

Overview of the results of the household CHR52 Student Flatsharing 0

Calculation Time

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

Energy Intensity: Random

Seed 946

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:32:47

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Totals

Totals for each Loadtype

Load Type	Value	Unit
Cold Water	29240.15	L
Electricity	2208.79	kWh
Warm Water	108565.00	L

Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	79.89	L
Electricity	6.03	kWh
Warm Water	296.63	L

Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	16.32	L/Min
Electricity	-70.22	7443.09	Watt
Warm Water	0.00	17.50	L/Min

Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	9746.72	L
Electricity	736.26	kWh

Warm Water	36188.33	L
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Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	26.63	L
Electricity	2.01	kWh
Warm Water	98.88	L

Persons

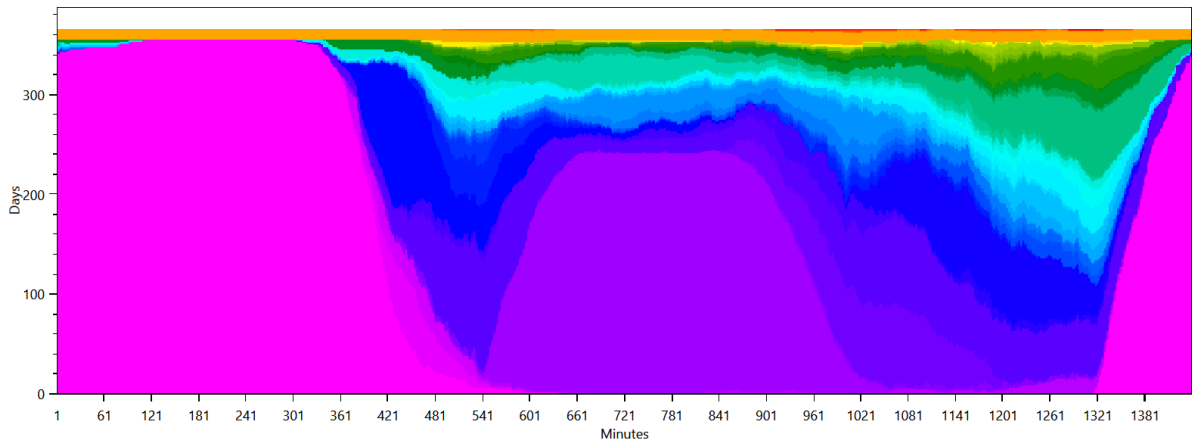
- HH0
 - CHR52 Chris (22/Male)(22/Male)
 - CHR52 Iris (22/Female)(22/Female)
 - CHR52 Maddy (23/Female)(23/Female)

Activity Frequency Charts

This is made from the files starting with: ActivityFrequenciesPerMinute

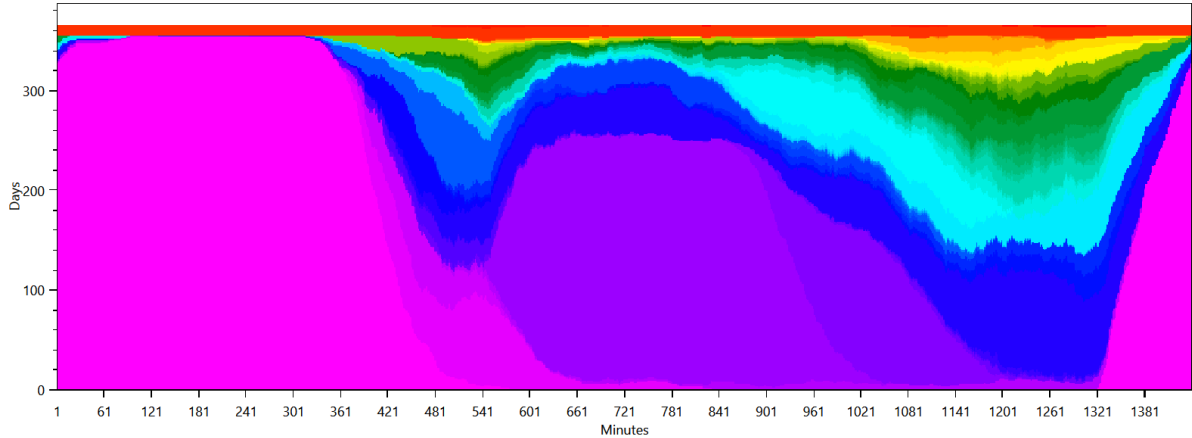
These charts show an ordered distribution of times of the activities of each person. This helps with judging quickly if a person is sleeping correctly and if they are going to work regularly.

HH0 - CHR52 Chris (22 Male)



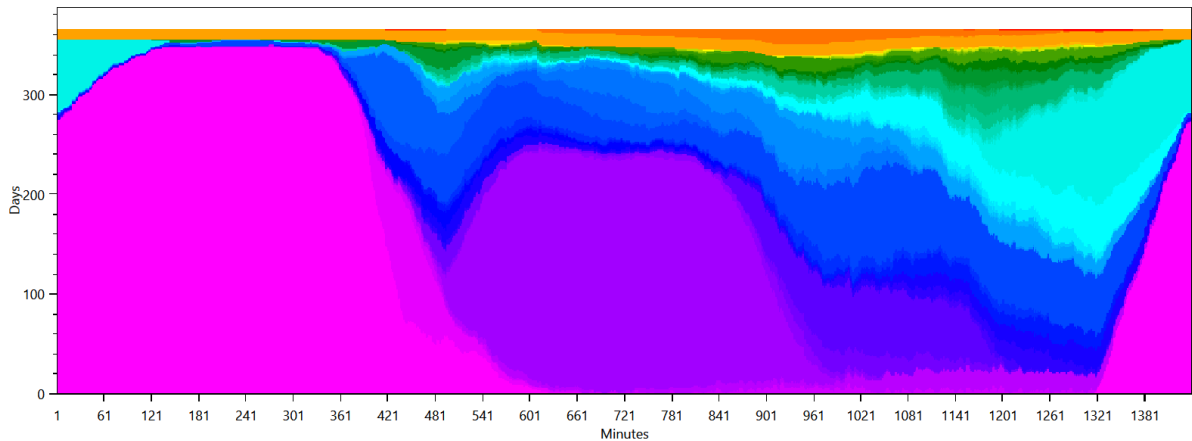
- sleep bed 08 (08 h)
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- get ready in the morning (men)
- watch TV with someone (watch a movie for 2 h with home cinema system)
- study philosophy
- go to the toilet
- study at home
- use the laptop for Internet, Movie, Music, News (2 h)
- take a shower (men)
- make frozen pizza and eat it
- take singing lessons
- eat breakfast (1 h)
- go shopping for food in the supermarket (1.5 h)
- do laundry at 30°C (by variable)
- play board games (1 h)
- paint a picture
- hang up laundry outside
- take a nap
- play Wii
- watch a movie for 1 h 30 min with home cinema system
- fry two eggs and eat them with toast
- read a book on the couch all the time
- exercise for 30 min on the treadmill
- use the laptop (1 h)
- cuddle and sleep (take a nap)
- go to horse riding lessons
- heat up leftovers
- read a book on the couch only 9:00 to 22:00
- eat a cooked meal (interrupting) (heat up leftovers)
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- use the laptop (1.5 h)
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- do laundry at 60°C (by variable)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- watch a movie for 2 h with home cinema system
- play a puzzle game
- join Wii gaming (play Wii)
- cook pasta and eat it
- listen to music on compact hifi (2 h)
- make soup
- bake a cake
- vacuum the household
- read a book (1 h)
- eat a cooked meal (interrupting) (cook pasta and eat it)
- join shopping for food in the supermarket for 1.5h (go shopping for food in the supermarket (1.5 h))
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- watch TV with someone (watch a movie for 2 h)
- taking a vacation
- eat a cooked meal (interrupting) (make soup)
- make and drink tea (15 min)
- watch a movie for 1 h 30 min
- watch a movie for 2 h
- take nap on the weekend (2 h)
- watch TV with someone (watch the news)
- watch TV with someone (watch sports on TV with SAT Receiver (2 h))

HH0 - CHR52 Iris (22 Female)



- sleep bed 02 (08 h) ■ eat breakfast (1 h) ■ get ready in the morning (women) ■ use the laptop (1 h) ■ study sports ■ go to part time job
- go to the toilet ■ take a shower with hair washing (women) (5 min hair drying) ■ fry two eggs and eat them with toast
- use the laptop for Internet, Movie, Music, News (2 h) ■ eat a cooked meal (interrupting) (eat breakfast (1 h)) ■ play Wii ■ read a book on the couch all the time
- take a nap ■ take a shower without hair washing (women) ■ make and drink tea (15 min) ■ take nap on the weekend (2 h) ■ watch a movie for 1 h 30 min
- take a shower with electric air heater ■ cuddle and sleep (take a nap) ■ read a book on the couch only 9:00 to 22:00 ■ study at home ■ use the laptop (1.5 h)
- make soup ■ watch a movie for 1 h 30 min with home cinema system ■ heat up leftovers ■ make frozen pizza and eat it ■ paint a picture
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system) ■ watch a movie for 2 h with home cinema system
- go shopping for food in the supermarket (1.5 h) ■ play board games (1 h) ■ read a book (1 h) ■ join Wii gaming (play Wii) ■ play a puzzle game
- eat a cooked meal (interrupting) (make frozen pizza and eat it) ■ listen to music on compact hifi (2 h) ■ take a shower with hair washing (women) (20 min hair drying)
- vacuum the household ■ bake a cake ■ eat a cooked meal (interrupting) (heat up leftovers) ■ cook pasta and eat it
- watch TV with someone (watch a movie for 2 h with home cinema system) ■ visit the cinema ■ eat a cooked meal (interrupting) (make soup)
- invite friends for coffee ■ watch the news ■ eat a cooked meal (interrupting) (cook pasta and eat it)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system) ■ watch a movie for 2 h ■ taking a vacation
- join shopping for food in the supermarket for 1.5h (go shopping for food in the supermarket (1.5 h))
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)

HH0 - CHR52 Maddy (23 Female)



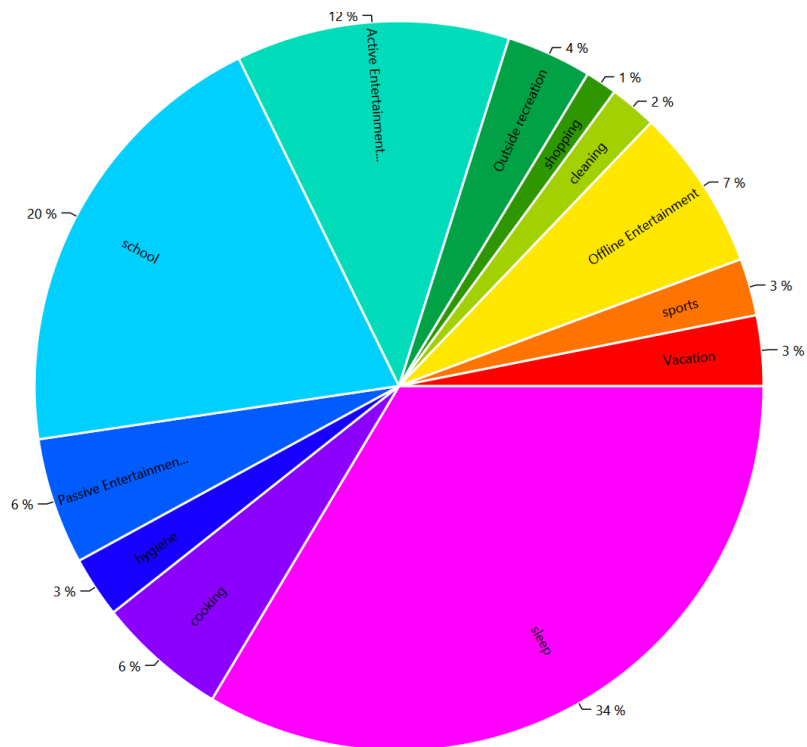
- sleep bed 08 (08 h) ■ eat a cooked meal (interrupting) (eat breakfast (1 h)) ■ go to the toilet ■ watch a movie for 2 h with home cinema system
- study mechanical engineering ■ take a shower with hair washing (women) (5 min hair drying) ■ go shopping for food in the supermarket (1.5 h) ■ study at home
- fry two eggs and eat them with toast ■ play board games (1 h) ■ read a book on the couch all the time ■ get ready in the morning (women) ■ play Wii
- clean the bath ■ use the laptop for Internet, Movie, Music, News (2 h) ■ eat breakfast (1 h) ■ take a nap ■ take a shower without hair washing (women)
- use the laptop (1.5 h) ■ watch TV with someone (watch a movie for 1 h 30 min with home cinema system) ■ bake a cake ■ paint a picture
- read a book on the couch only 9:00 to 22:00 ■ go to a bar (4 h) ■ play a puzzle game ■ heat up leftovers ■ take a shower with electric air heater
- make frozen pizza and eat it ■ watch a movie for 1 h 30 min with home cinema system ■ cook pasta and eat it ■ make soup ■ use the laptop (1 h)
- eat a cooked meal (interrupting) (cook pasta and eat it) ■ listen to music on compact hifi (2 h) ■ cuddle and sleep (take a nap)
- take a shower with hair washing (women) (20 min hair drying) ■ watch TV with someone (watch a movie for 2 h with home cinema system)
- eat a cooked meal (interrupting) (heat up leftovers) ■ eat a cooked meal (interrupting) (make soup) ■ make and drink tea (15 min) ■ watch a movie for 2 h
- read a newspaper for 30min ■ read a magazine ■ take nap on the weekend (2 h) ■ watch the news ■ watch TV (1 h)
- join shopping for food in the supermarket for 1.5h (go shopping for food in the supermarket (1.5 h)) ■ join Wii gaming (play Wii) ■ taking a vacation
- eat a cooked meal (interrupting) (make frozen pizza and eat it) ■ go swimming in the outdoor swimming pool (6 h) ■ read a book (1 h)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system) ■ watch a movie for 1 h 30 min ■ watch sports on TV with SAT Receiver (2 h)
- watch TV with someone (watch a movie for 1 h 30 min)

Activity Distribution per Person

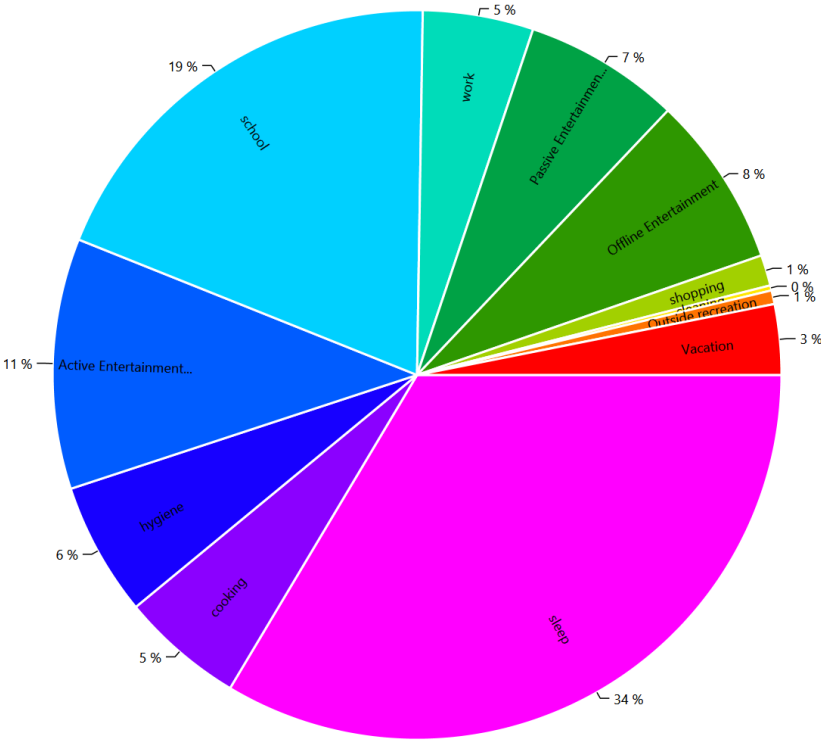
This is made from the files starting with: ActivityPercentage

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

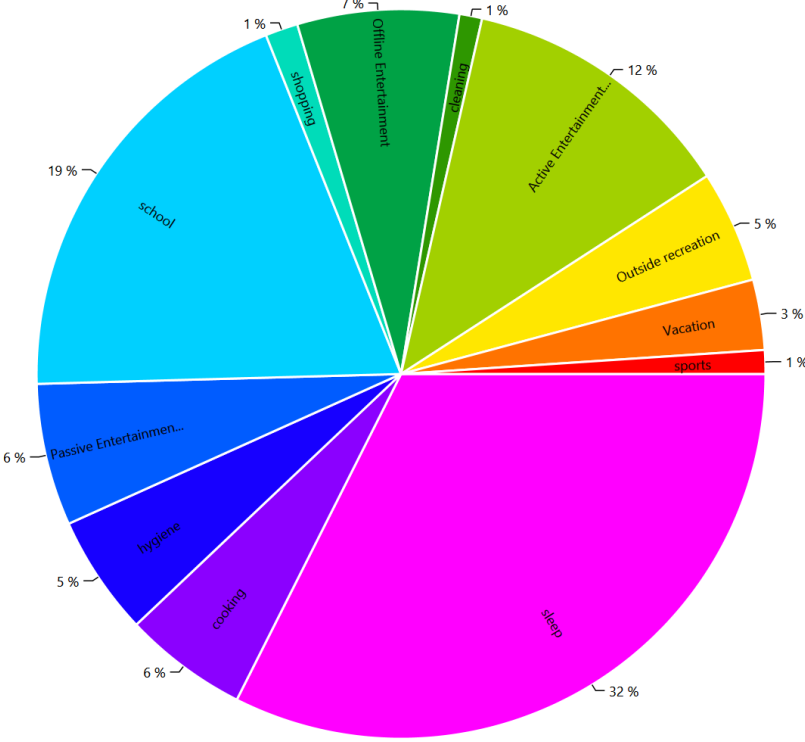
HH0 - CHR52 Chris (22 Male)



HH0 - CHR52 Iris (22 Female)



HH0 - CHR52 Maddy (23 Female)

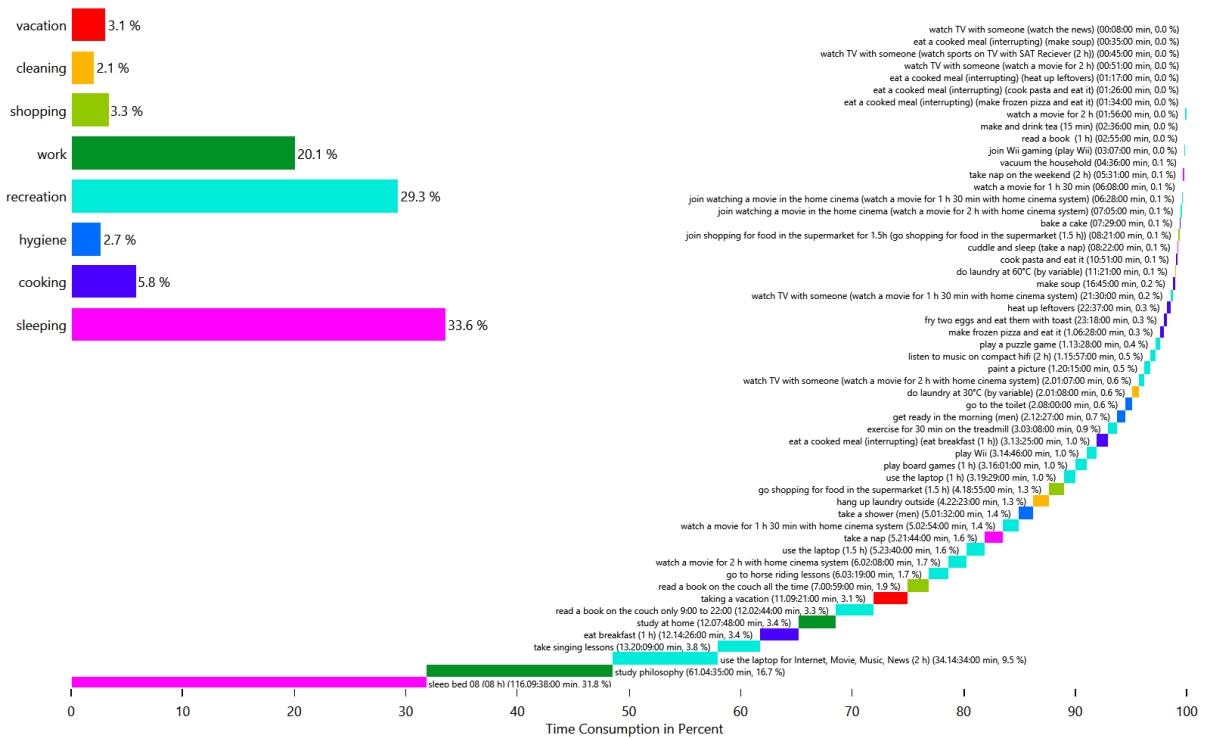


Time Use per Person per Affordance Per Person

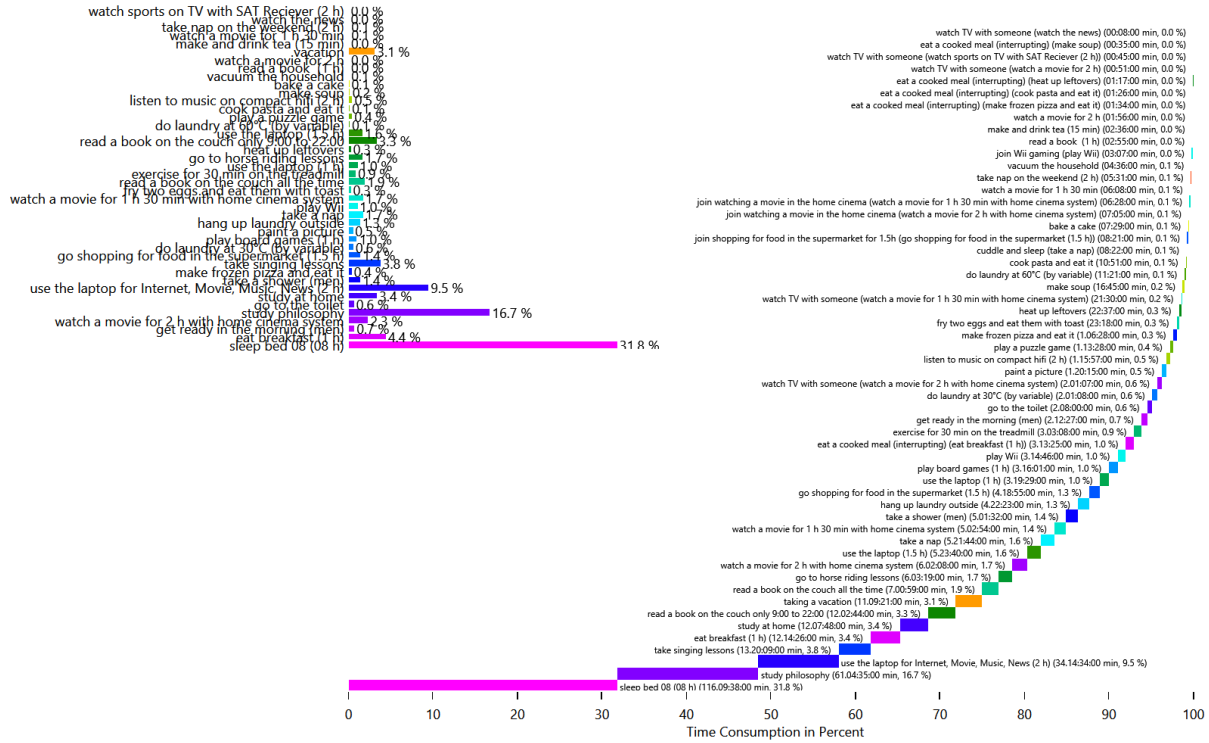
This is made from the files starting with: AffordanceTimeUse

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.

