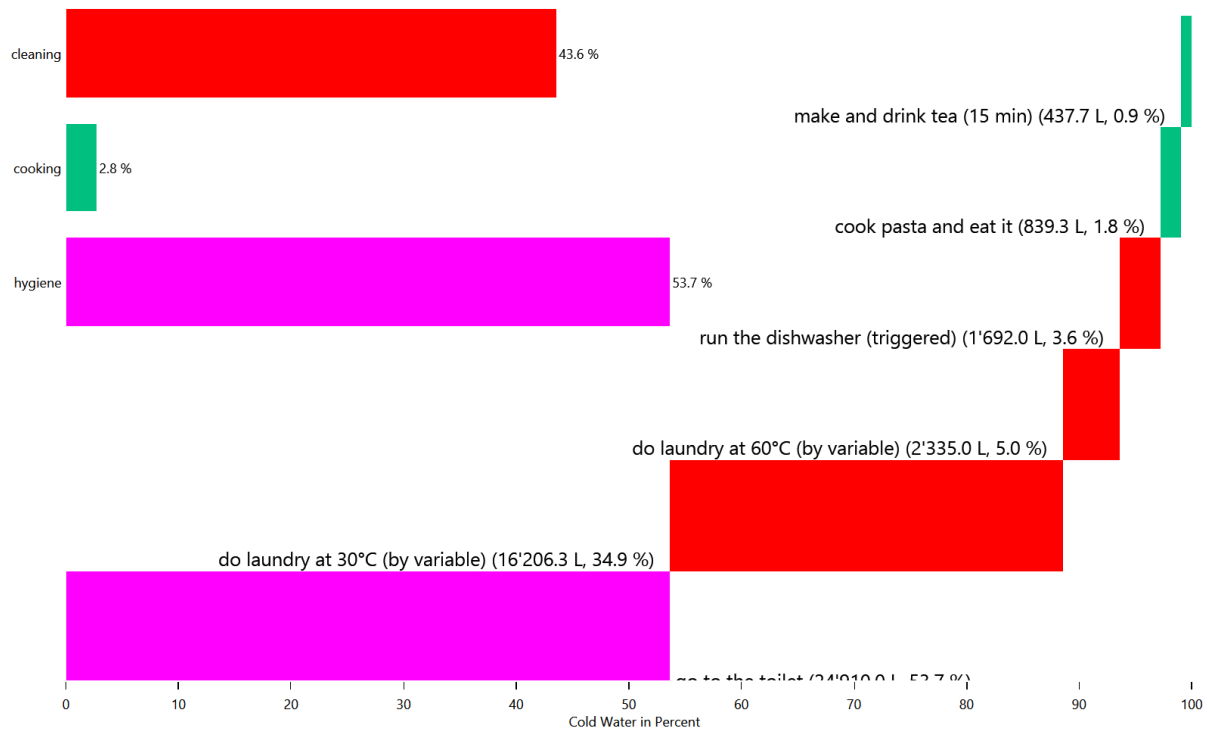


Energy/Resource use distribution per load type per affordance

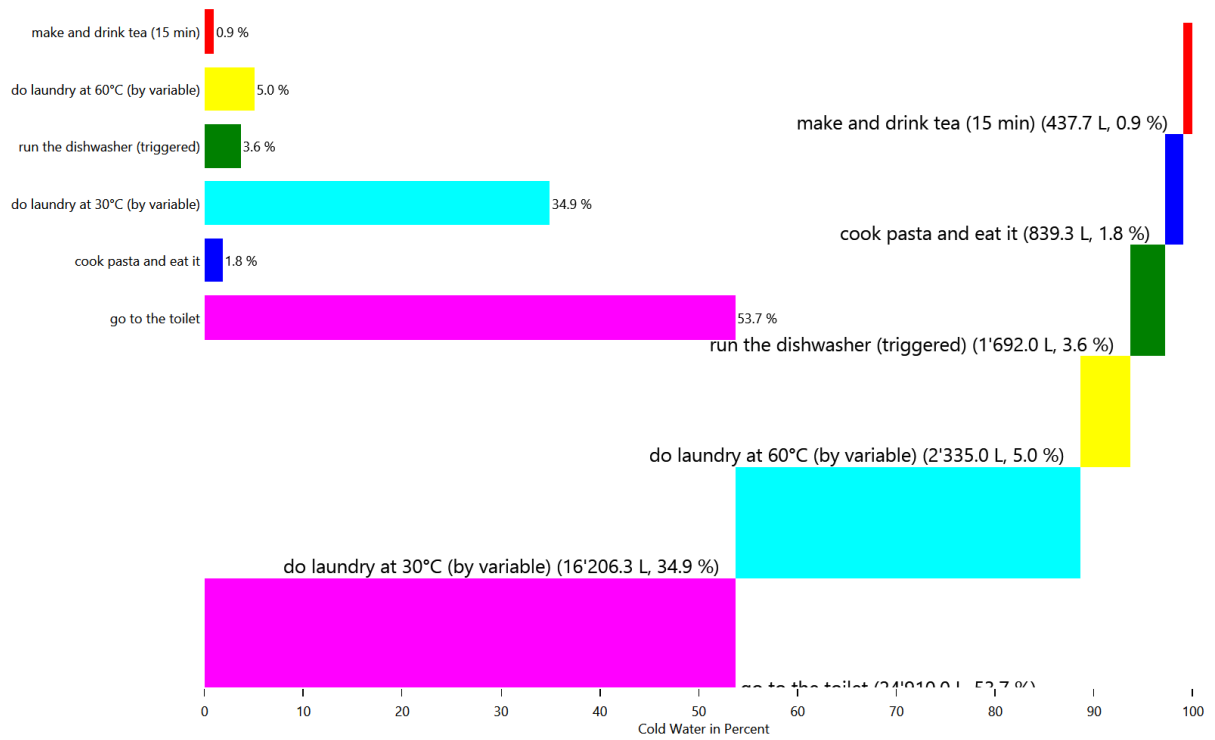
This is made from the files starting with: AffordanceEnergyUse

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

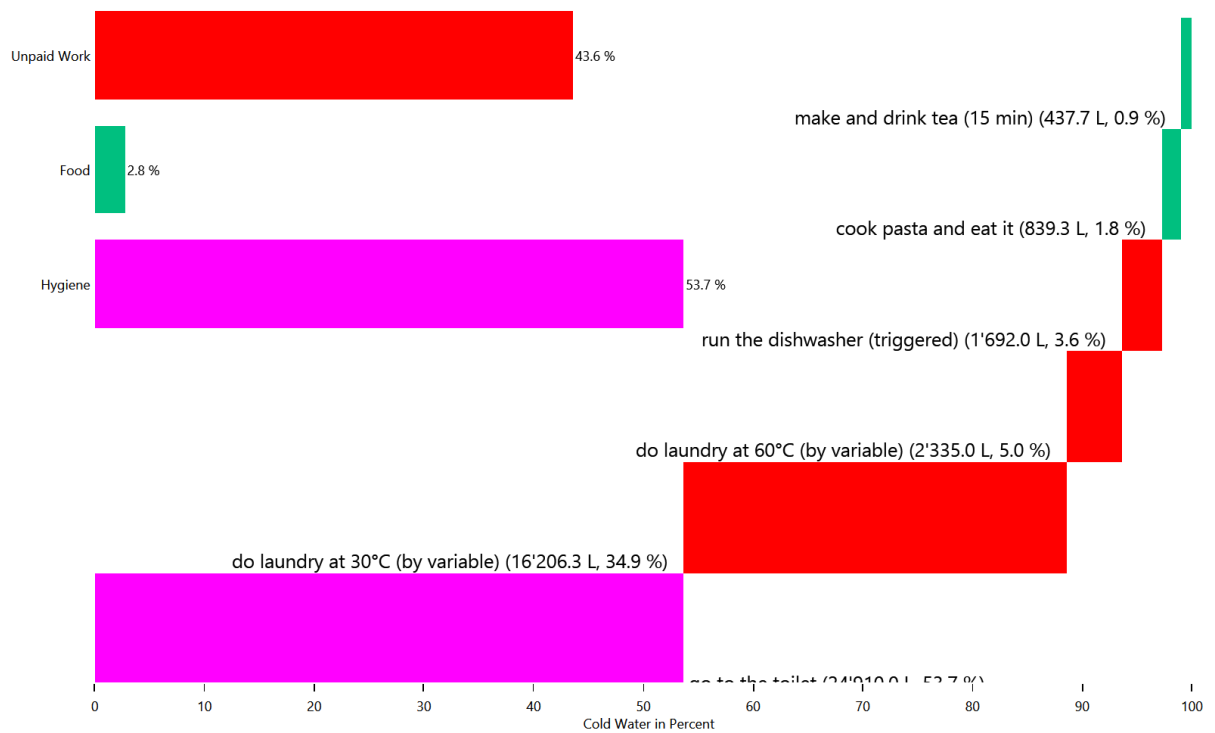
HH0 - Cold Water



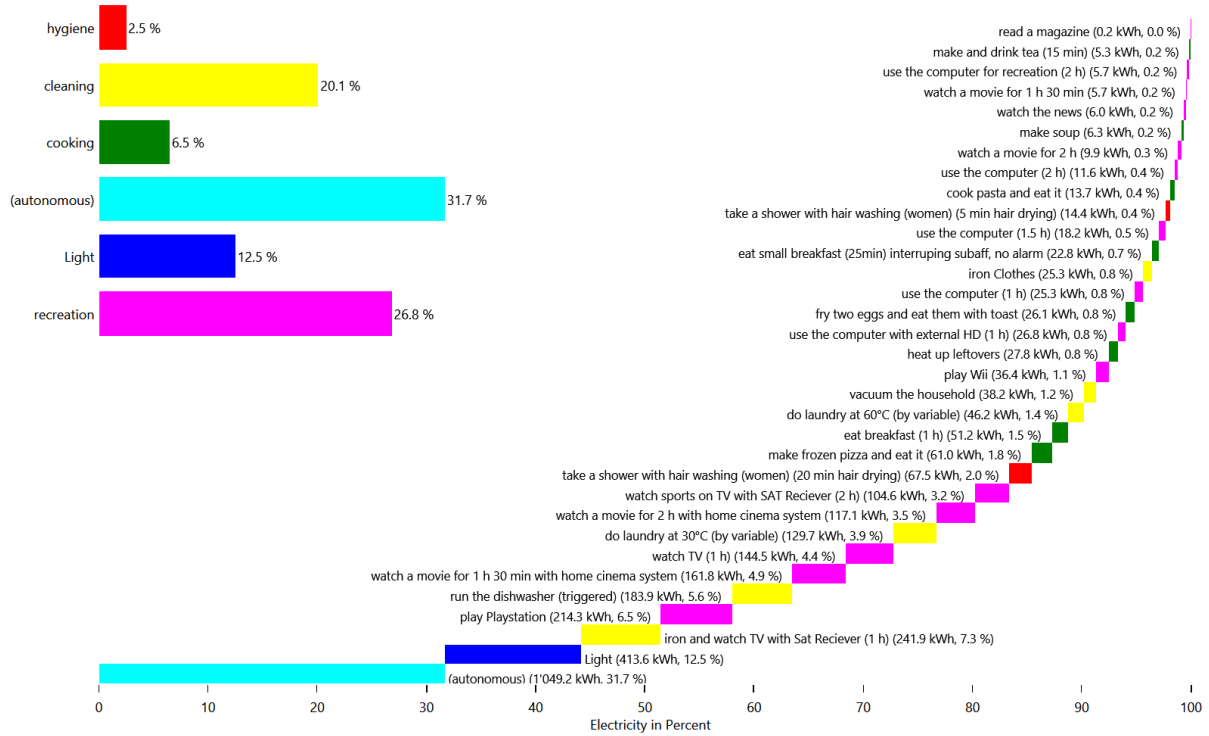
HH0 - Cold Water



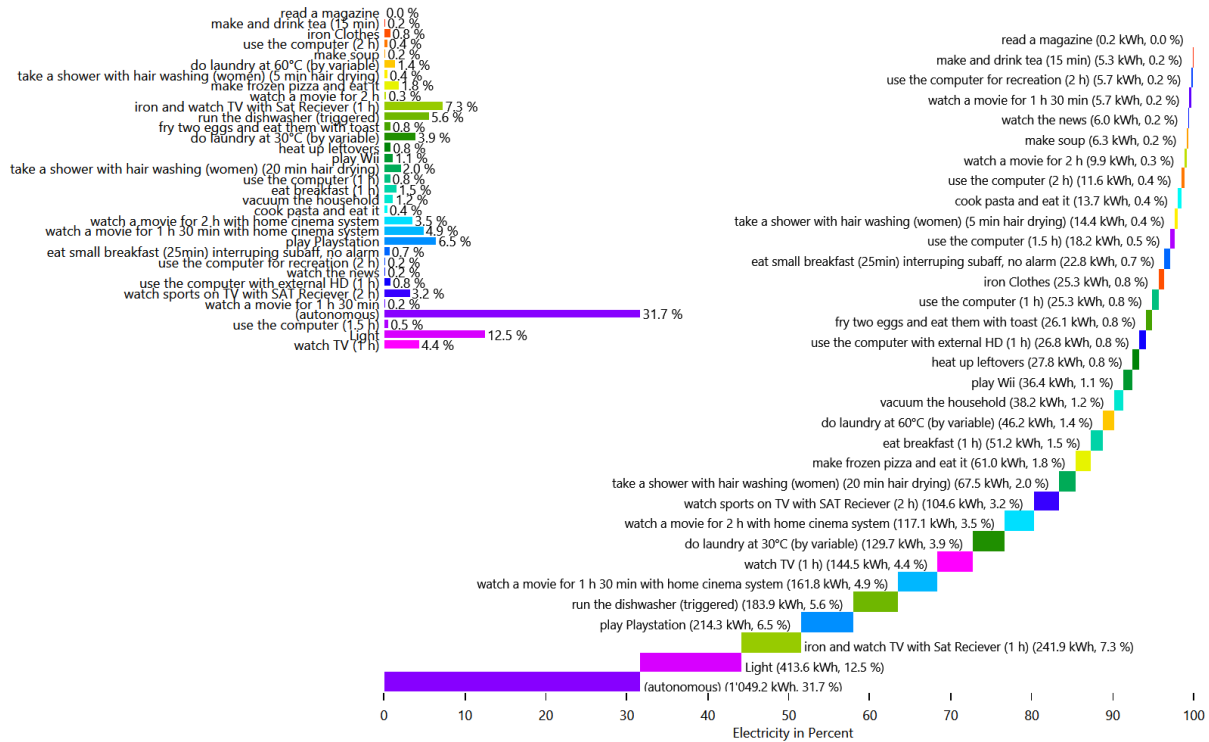
HH0 - Cold Water



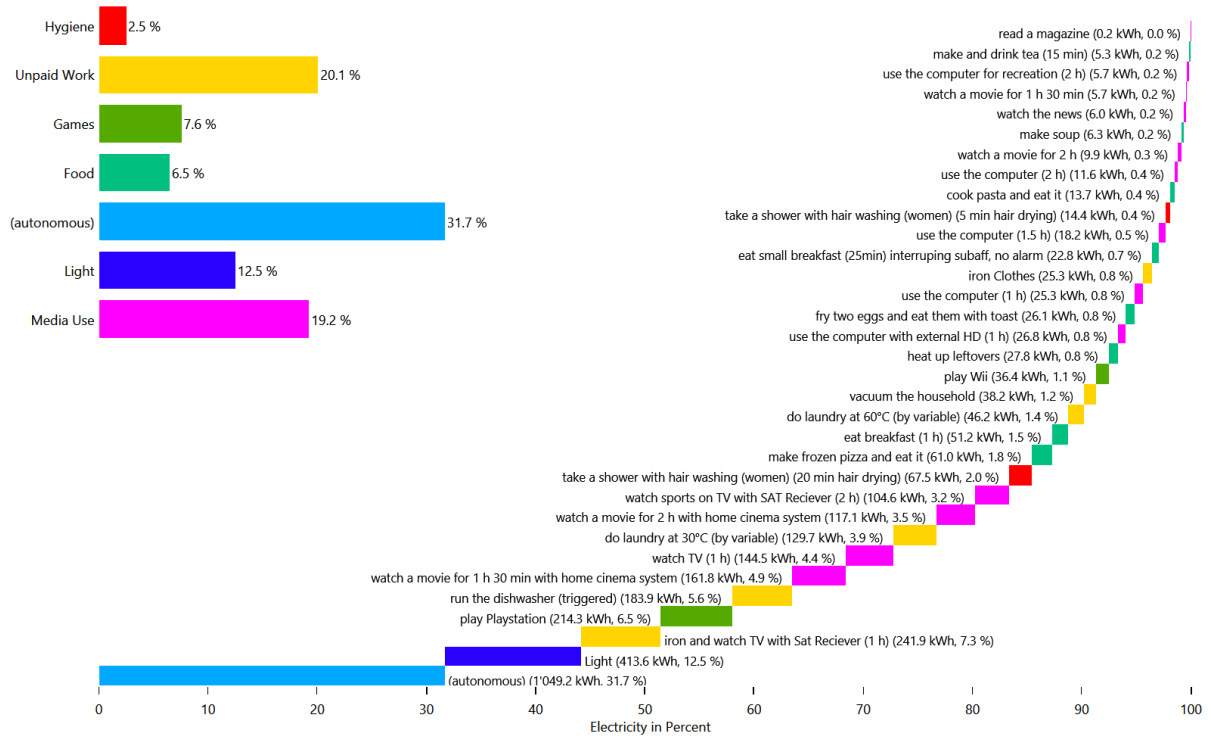
HH0 - Electricity



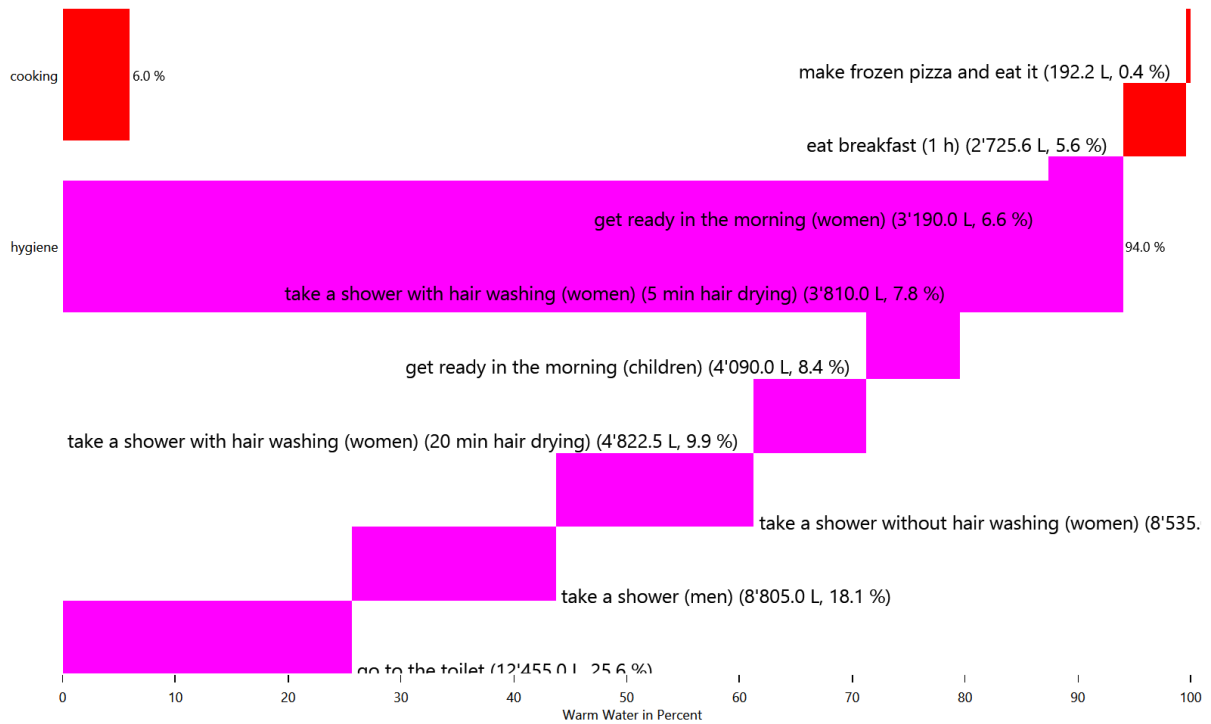
HH0 - Electricity



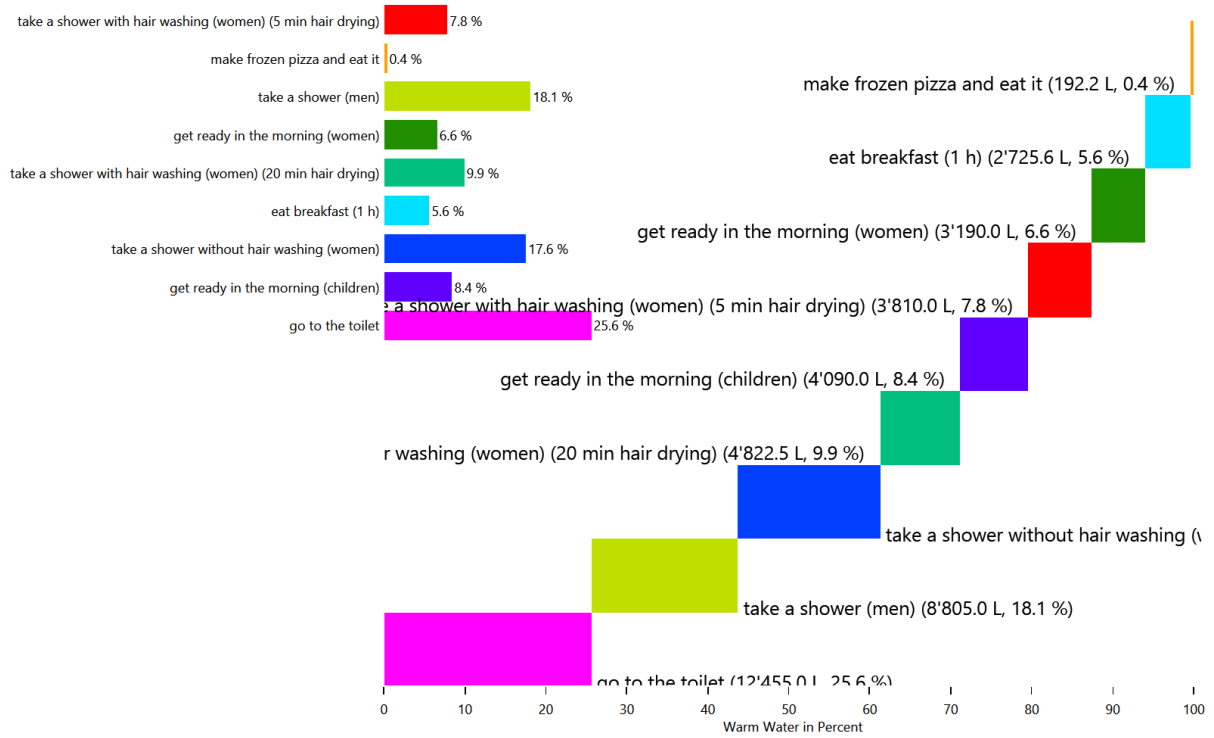
HH0 - Electricity



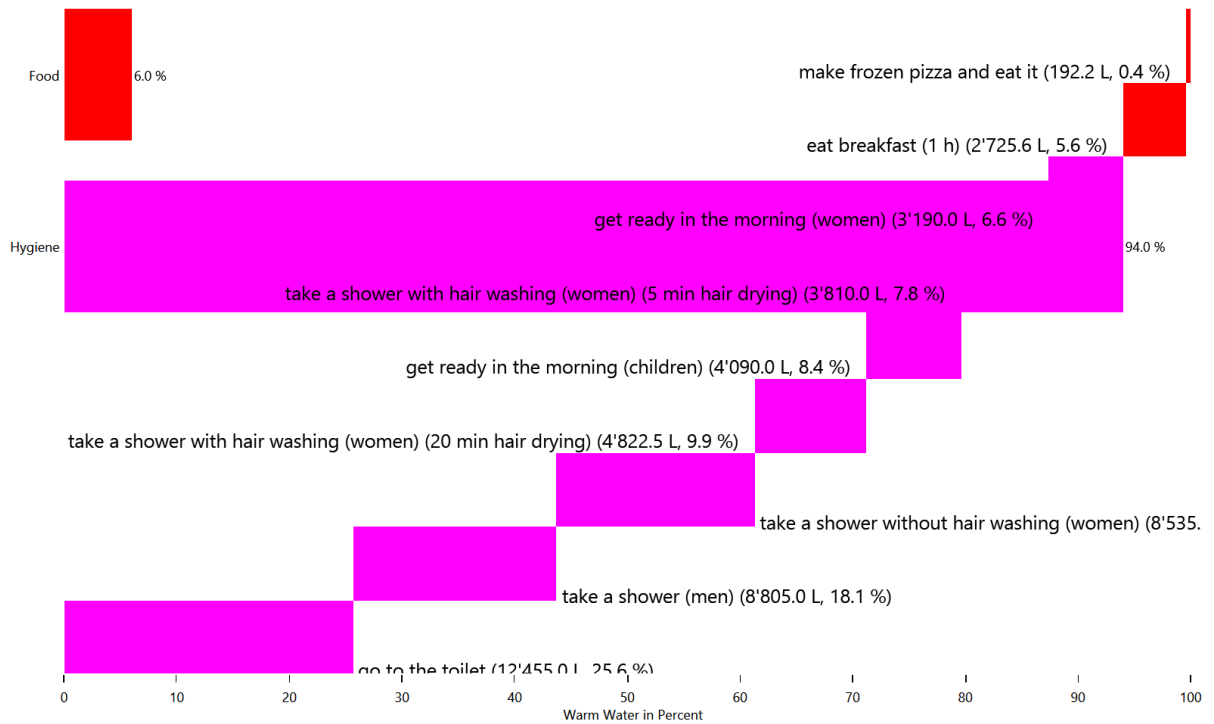
HH0 - Warm Water



HH0 - Warm Water



HH0 - Warm Water

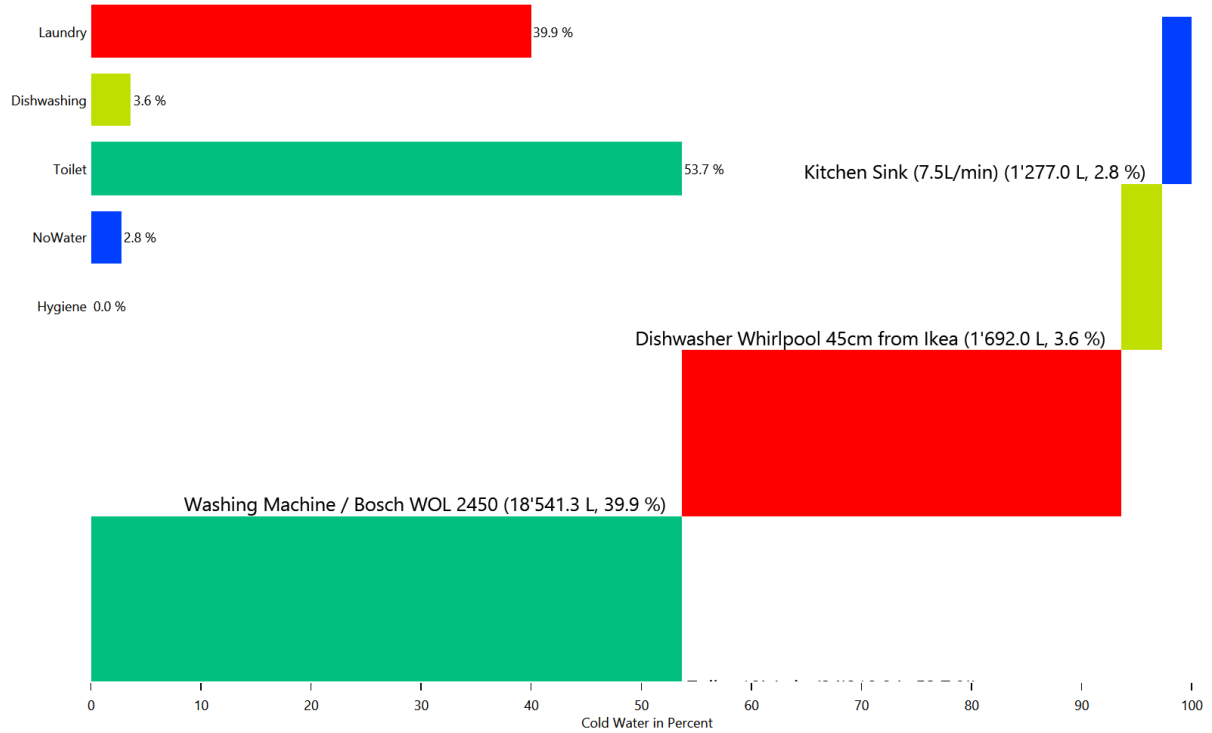


Energy use for each load type for each device

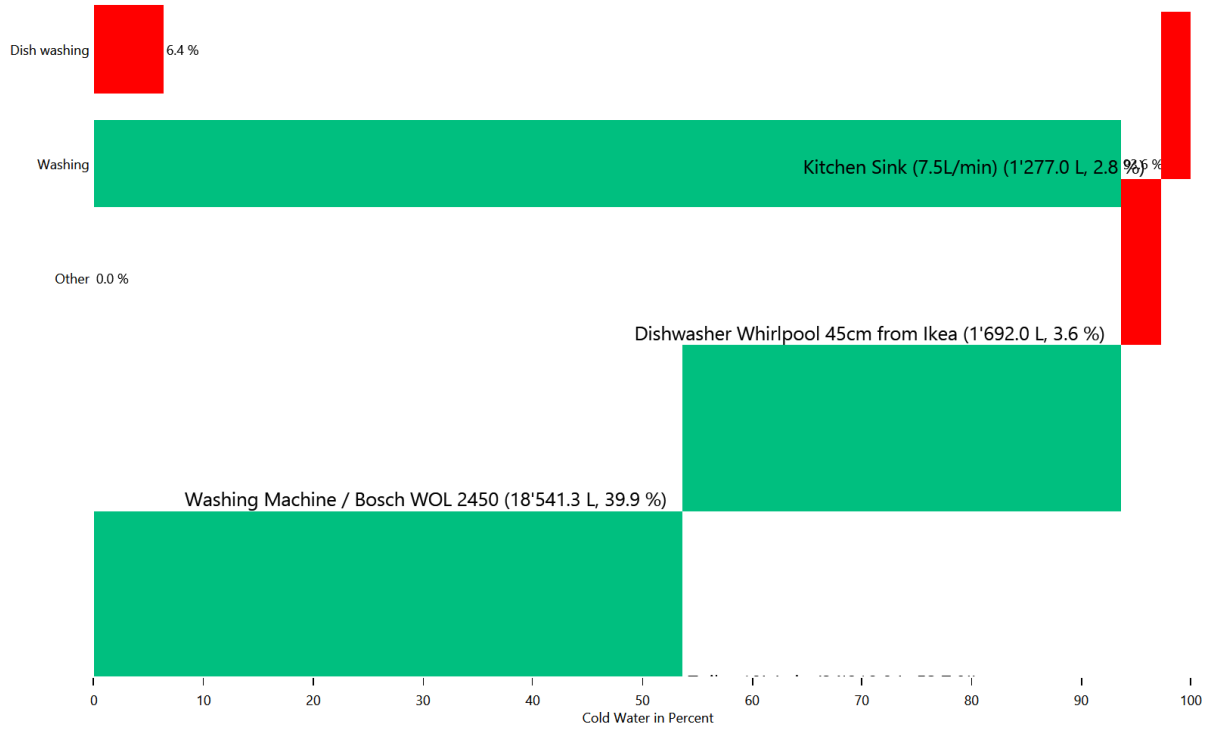
This is made from the files starting with: DeviceSums

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

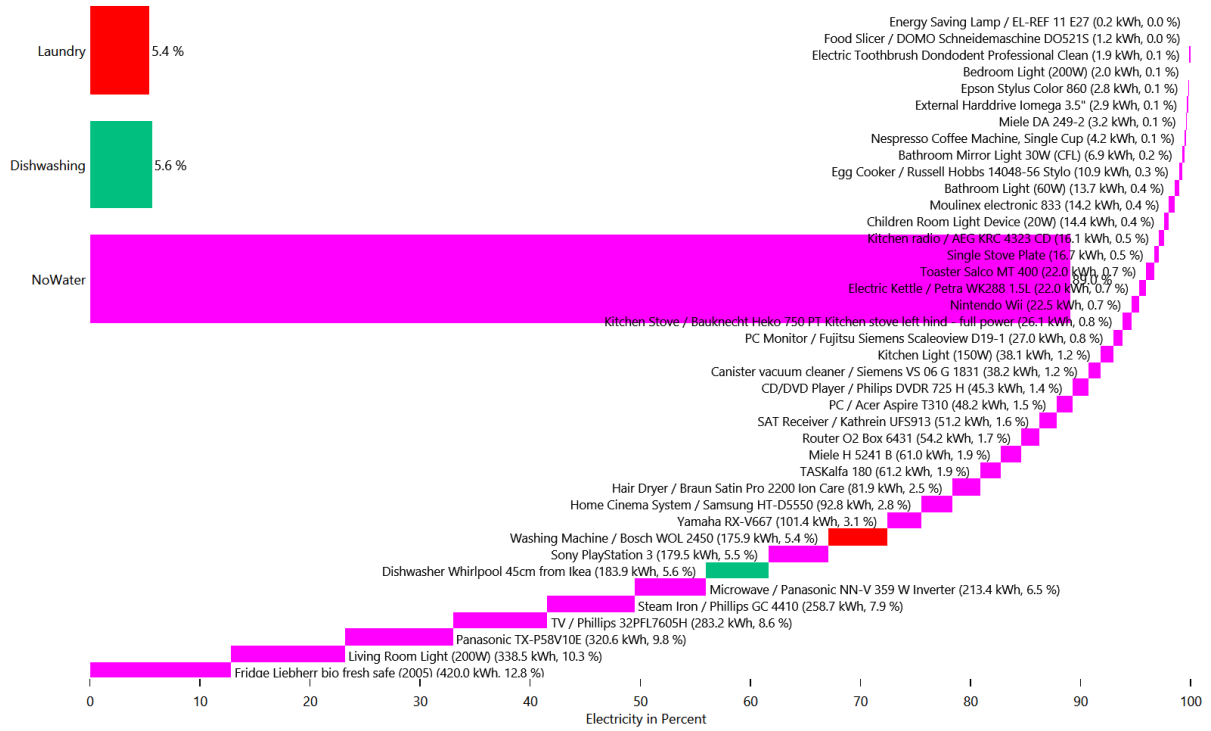
Cold Water



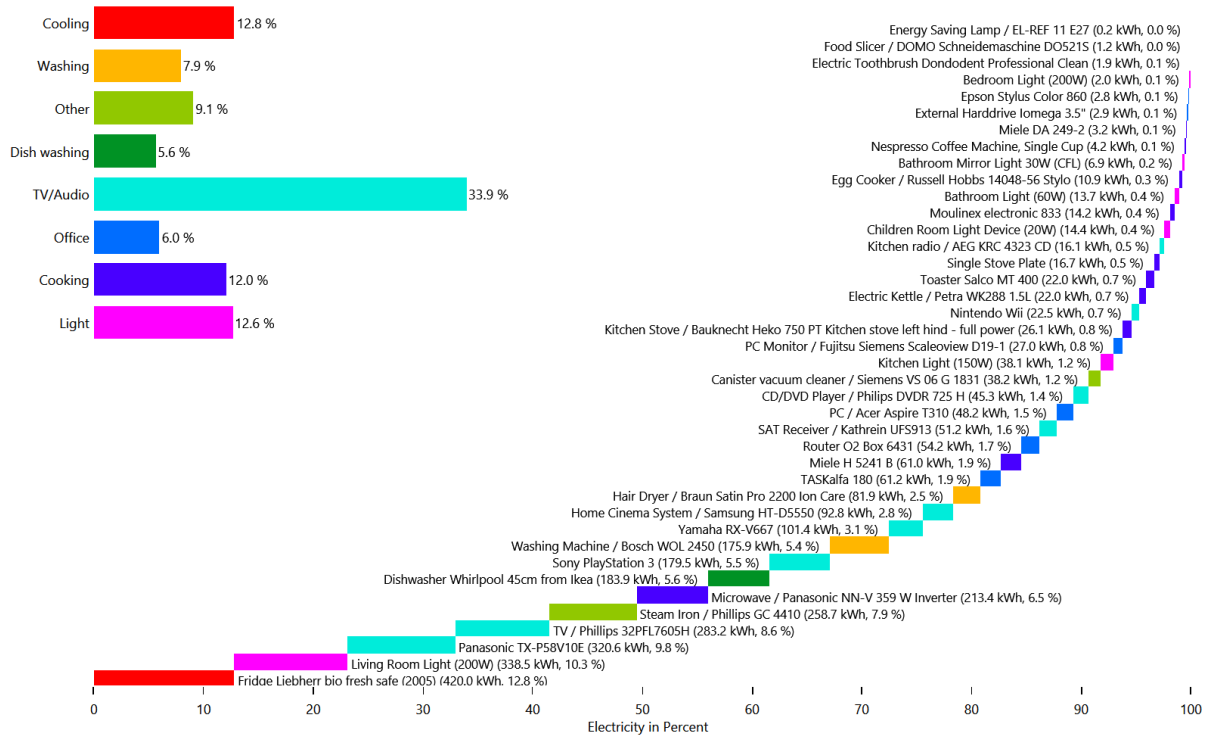
Cold Water



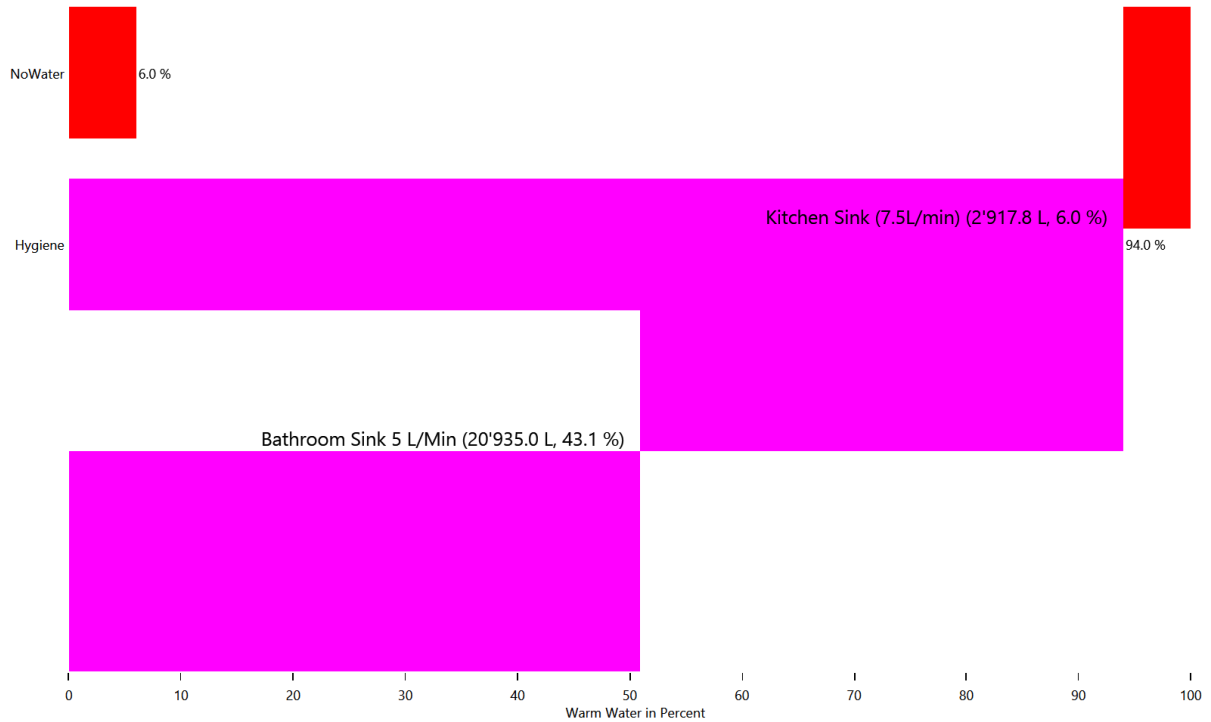
Electricity



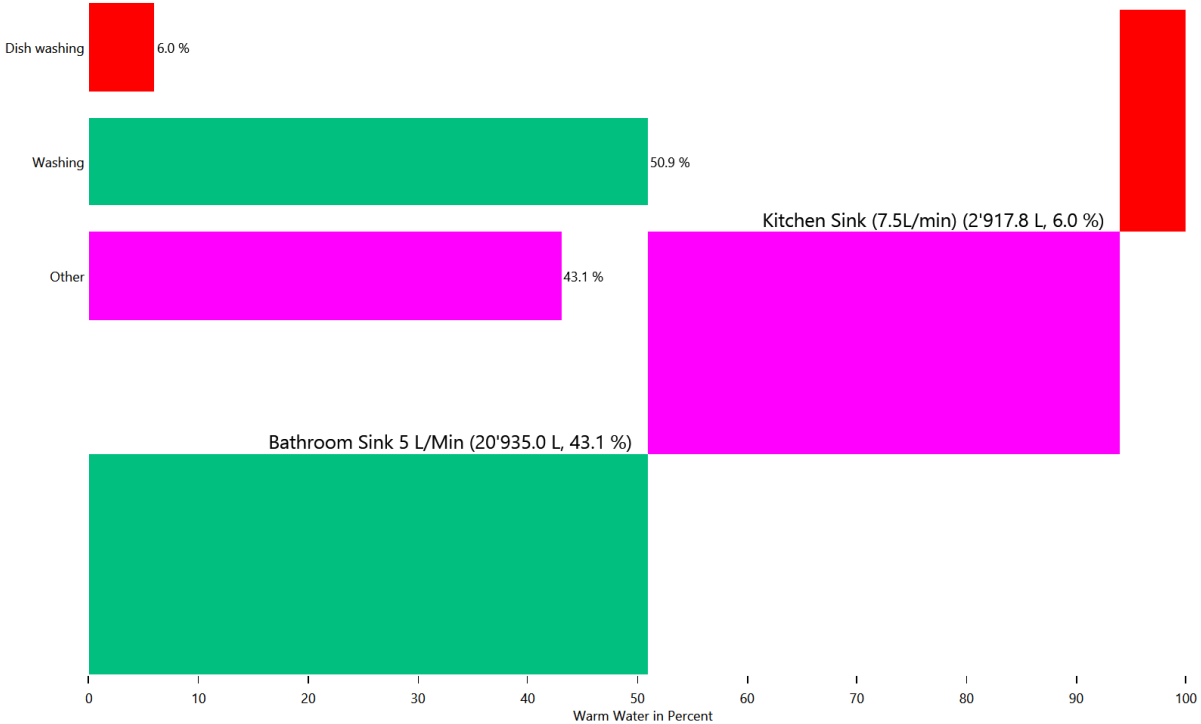
Electricity



Warm Water



Warm Water

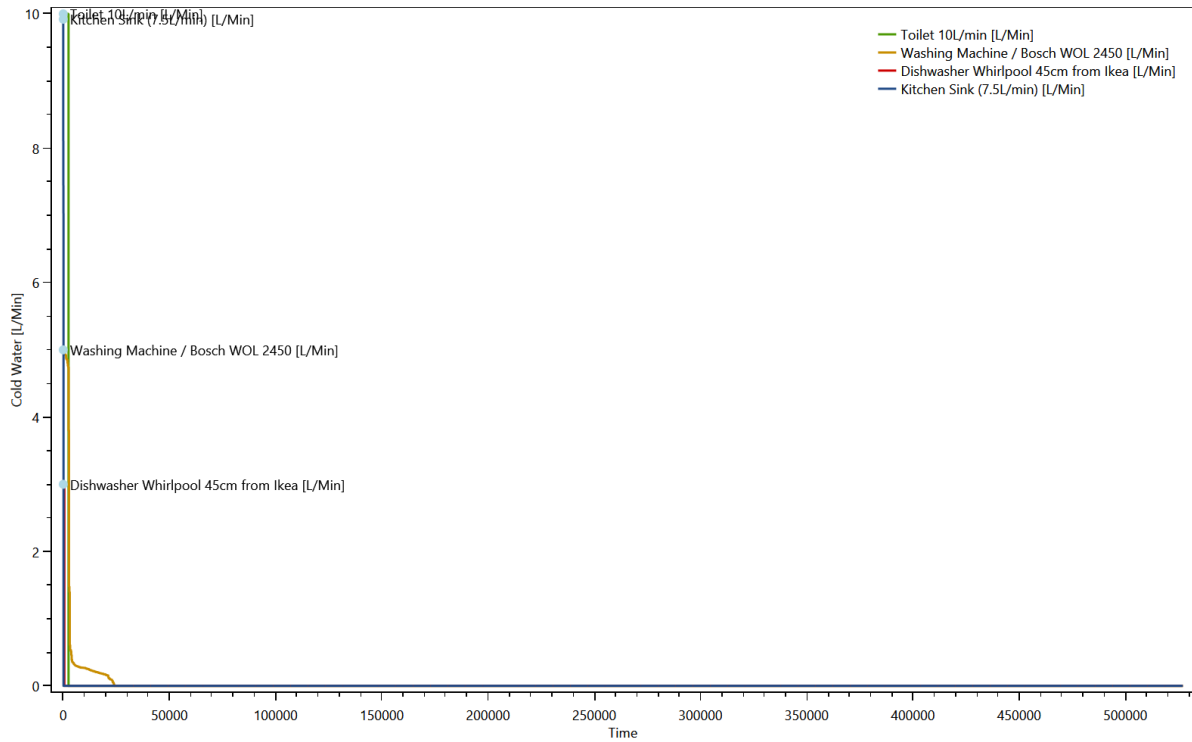


Duration curve for each device for each load type

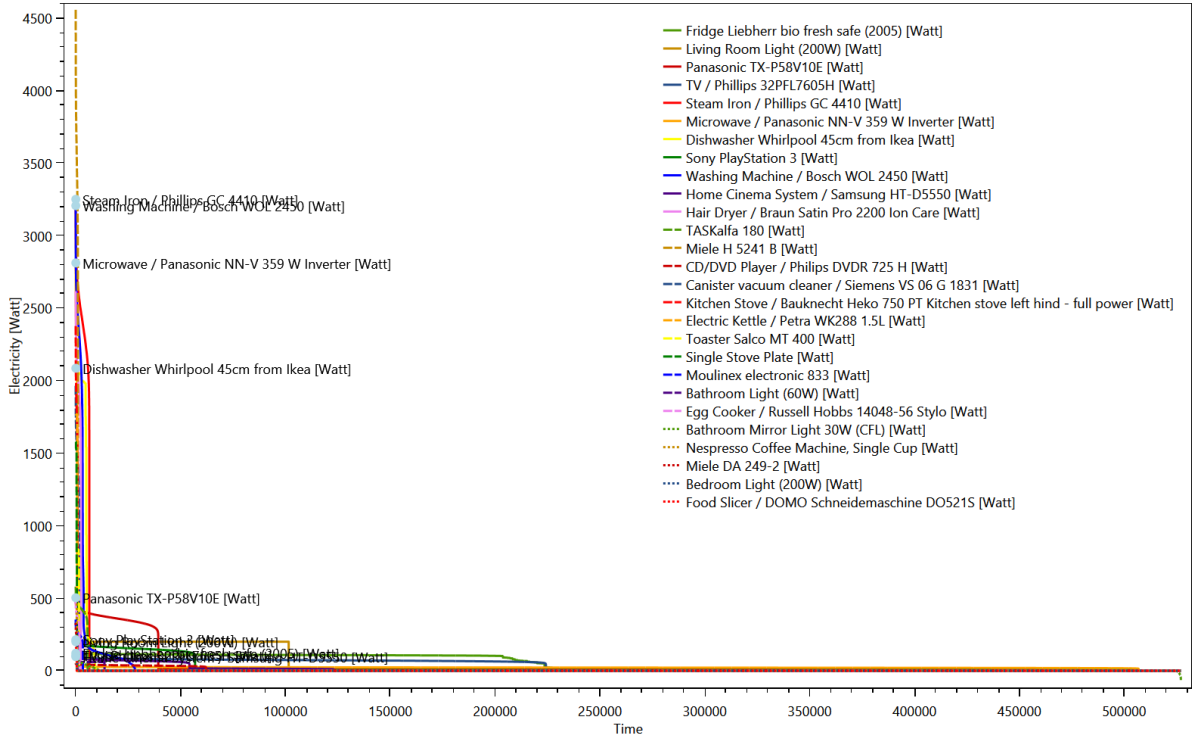
This is made from the files starting with: DeviceDurationCurves