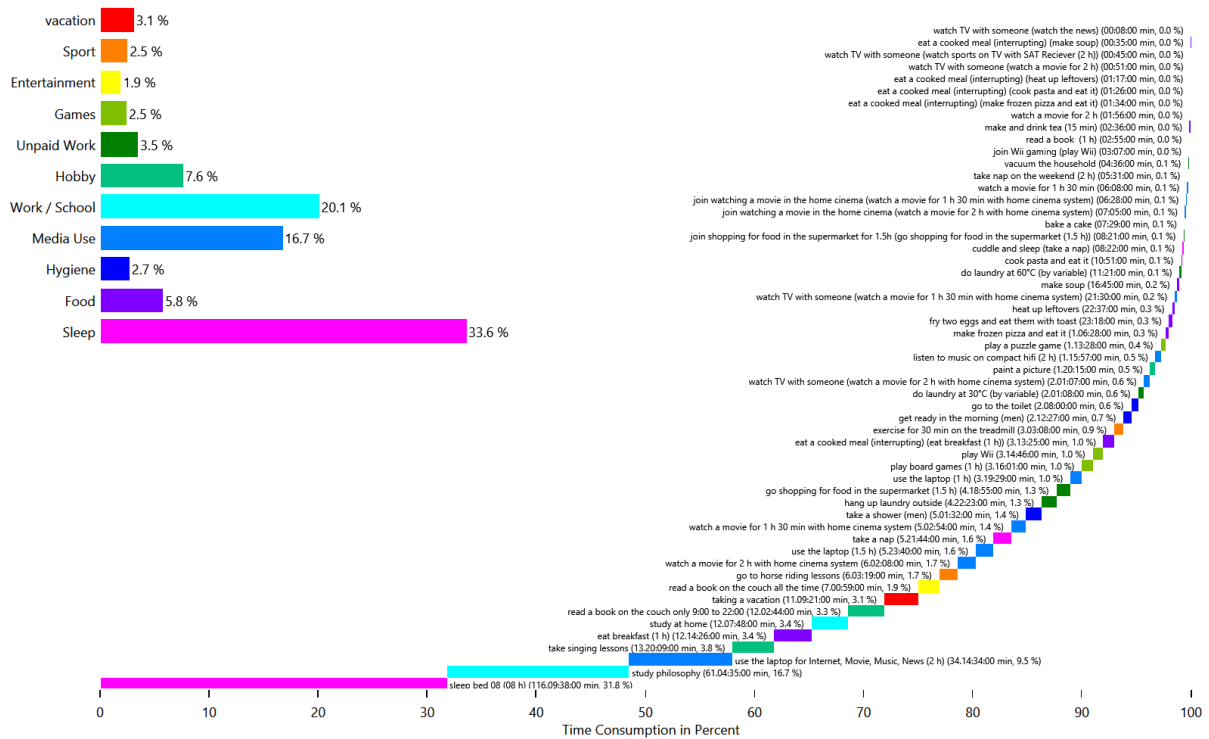
HH0 - CHR52 Chris (22 Male)



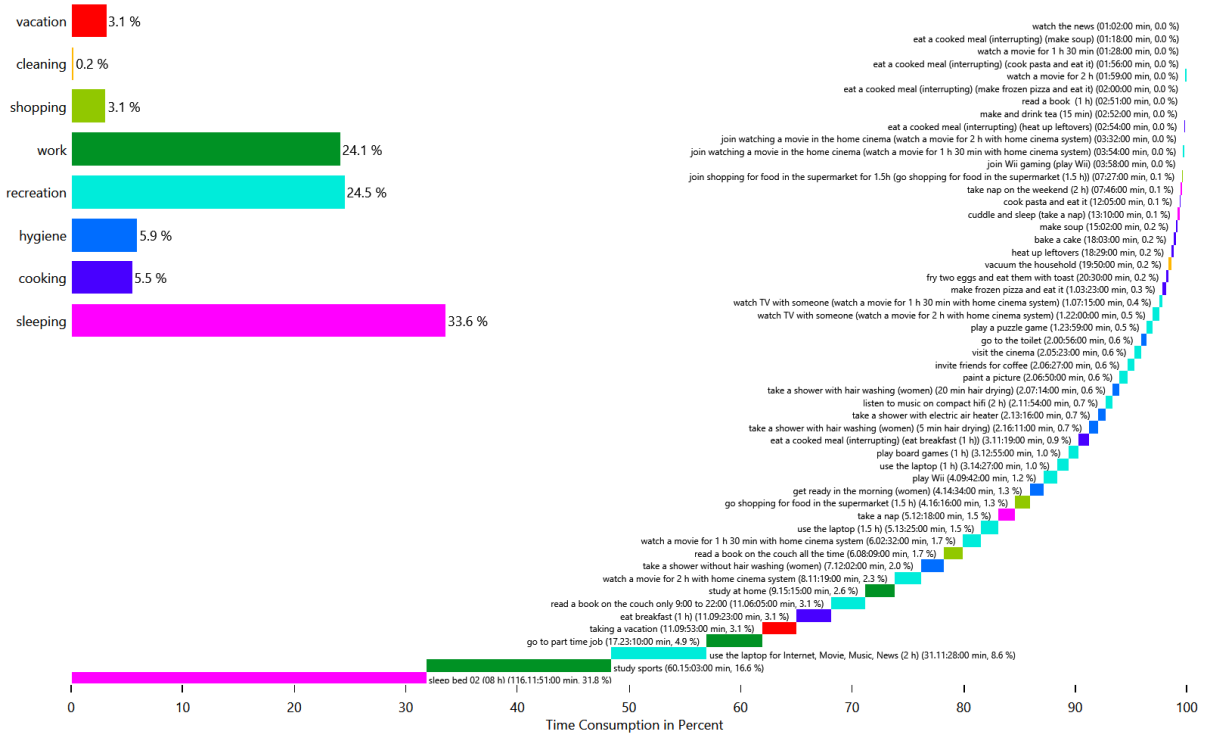
HH0 - CHR52 Chris (22 Male)



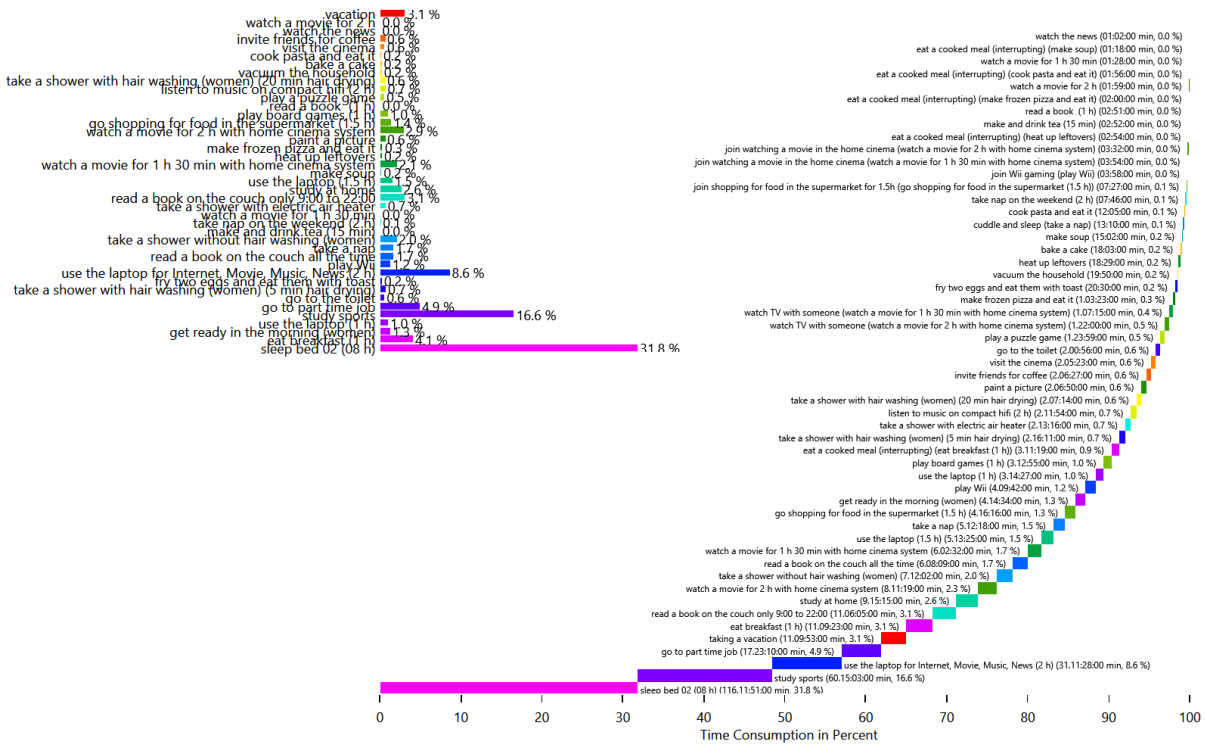
HH0 - CHR52 Chris (22 Male)



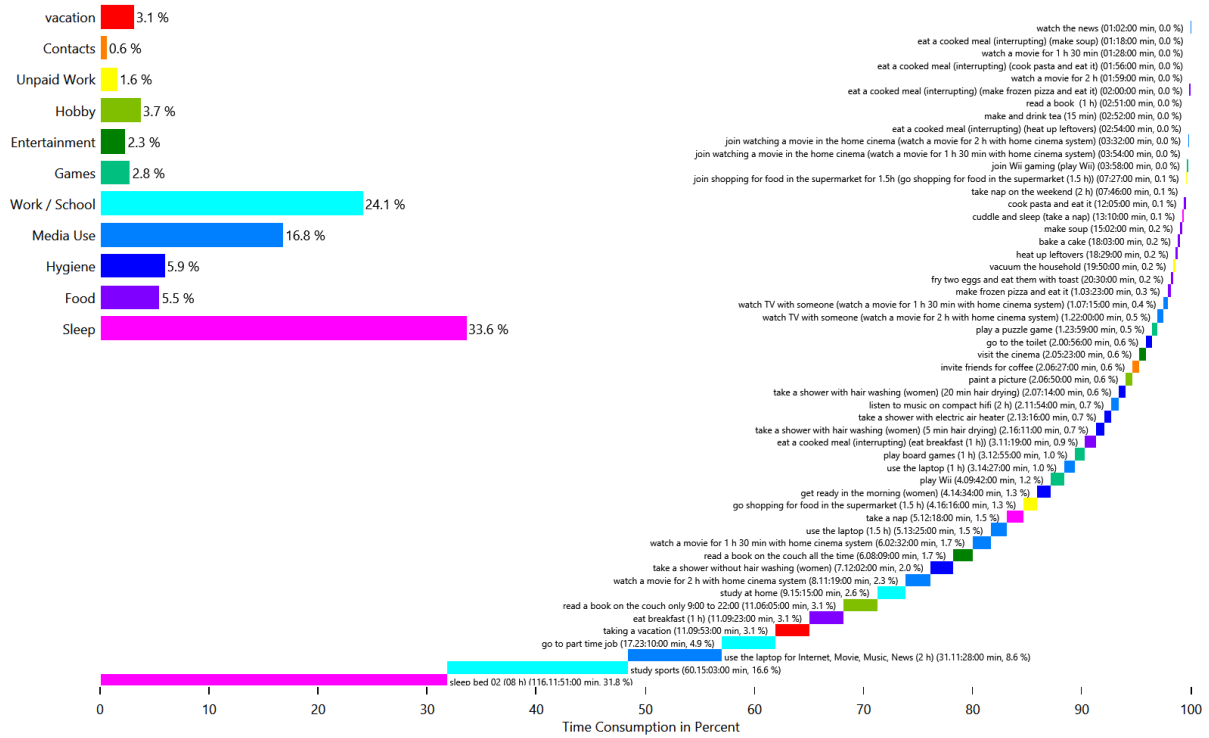
HH0 - CHR52 Iris (22 Female)



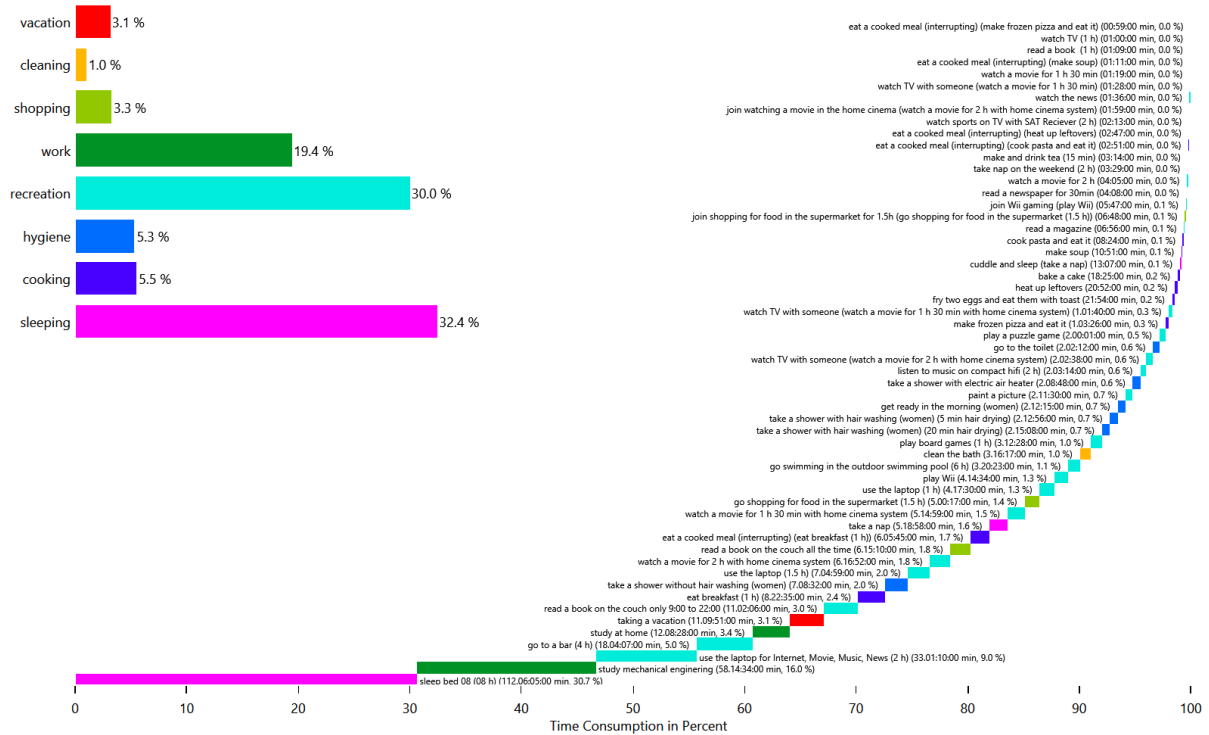
HH0 - CHR52 Iris (22 Female)



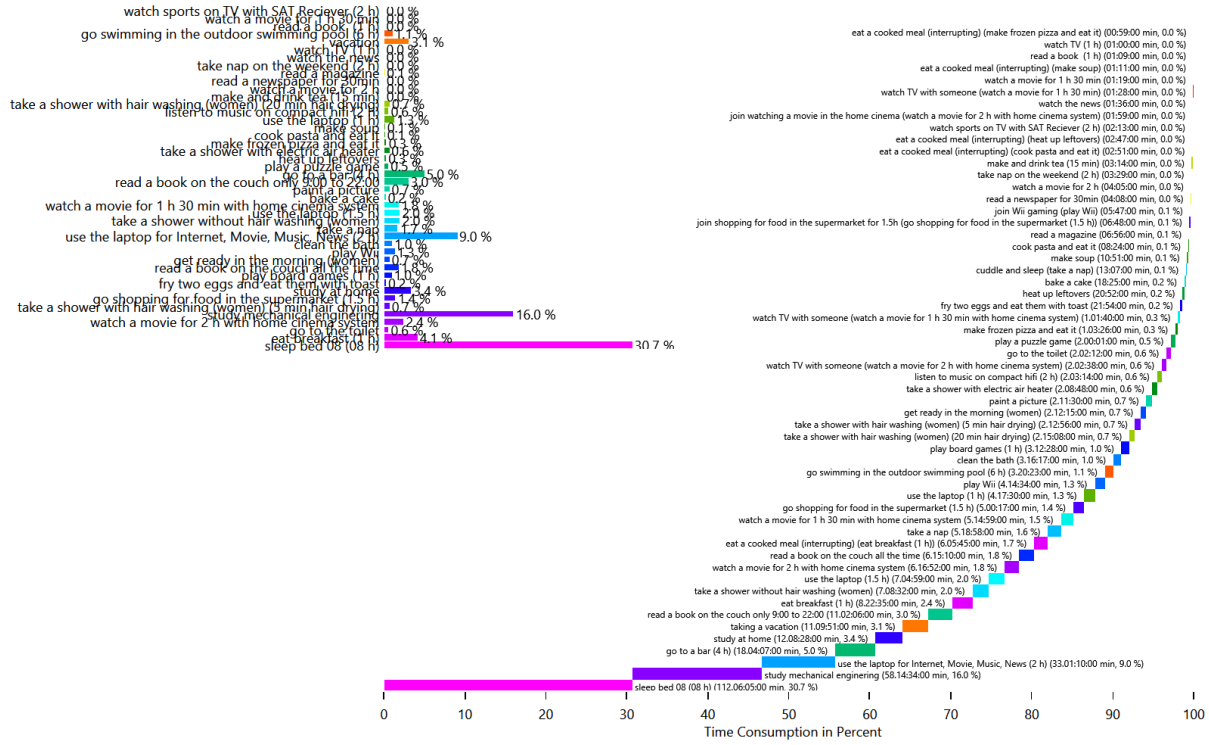
HH0 - CHR52 Iris (22 Female)



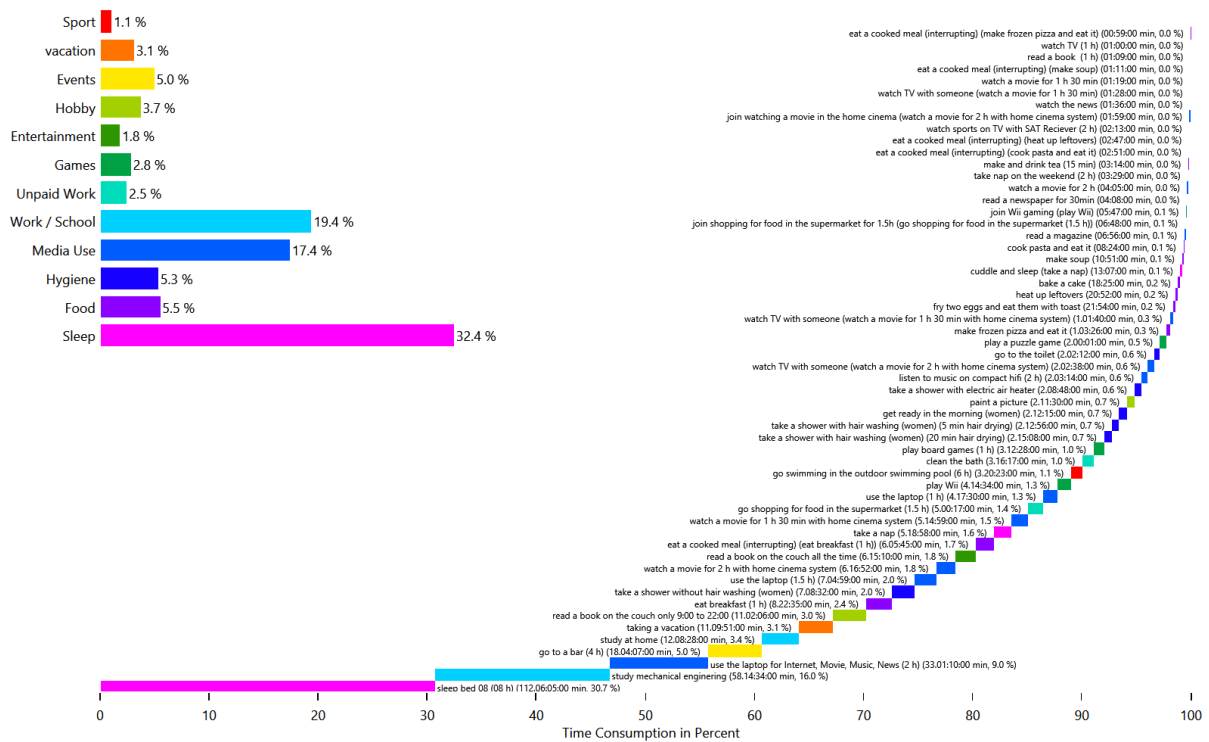
HH0 - CHR52 Maddy (23 Female)



HH0 - CHR52 Maddy (23 Female)



HH0 - CHR52 Maddy (23 Female)

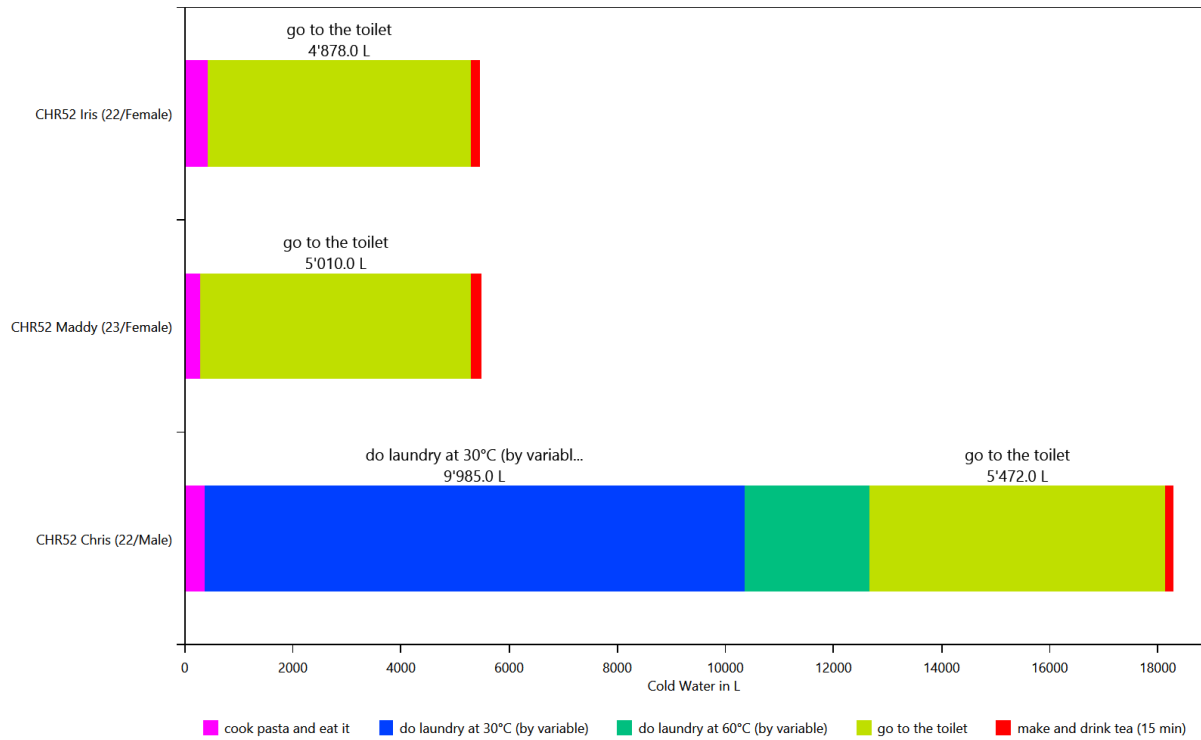


Energy use per person per affordance

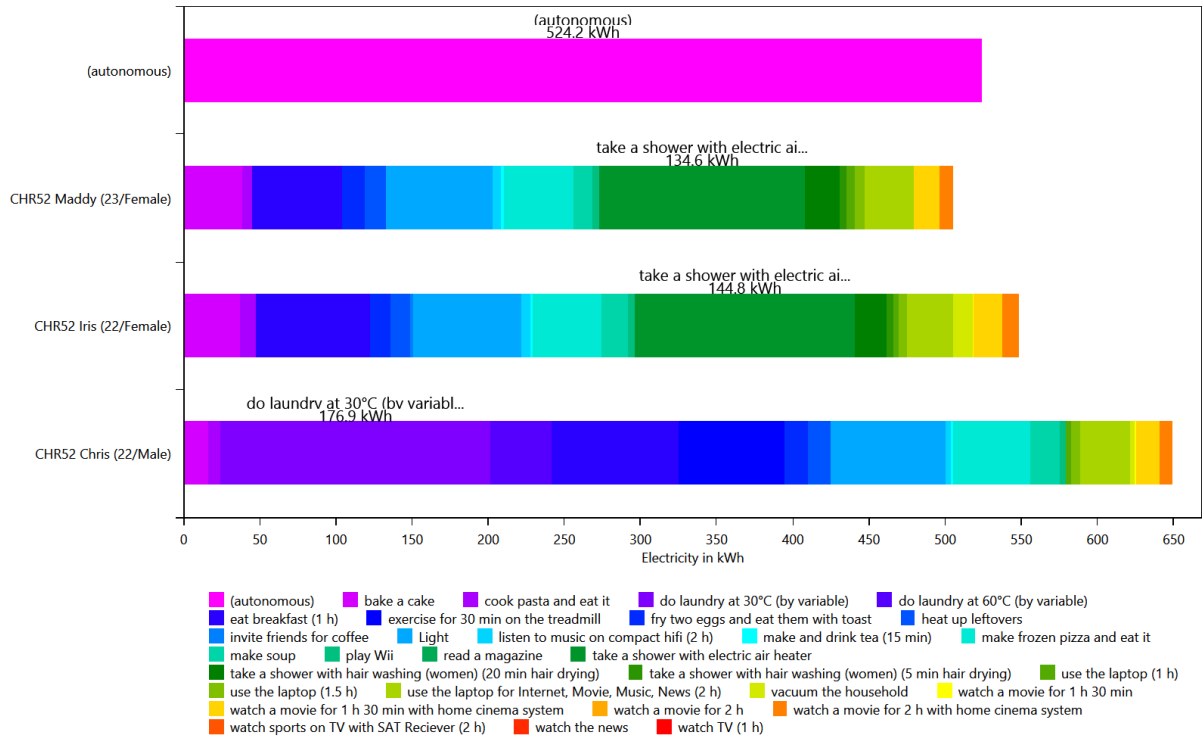
This is made from the files starting with: `AffordanceEnergyUsePerPerson`

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.