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

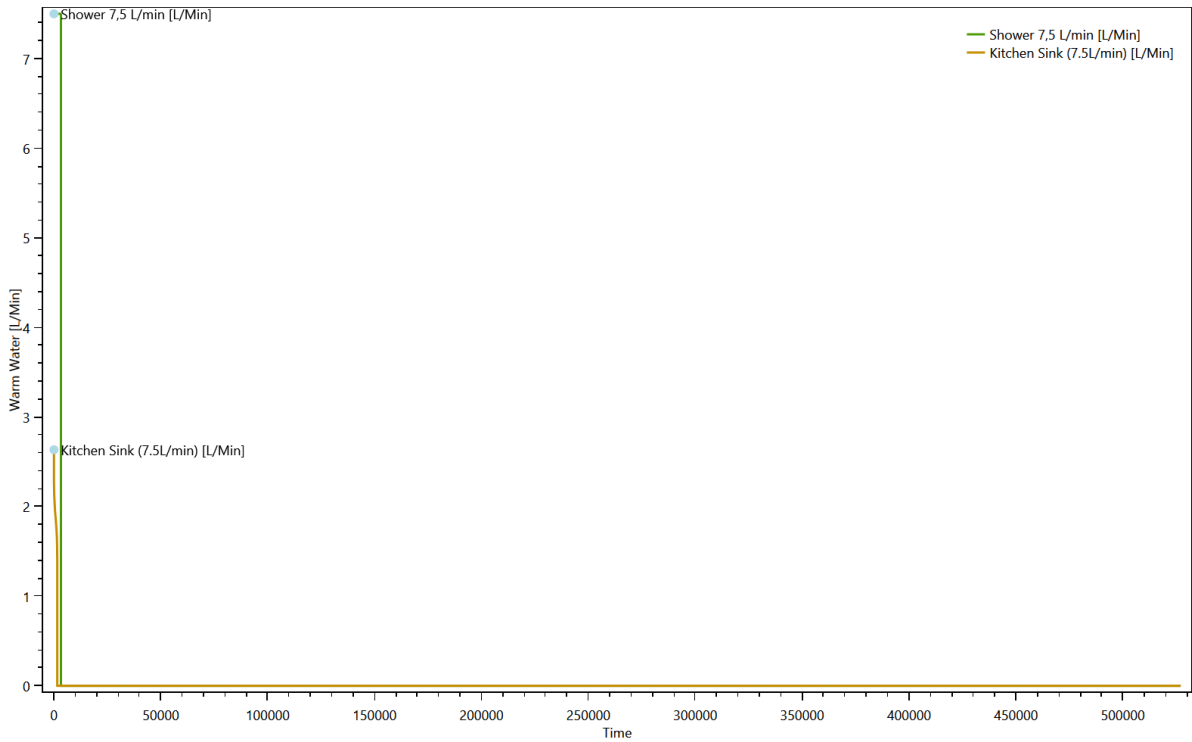
Cold Water



Electricity



Warm Water

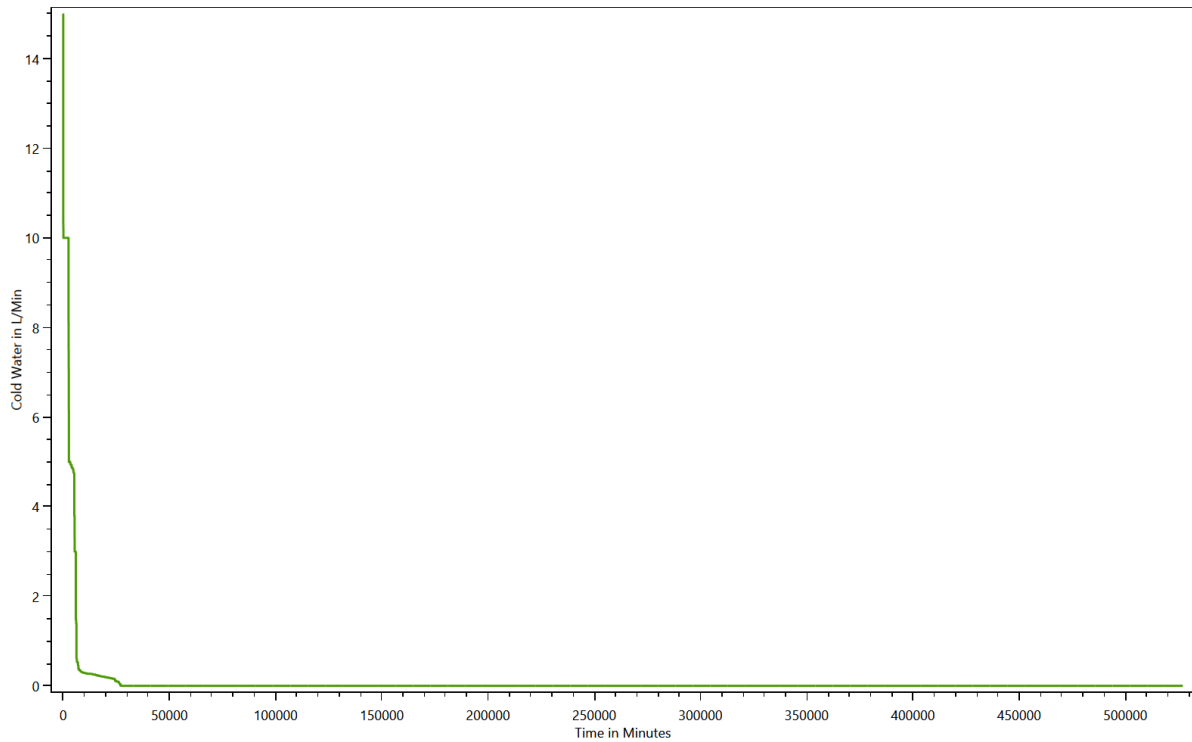


Duration curve for each load type

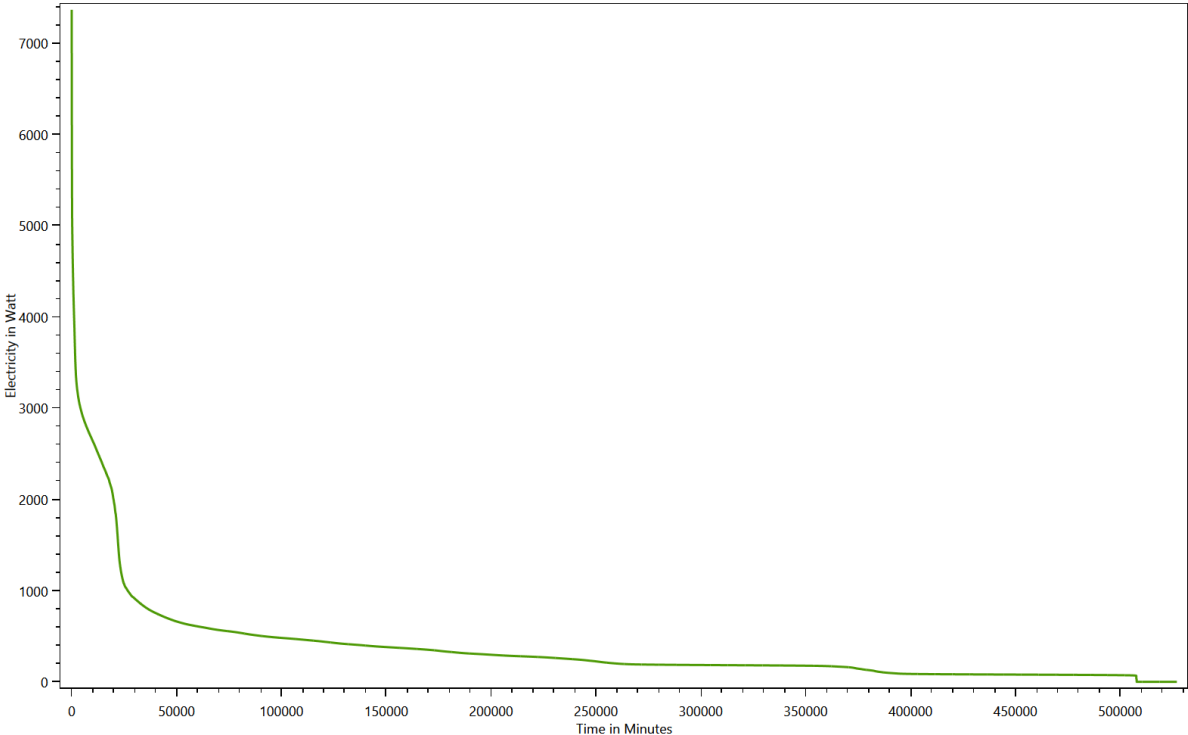
This is made from the files starting with: DurationCurve

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

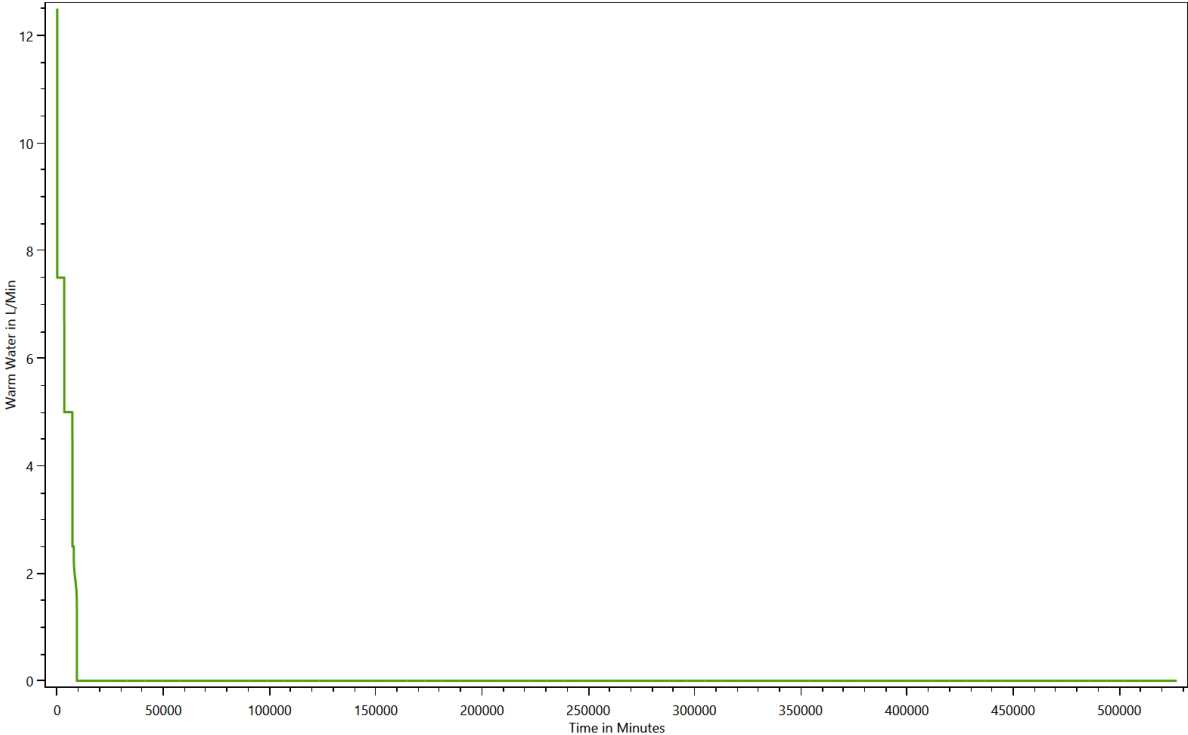
Cold Water



Electricity



Warm Water

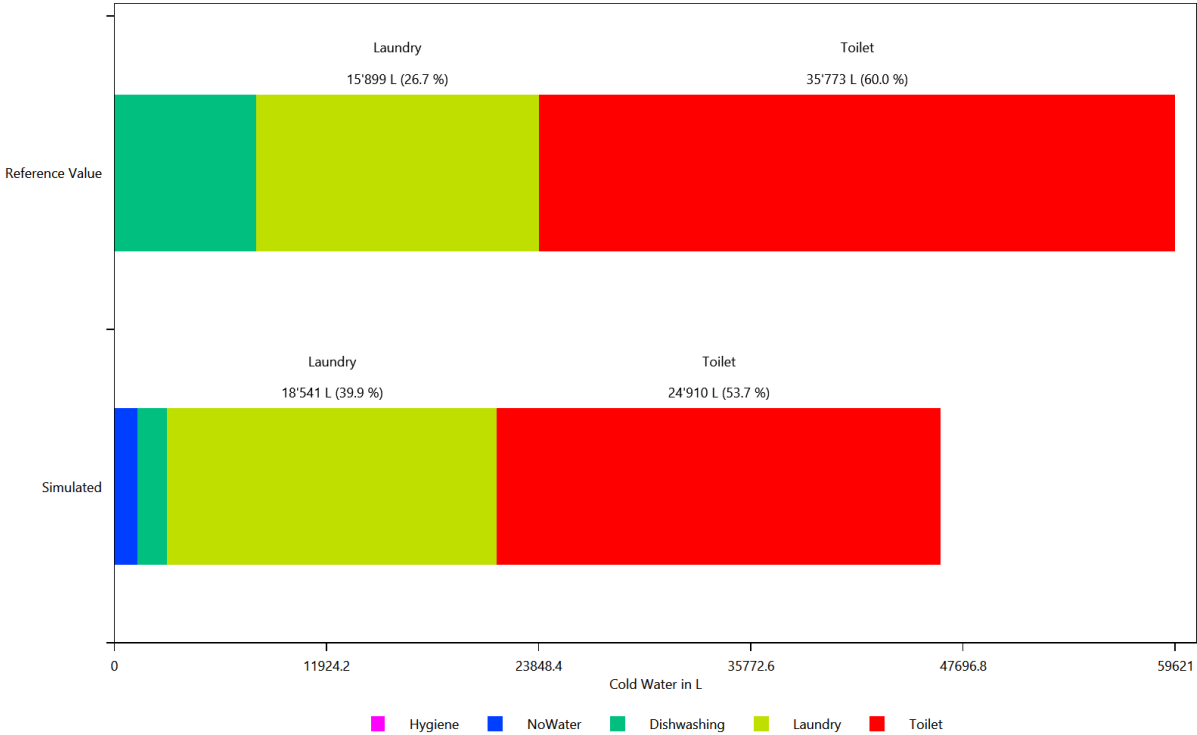


Grouped energy use for each load type for each device

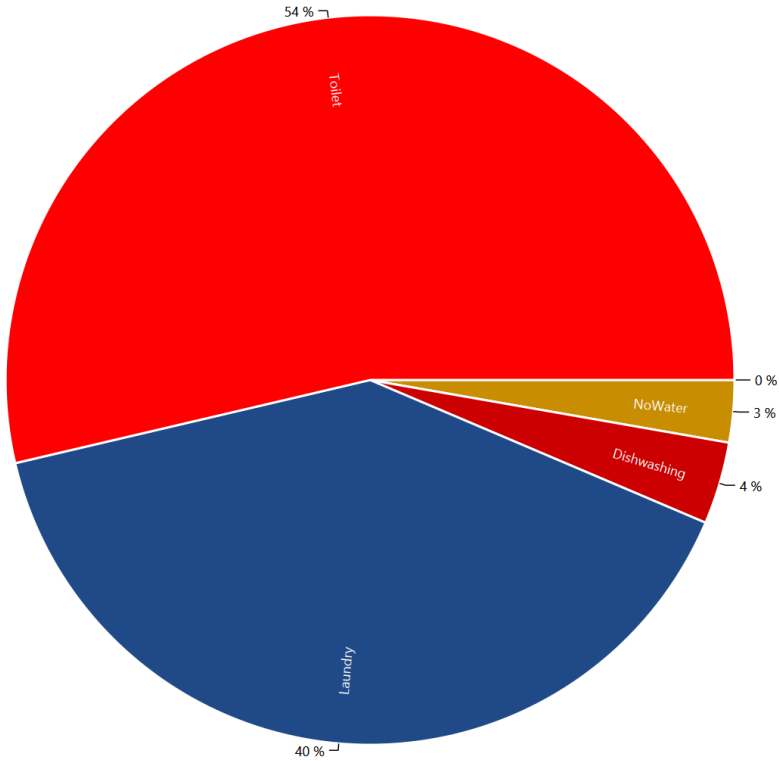
This is made from the files starting with: DeviceTaggingSet

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

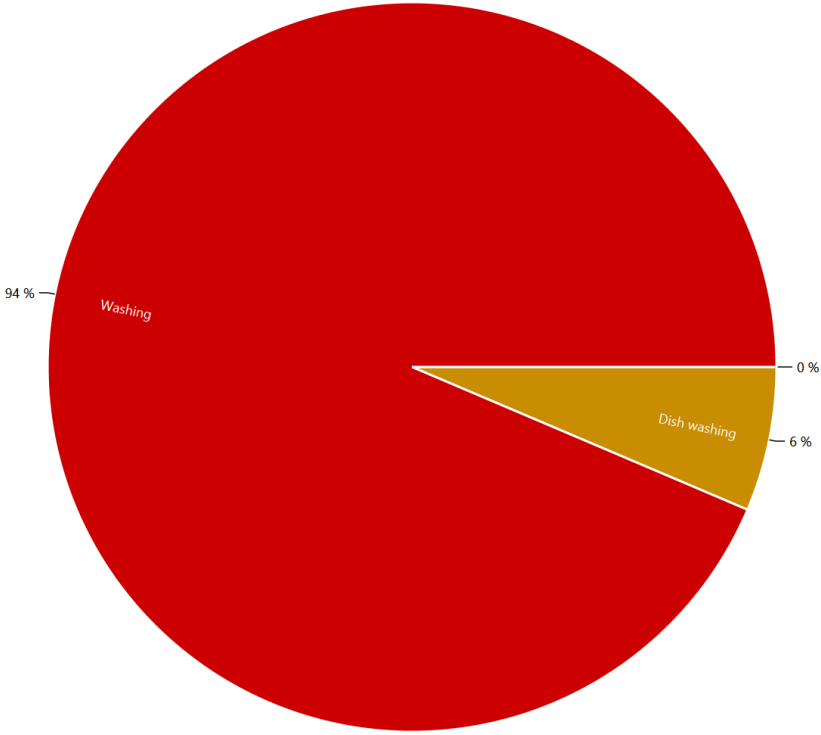
HH0 - Destatis Water Usage Statistics - Cold Water



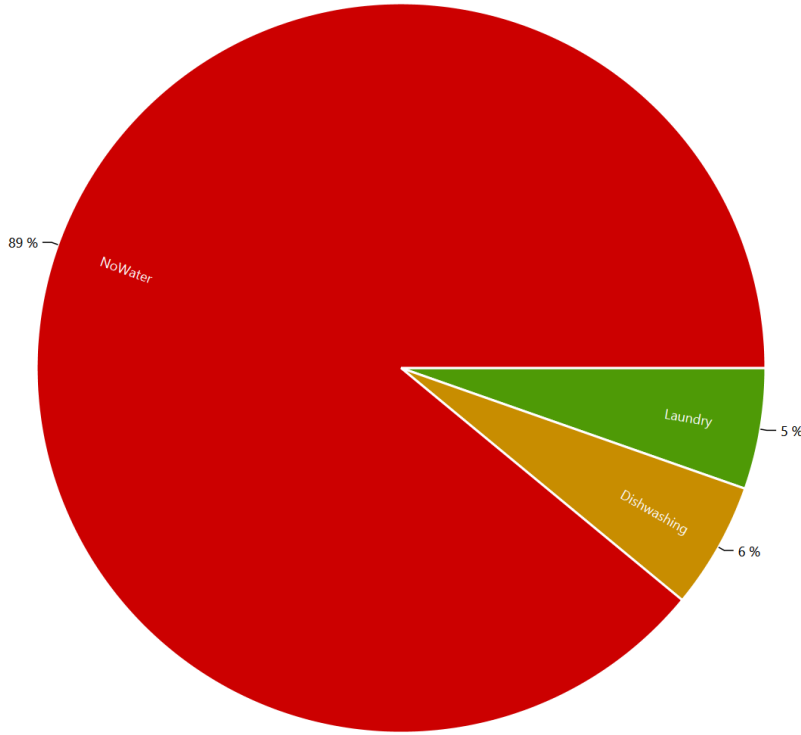
HH0 - Destatis Water Usage Statistics - Cold Water



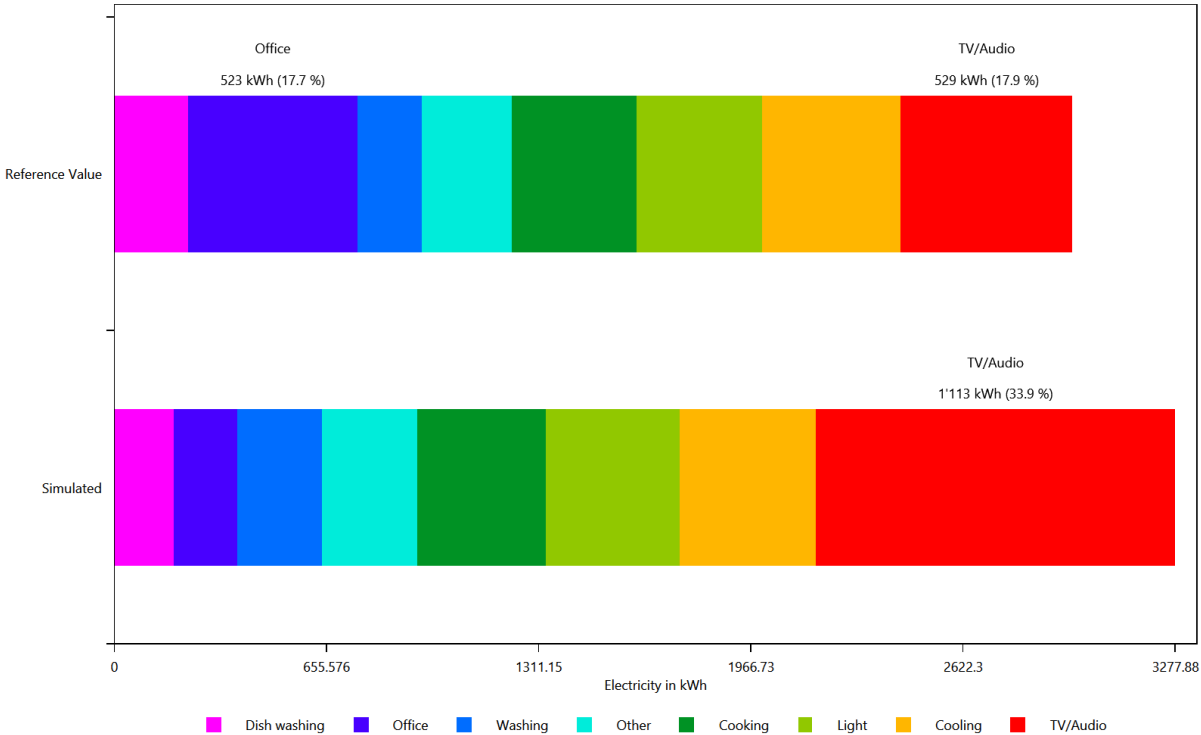
HH0 - Energieagentur - Cold Water



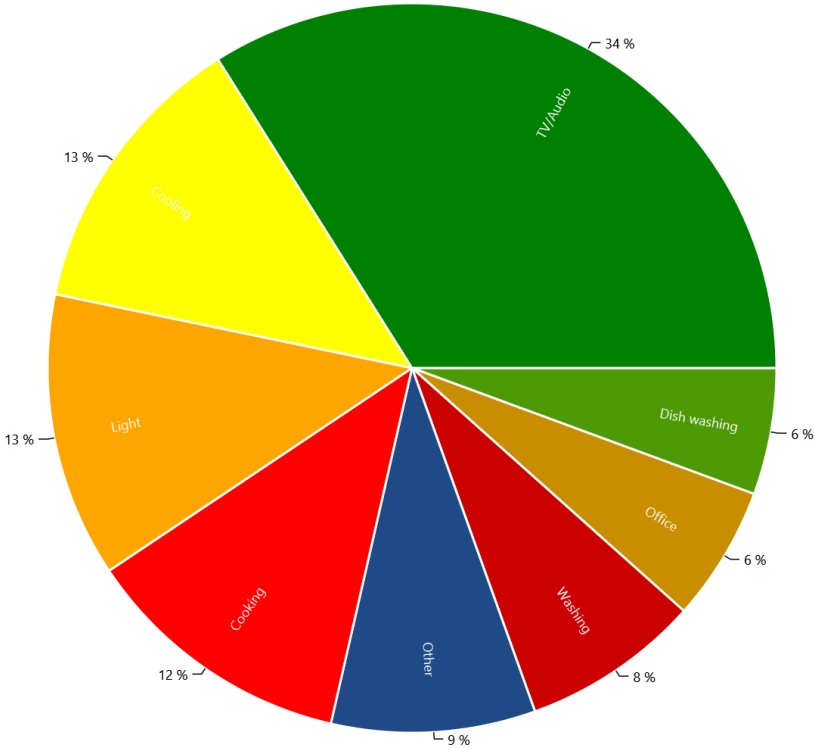
HH0 - Destatis Water Usage Statistics - Electricity