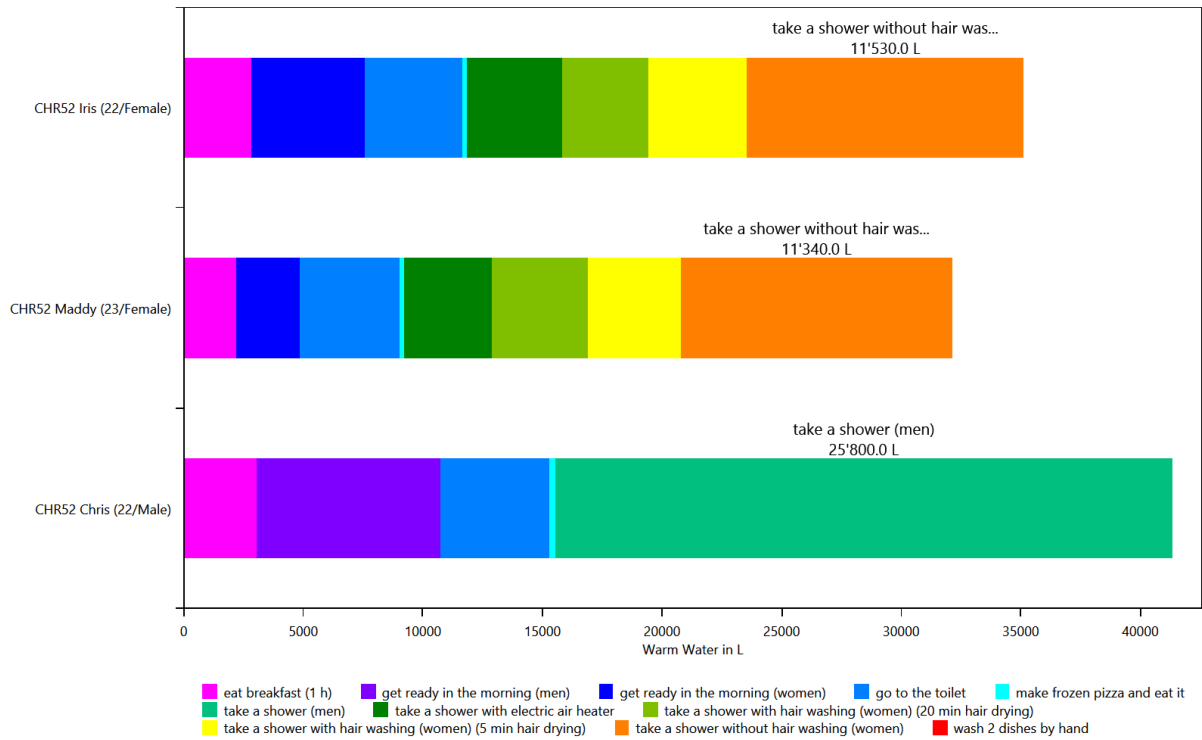
HH0 - Cold Water



HH0 - Electricity



HH0 - Warm Water

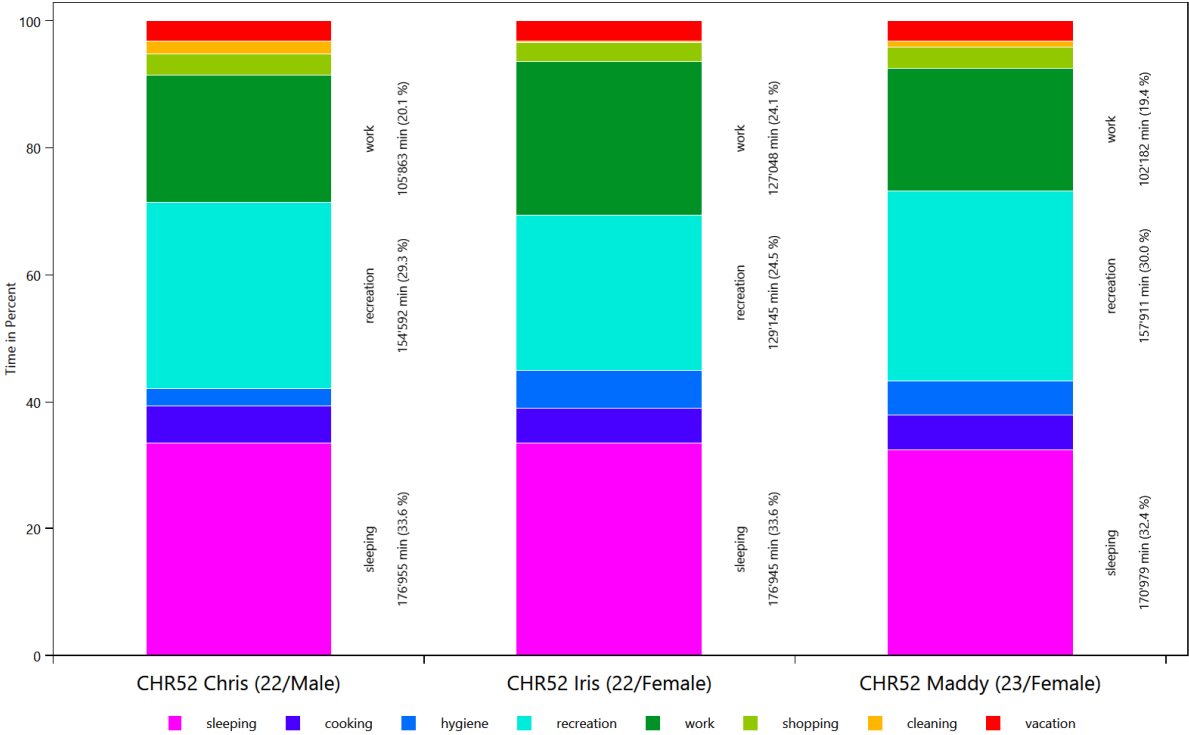


Time Use per Person Per Affordance according to different category definitions

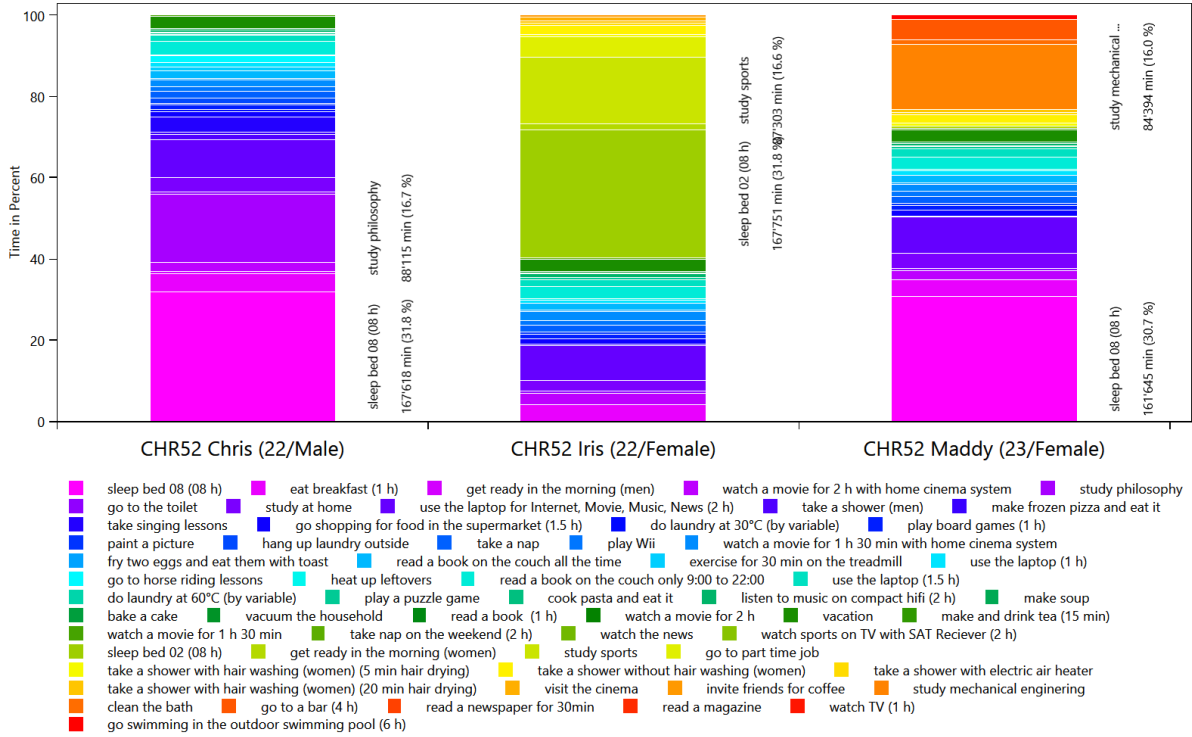
This is made from the files starting with: AffordanceTaggingSet

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.

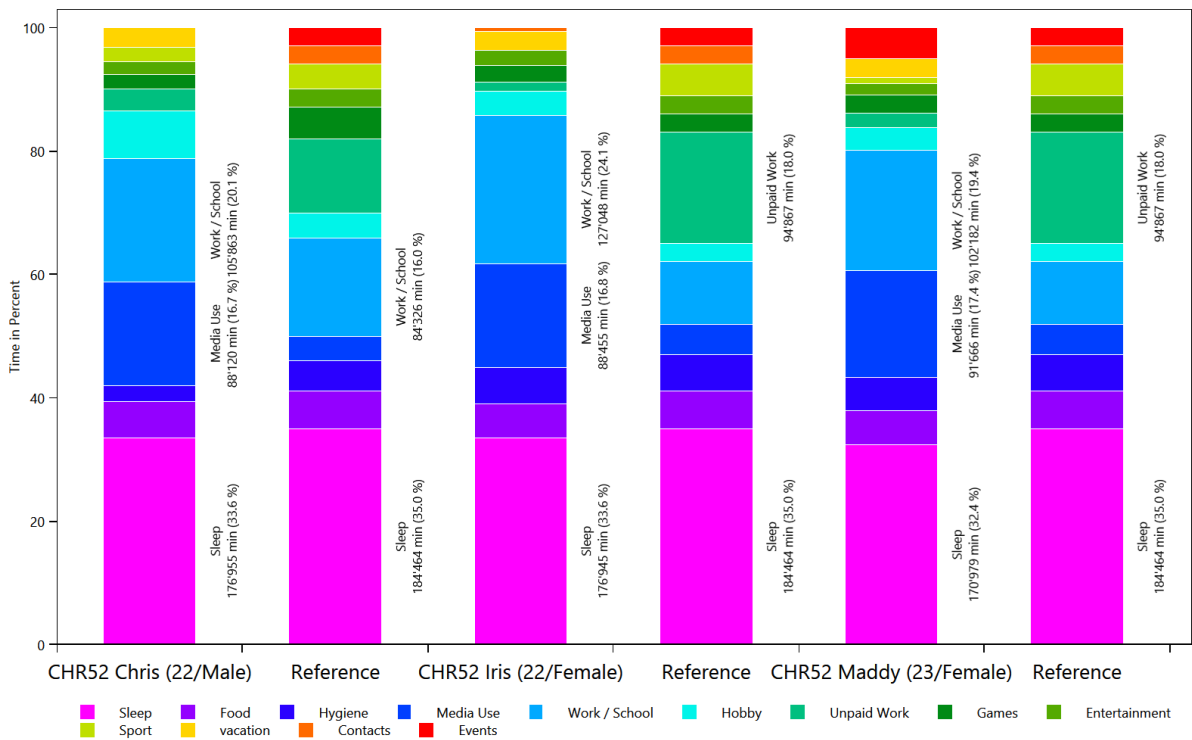
Basic Tagging - HH0



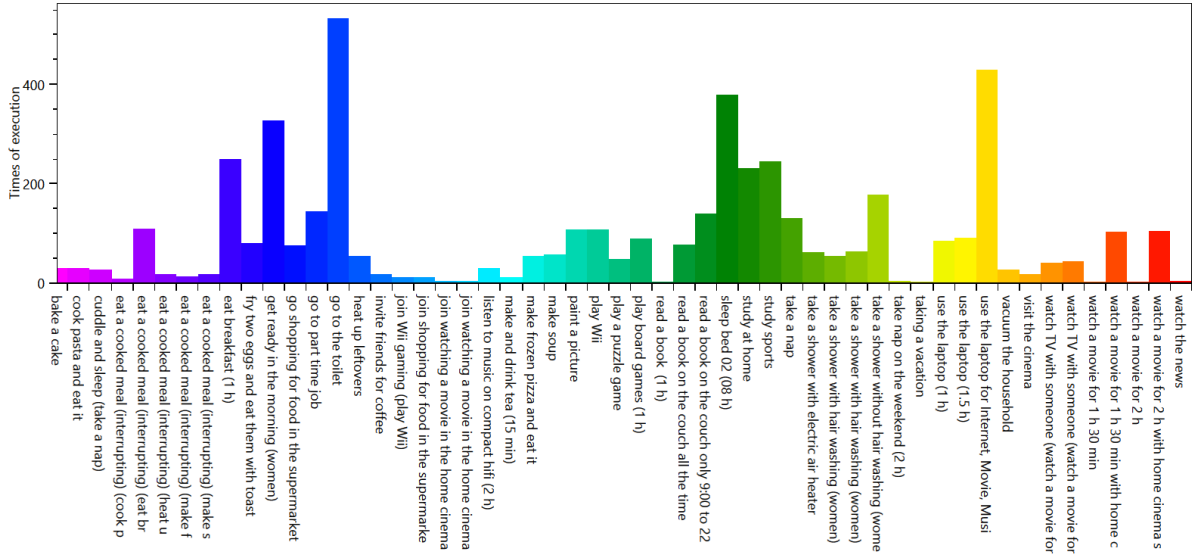
Tagging Set For Planning - HH0



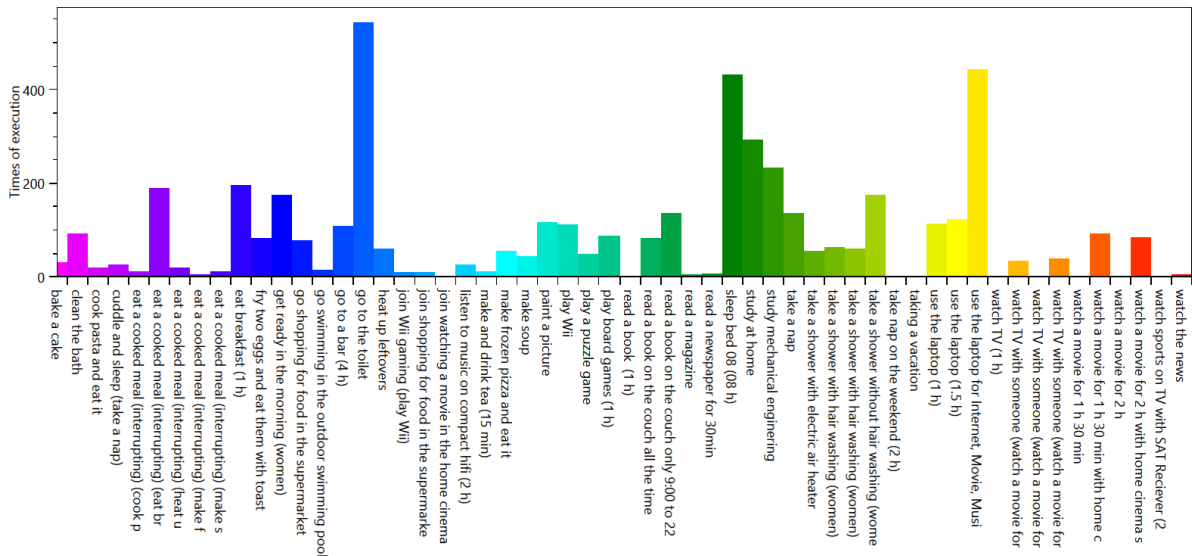
Wo bleibt die Zeit - HH0



HH0 - CHR52 Iris (22 Female)



HH0 - CHR52 Maddy (23 Female)

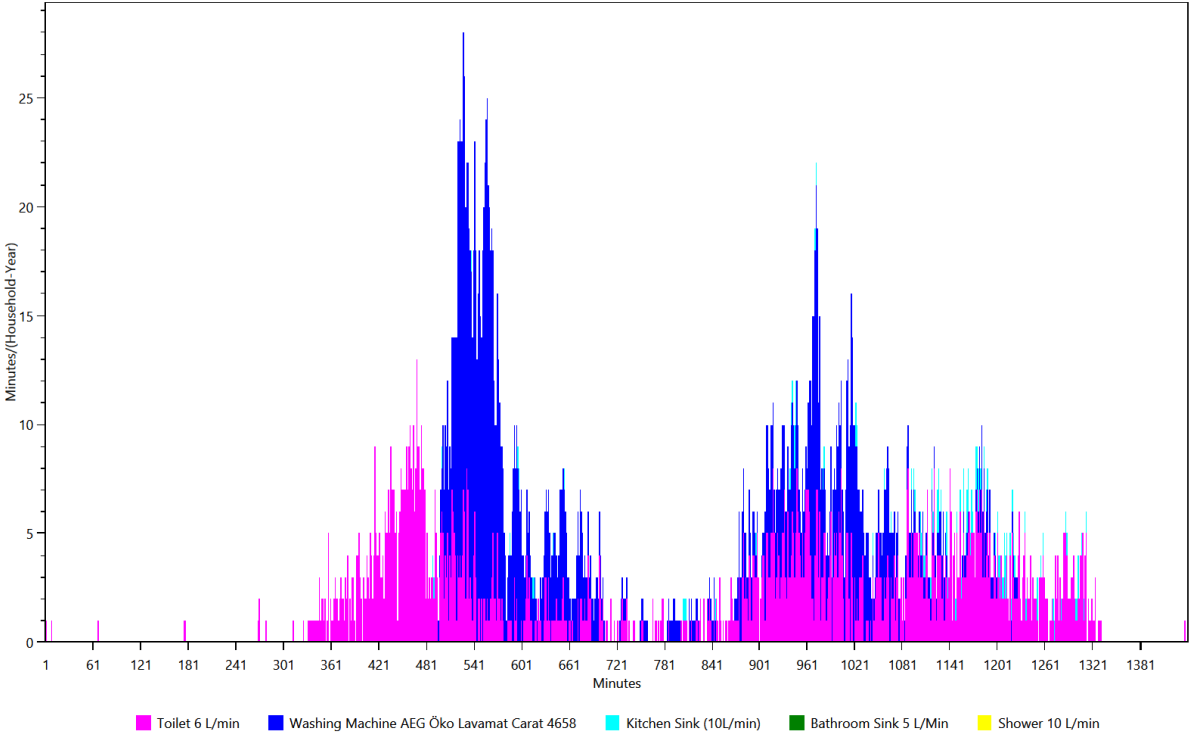


Overview of the time of the use per load type per device

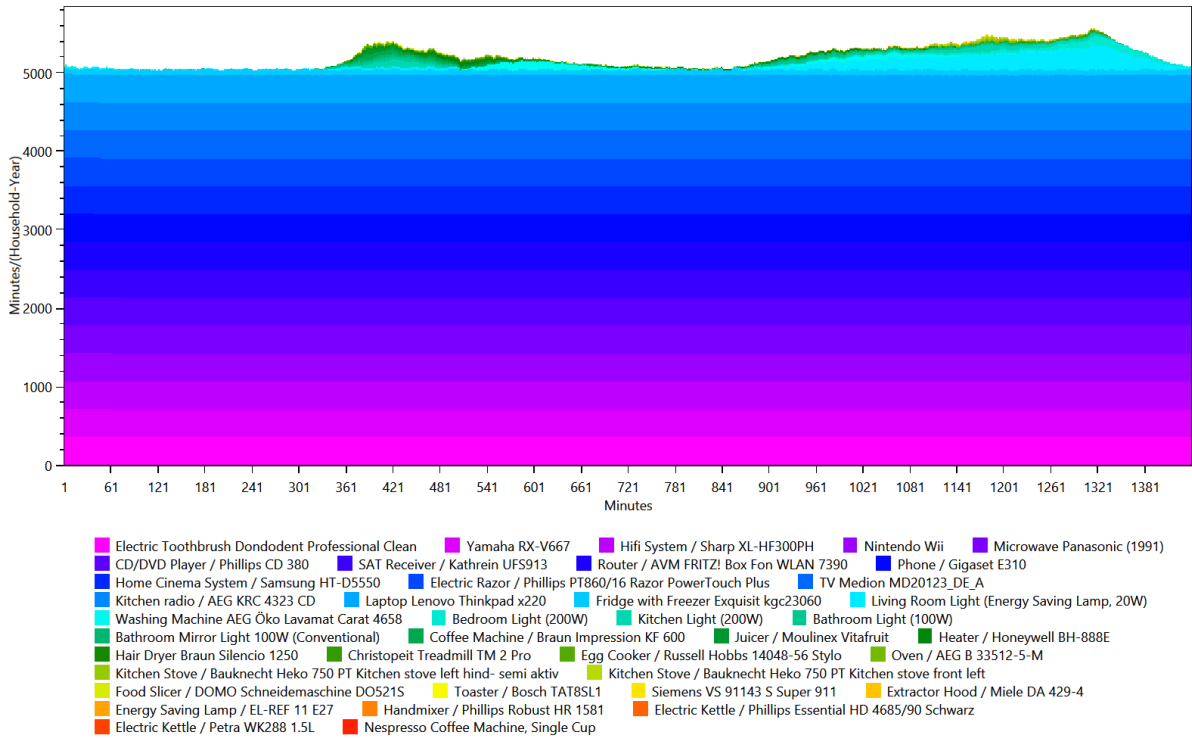
This is made from the files starting with: TimeOfUseEnergyProfiles

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

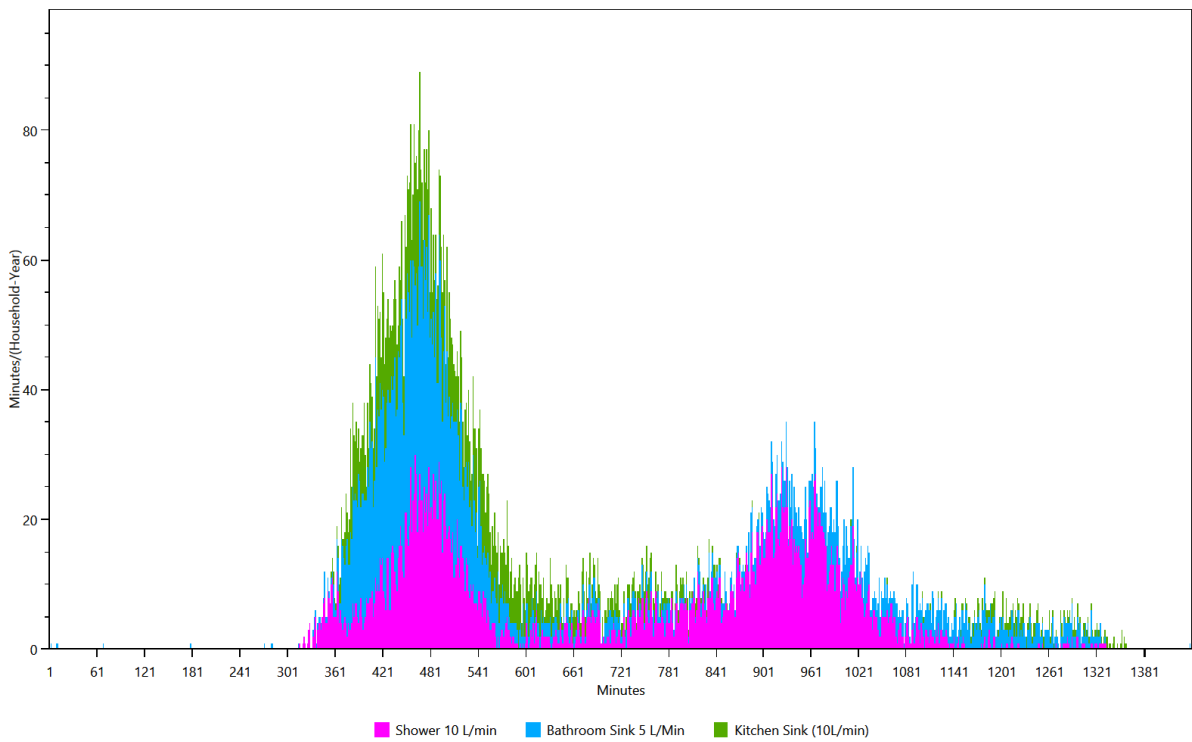
Cold Water



Electricity



Warm Water

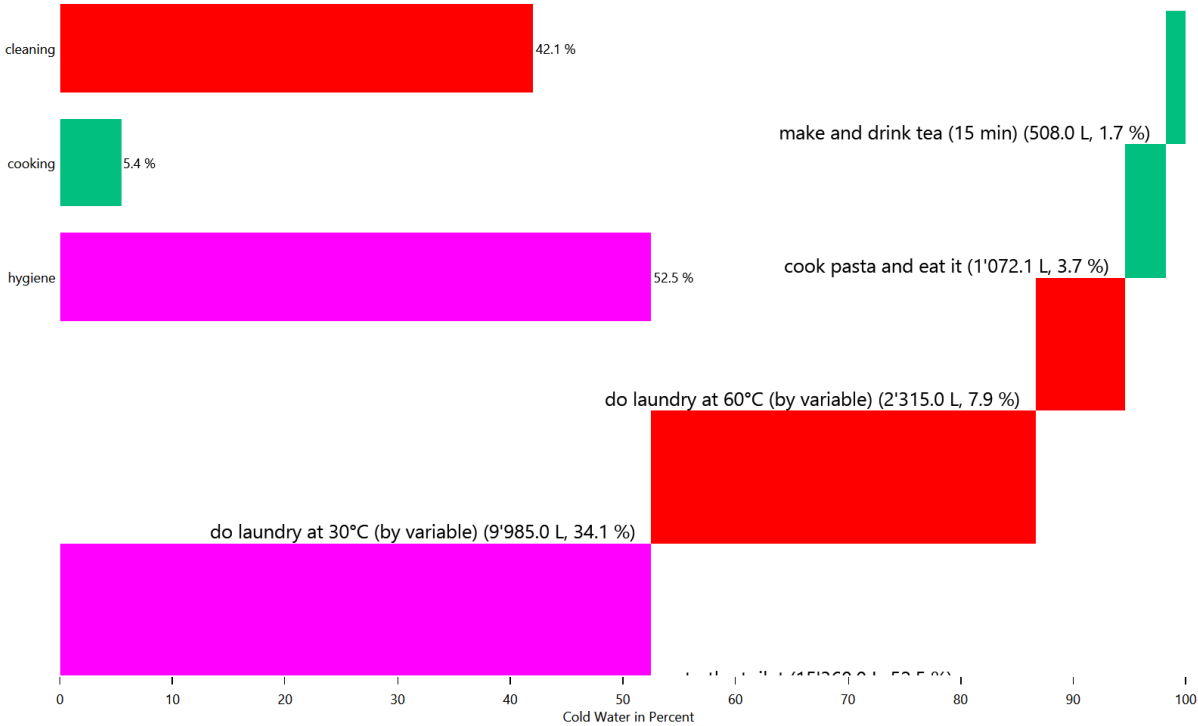


Energy/Resource use distribution per load type per affordance

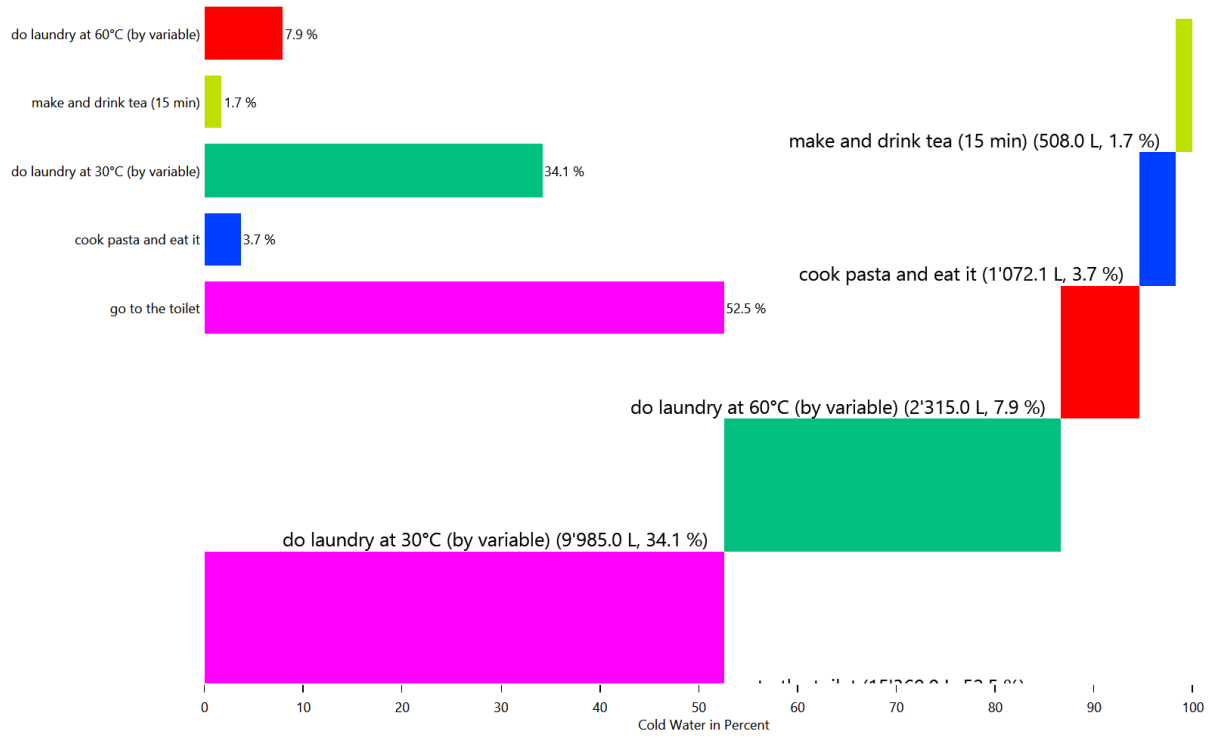
This is made from the files starting with: AffordanceEnergyUse

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

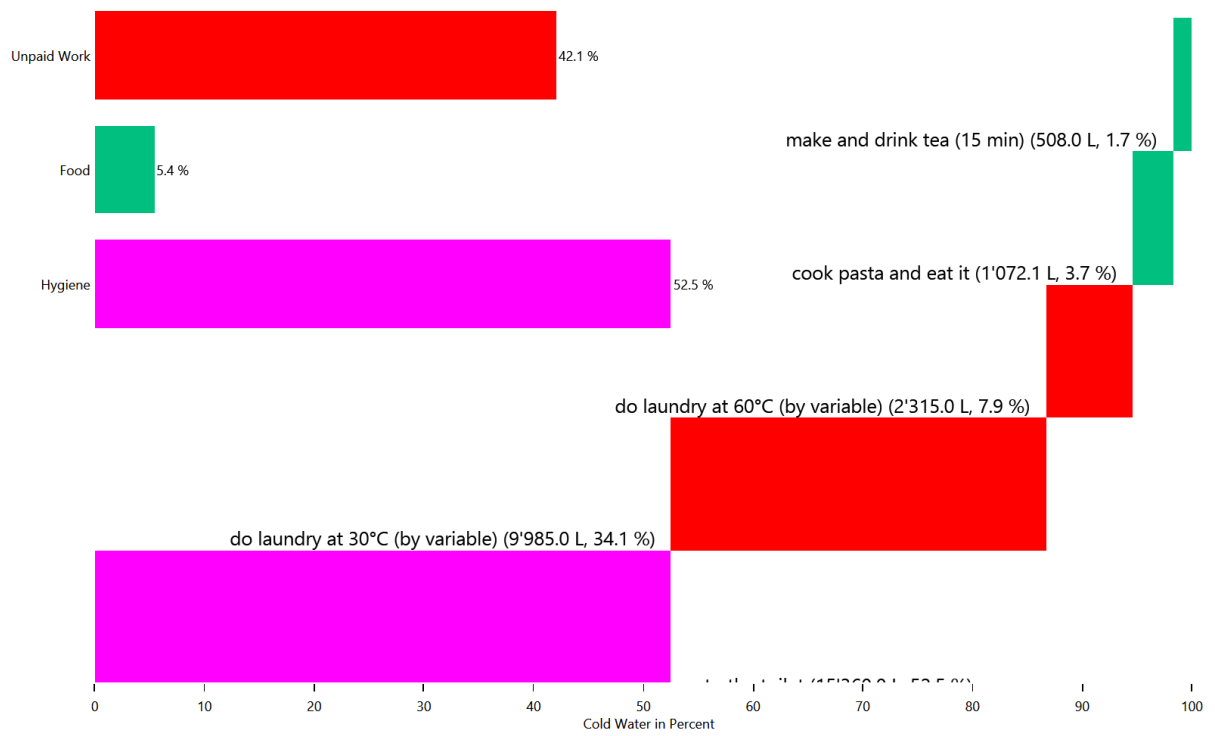
HH0 - Cold Water



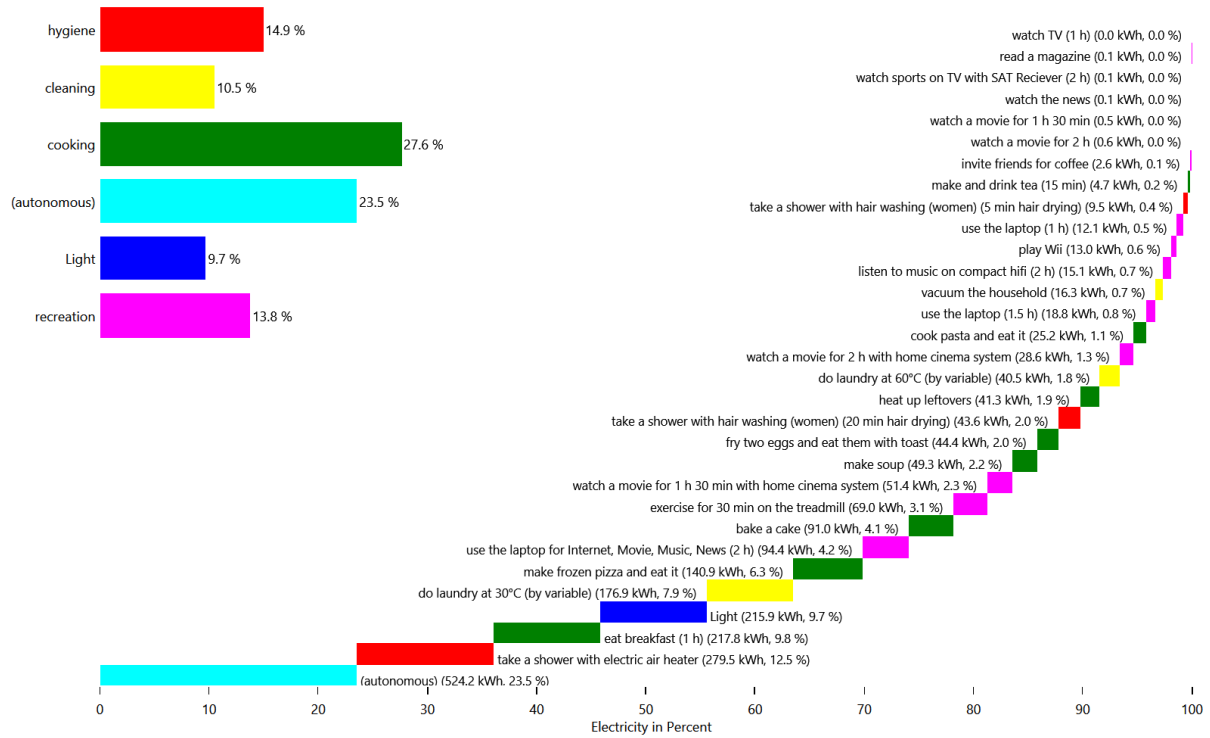
HH0 - Cold Water



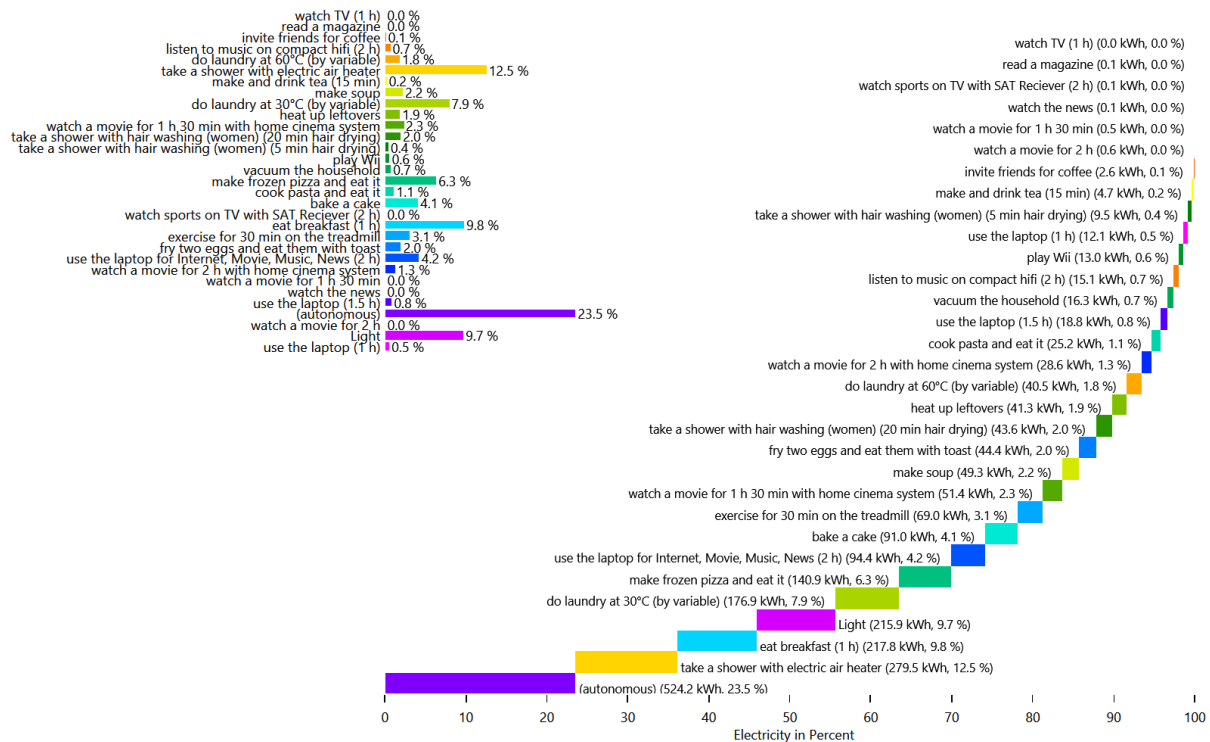
HH0 - Cold Water



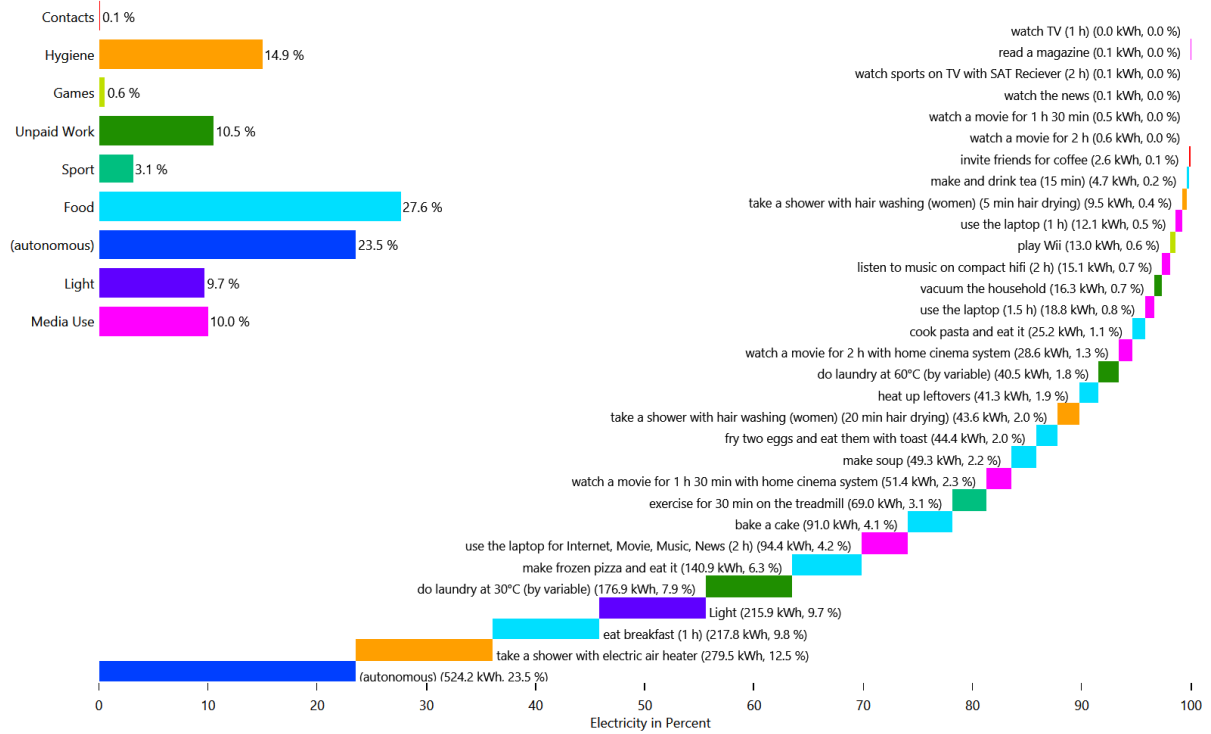
HH0 - Electricity



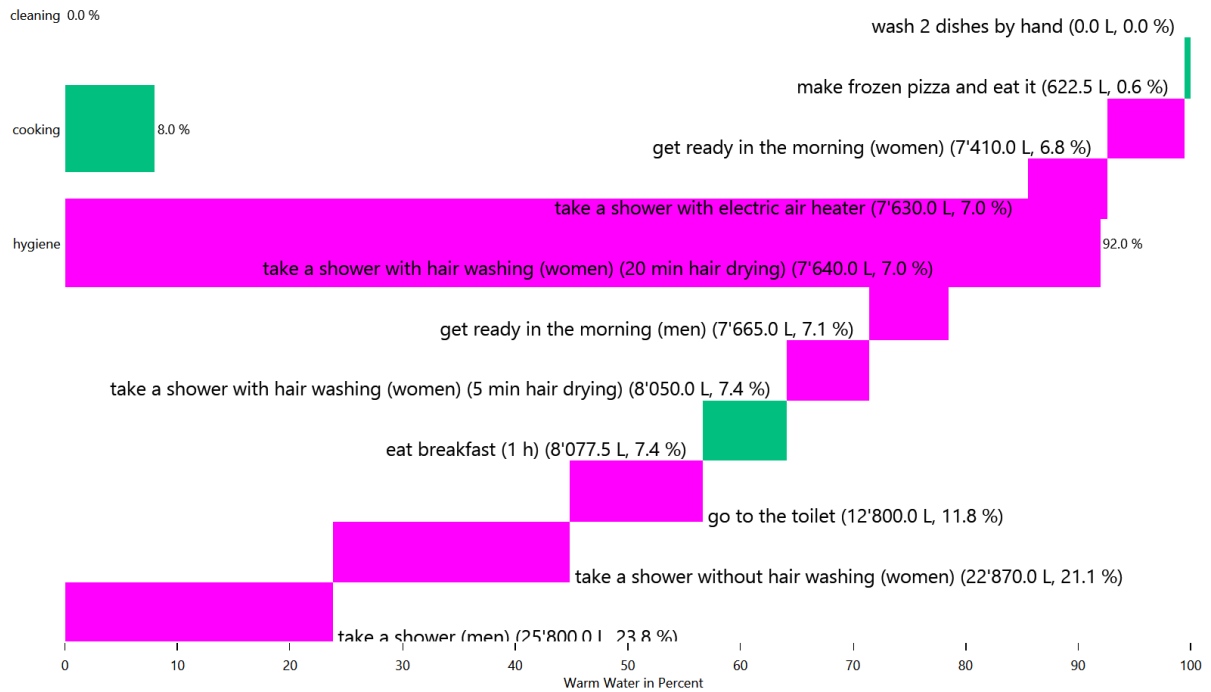
HH0 - Electricity



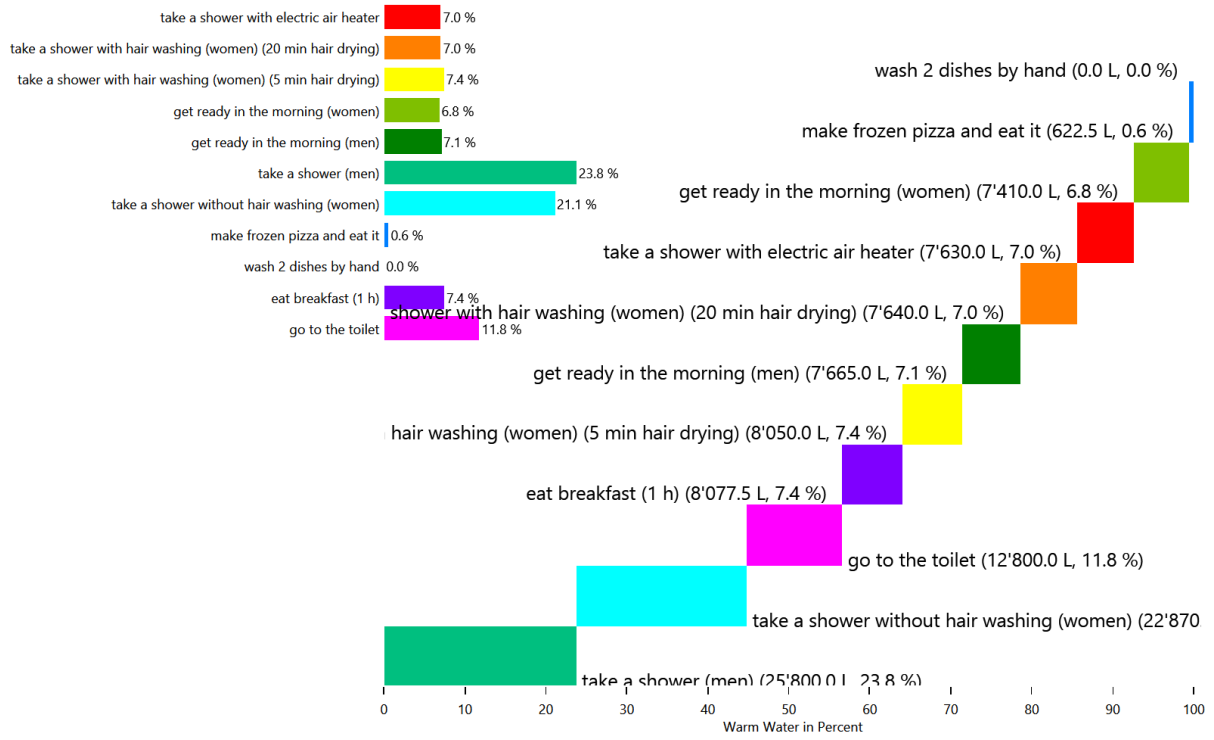
HH0 - Electricity



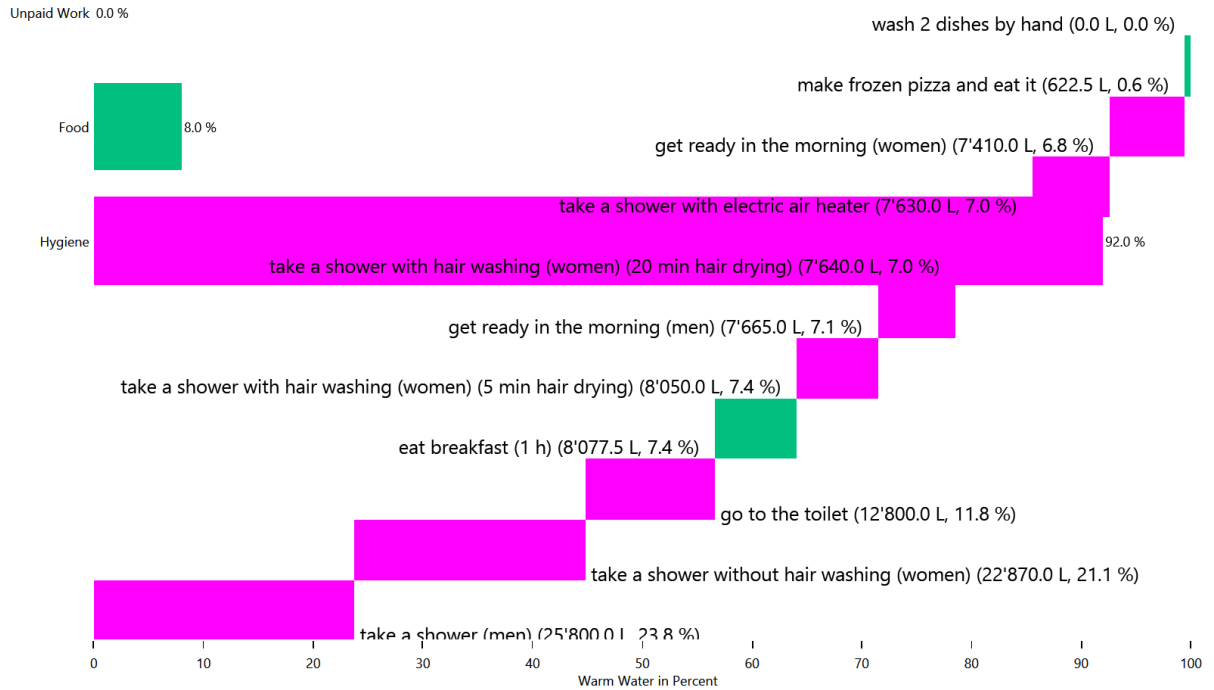
HH0 - Warm Water



HH0 - Warm Water



HH0 - Warm Water

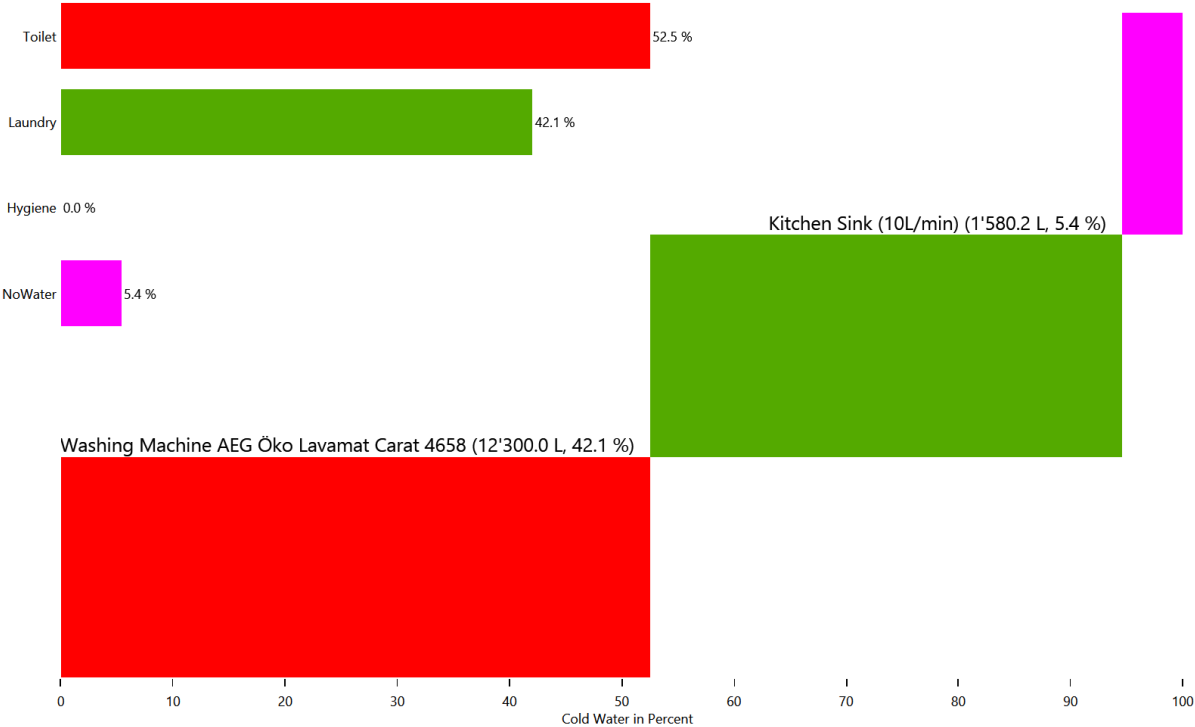


Energy use for each load type for each device

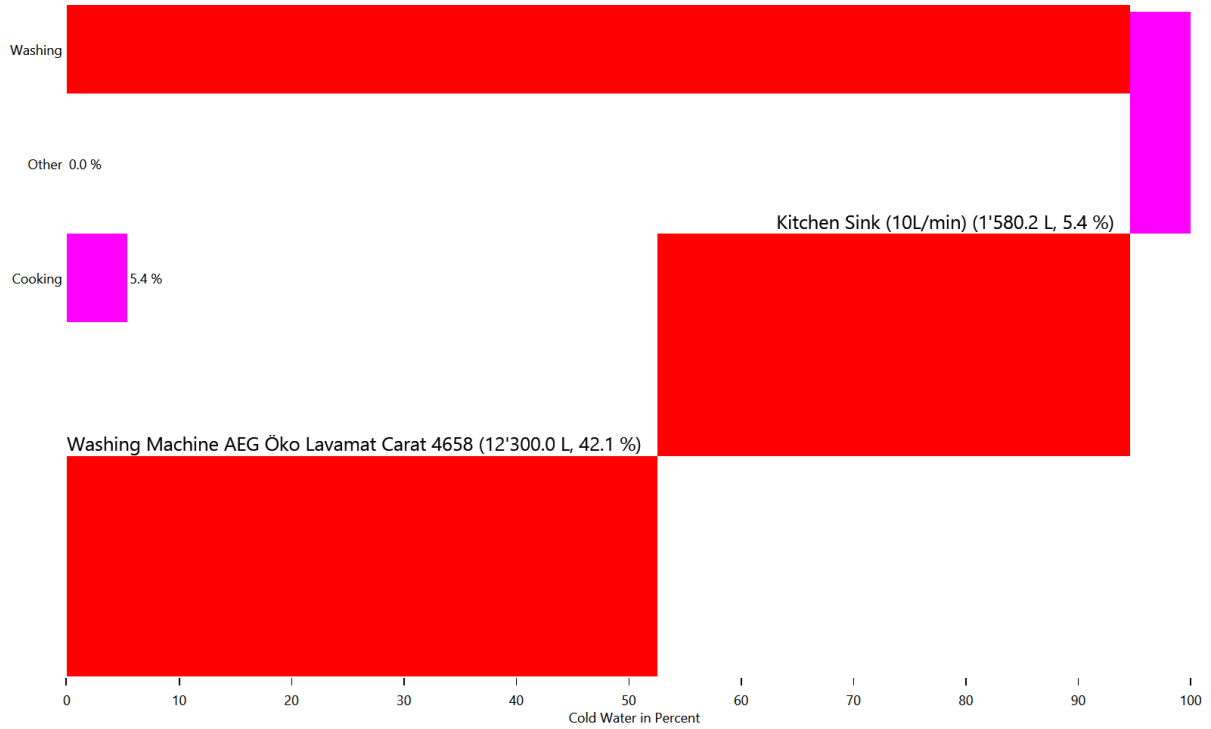
This is made from the files starting with: DeviceSums