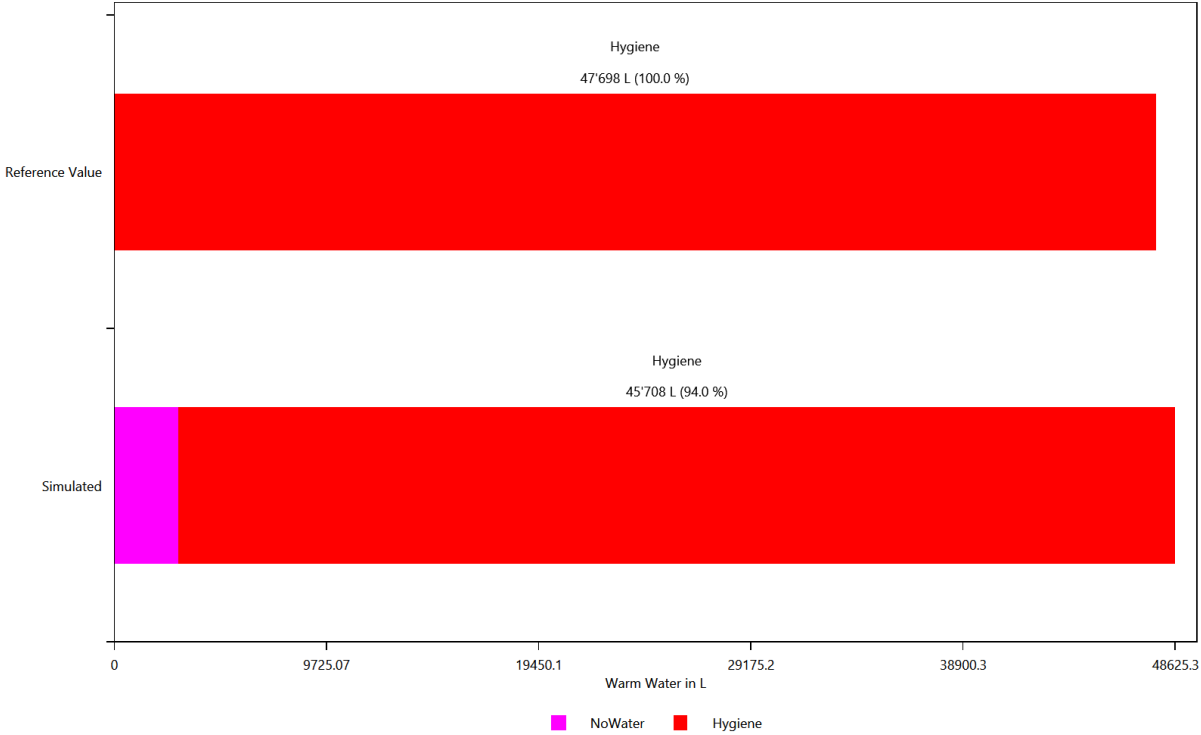
HH0 - Energieagentur - Electricity



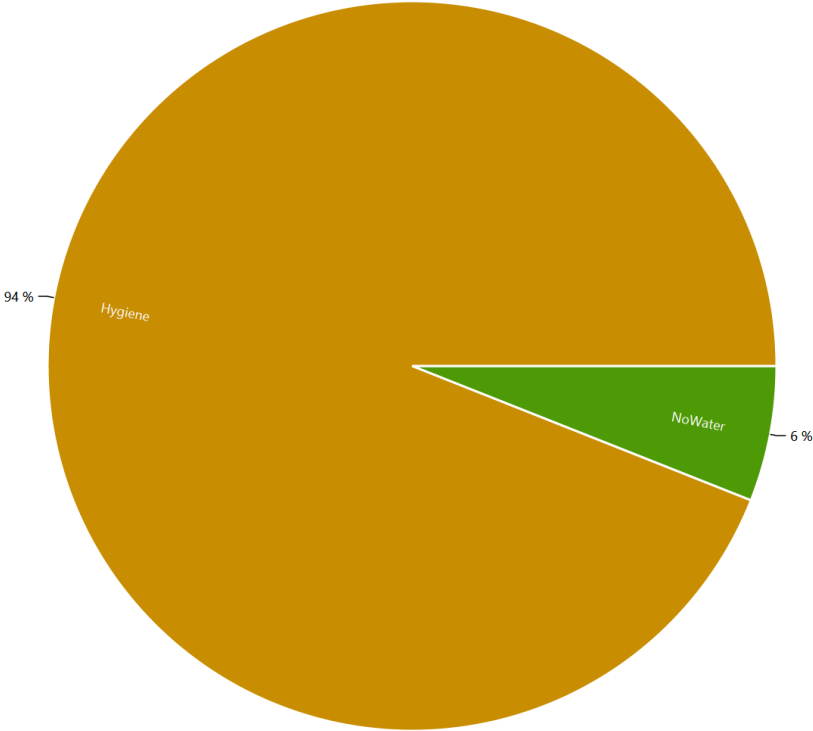
HH0 - Energieagentur - Electricity



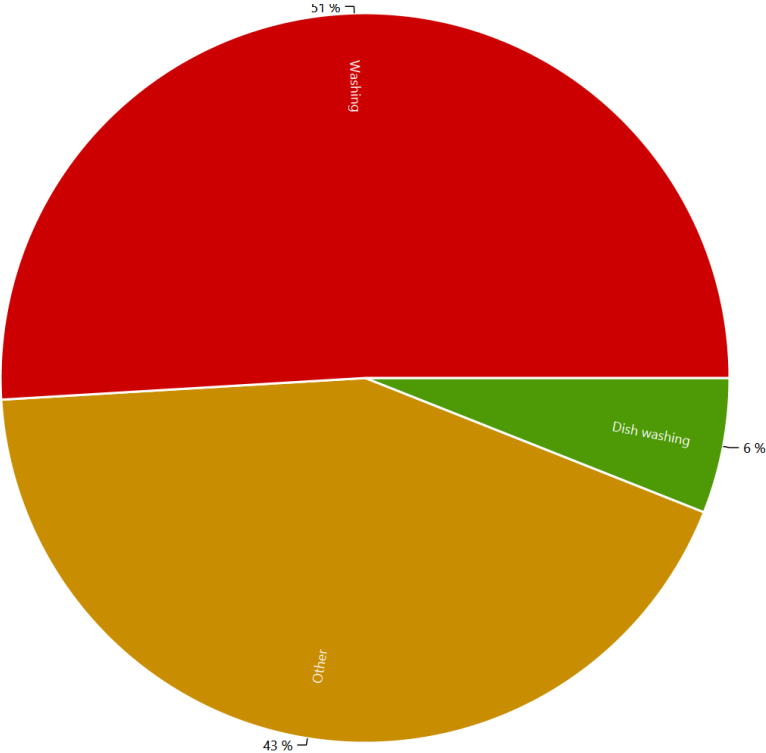
HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

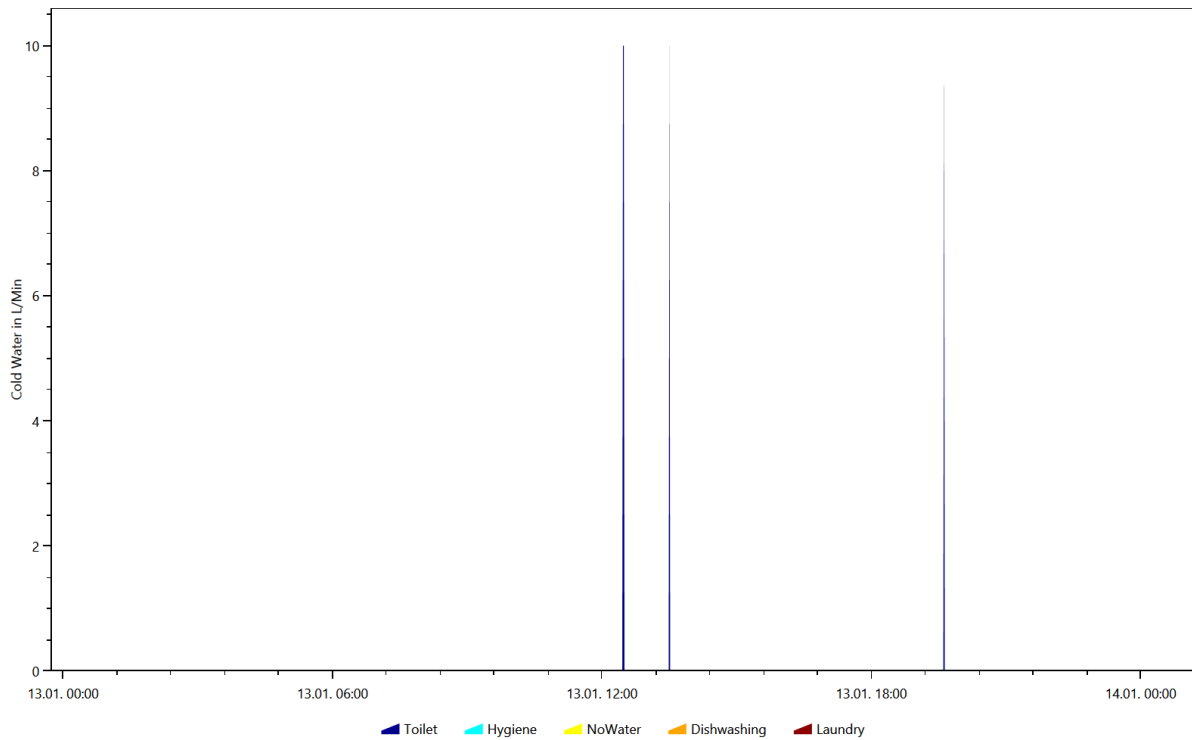


Example of the device profiles for each load type

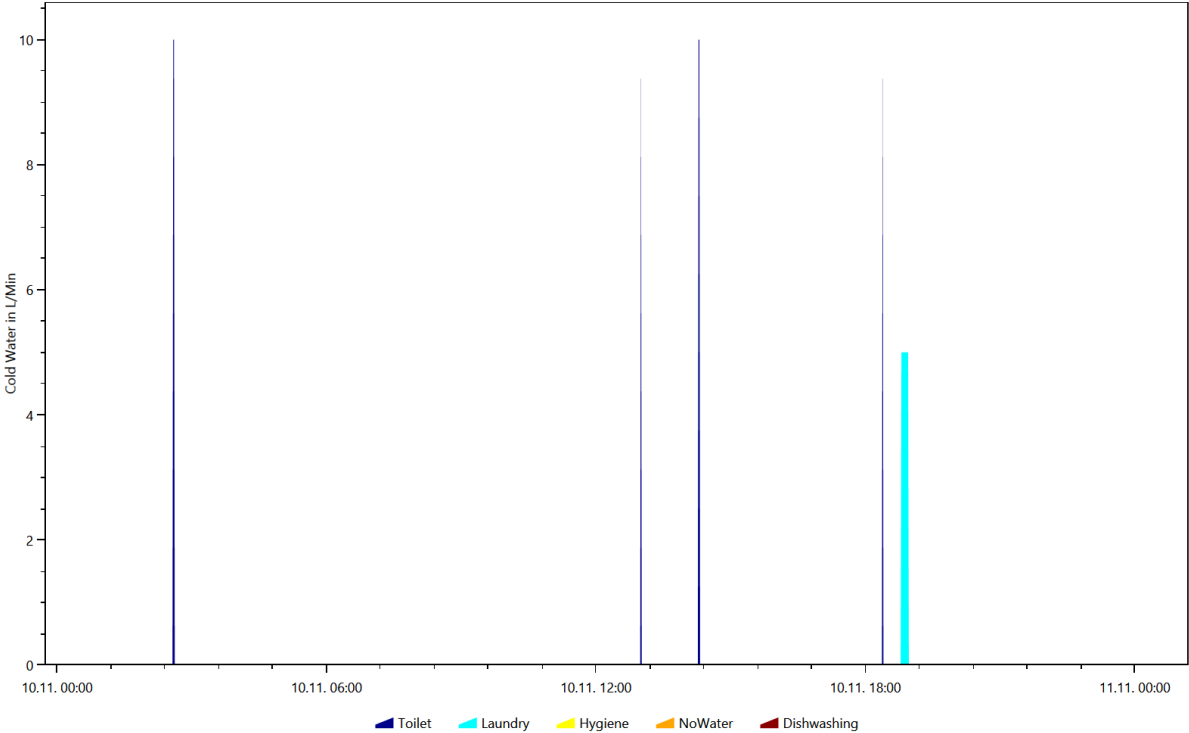
This is made from the files starting with: DeviceProfiles

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

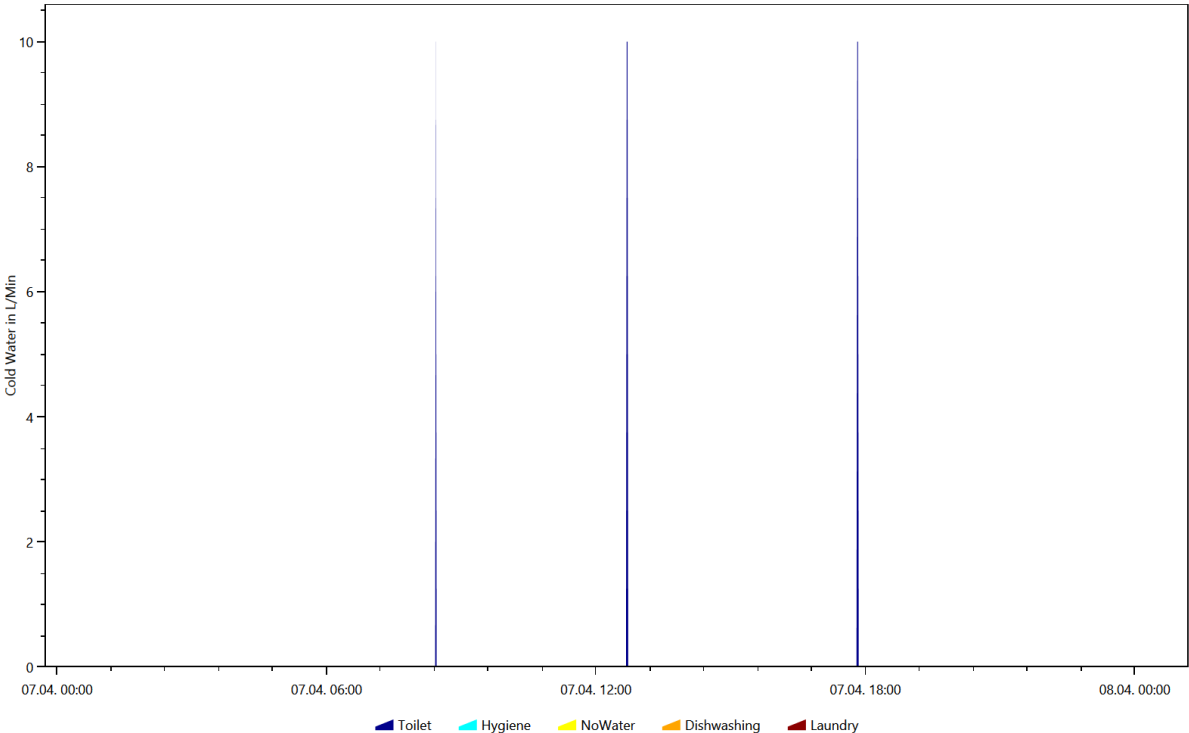
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.13



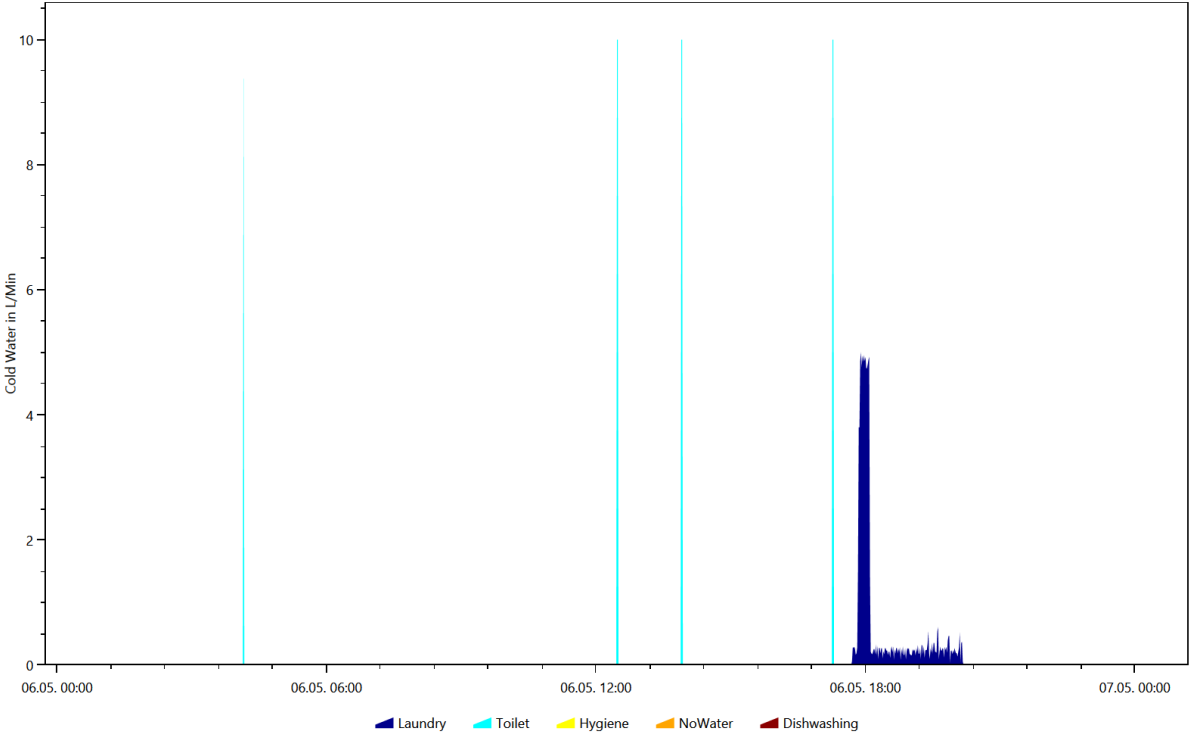
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.10



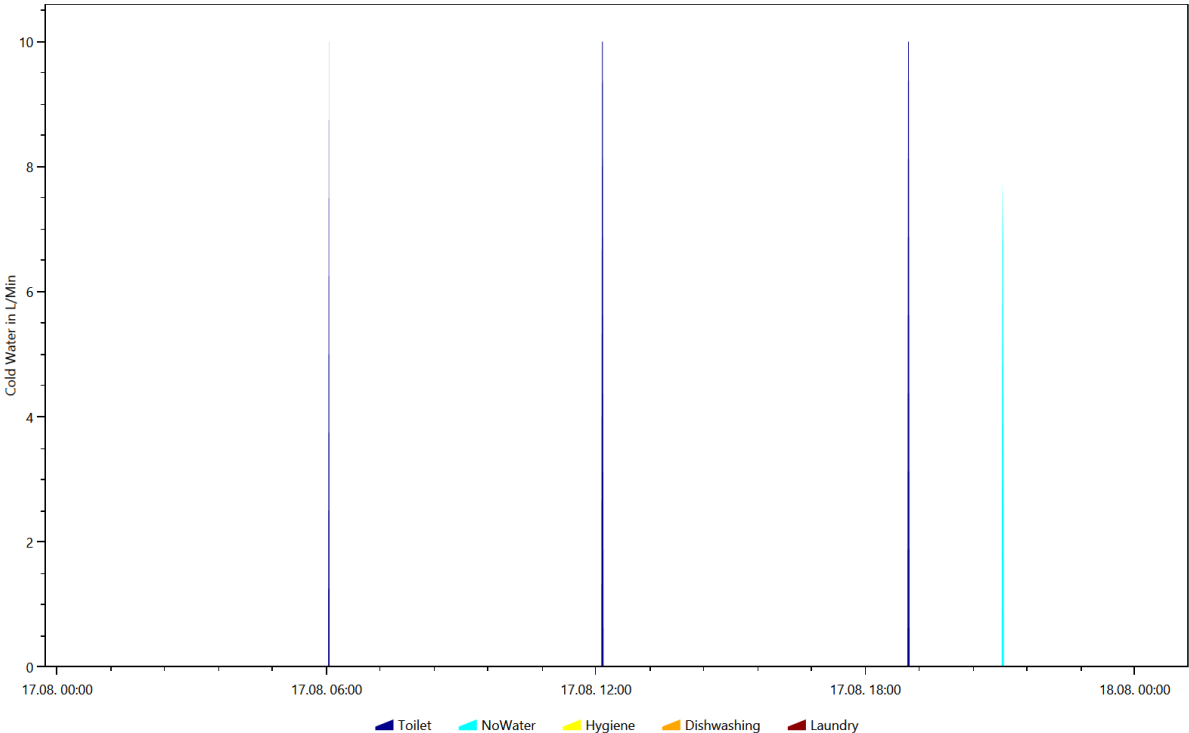
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.7



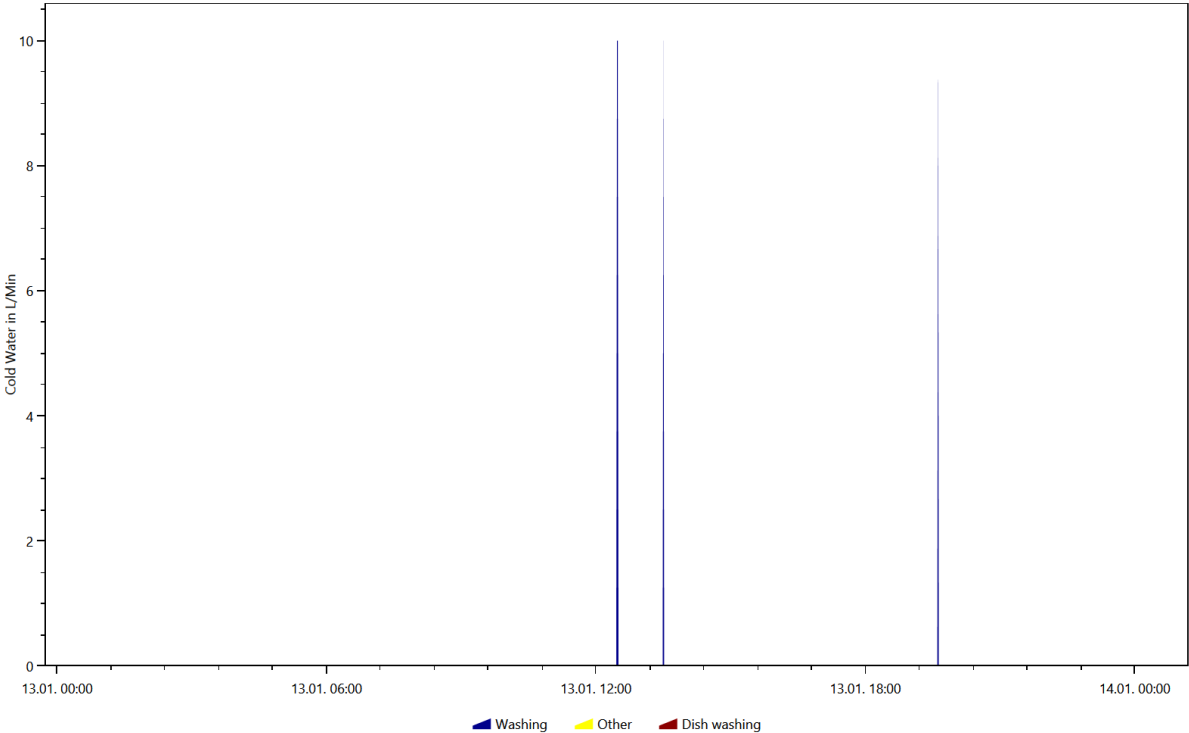
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.6



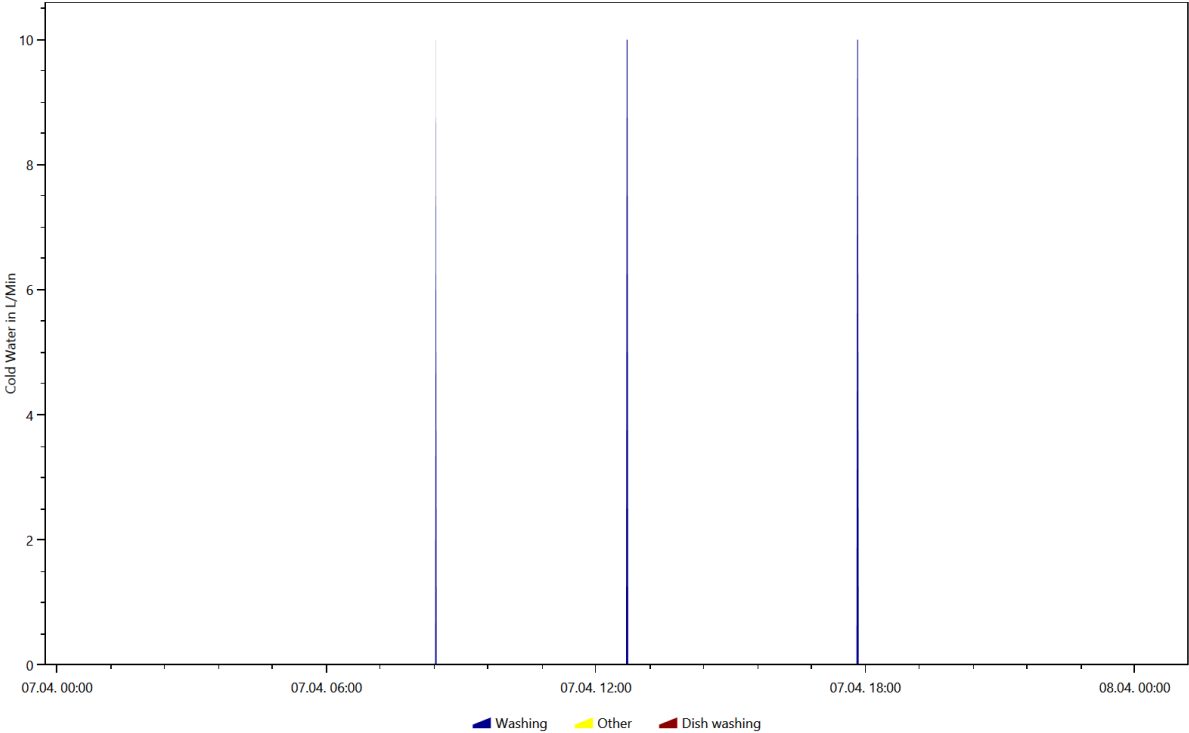
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.17