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

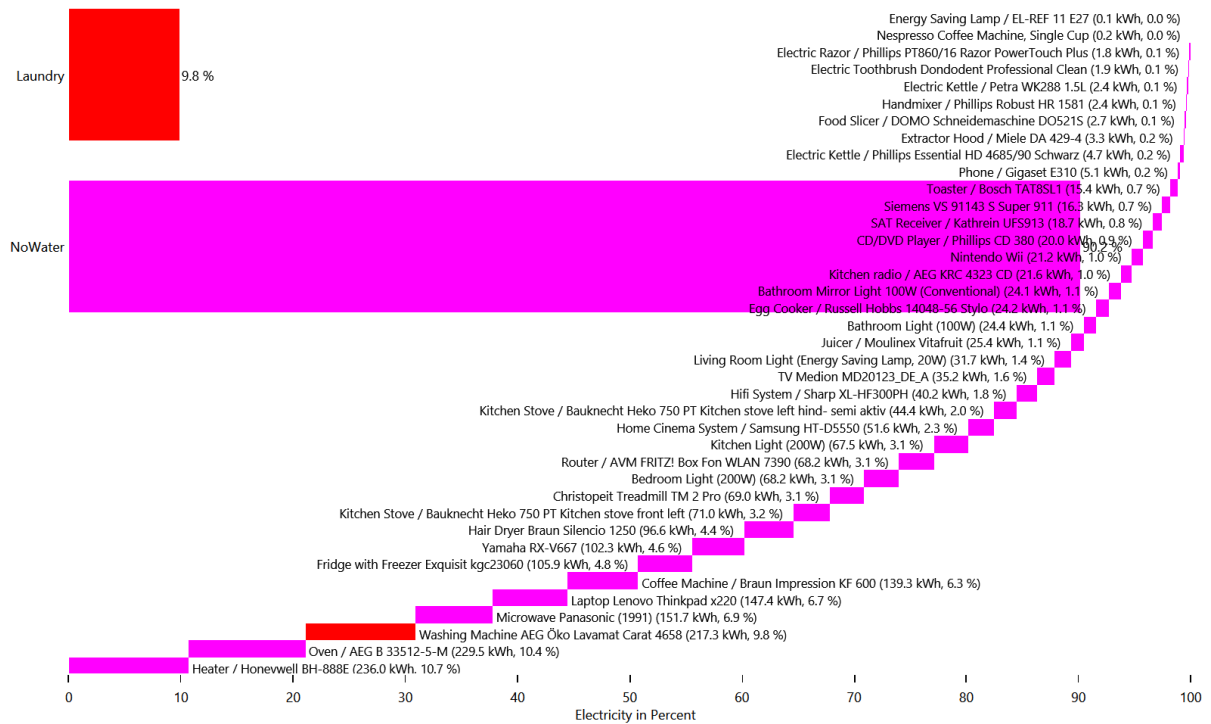
Cold Water



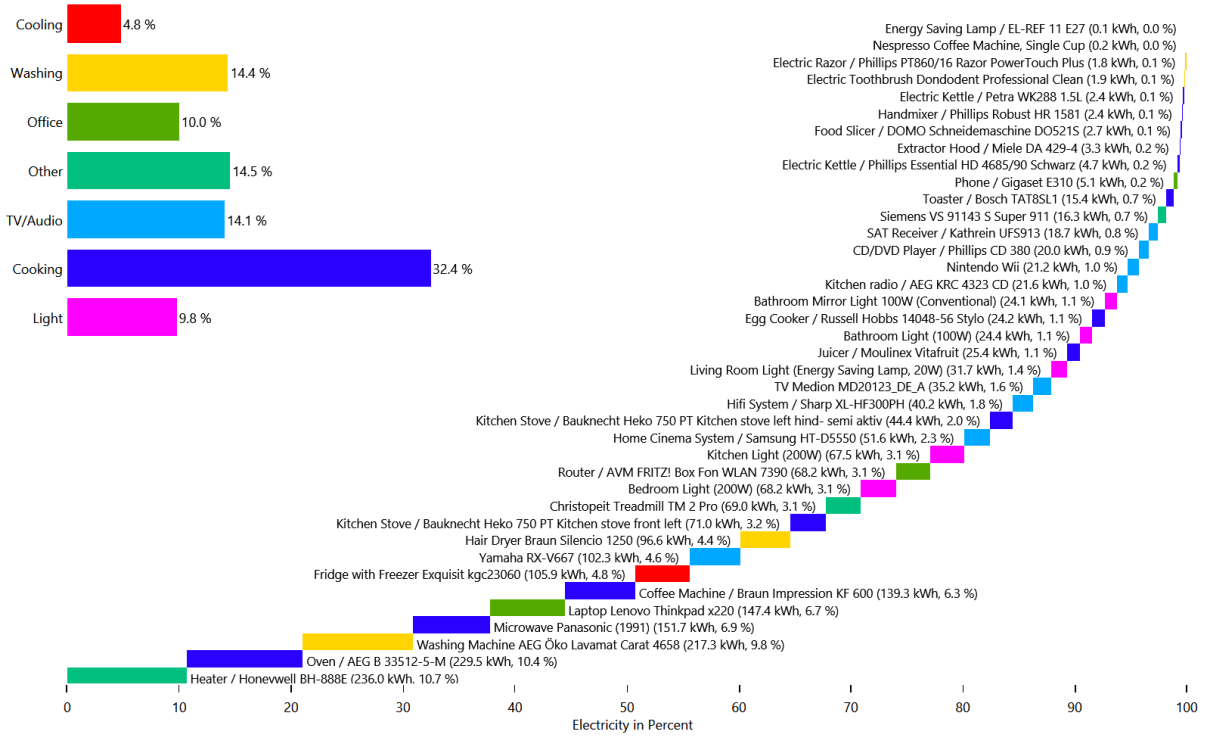
Cold Water



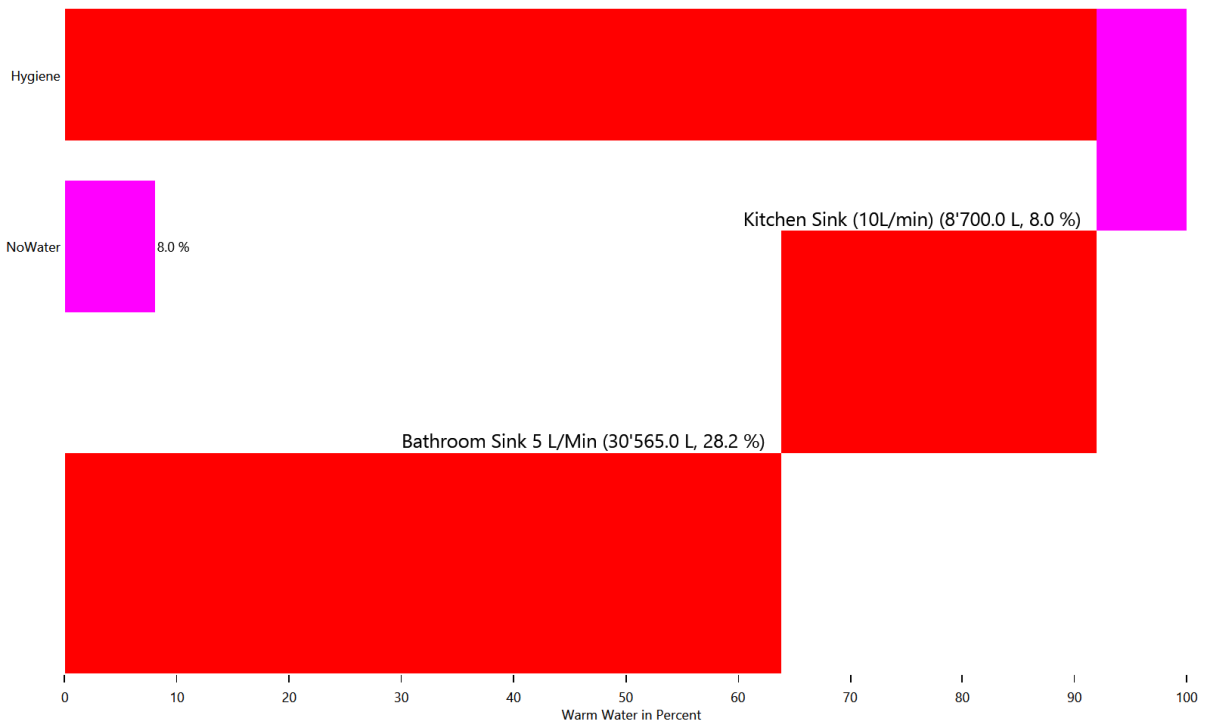
Electricity



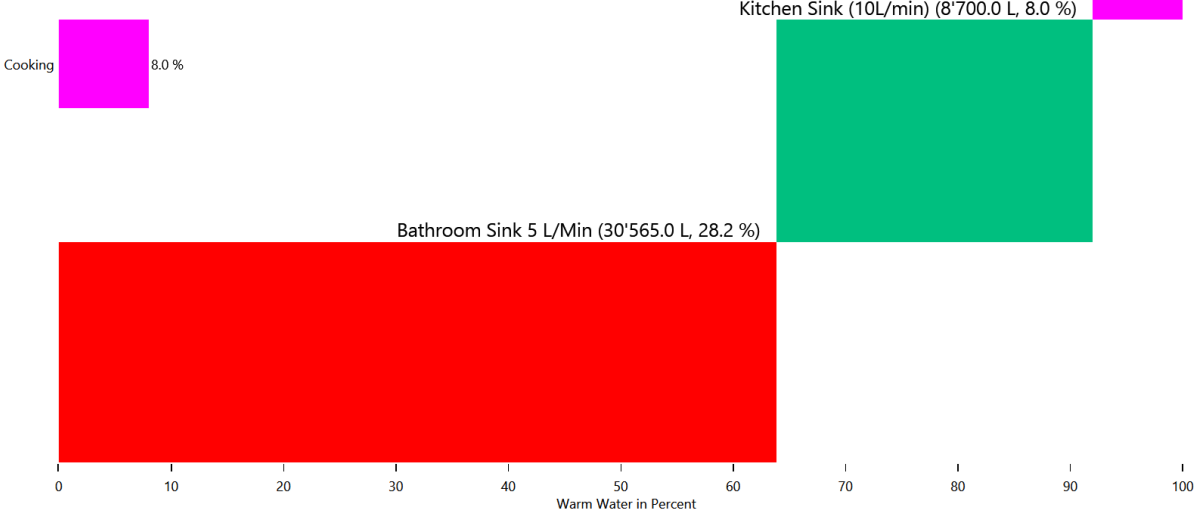
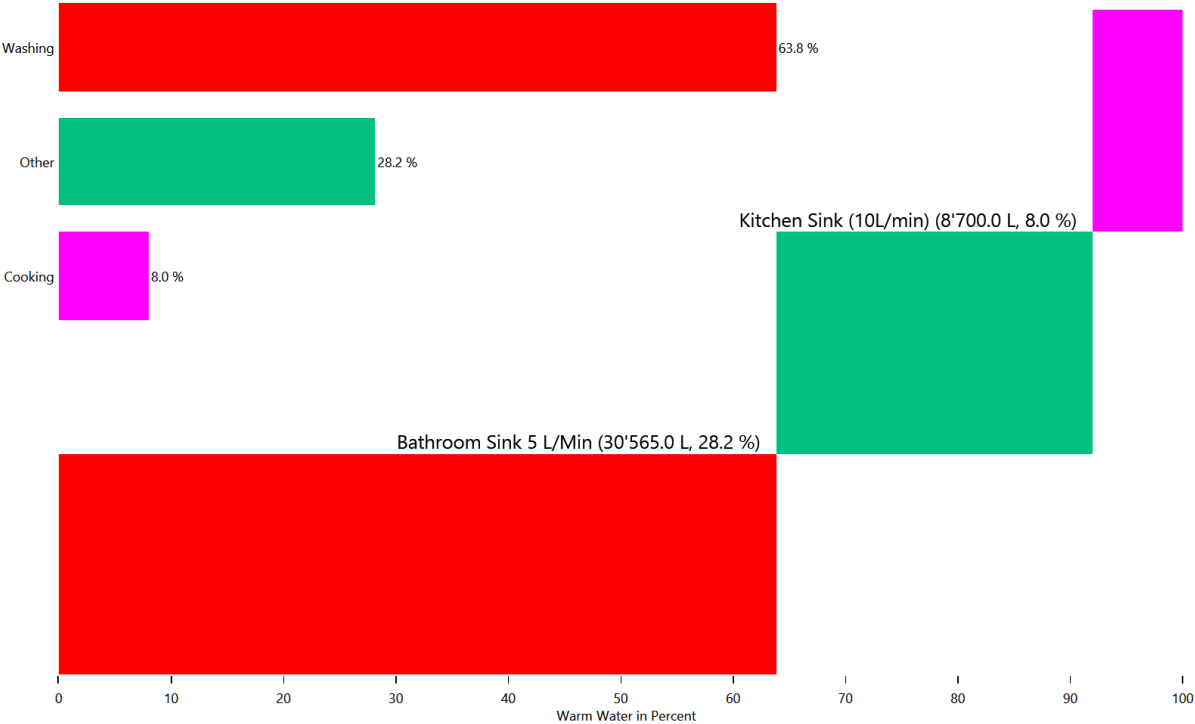
Electricity



Warm Water



Warm Water

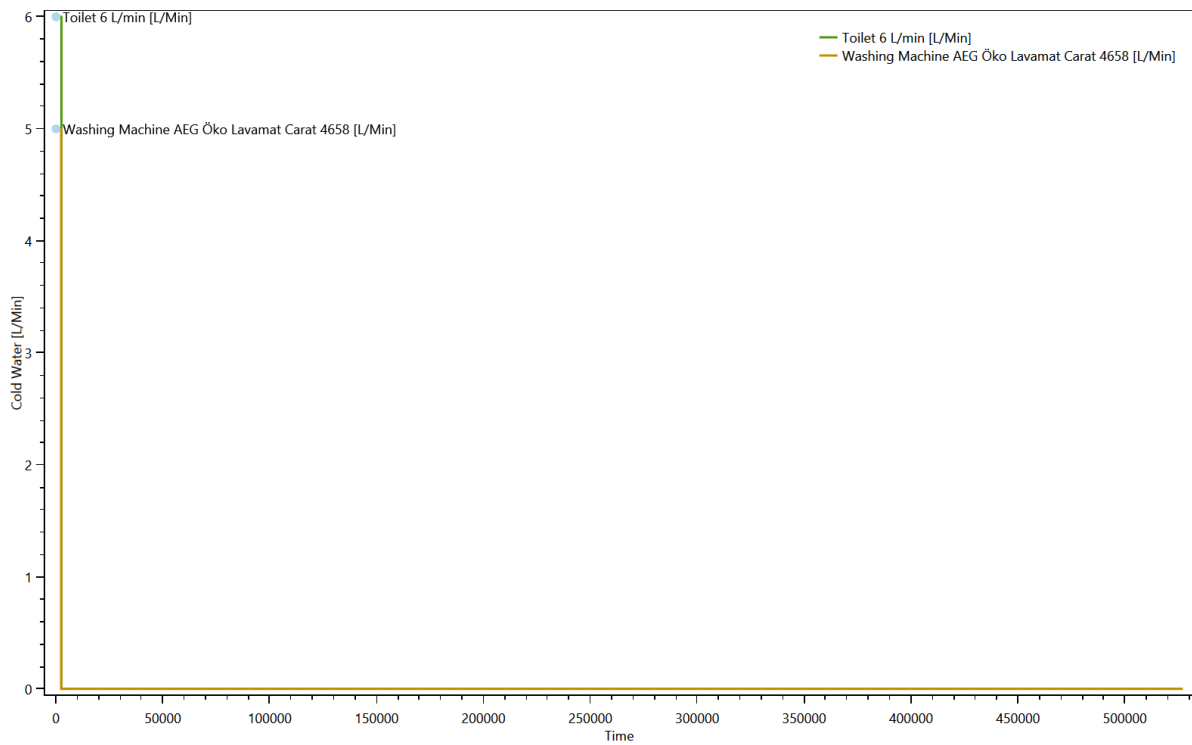


Duration curve for each device for each load type

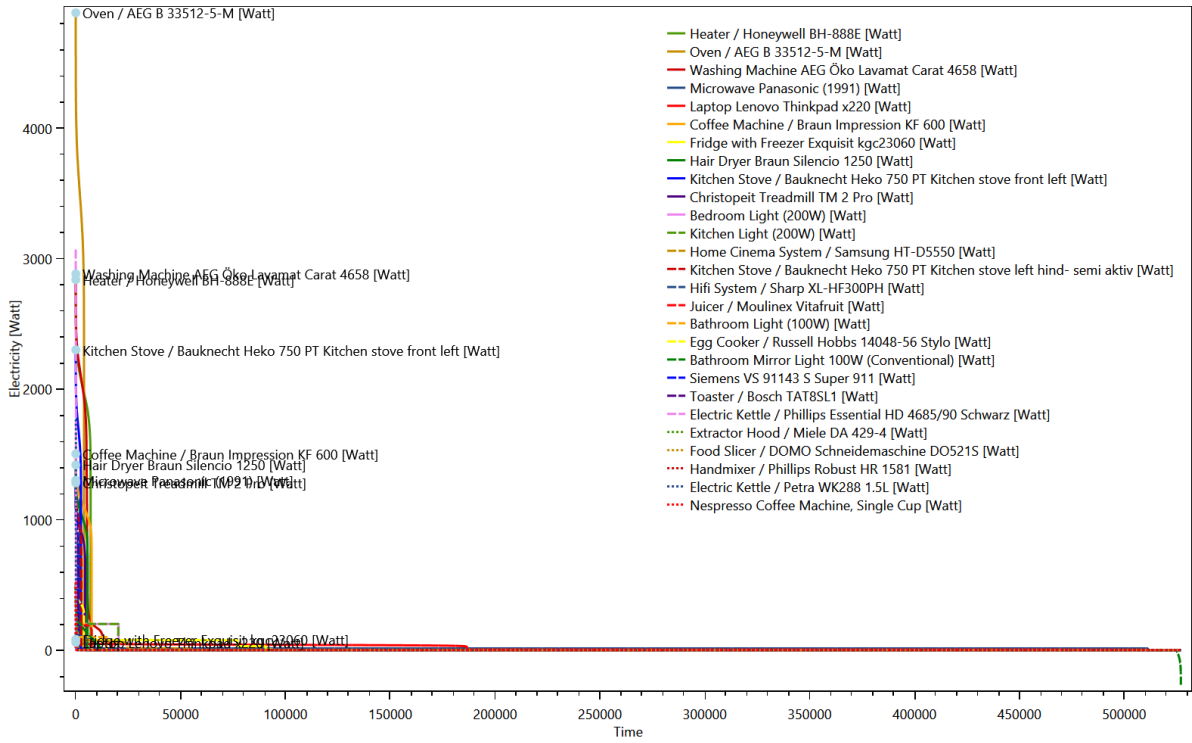
This is made from the files starting with: DeviceDurationCurves

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

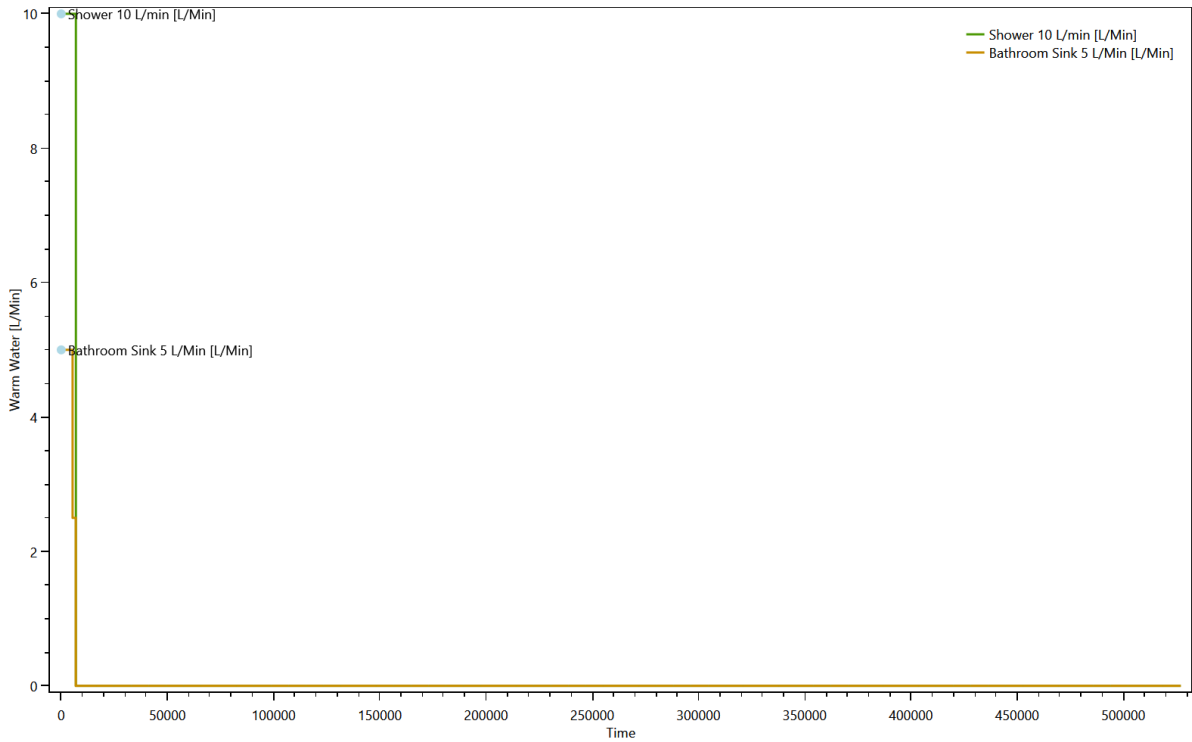
Cold Water



Electricity



Warm Water

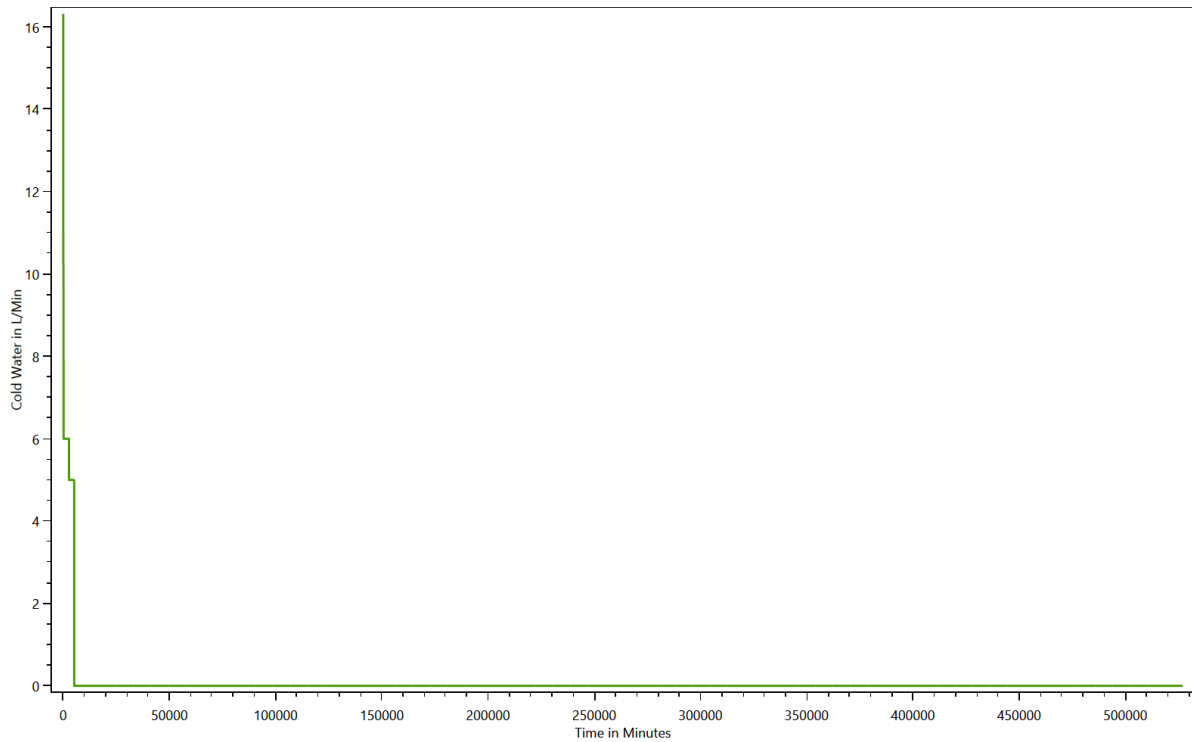


Duration curve for each load type

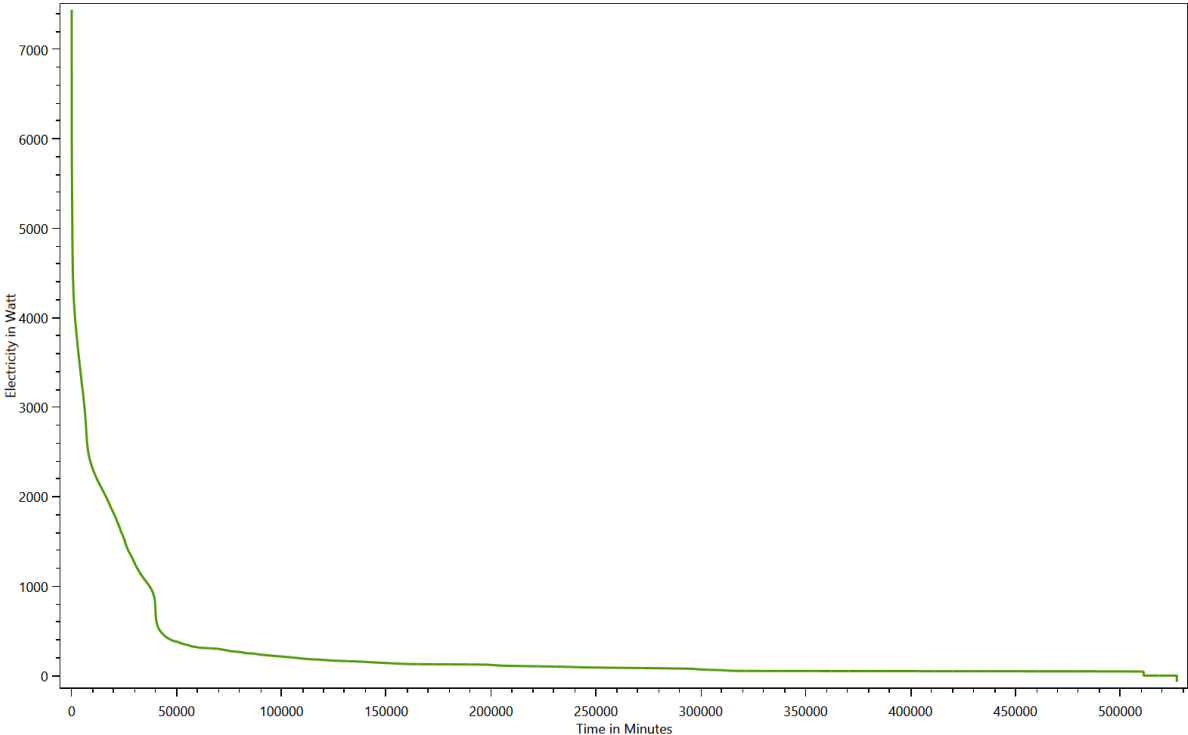
This is made from the files starting with: DurationCurve

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

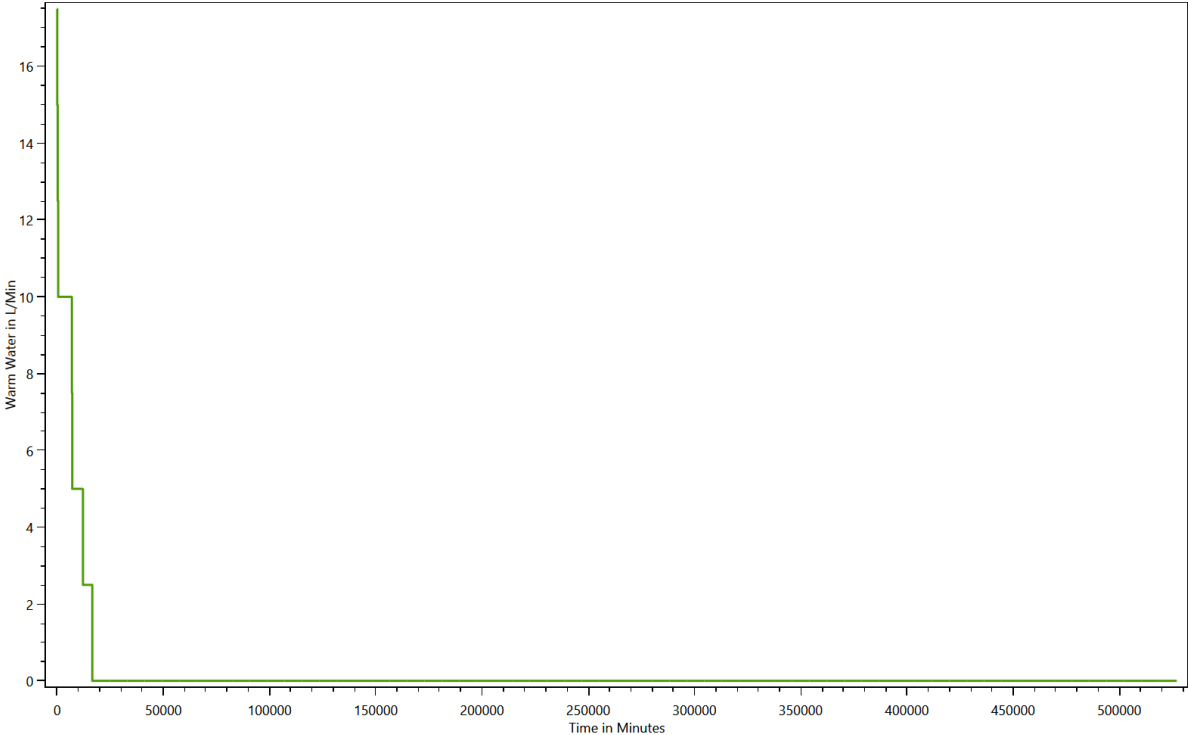
Cold Water



Electricity



Warm Water

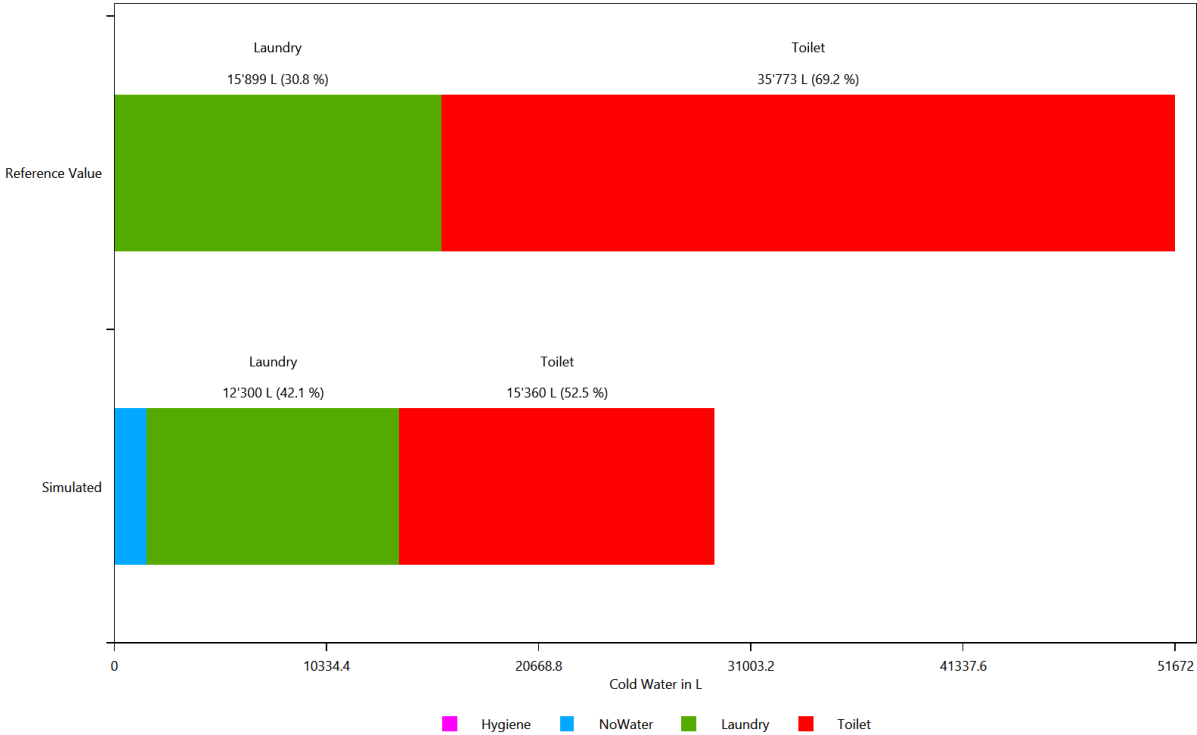


Grouped energy use for each load type for each device

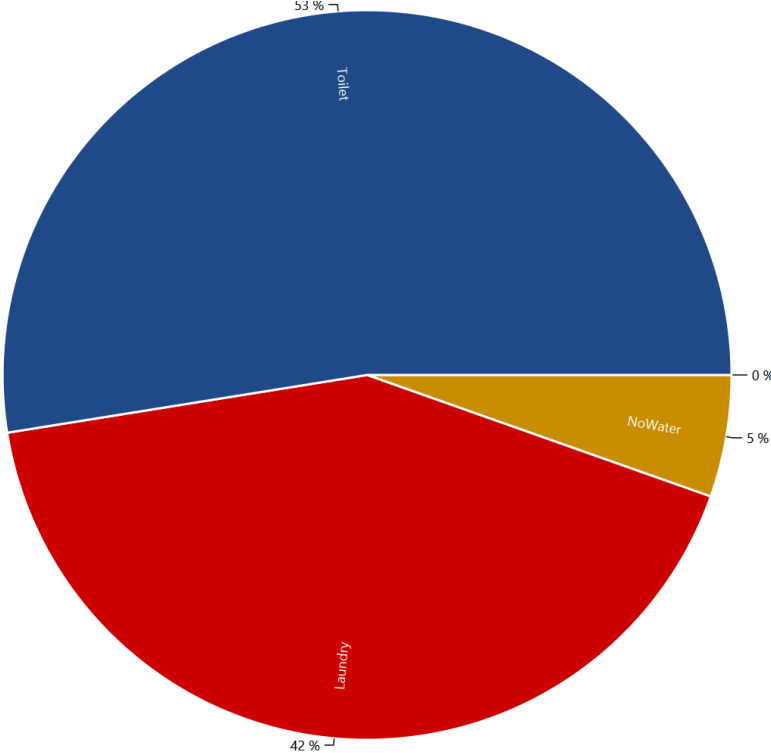
This is made from the files starting with: DeviceTaggingSet

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

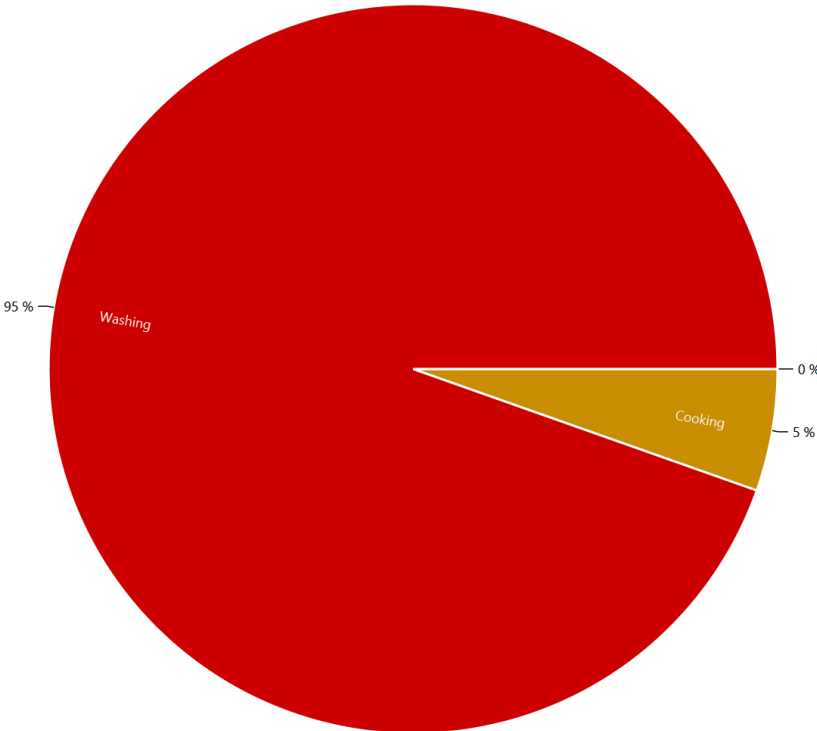
HH0 - Destatis Water Usage Statistics - Cold Water



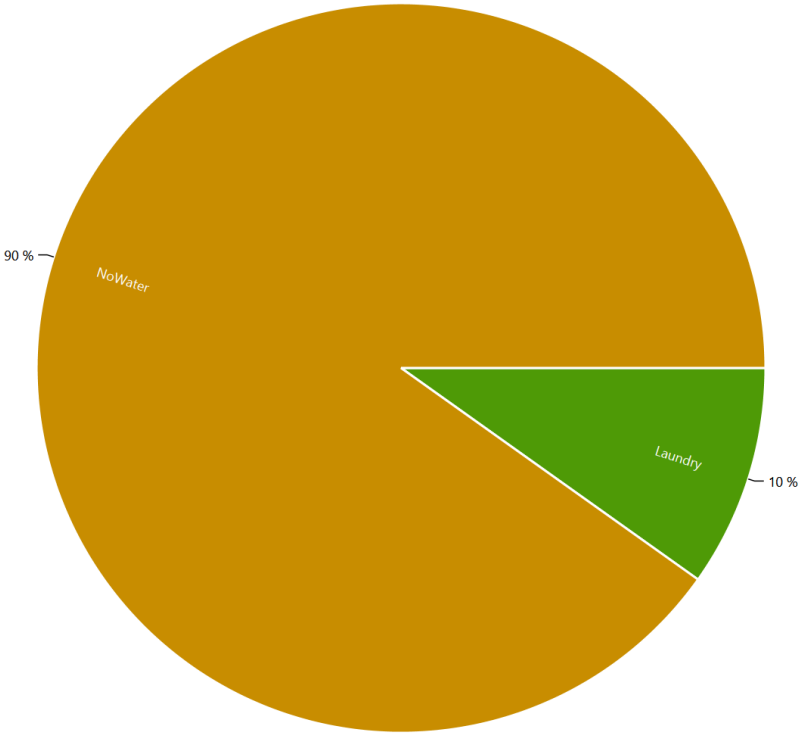
HH0 - Destatis Water Usage Statistics - Cold Water



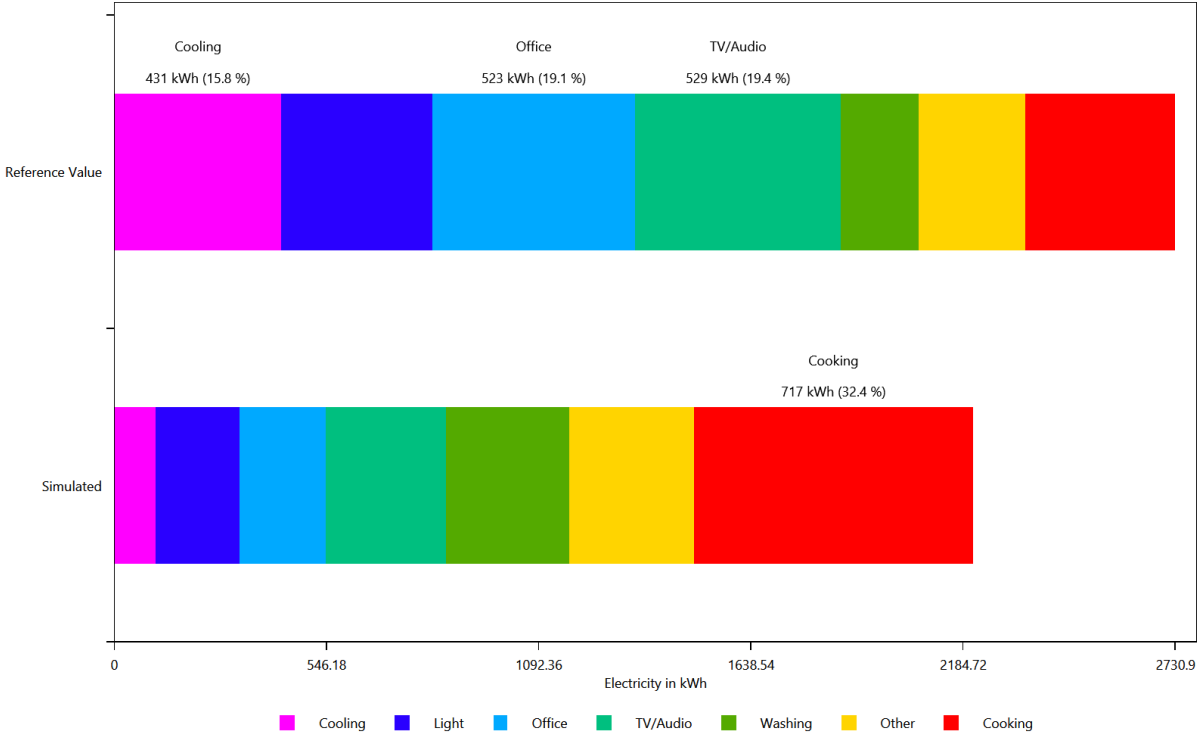
HH0 - Energieagentur - Cold Water



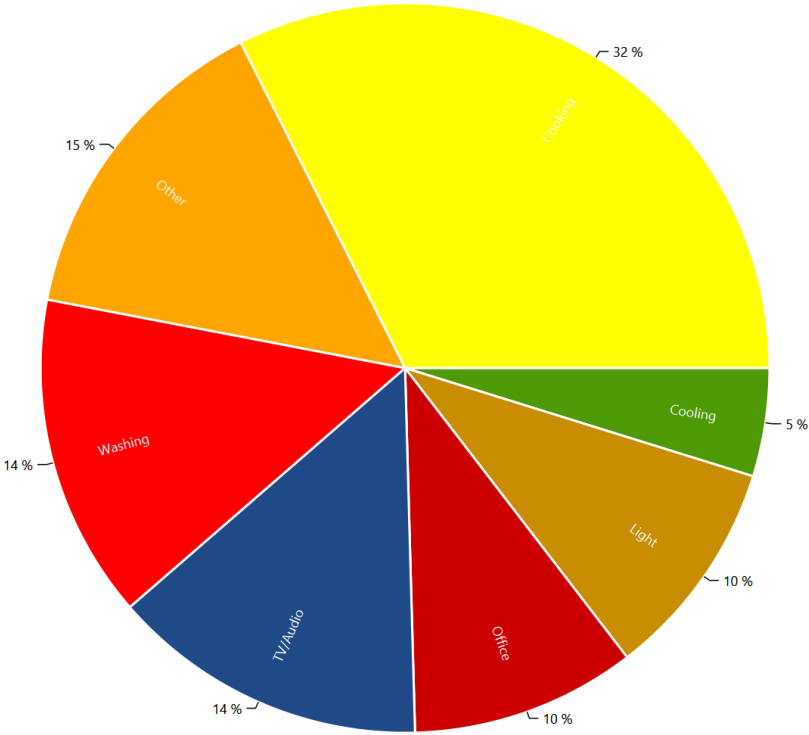
HH0 - Destatis Water Usage Statistics - Electricity



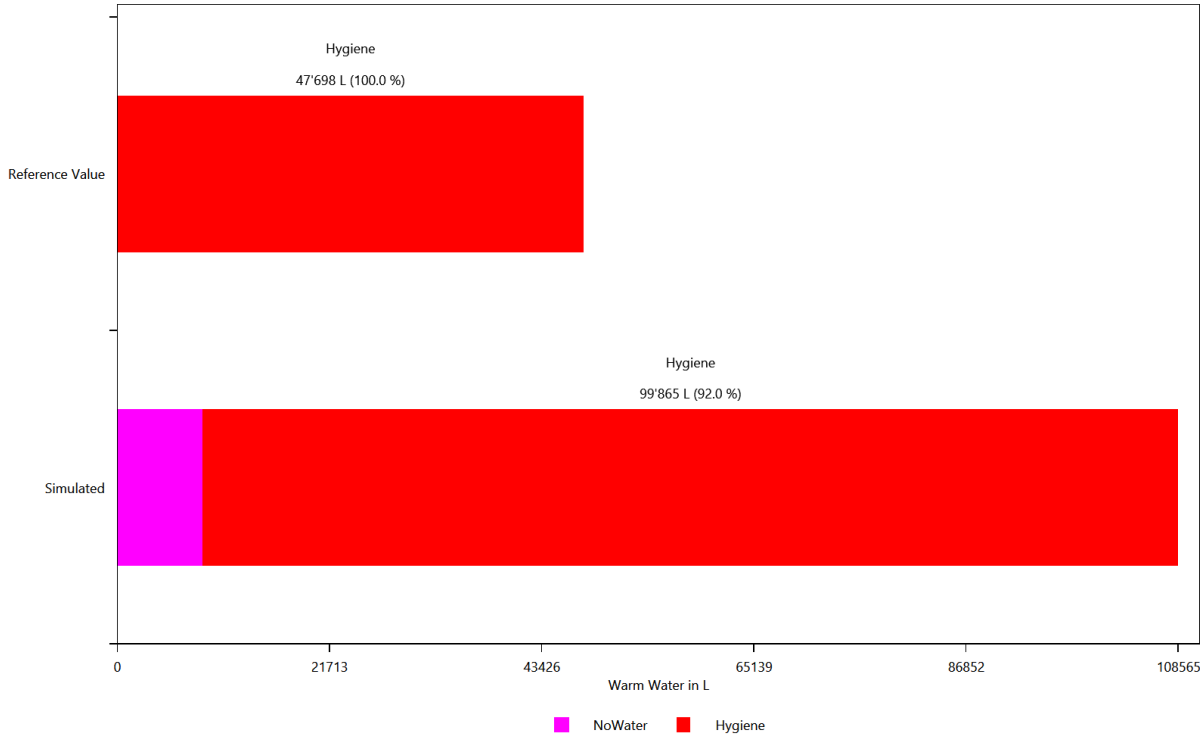
HH0 - Energieagentur - Electricity



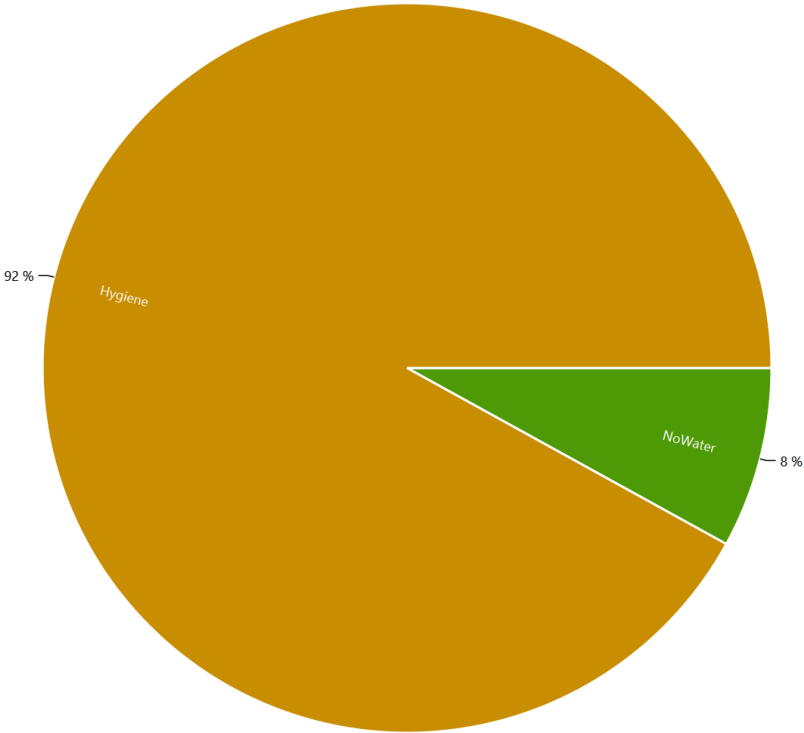
HH0 - Energieagentur - Electricity



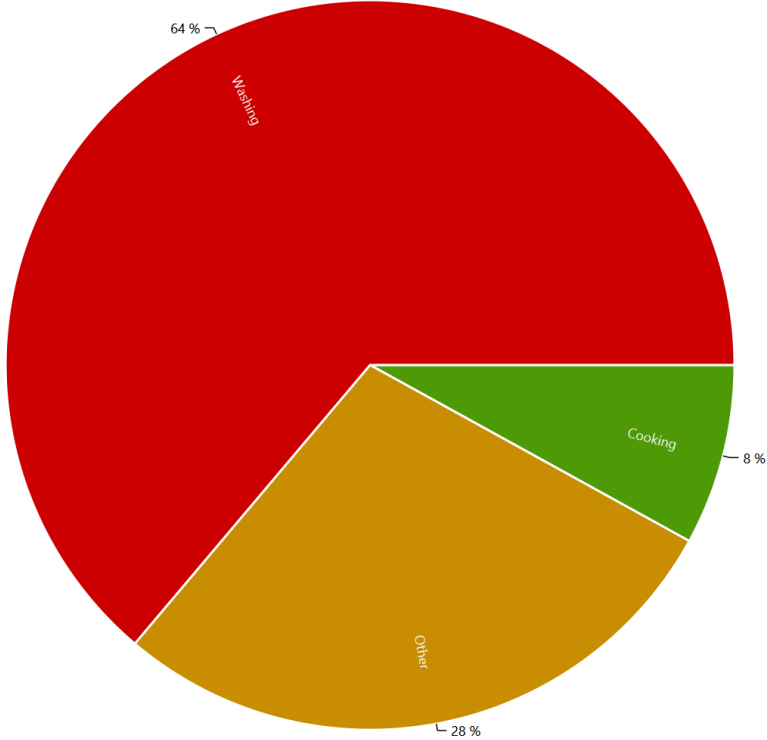
HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

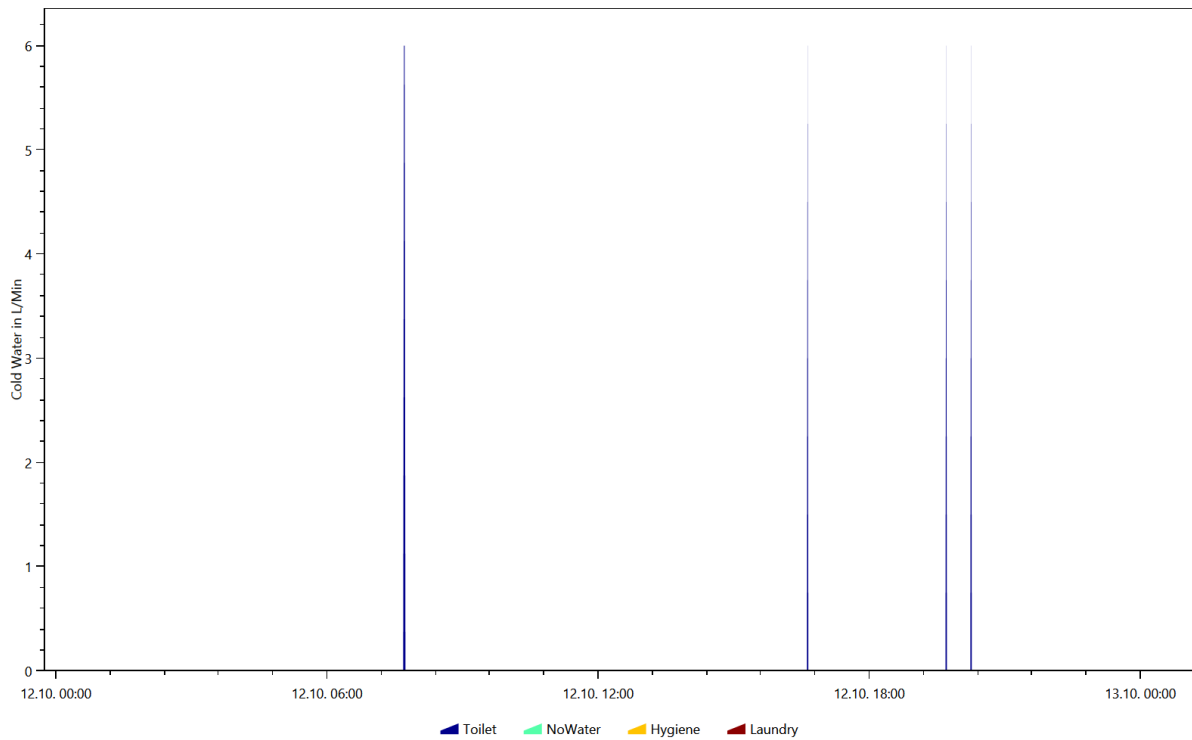


Example of the device profiles for each load type

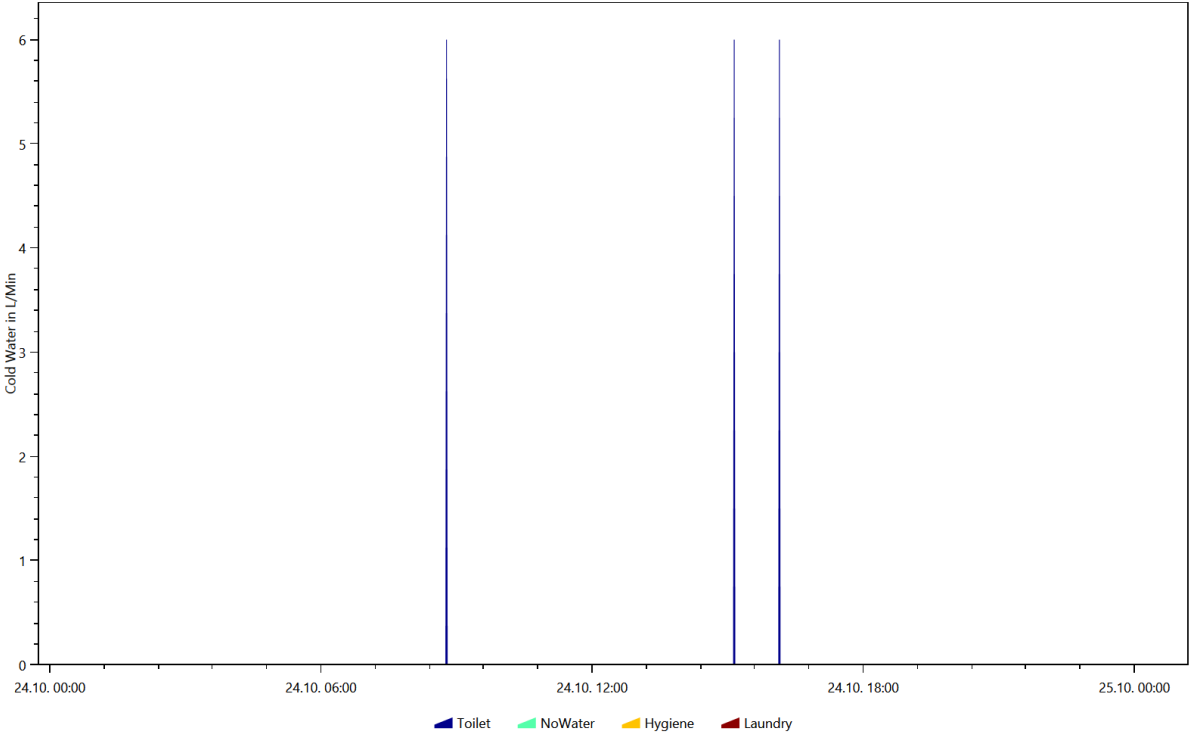
This is made from the files starting with: DeviceProfiles