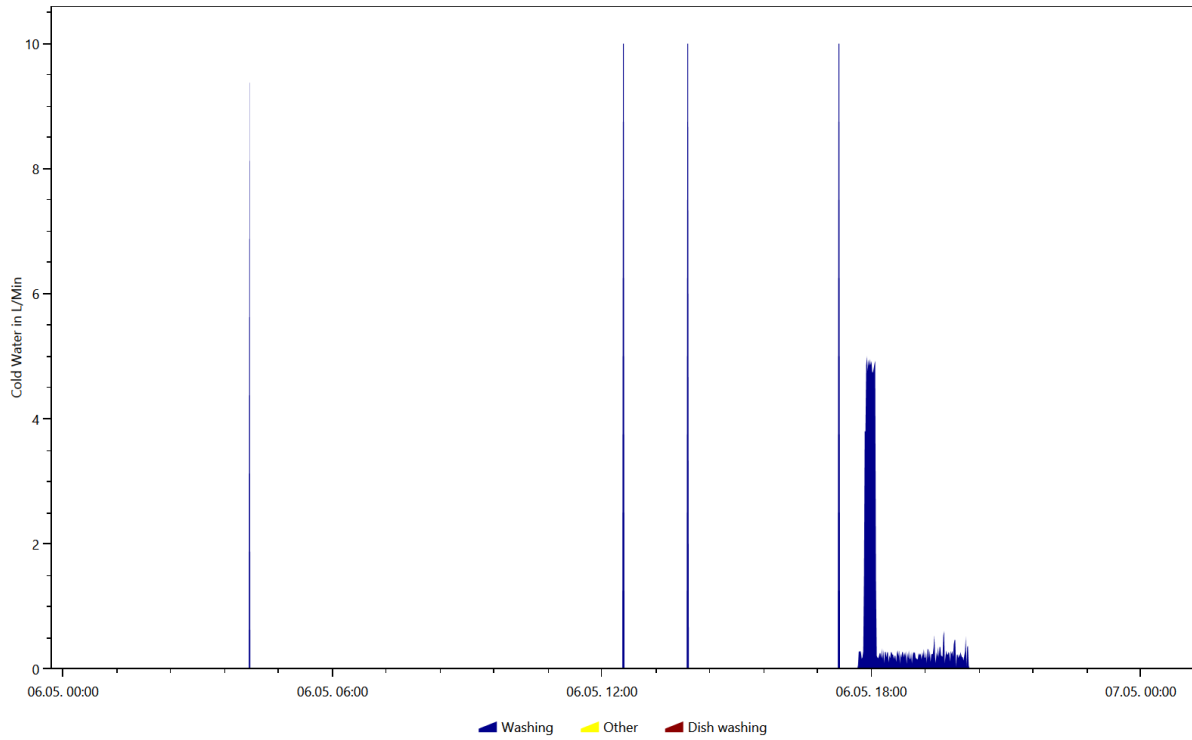
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.13



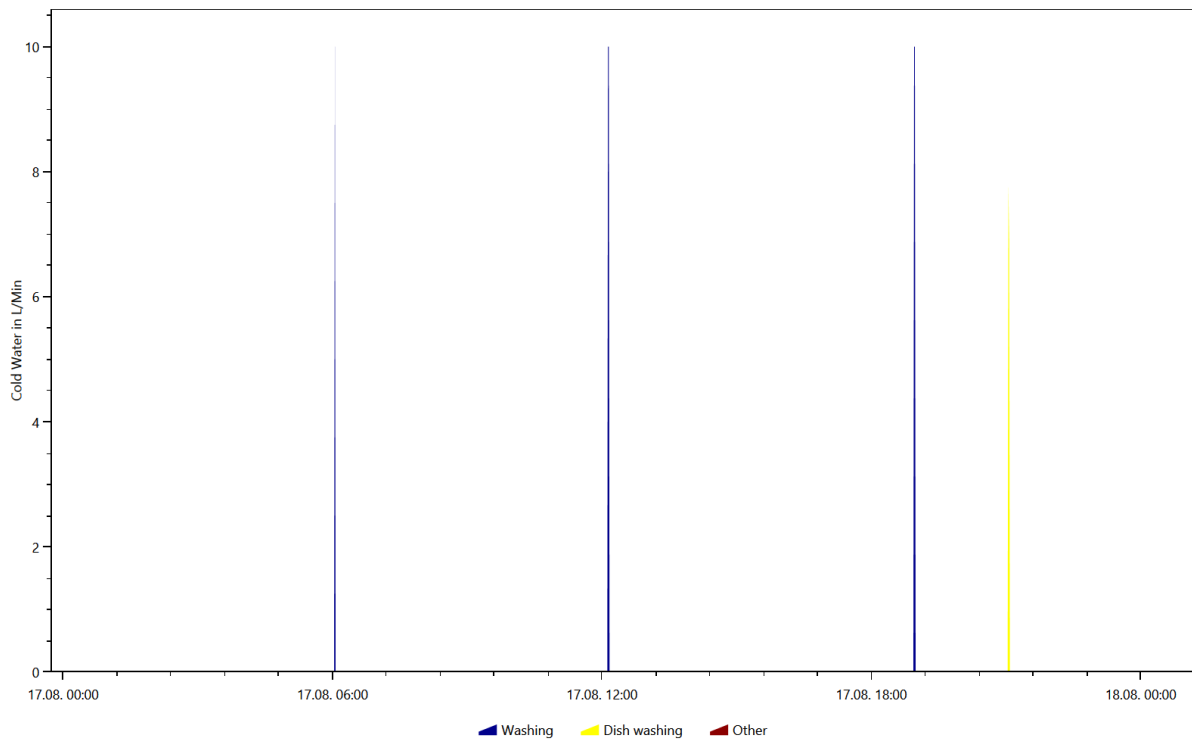
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.7



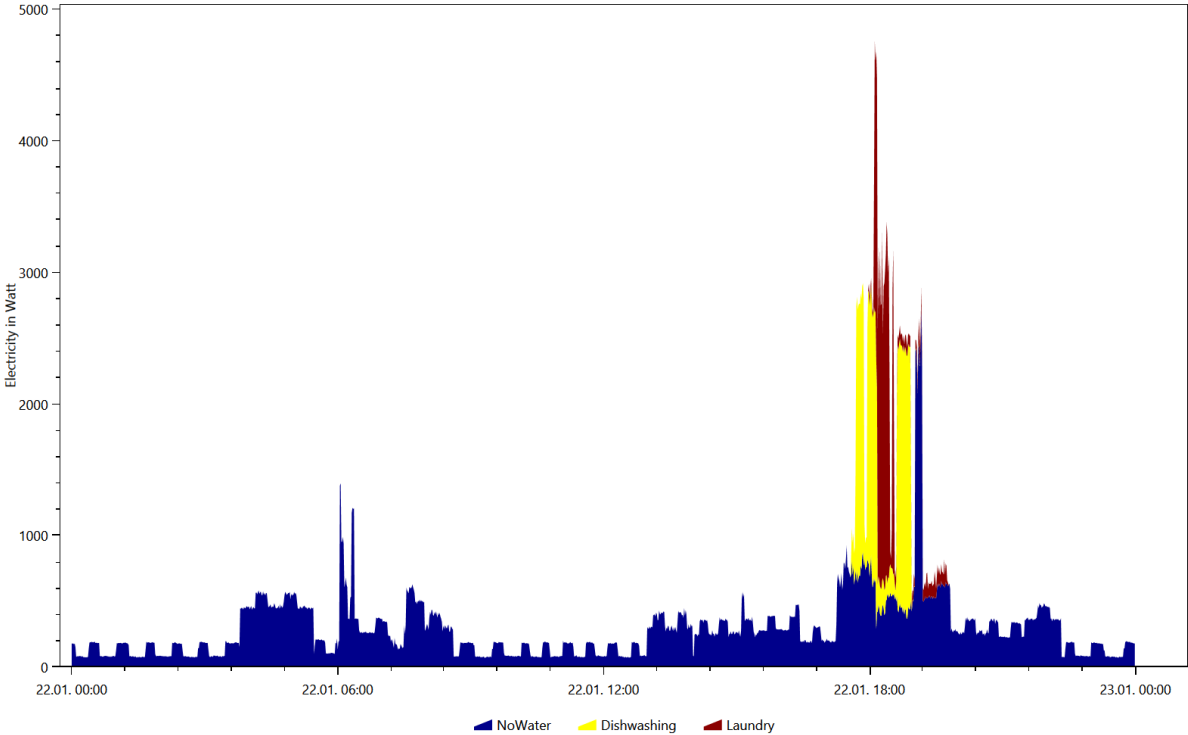
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.6



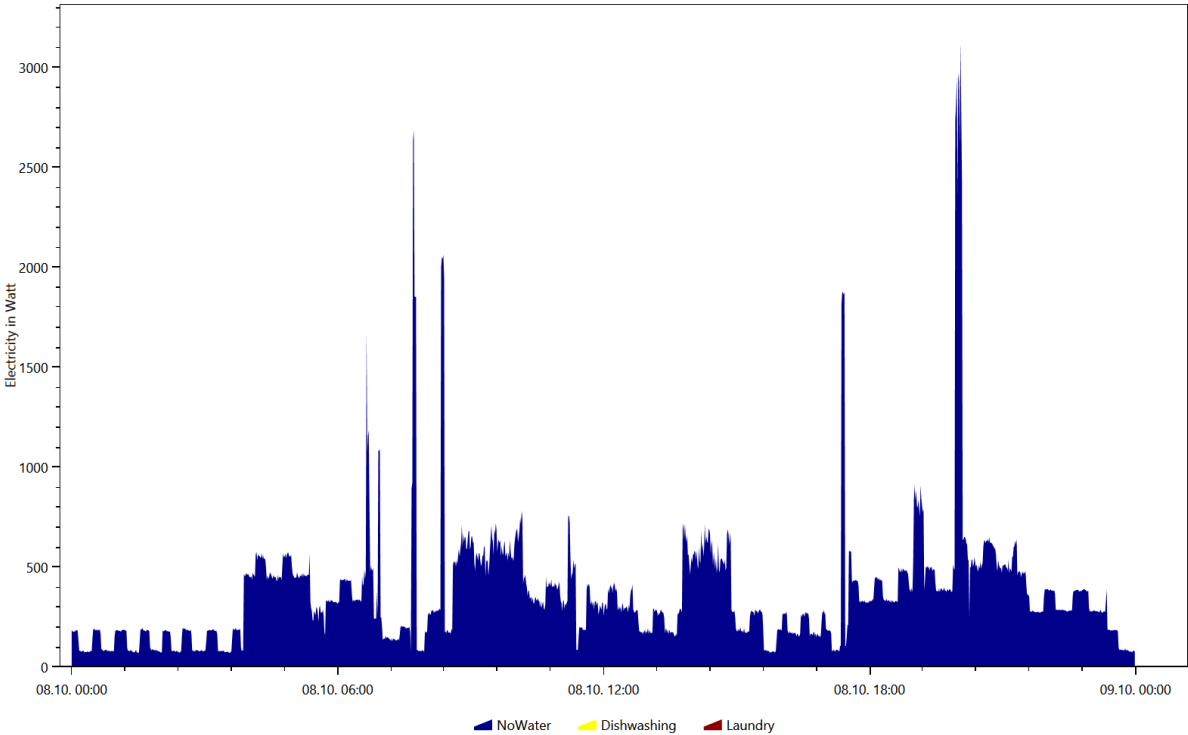
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.17



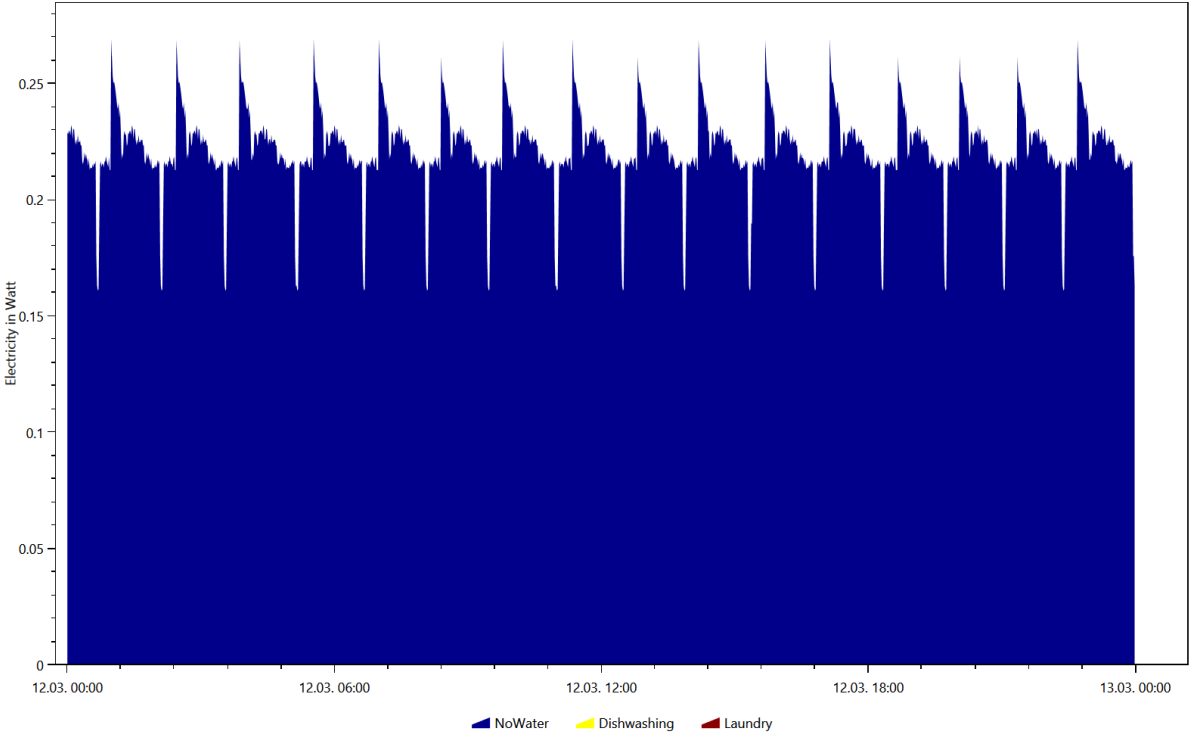
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.22



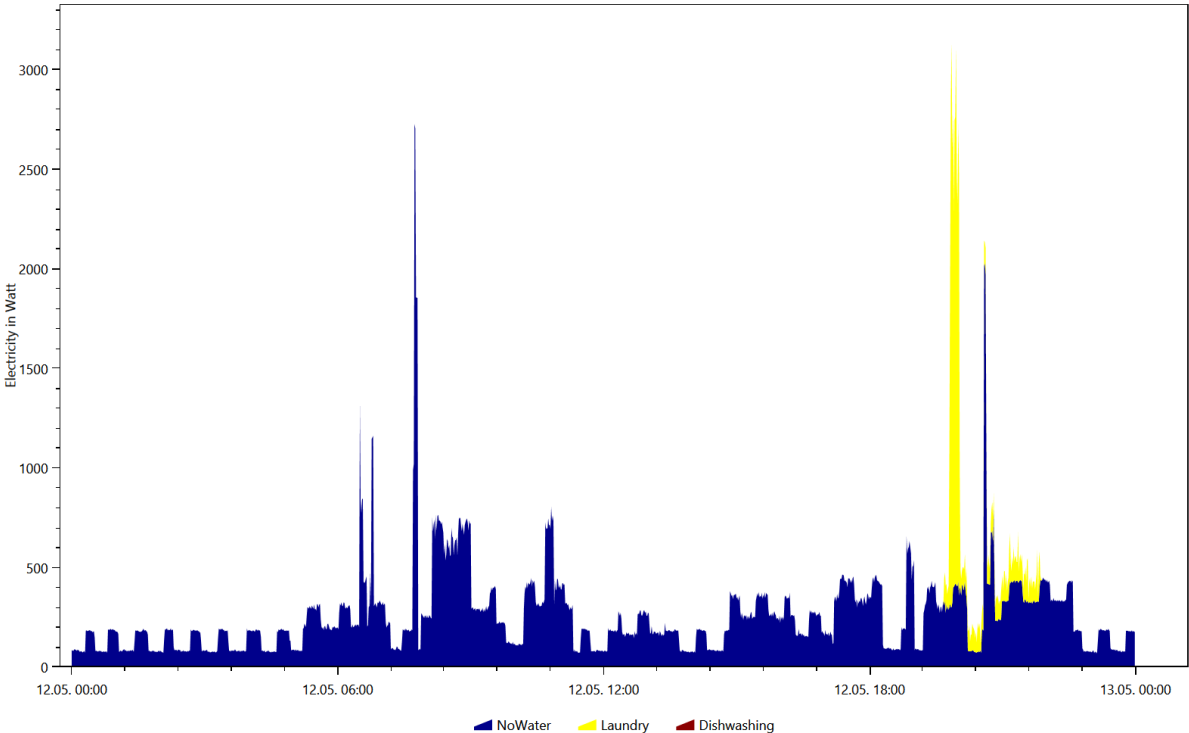
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.8



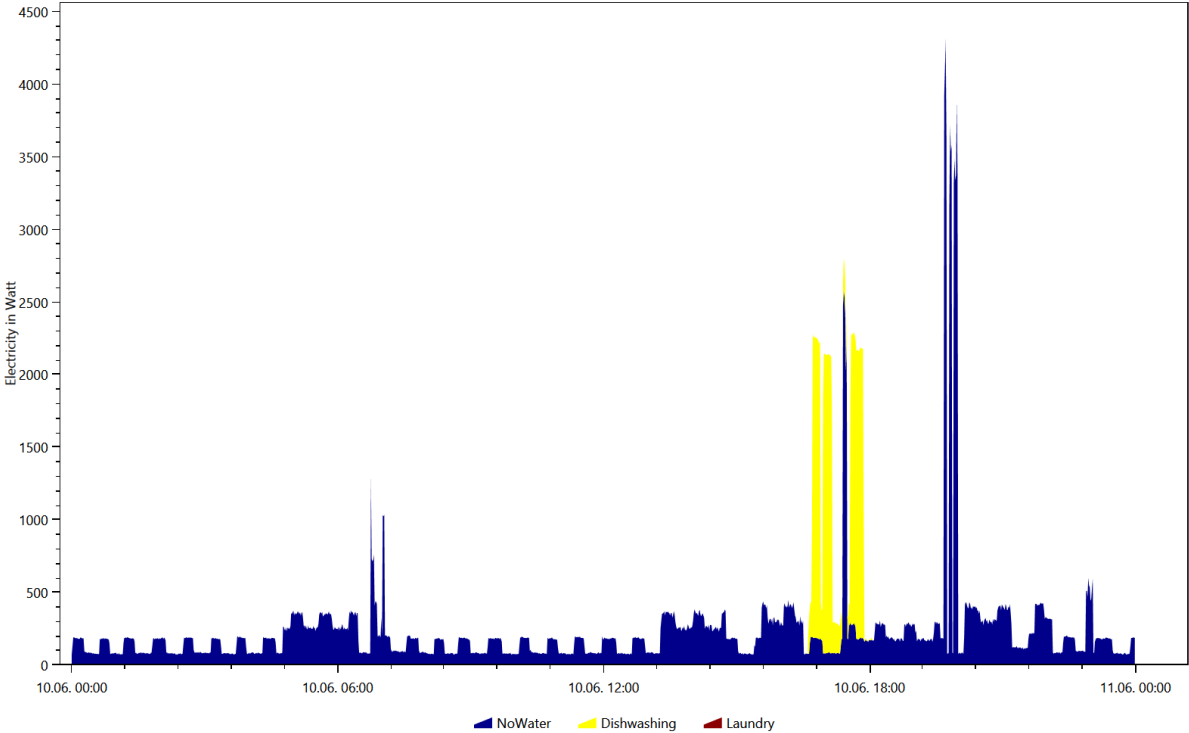
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.12



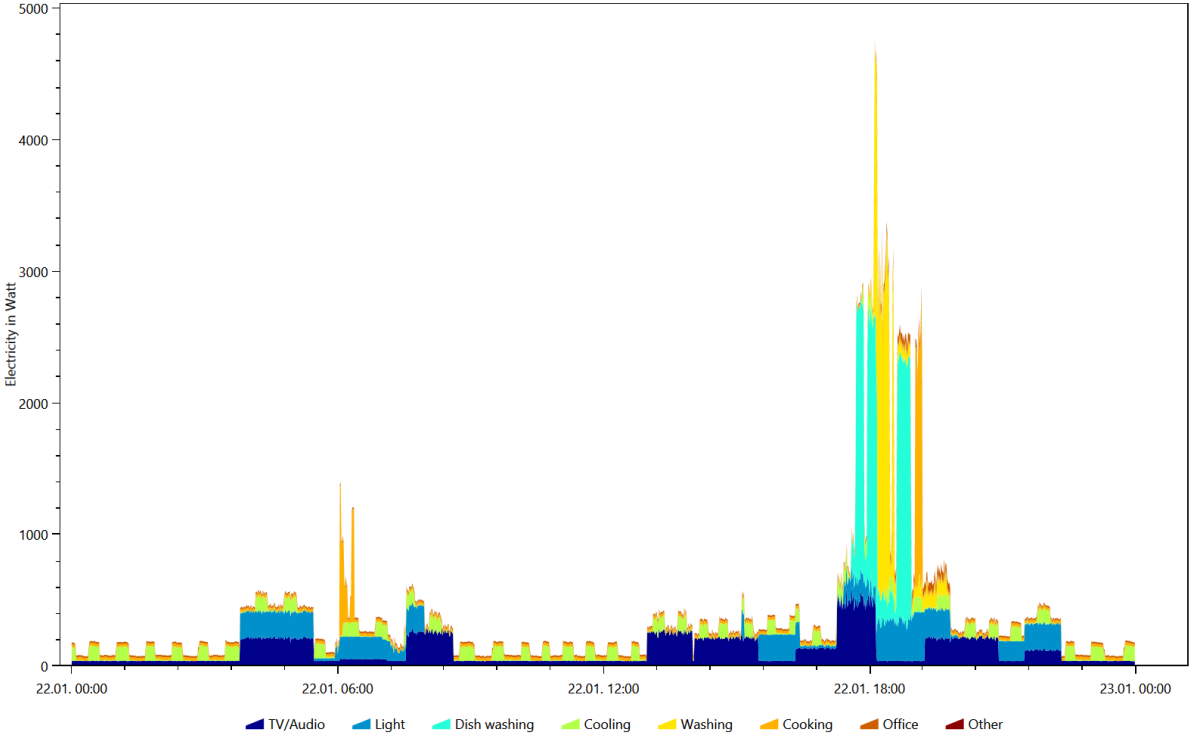
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.12



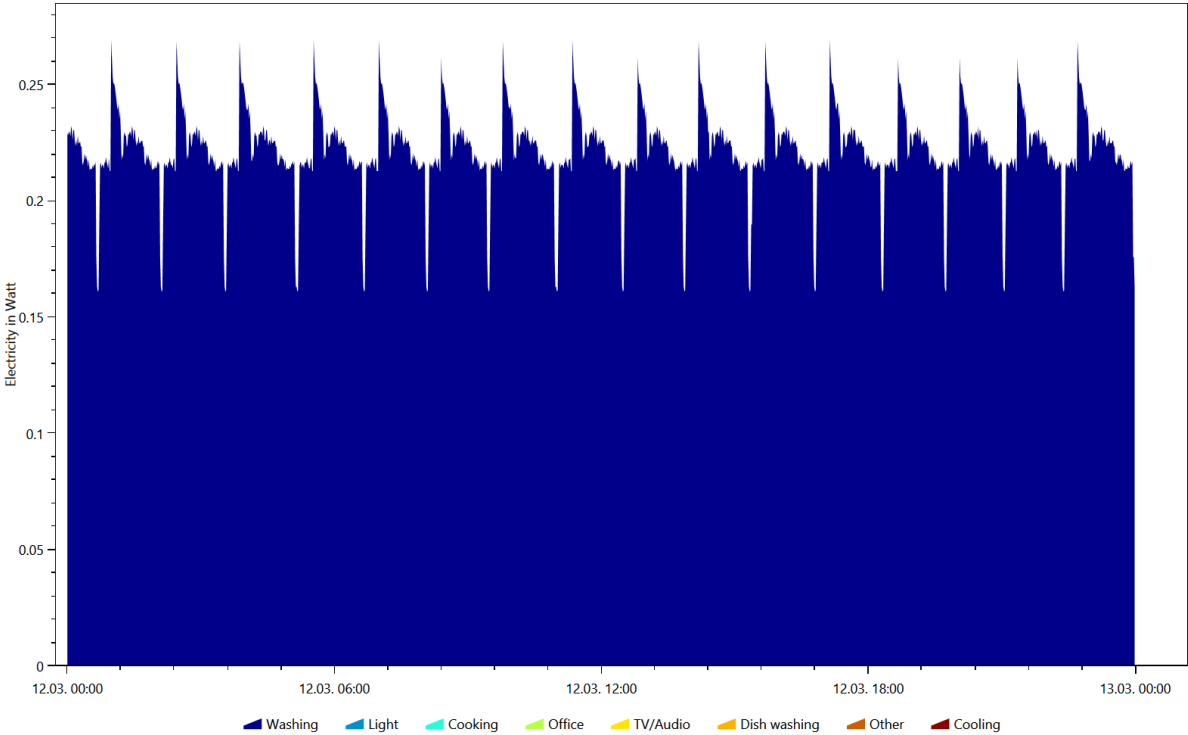
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.10