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

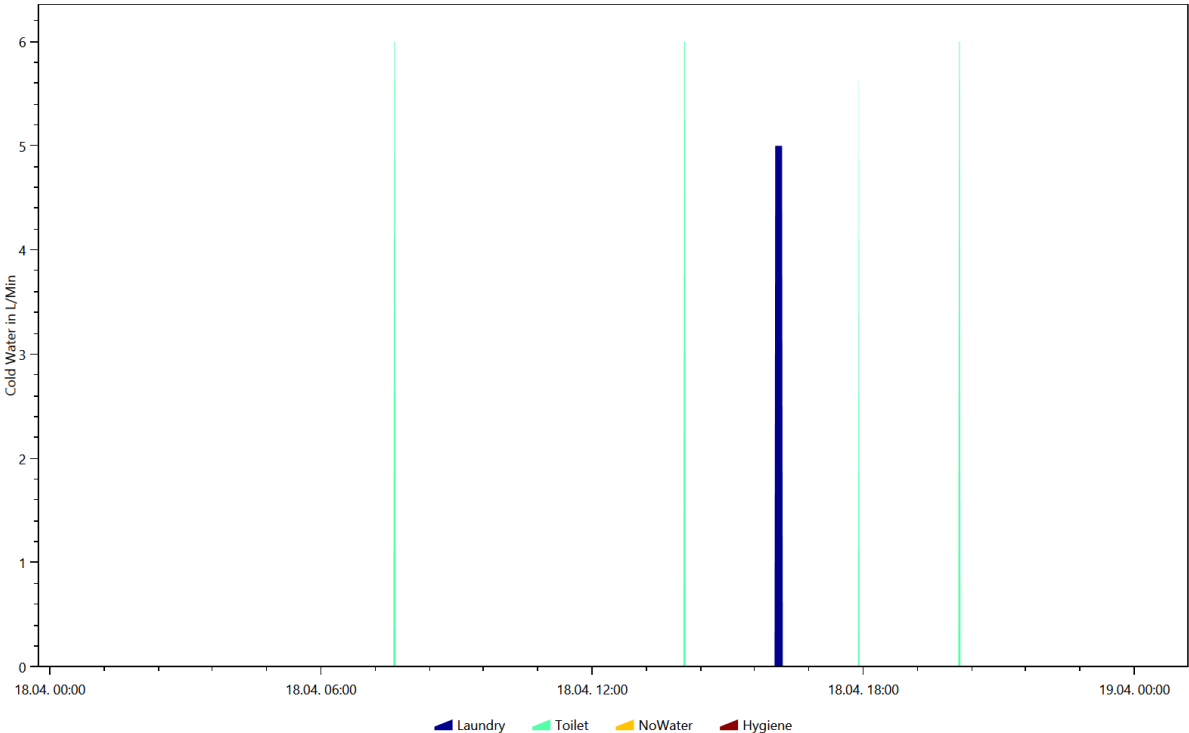
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.12



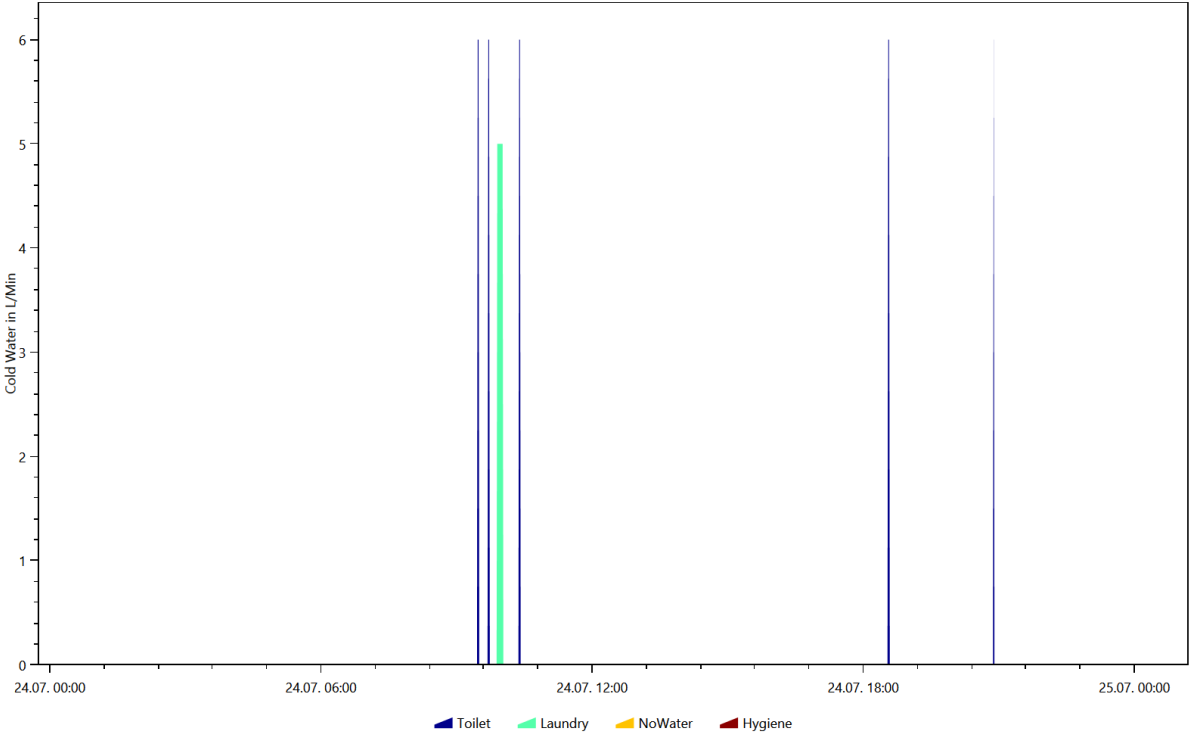
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.24



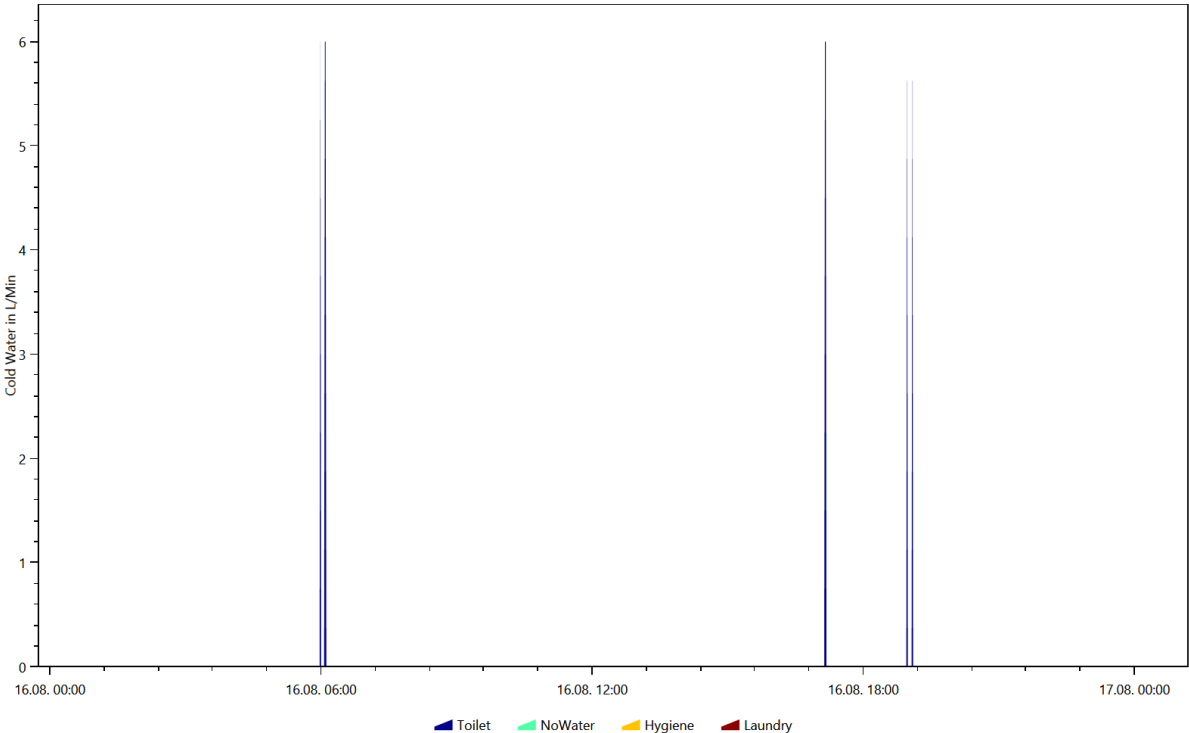
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.18



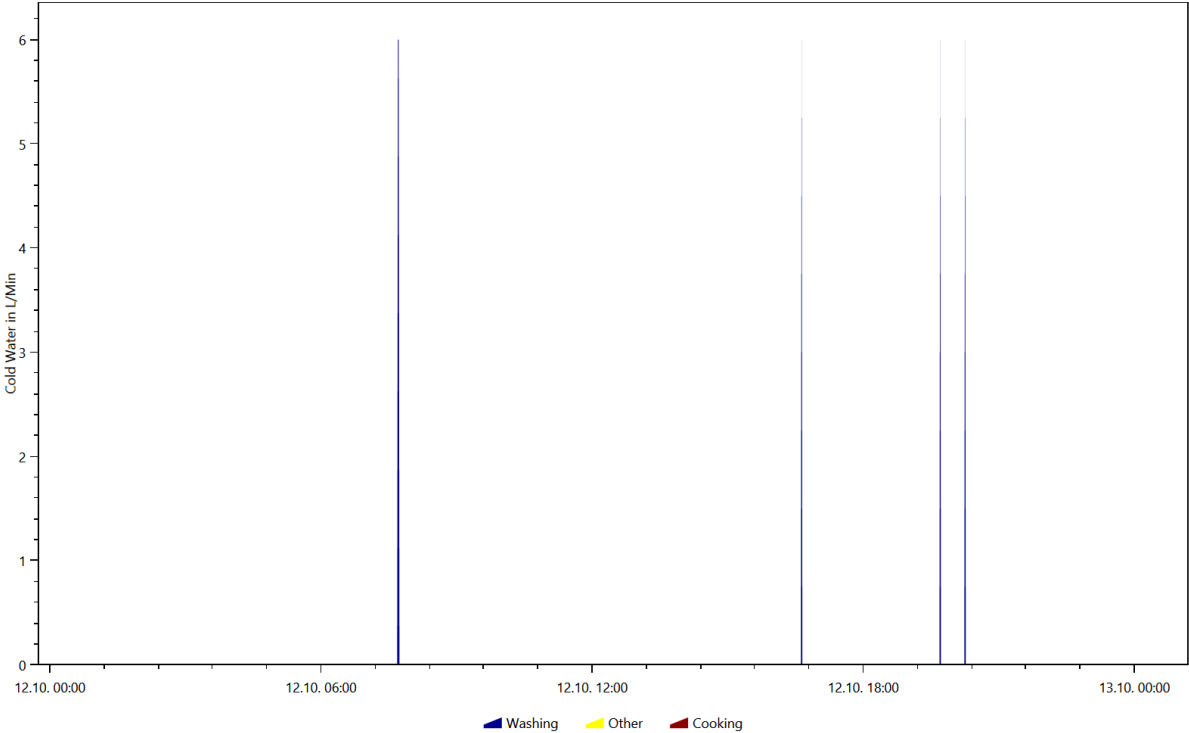
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.24



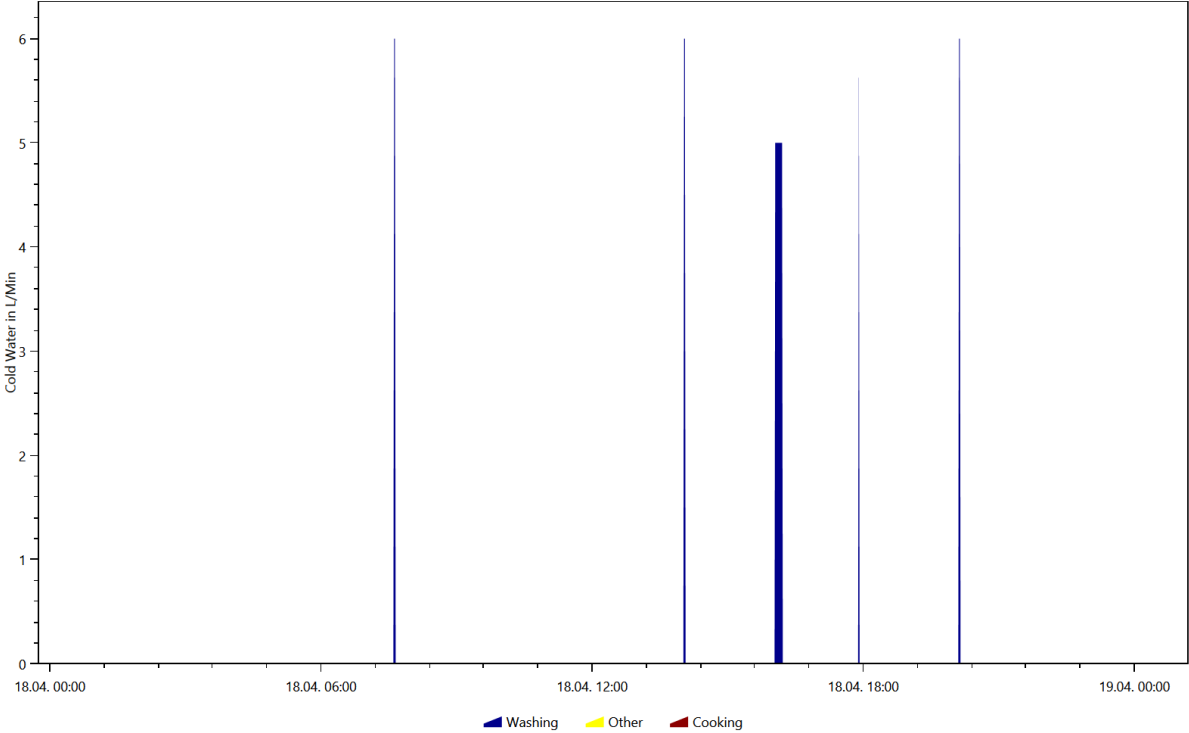
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.16



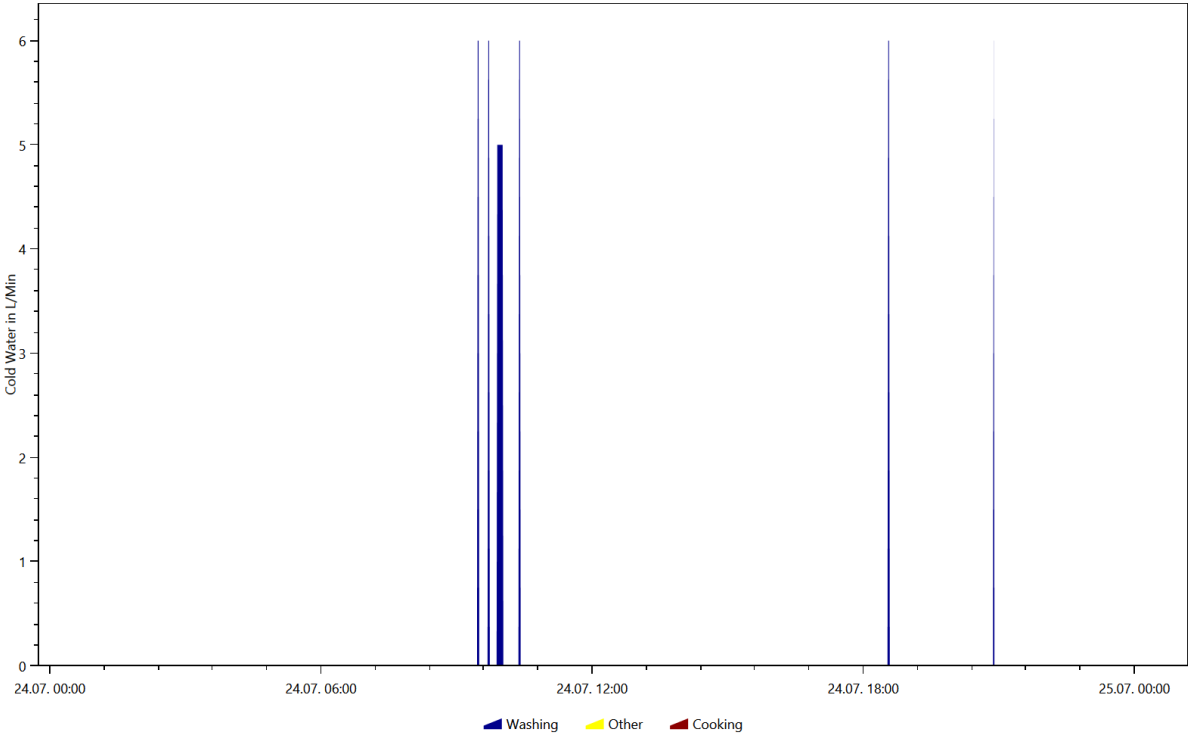
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.12



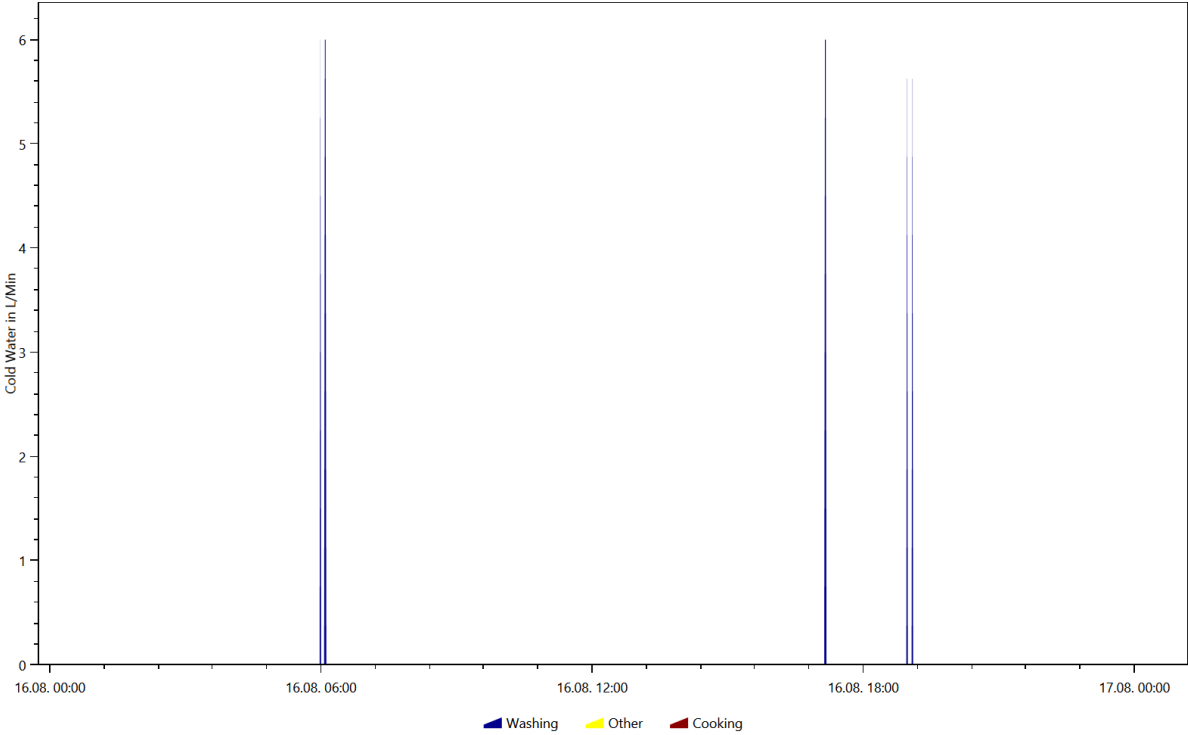
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.18



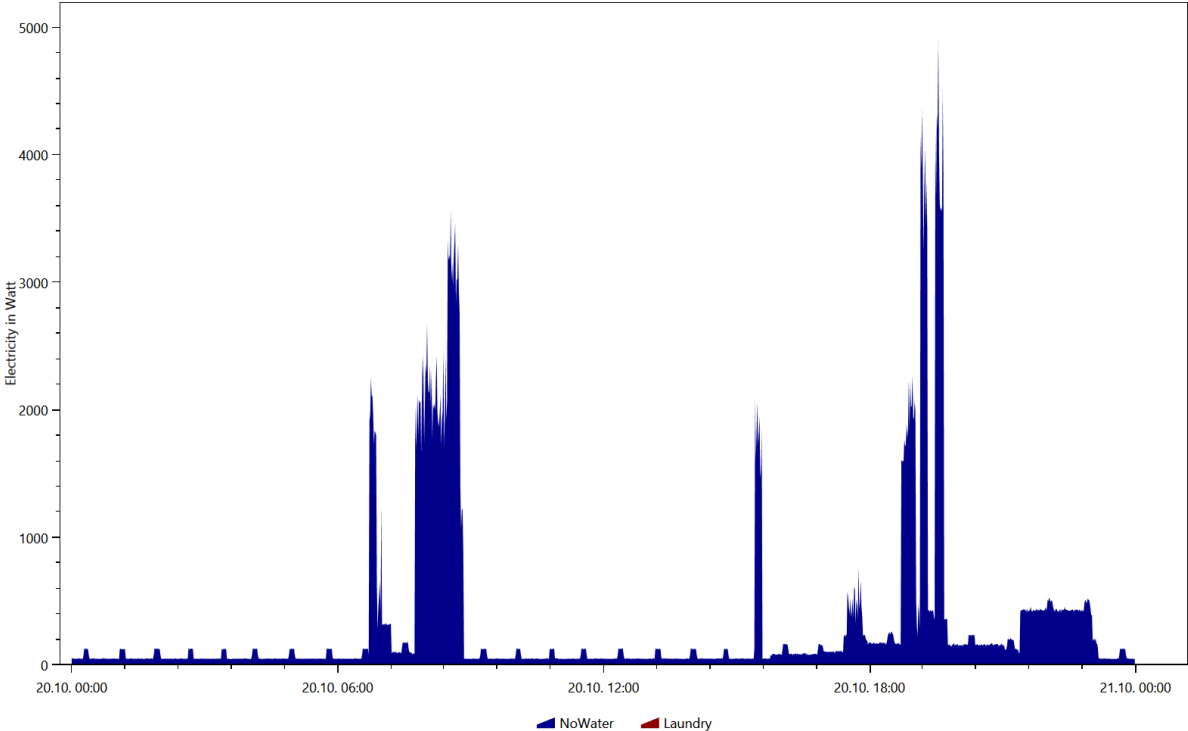
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.7.24



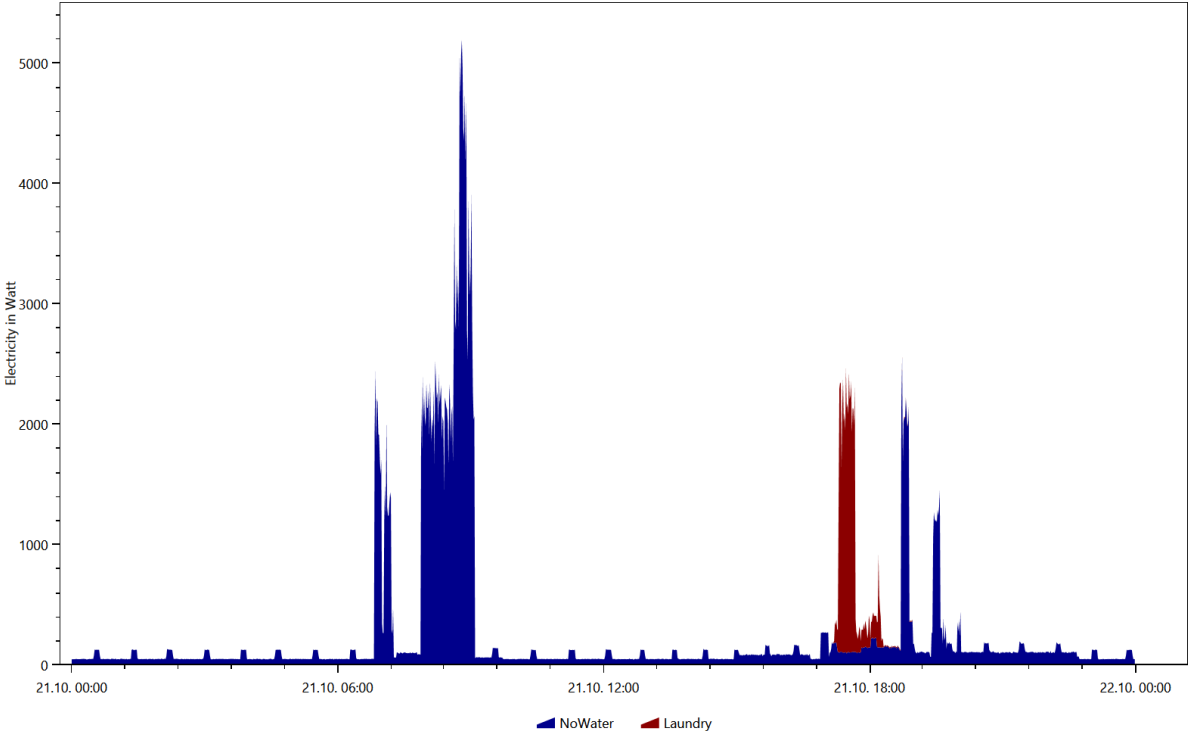
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.16