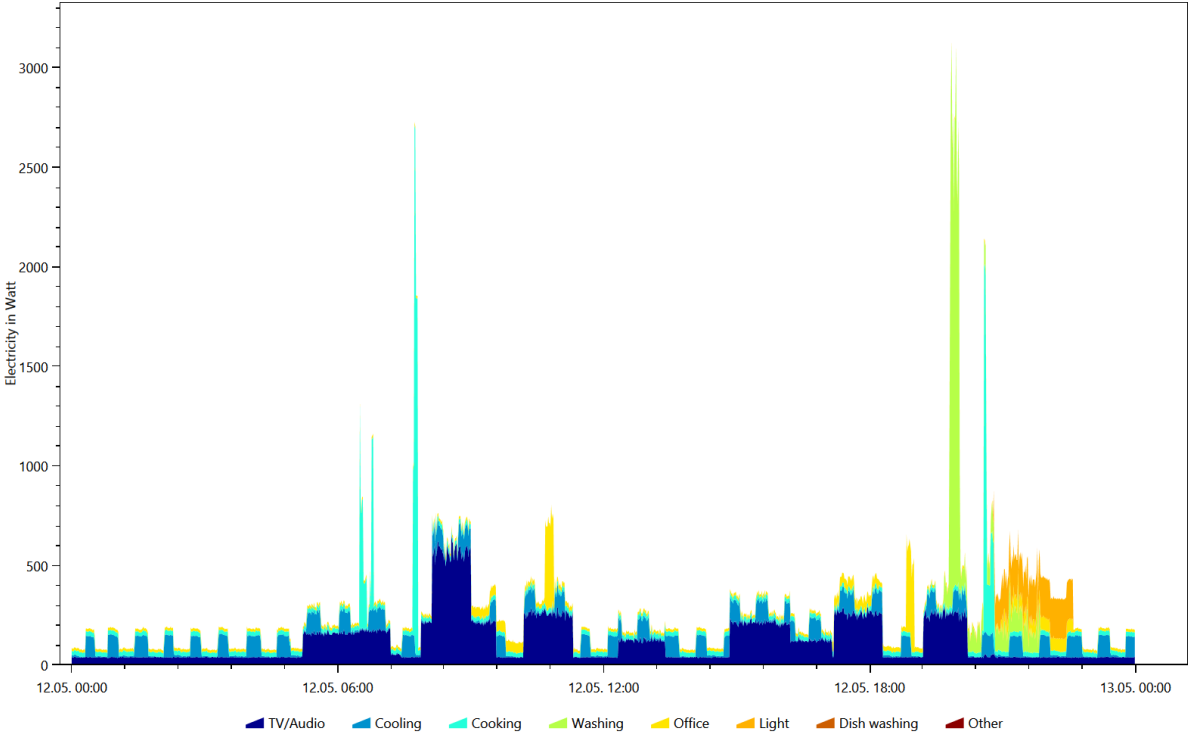
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.22



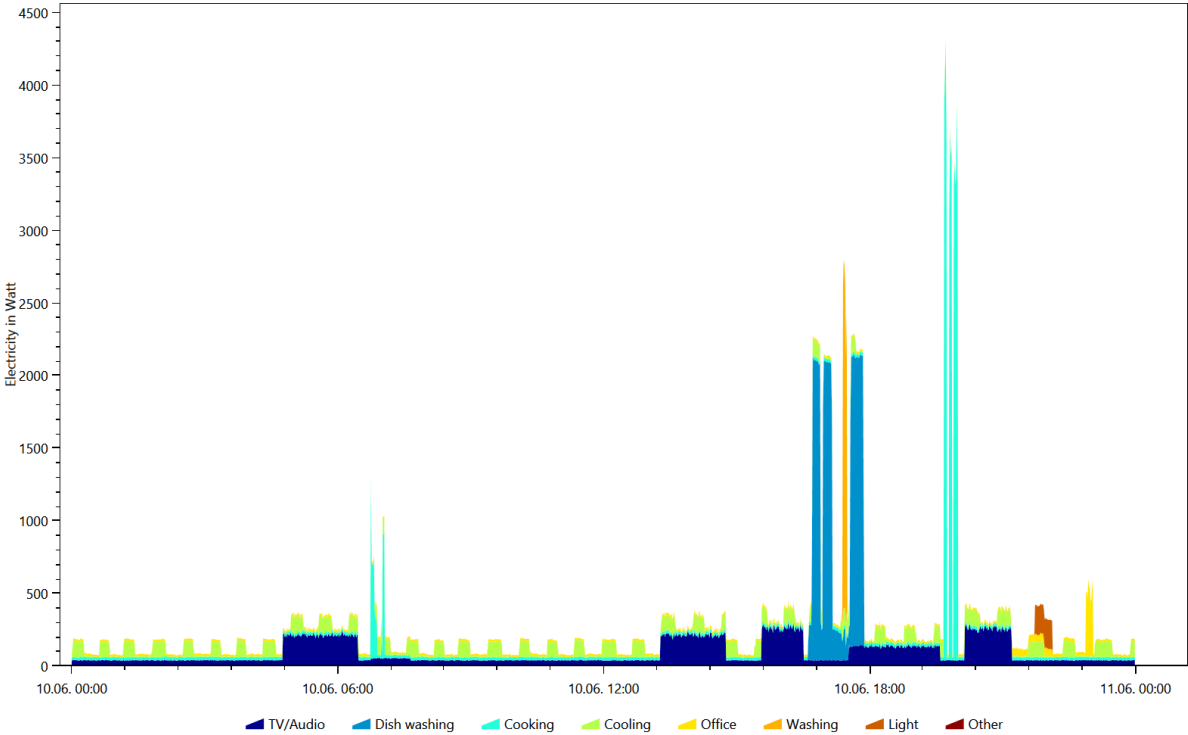
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.12



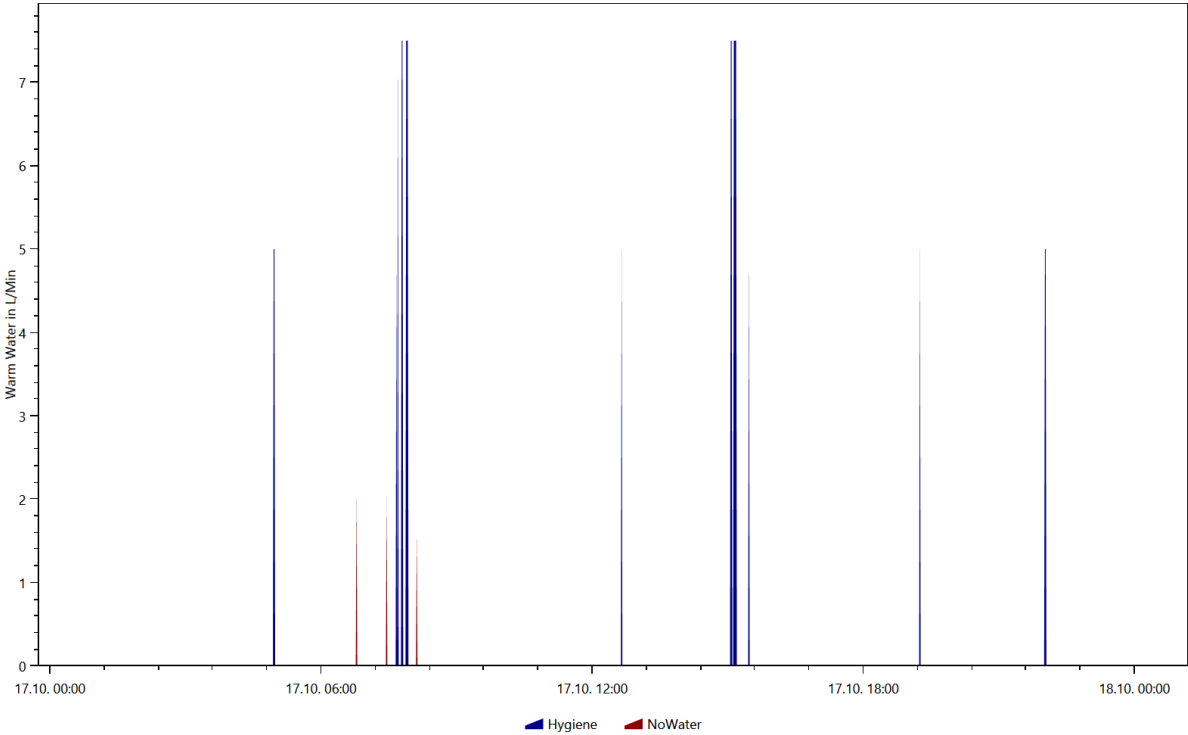
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.12



Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.10



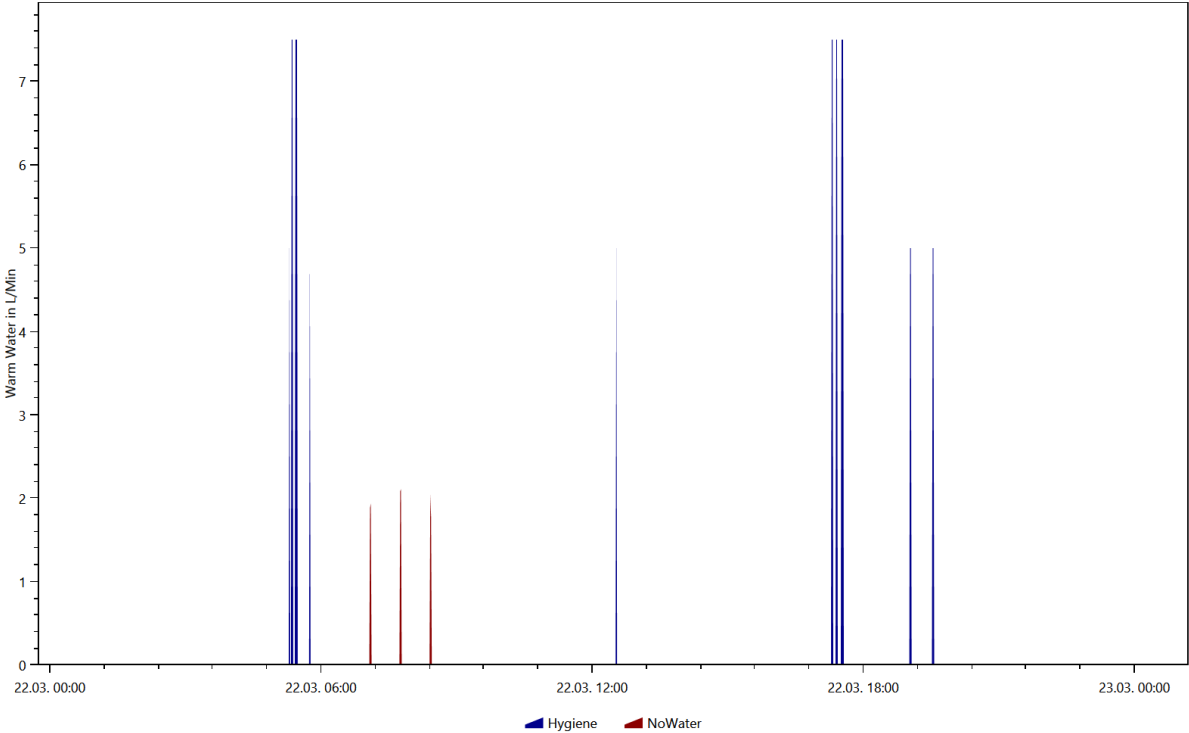
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.17



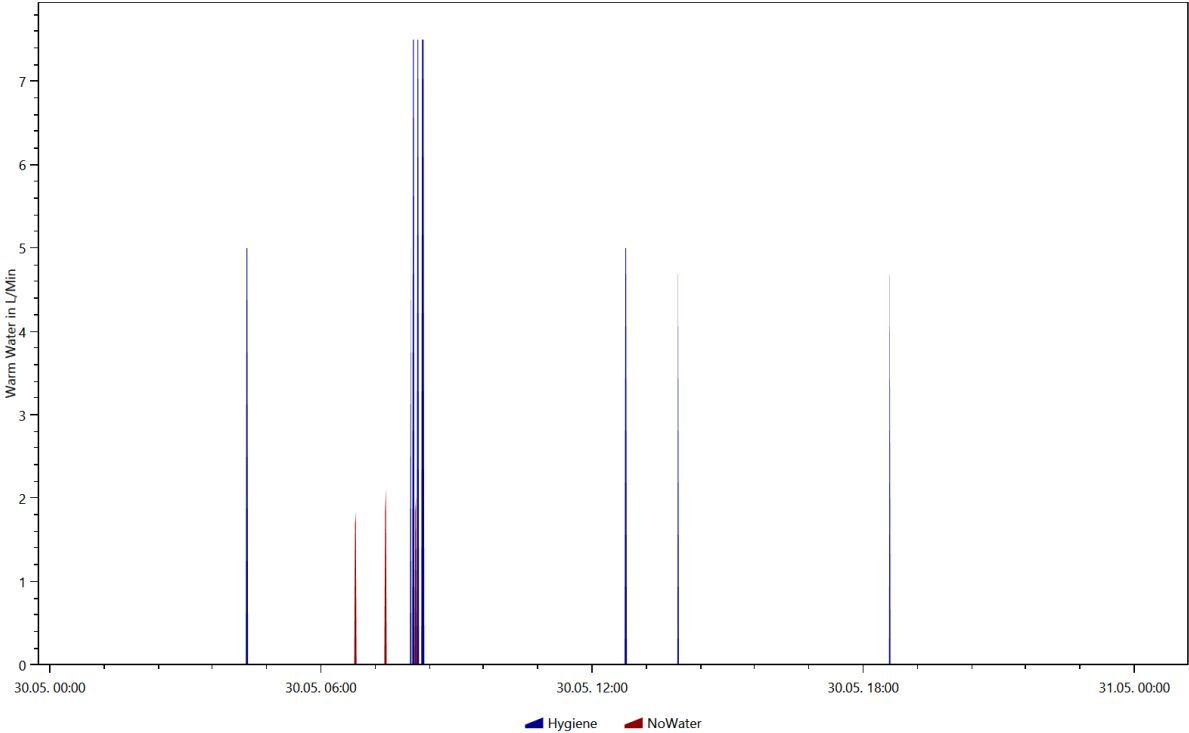
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.11



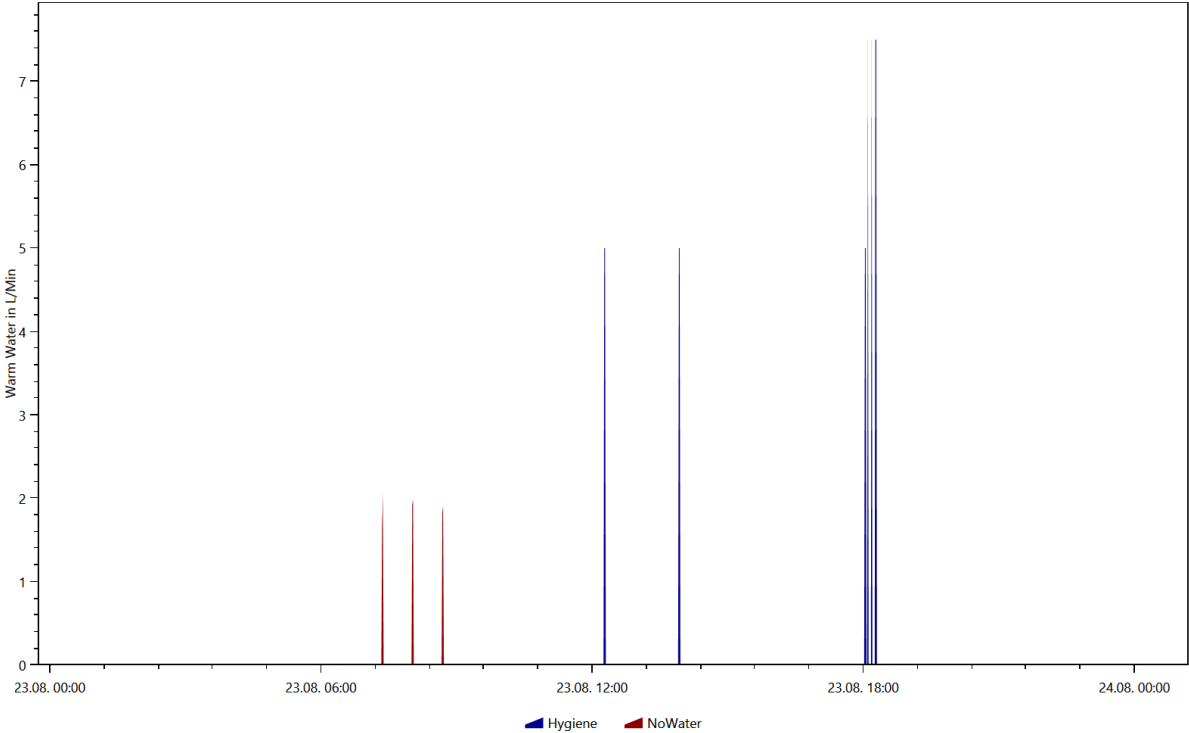
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.22



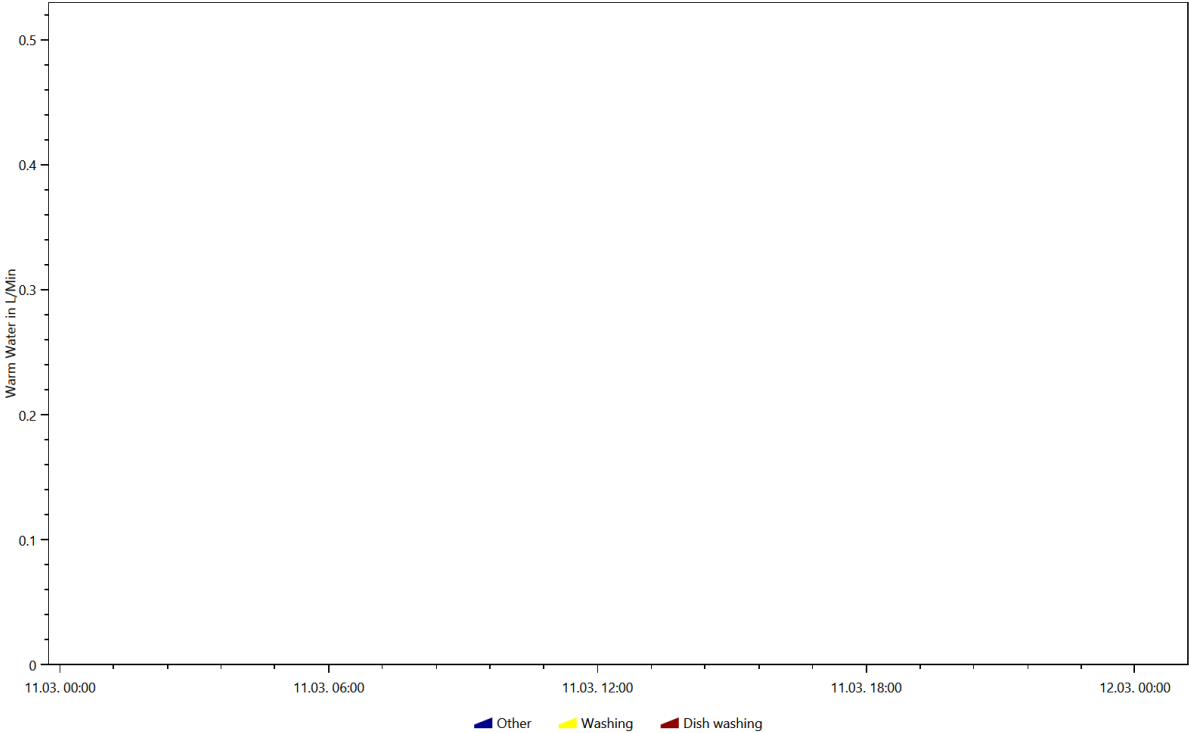
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.30



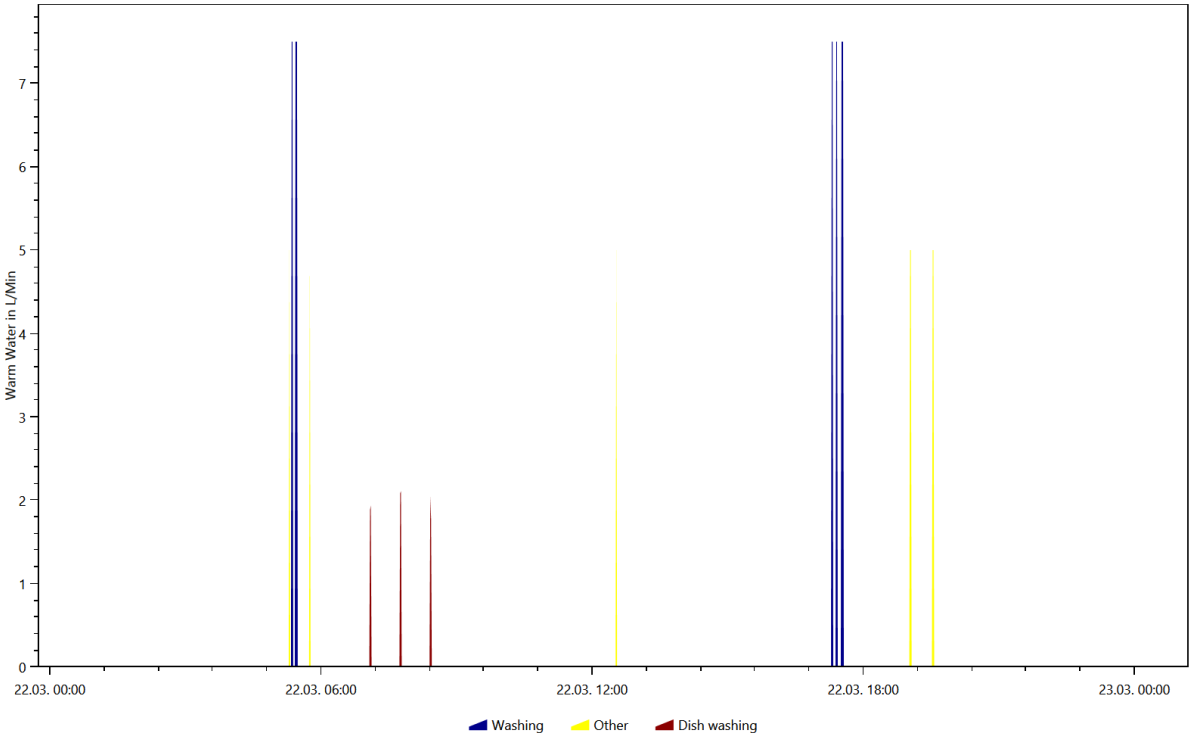
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.23



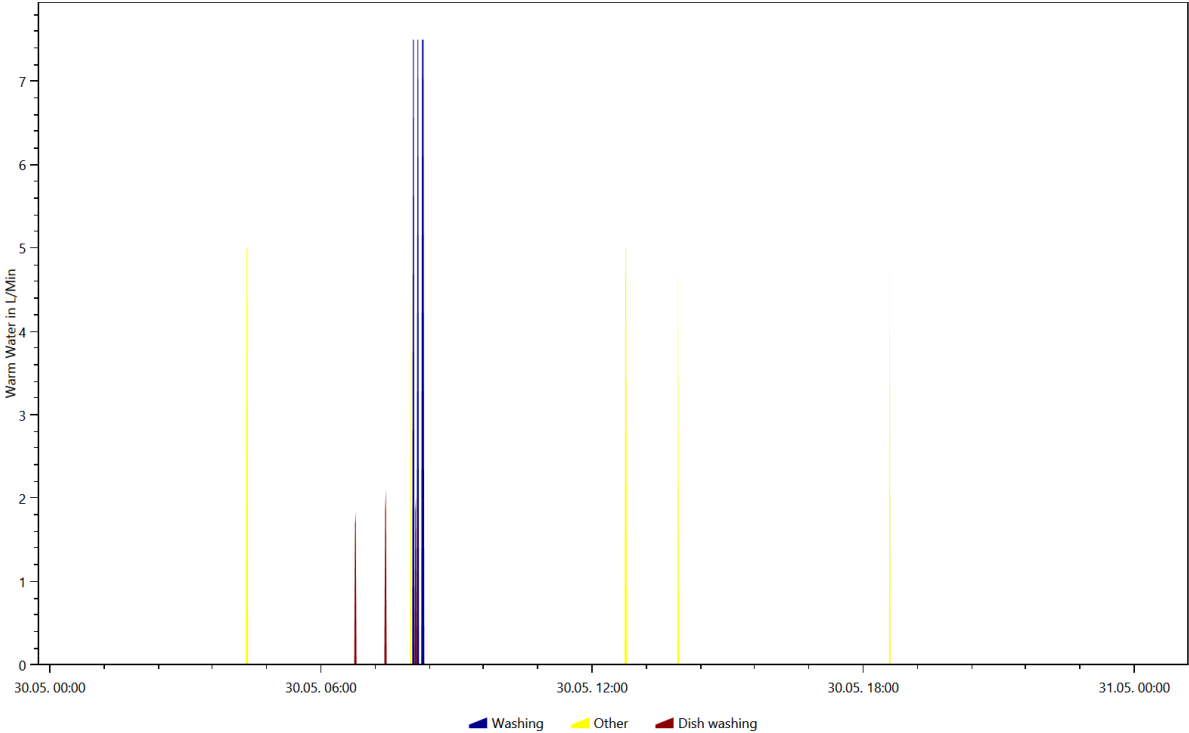
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.11



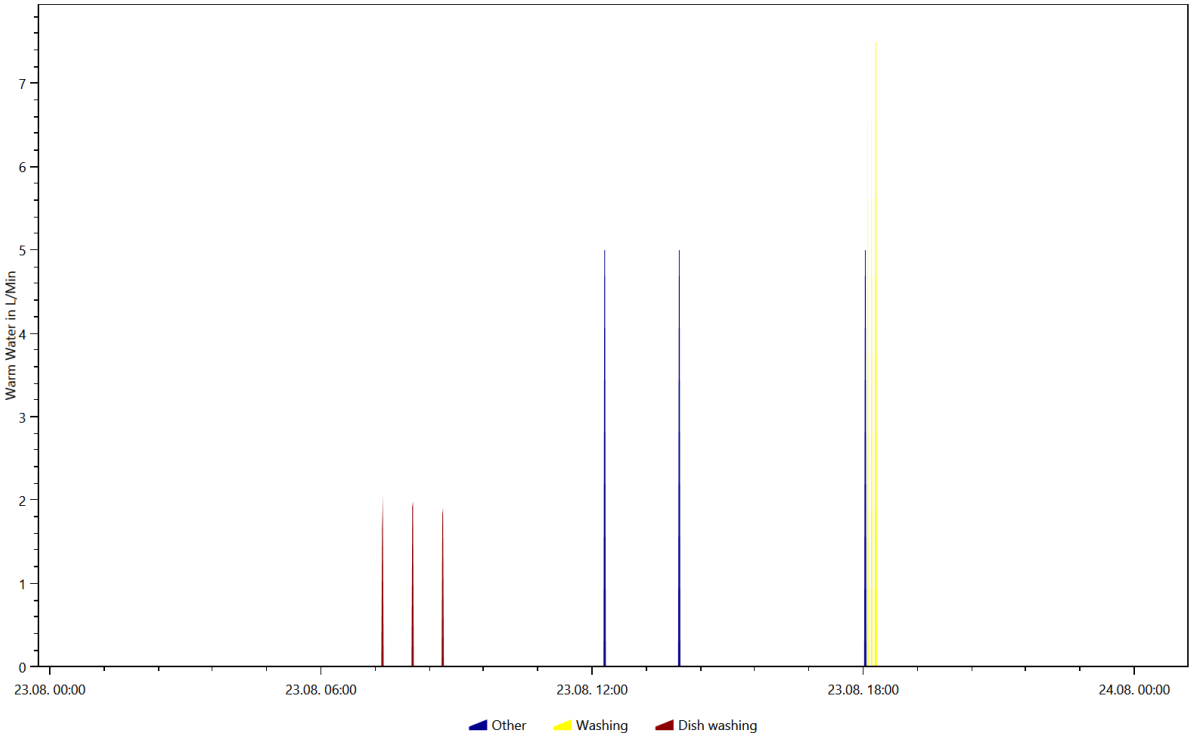
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.22



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.30



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.23

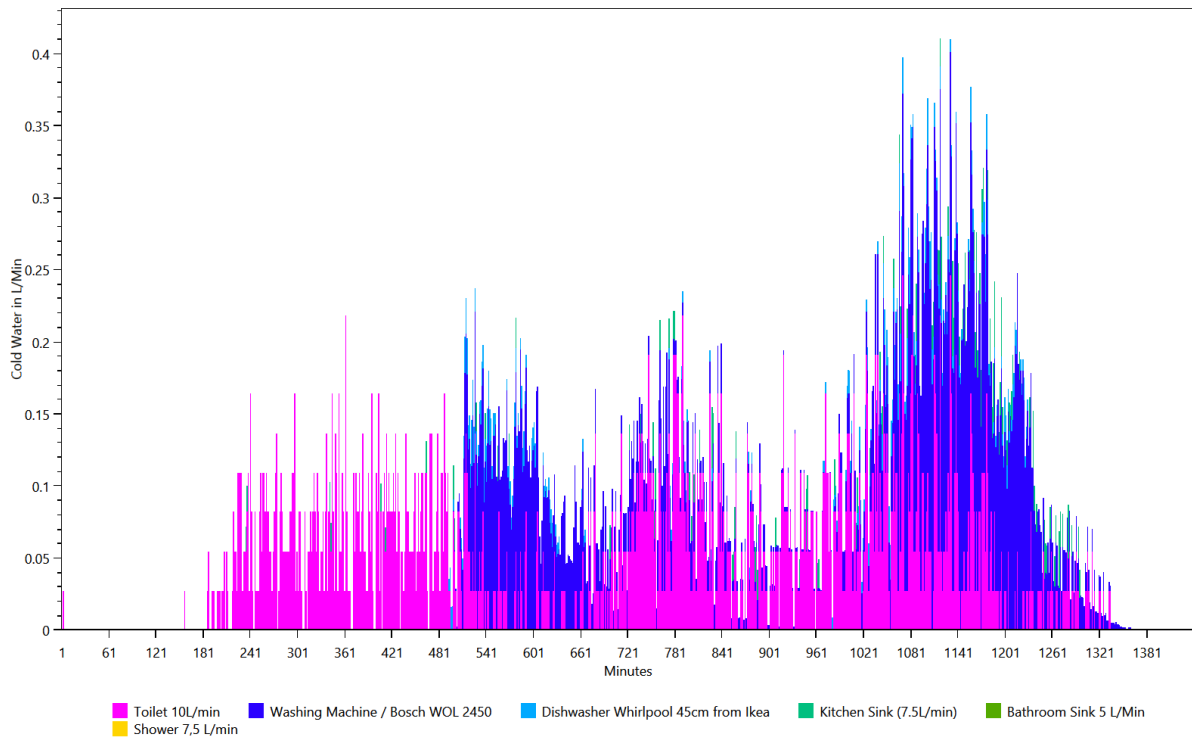


Overview of the time and power of the use per load type per device

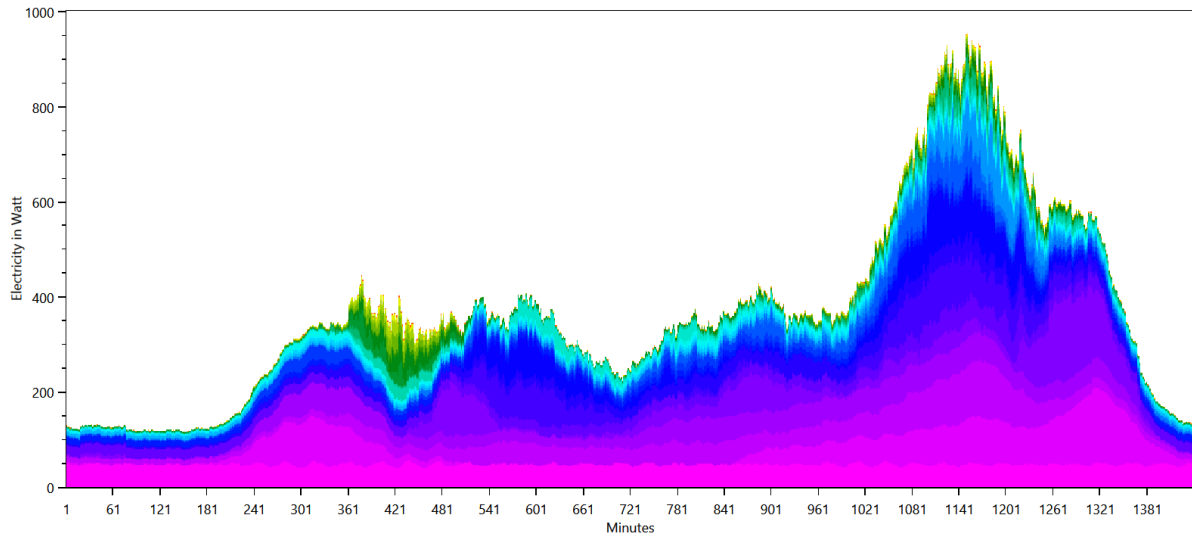
This is made from the files starting with: **TimeOfUseEnergyProfiles**

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

Cold Water

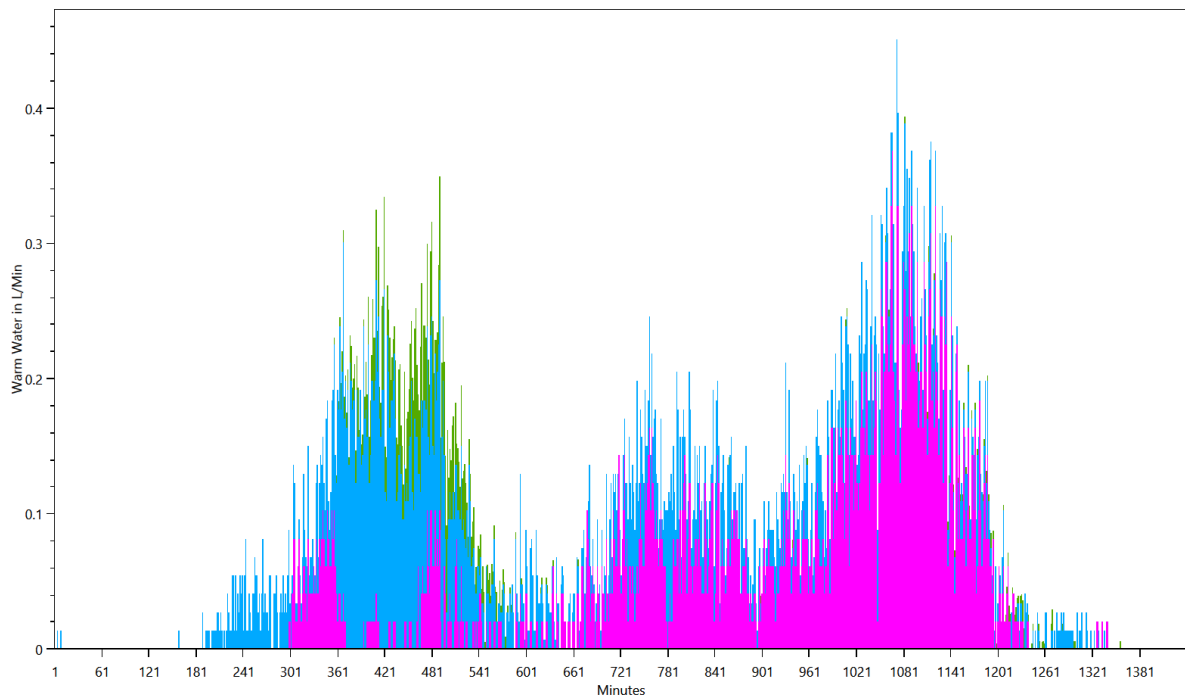


Electricity



- Fridge Liebherr bio fresh safe (2005)
 ■ Living Room Light (200W)
 ■ Panasonic TX-P58V10E
 ■ TV / Phillips 32PFL7605H
 ■ Steam Iron / Phillips GC 4410
- Microwave / Panasonic NN-V 359 W Inverter
 ■ Dishwasher Whirlpool 45cm from Ikea
 ■ Sony PlayStation 3
 ■ Washing Machine / Bosch WOL 2450
- Yamaha RX-V667
 ■ Home Cinema System / Samsung HT-D5550
 ■ Hair Dryer / Braun Satin Pro 2200 Ion Care
 ■ TASKalfa 180
 ■ Miele H 5241 B
- Router O2 Box 6431
 ■ SAT Receiver / Kathrein UFS913
 ■ PC / Acer Aspire T310
 ■ CD/DVD Player / Philips DVDR 725 H
- Canister vacuum cleaner / Siemens VS 06 G 1831
 ■ Kitchen Light (150W)
 ■ PC Monitor / Fujitsu Siemens Scaleoview D19-1
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove left hind - full power
 ■ Nintendo Wii
 ■ Electric Kettle / Petra WK288 1.5L
 ■ Toaster Salco MT 400
- Single Stove Plate
 ■ Kitchen radio / AEG KRC 4323 CD
 ■ Children Room Light Device (20W)
 ■ Moulinex electronic 833
 ■ Bathroom Light (60W)
- Egg Cooker / Russell Hobbs 14048-56 Stylo
 ■ Bathroom Mirror Light 30W (CFL)
 ■ Nespresso Coffee Machine, Single Cup
 ■ Miele DA 249-2
- External Harddrive Iomega 3.5"
 ■ Epson Stylus Color 860
 ■ Bedroom Light (200W)
 ■ Electric Toothbrush Dondodent Professional Clean
- Food Slicer / DOMO Schneidemaschine DO521S
 ■ Energy Saving Lamp / EL-REF 11 E27
 ■ Canon CanoScan LIDE 110

Warm Water



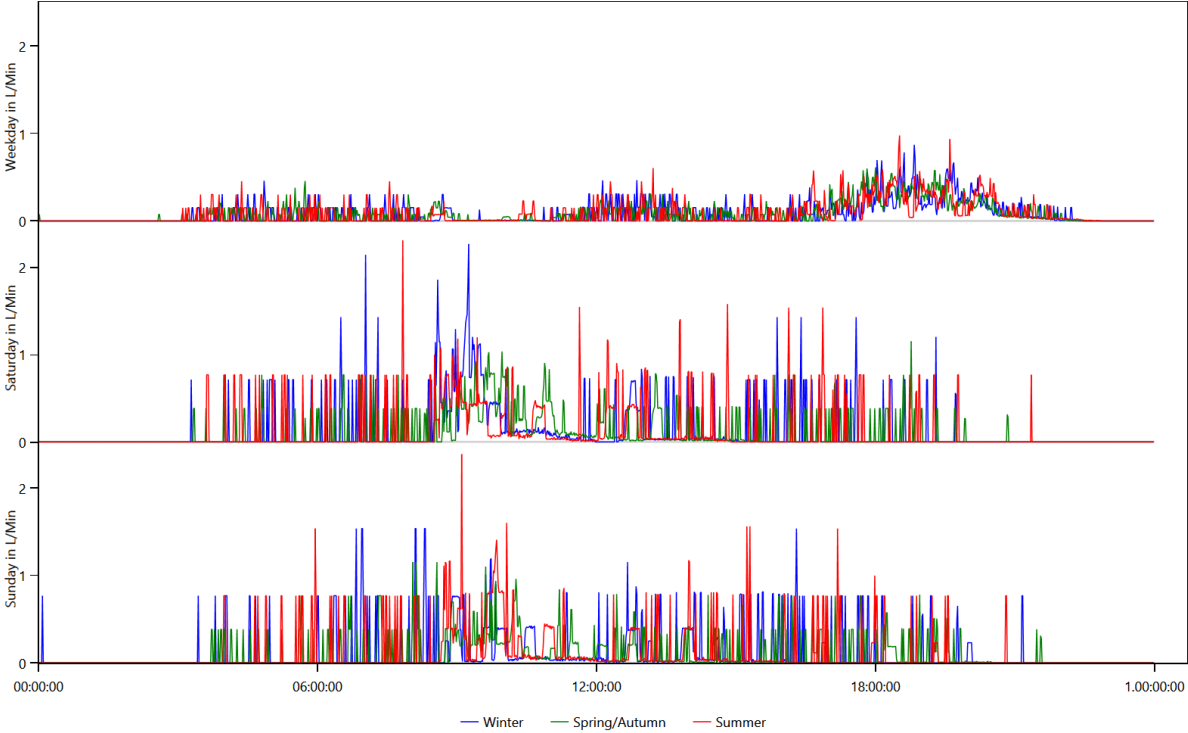
- Shower 7,5 L/min
 ■ Bathroom Sink 5 L/Min
 ■ Kitchen Sink (7.5L/min)

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

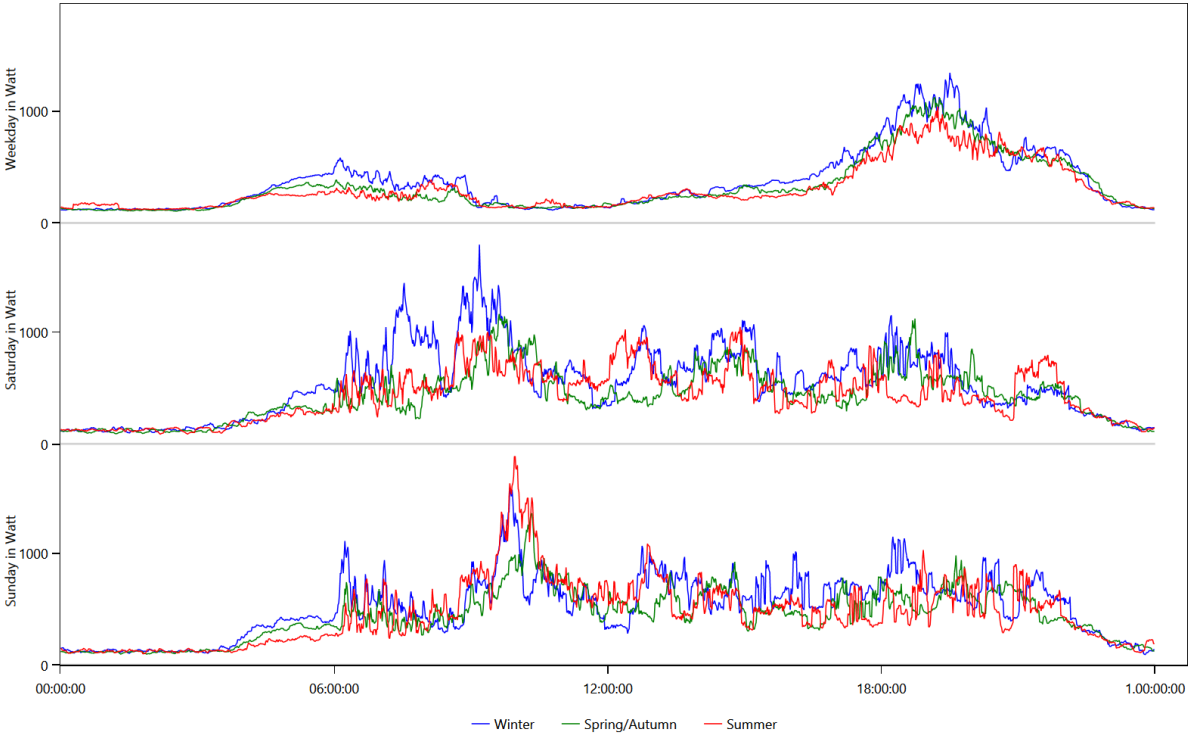
This is made from the files starting with: WeekdayProfiles

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

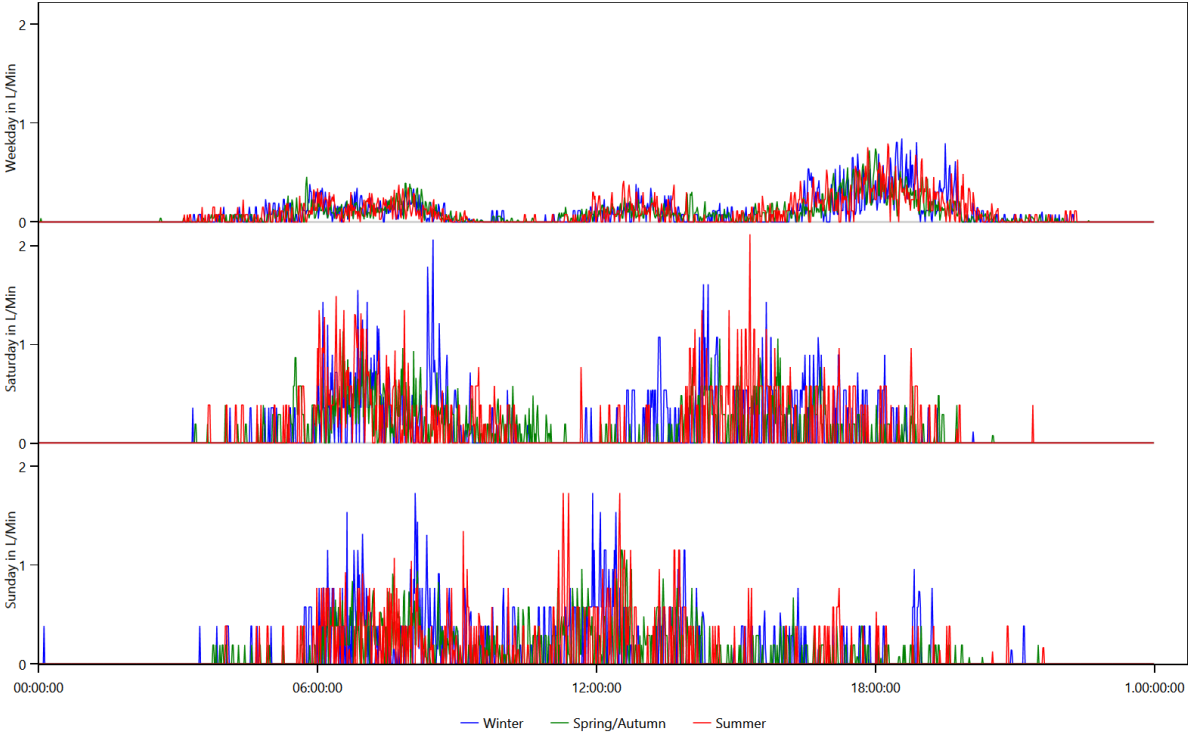
Cold Water



Electricity



Warm Water

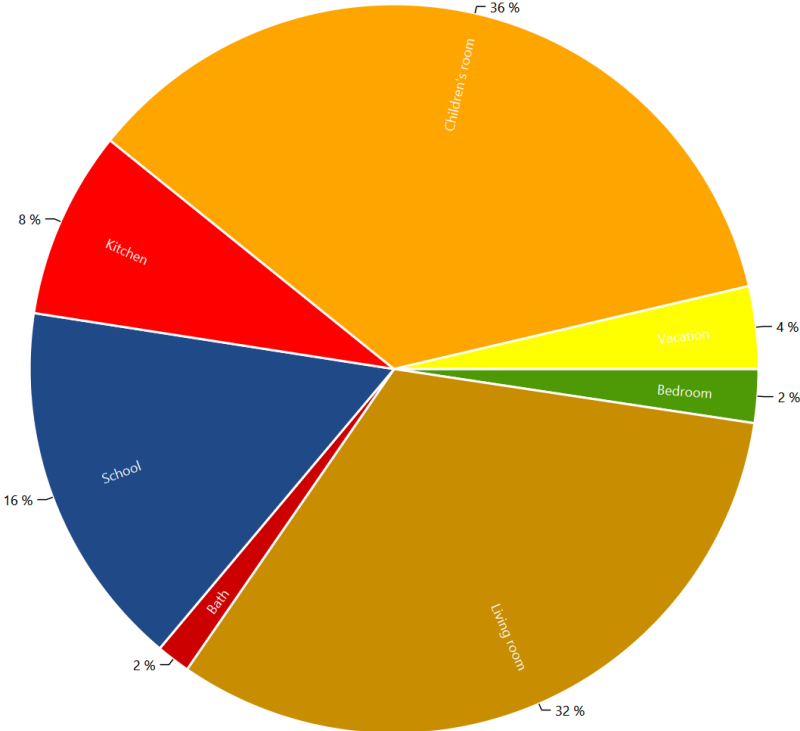


Location Distribution per Person

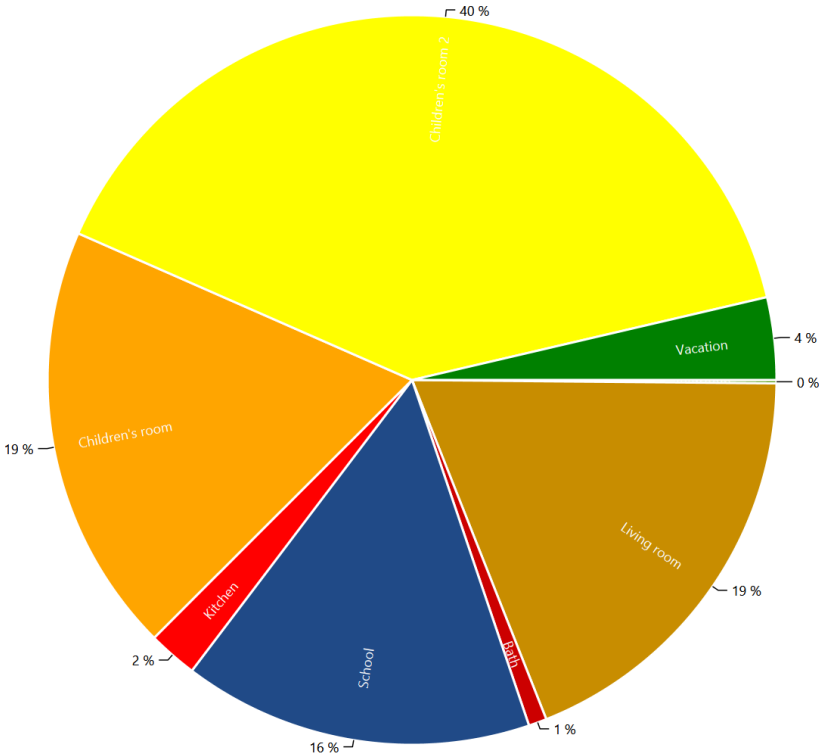
This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

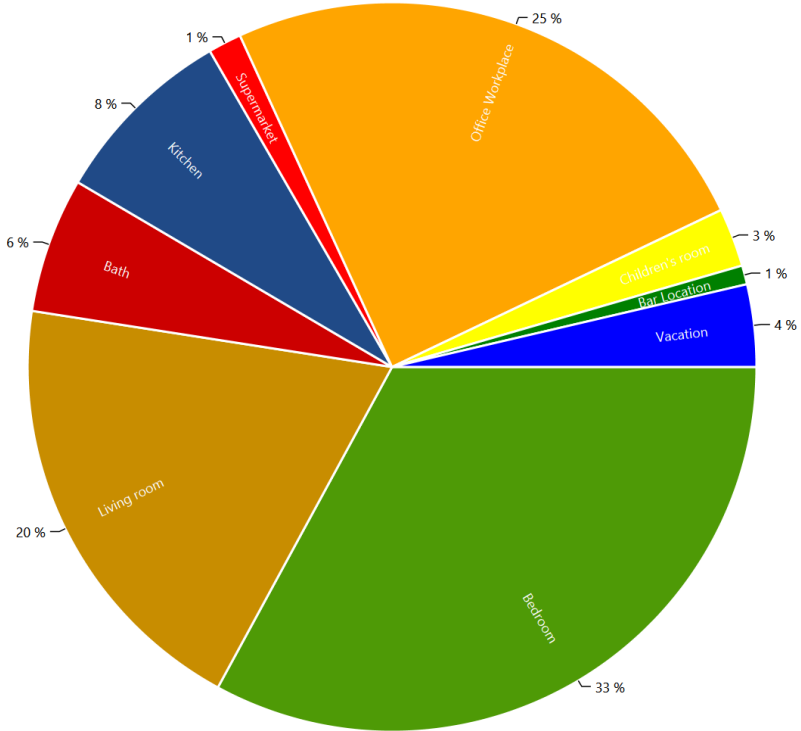
CHR08 Adrian 2 (11 Male)



CHR08 Ben 2 (7 Male)



CHR08 Erin 2 (30 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

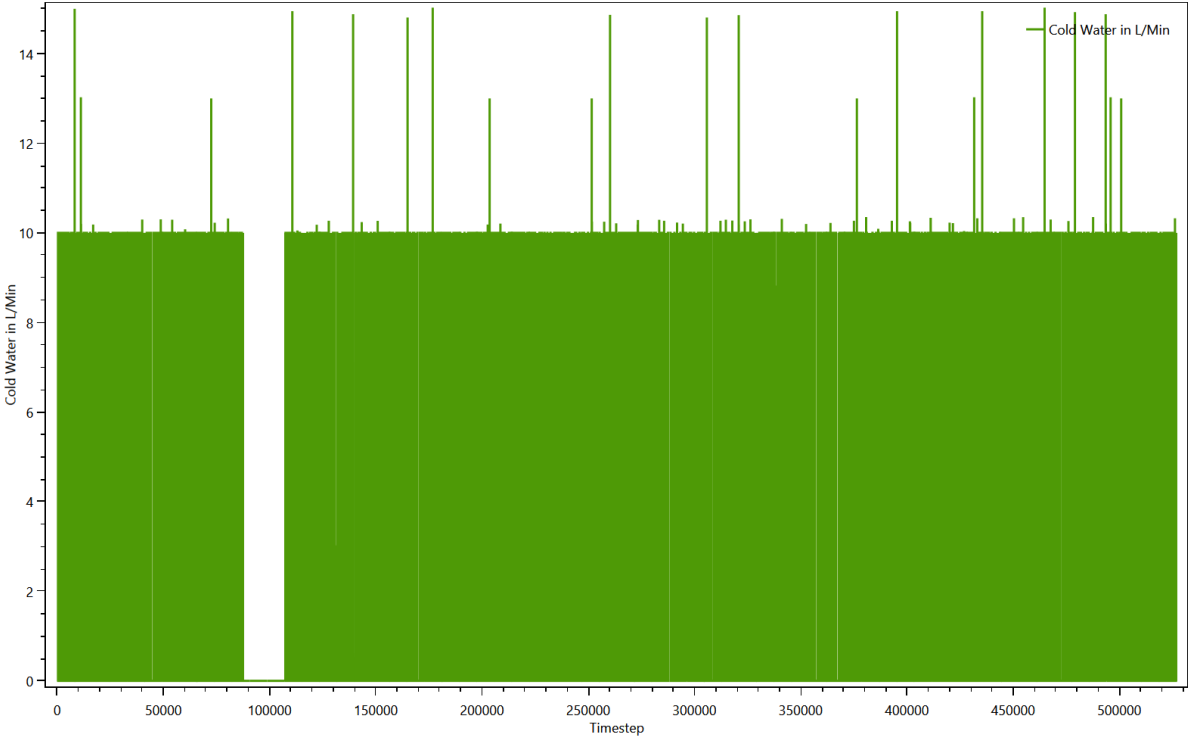
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR08 Adrian 2 (11/Male);sleep bed 03 (08 h) Child;sleep;False;
0;01.01.2016 00:00;CHR08 Ben 2 (7/Male);sleep bed 04 (10 h) Child;sleep;False;
0;01.01.2016 00:00;CHR08 Erin 2 (30/Female);sleep bed 08 (08 h);sleep;False;
242;01.01.2016 04:02;CHR08 Adrian 2 (11/Male);play Playstation;Passive Entertainment (TV etc.);False;
299;01.01.2016 04:59;CHR08 Adrian 2 (11/Male);watch a movie for 1 h 30 min with home cinema
system;Passive Entertainment (TV etc.);False;
363;01.01.2016 06:03;CHR08 Ben 2 (7/Male);go to the toilet;hygiene;False;
369;01.01.2016 06:09;CHR08 Ben 2 (7/Male);get ready in the morning (children);hygiene;False;
380;01.01.2016 06:20;CHR08 Ben 2 (7/Male);go to primary school ;school;False;
380;01.01.2016 06:20;CHR08 Erin 2 (30/Female);go to the toilet;hygiene;False;
386;01.01.2016 06:26;CHR08 Erin 2 (30/Female);eat breakfast (1 h);cooking;False;
390;01.01.2016 06:30;CHR08 Adrian 2 (11/Male);go to grammer school ;school;False;
435;01.01.2016 07:15;CHR08 Erin 2 (30/Female);go shopping for food in the supermarket (1.5
h);shopping;False;
519;01.01.2016 08:39;CHR08 Erin 2 (30/Female);work at the office from 8:00 (9 h);work;False;
723;01.01.2016 12:03;CHR08 Ben 2 (7/Male);watch a movie for 1 h 30 min with home cinema system;Passive
Entertainment (TV etc.);False;
753;01.01.2016 12:33;CHR08 Adrian 2 (11/Male);play with toys (1 h);Offline Entertainment;False;
803;01.01.2016 13:23;CHR08 Ben 2 (7/Male);play Playstation;Passive Entertainment (TV etc.);False;
811;01.01.2016 13:31;CHR08 Adrian 2 (11/Male);go to the toilet;hygiene;False;
816;01.01.2016 13:36;CHR08 Adrian 2 (11/Male);take a nap;sleep;False;
857;01.01.2016 14:17;CHR08 Ben 2 (7/Male);study at home;school;False;
```

Sum Profiles

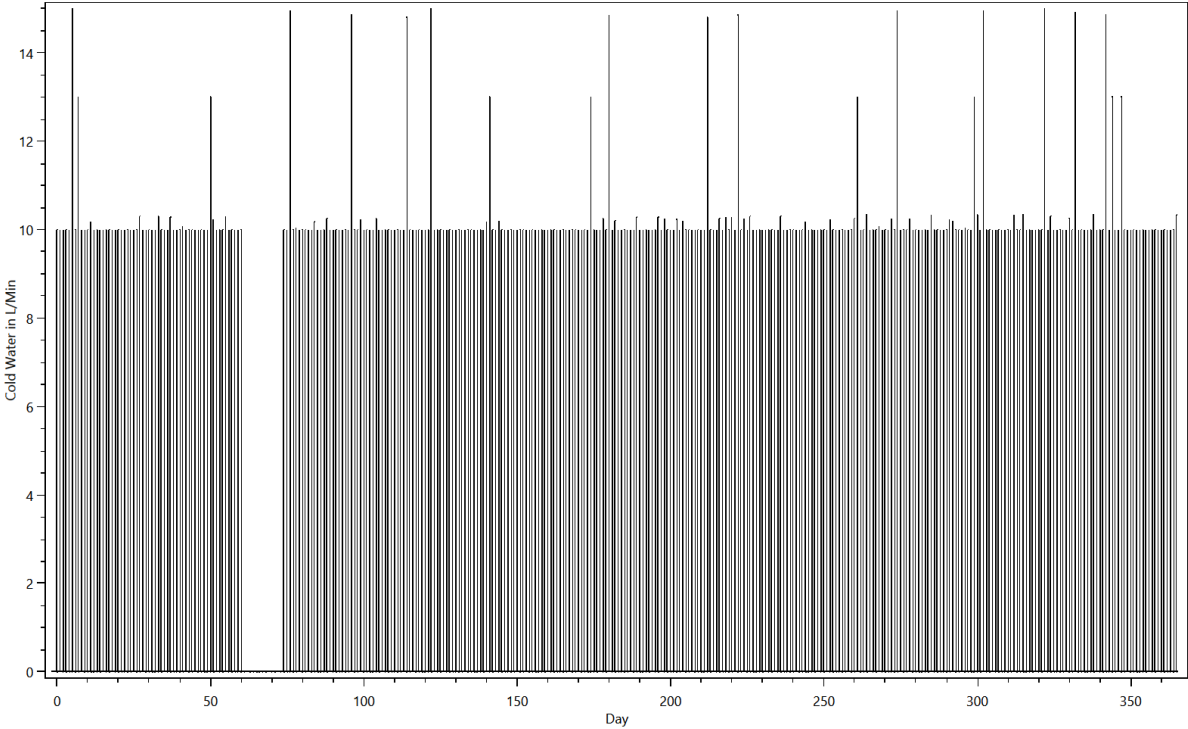
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

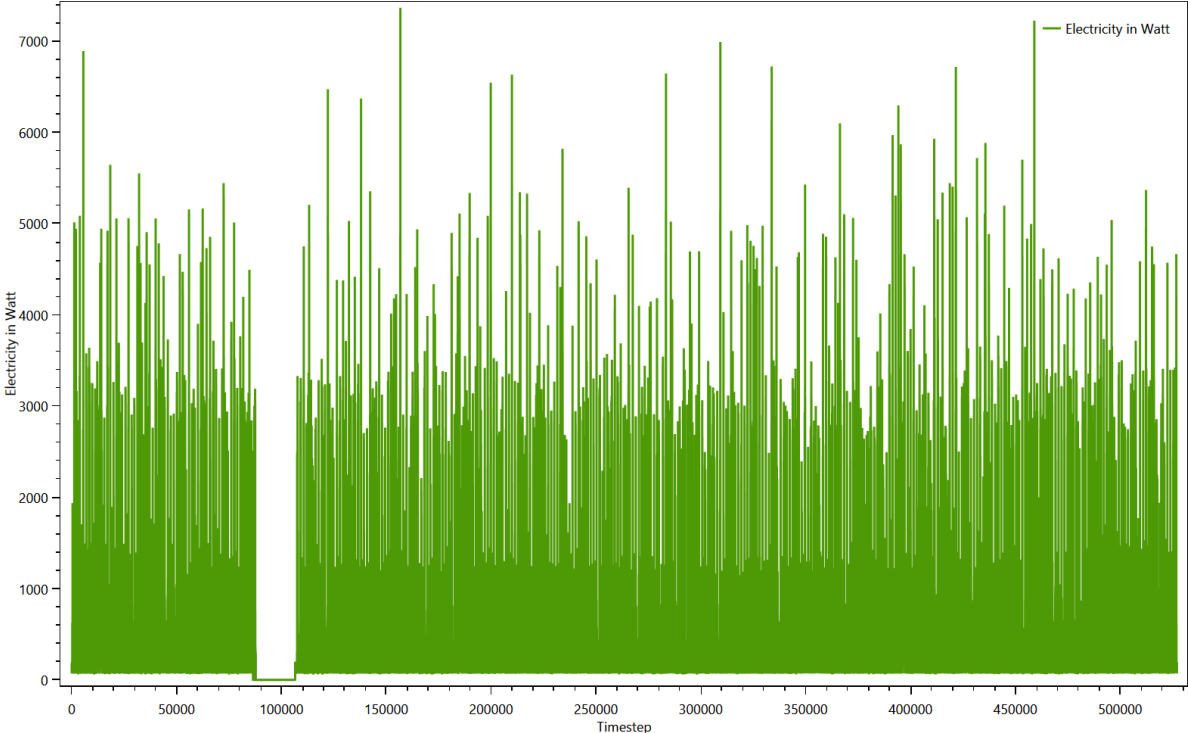
Summed up curve for Cold Water from SumProfiles.Cold Water.png



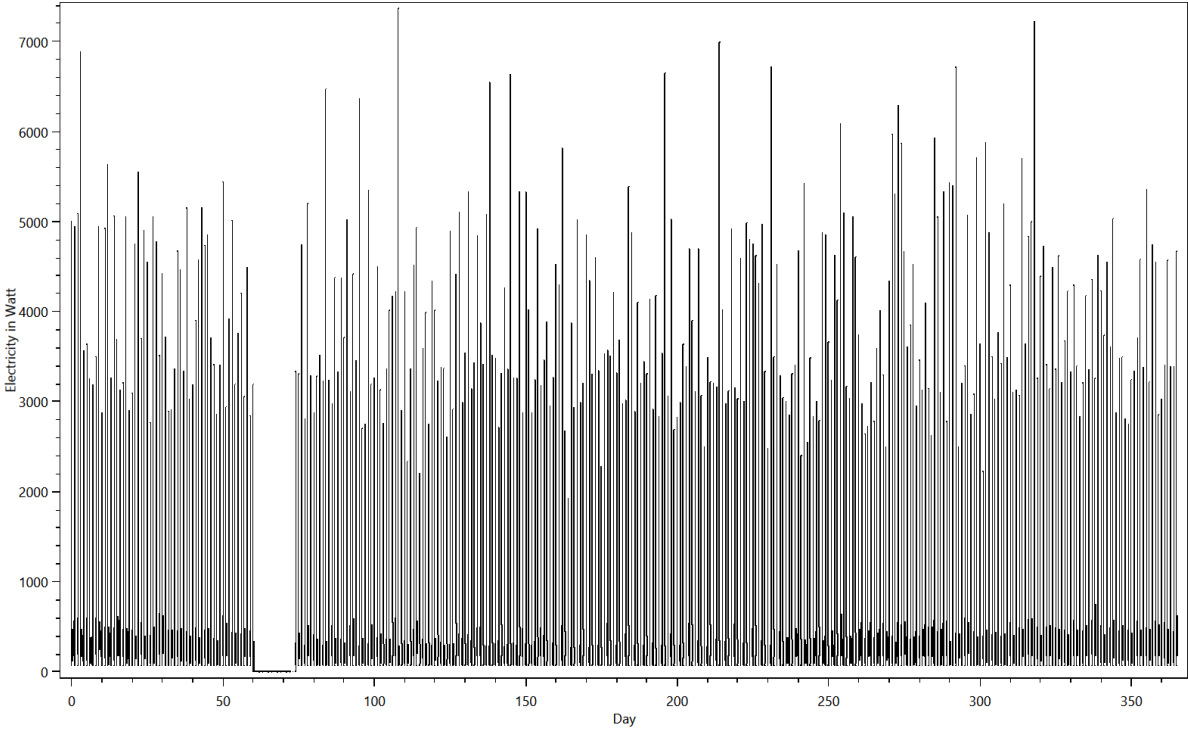
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



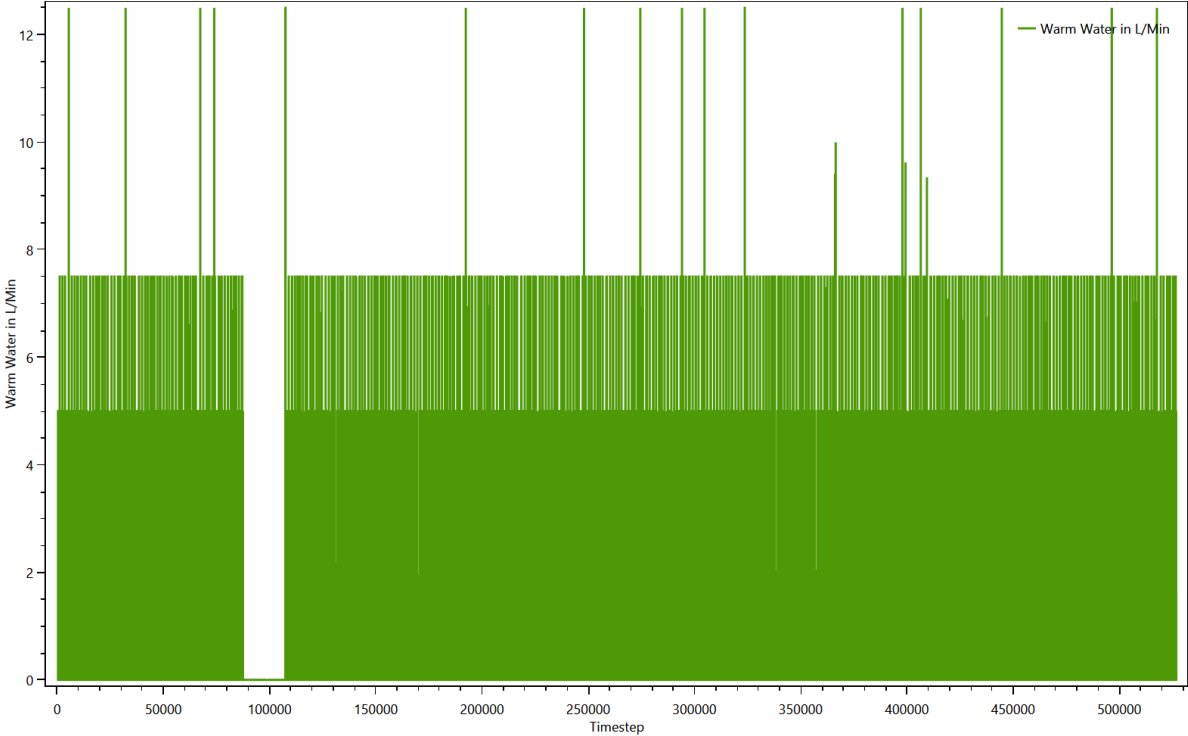
Summed up curve for Electricity from SumProfiles.Electricity.png



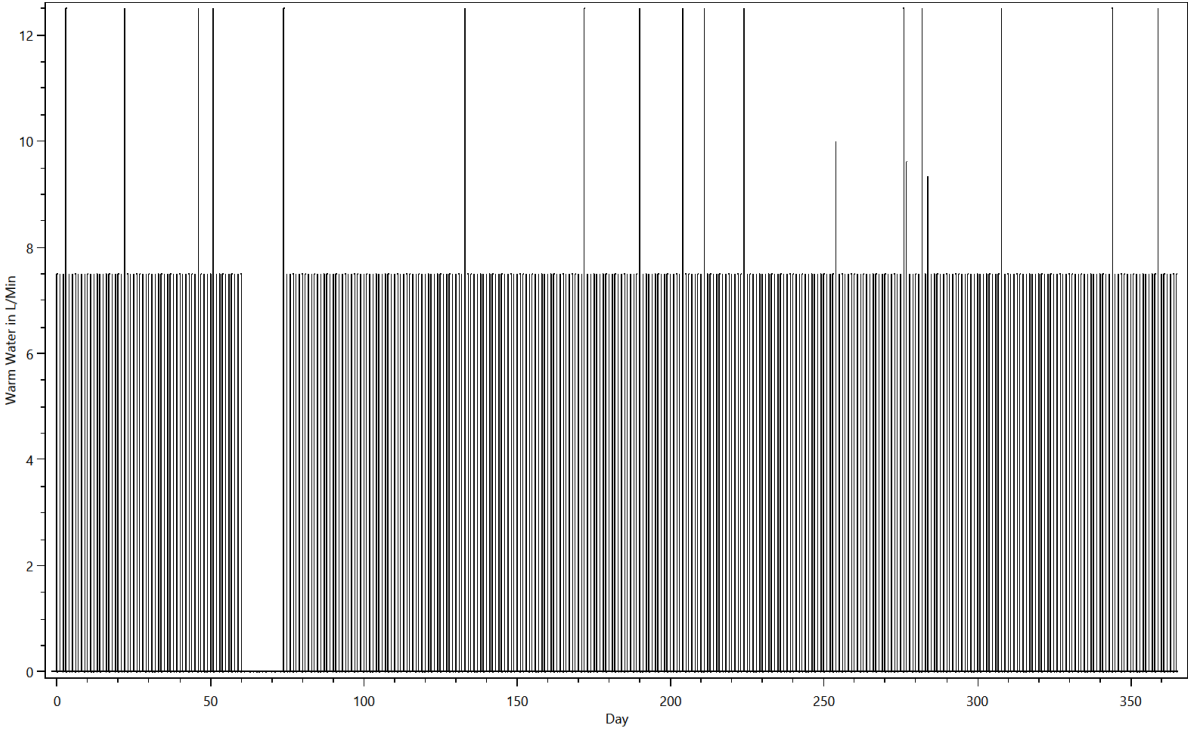
Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR08 Single woman, 2 children, with work 0.txt

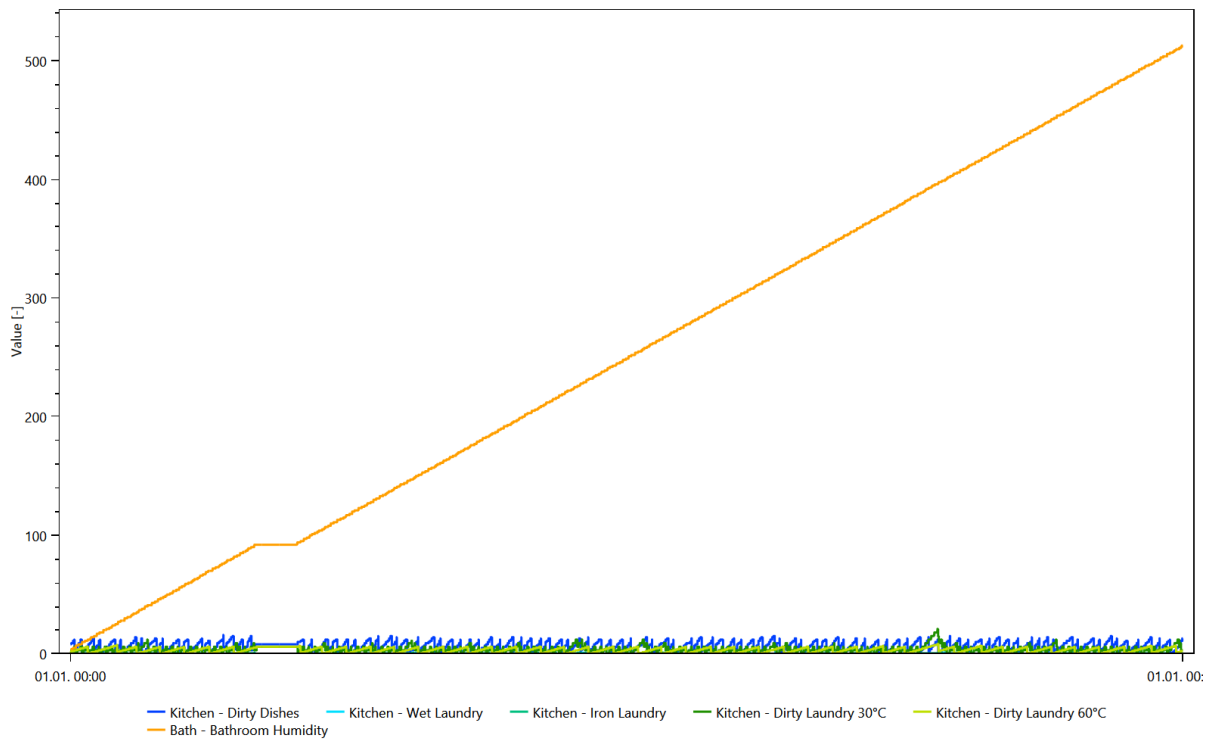
Device;Load Type;Profile;Number of Activations
Bar;None;04 h 0 min 100% [Synthetic];18
Bathroom Light (60W);Electricity;Bath - light [Synthetic for Light Device];861
Bathroom Mirror Light 30W (CFL);Electricity;Bath - light [Synthetic for Light Device];861
Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 100% [Synthetic];2584
Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 50% [Synthetic];410
Bed 3 (Children);None;08 h 0 min 100% [Synthetic];356
Bed 4;None;10 h 0 min 100% [Synthetic];356
Bed 8;None;08 h 0 min 100% [Synthetic];356
Bedroom Light (200W);Electricity;Bedroom - light [Synthetic for Light Device];6
Book;None;01 h 0 min 100% [Synthetic];26
CD/DVD Player / Philips DVDR 725 H;Electricity;01 h 30 min 100% [Synthetic];636
CD/DVD Player / Philips DVDR 725 H;Electricity;02 h 0 min 100% [Synthetic];40
CD/DVD Player / Philips DVDR 725 H;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8464
Canister vacuum cleaner / Siemens VS 06 G 1831;Electricity;0 h 30 min 100% [Synthetic];51
Canon CanoScan LIDE 110;Electricity;0 h 10 min 100% [Synthetic];81
Children Room Light Device (20W);Electricity;Children's room - light [Synthetic for Light Device];682
Cleanser;None;01 h 0 min 100% [Synthetic];50
Cloth Drying Rack;None;0 h 20 min 100% [Synthetic];221
Couch;None;01 h 0 min 100% [Synthetic];477

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