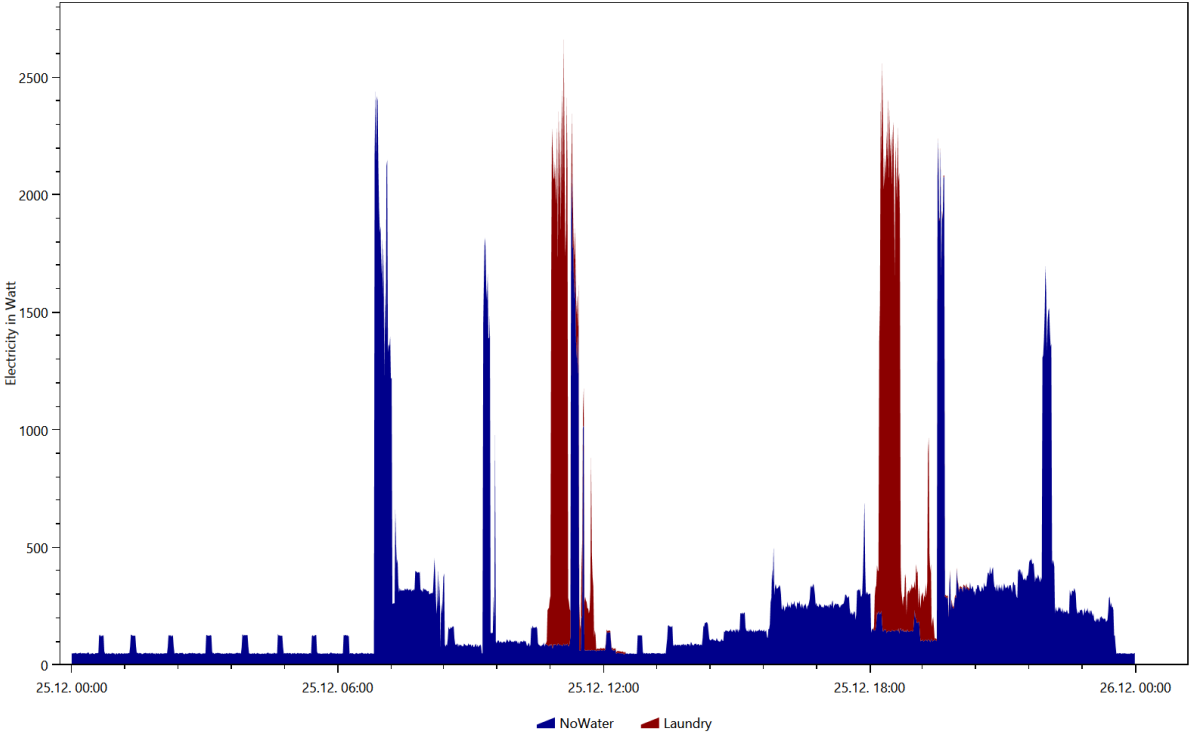
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.20



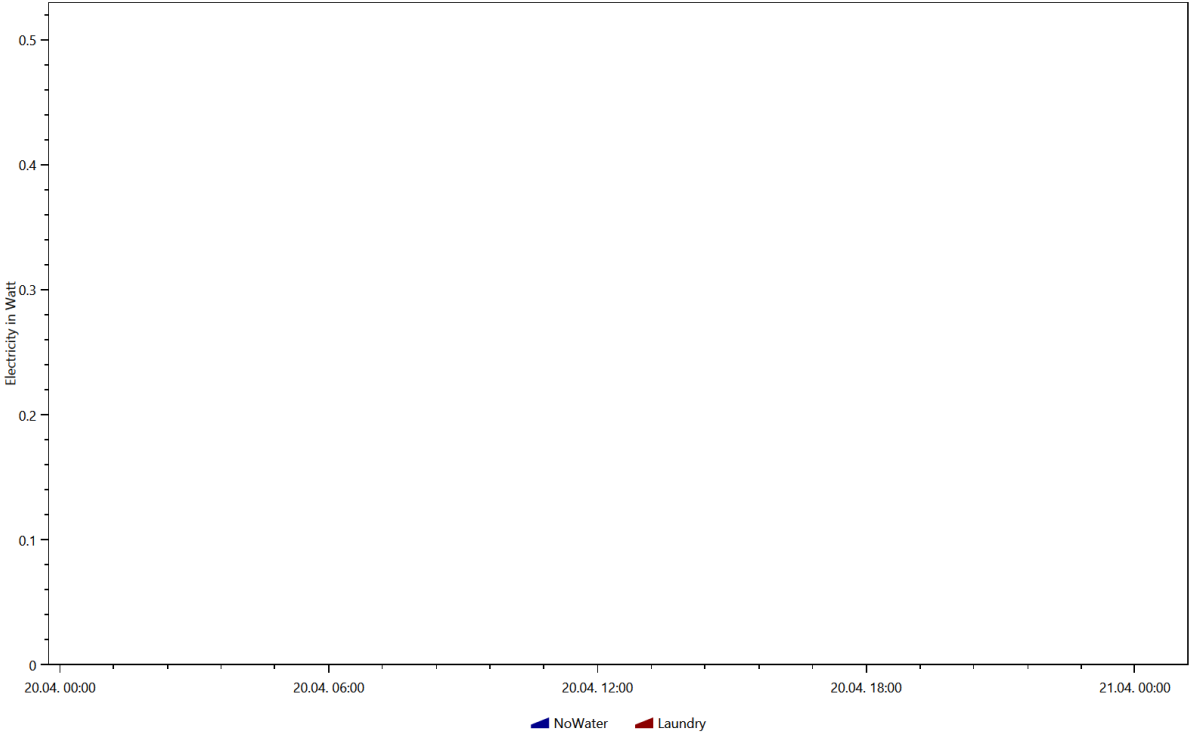
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.21



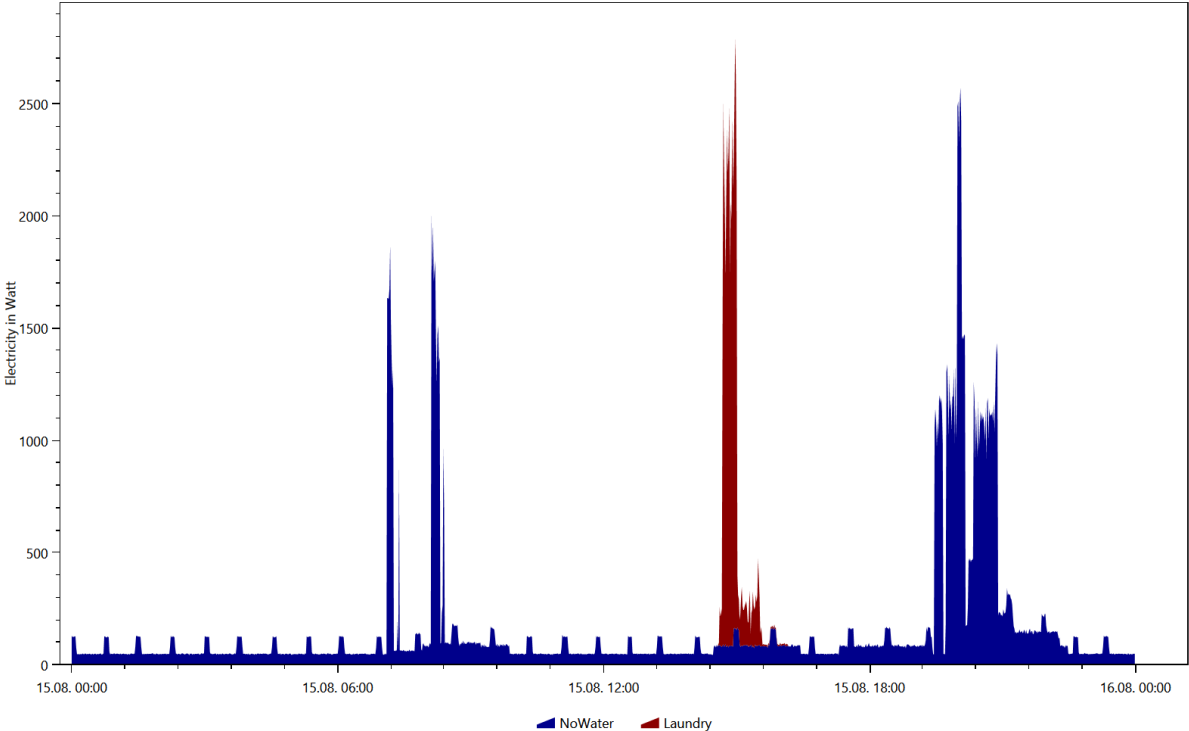
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.25



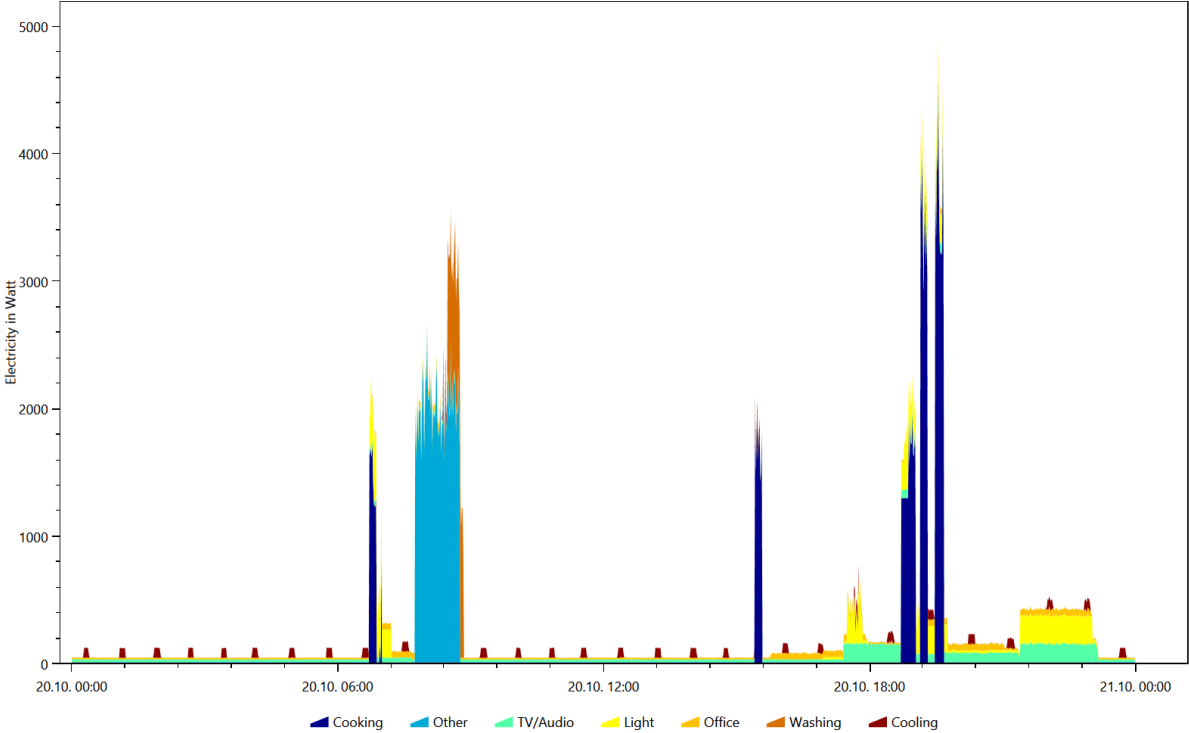
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.20



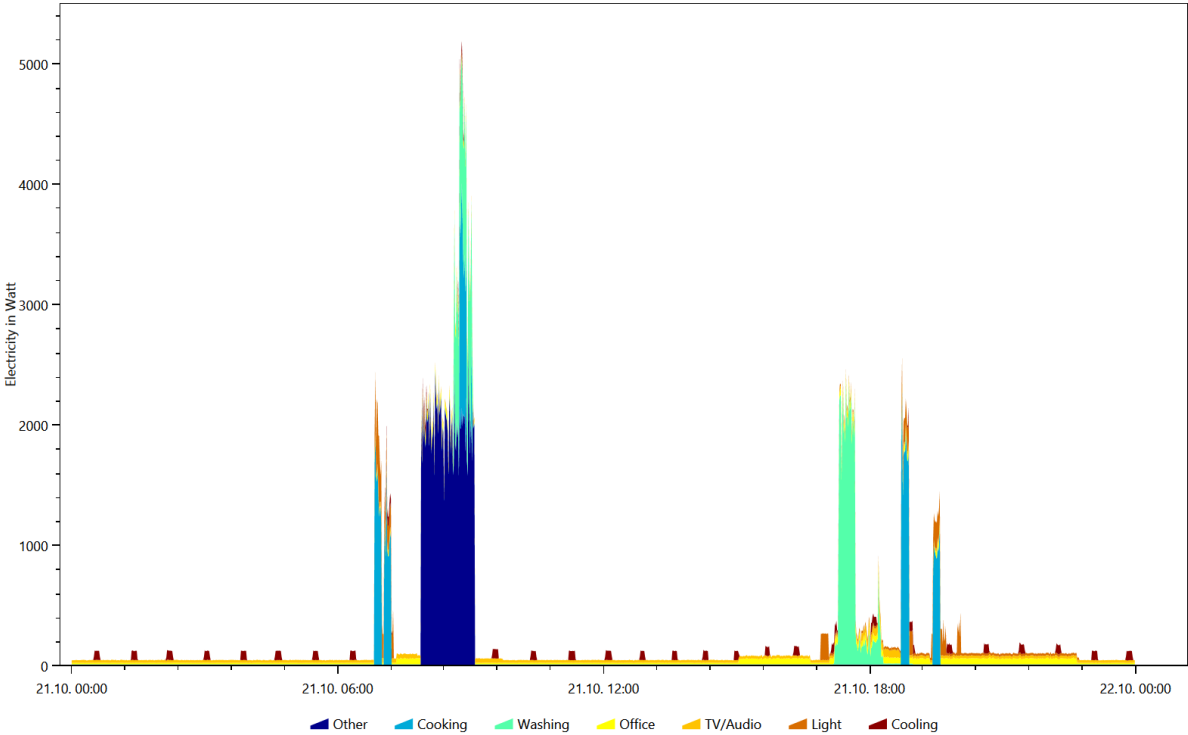
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.15



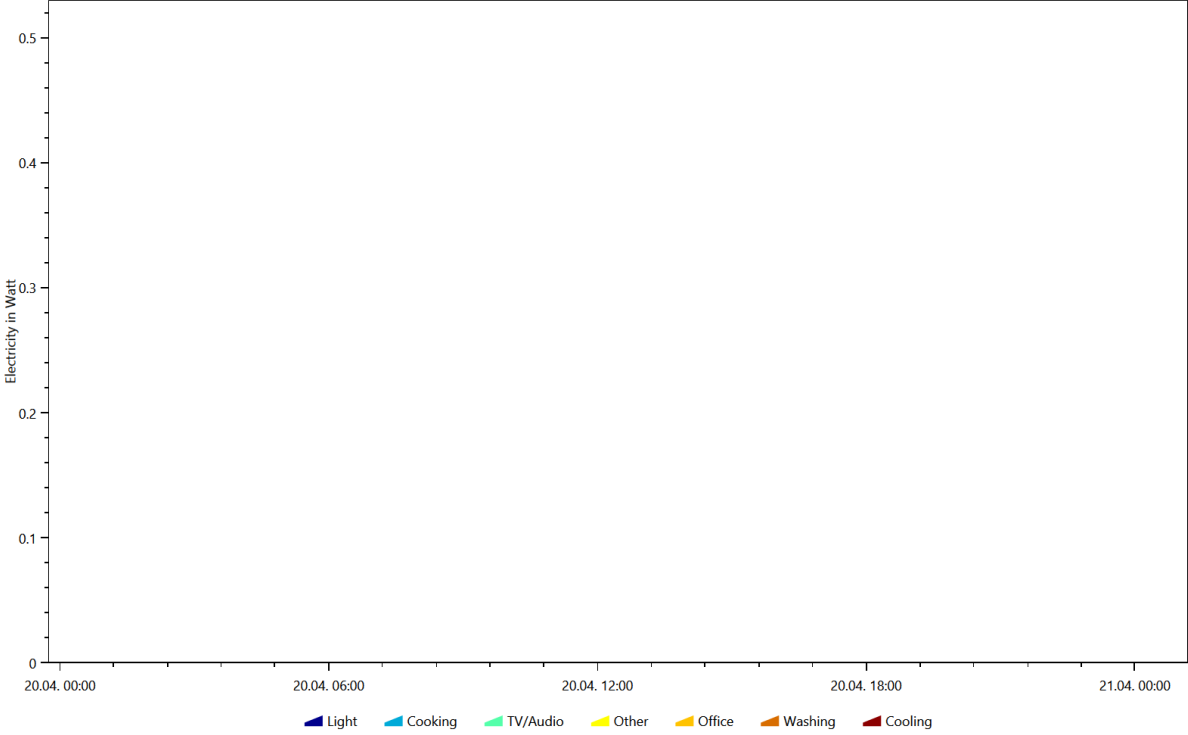
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.20



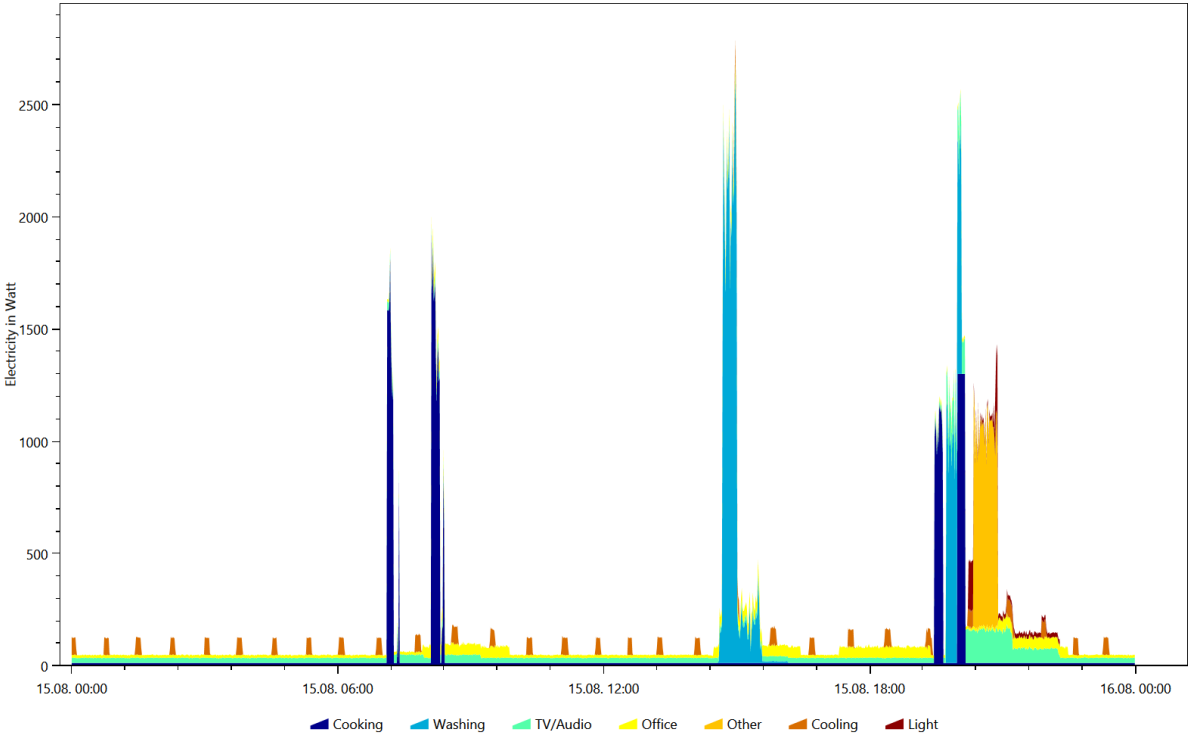
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.21



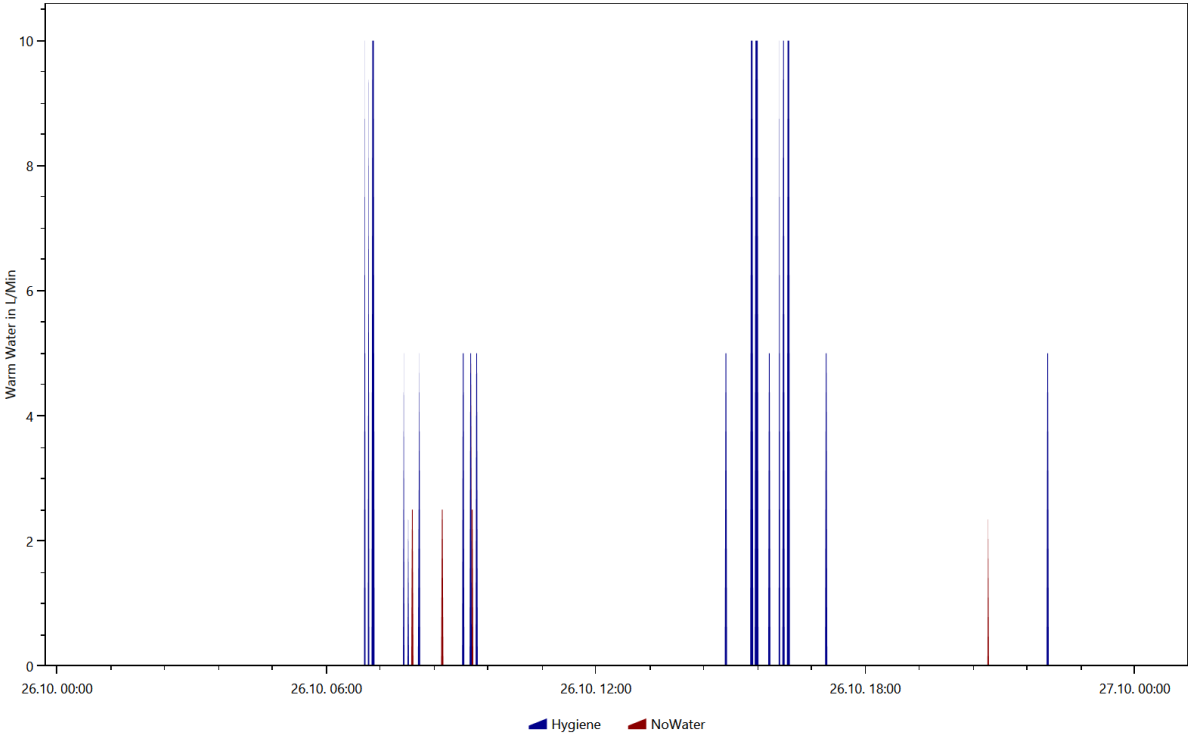
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.20



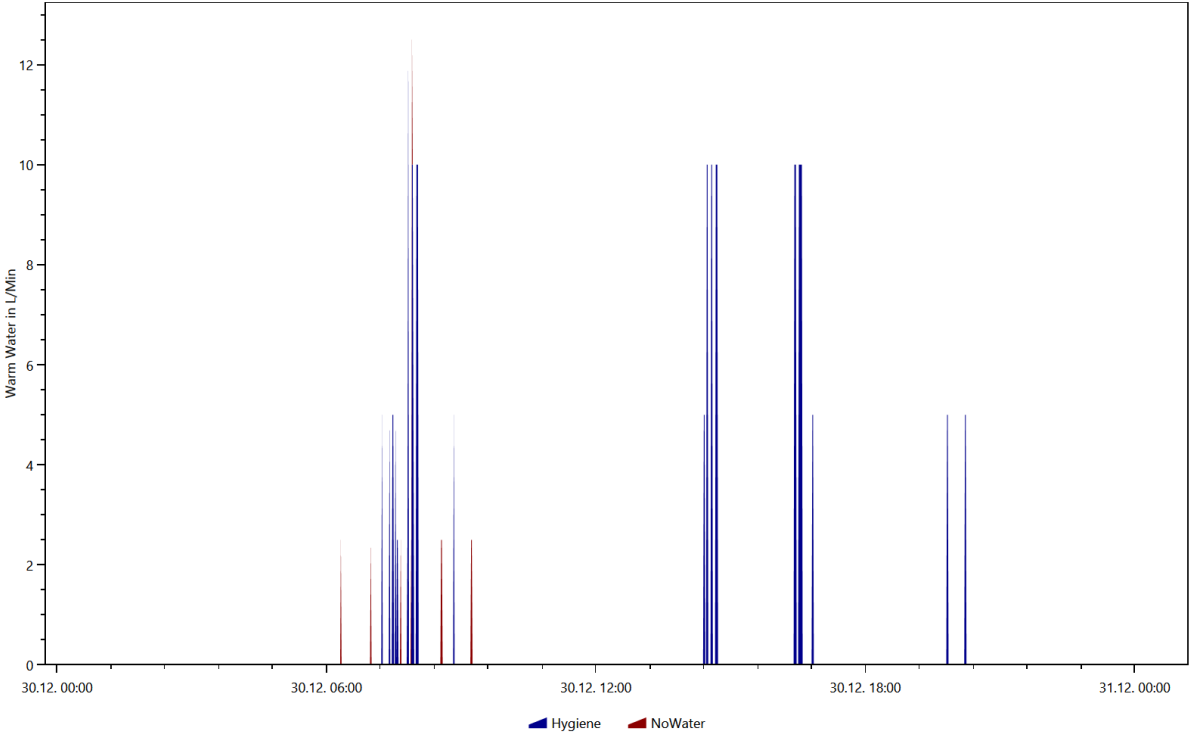
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.15



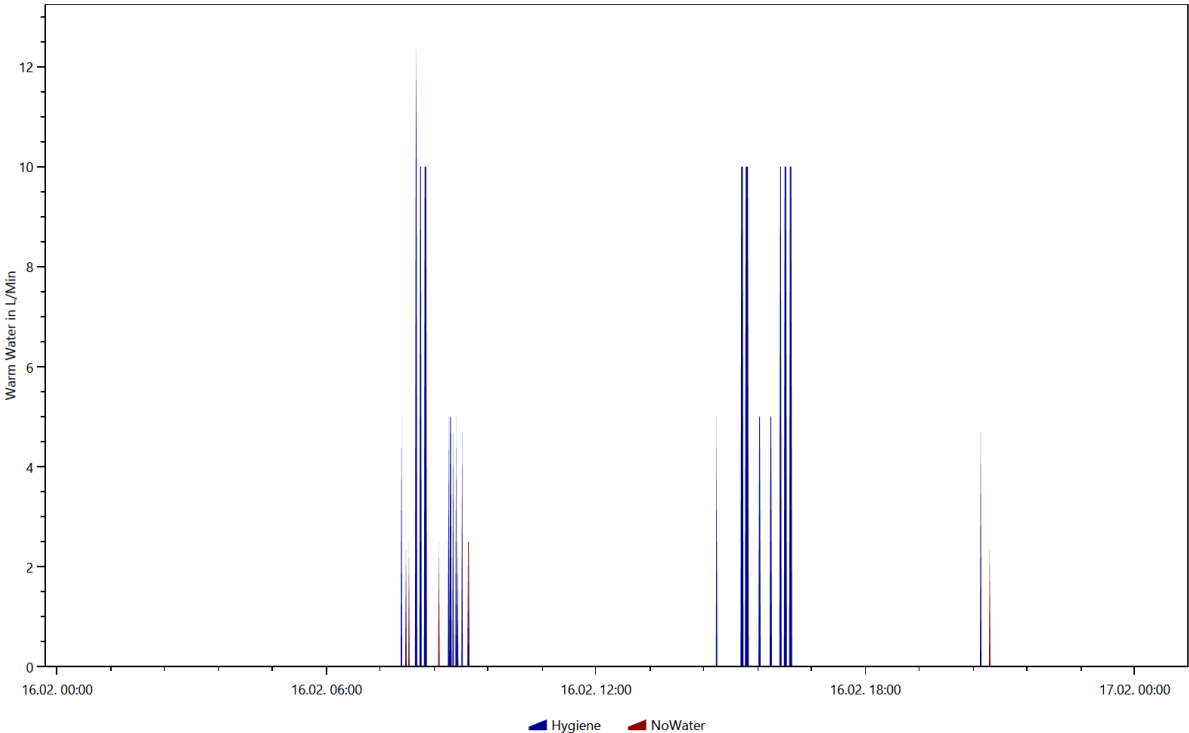
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.26



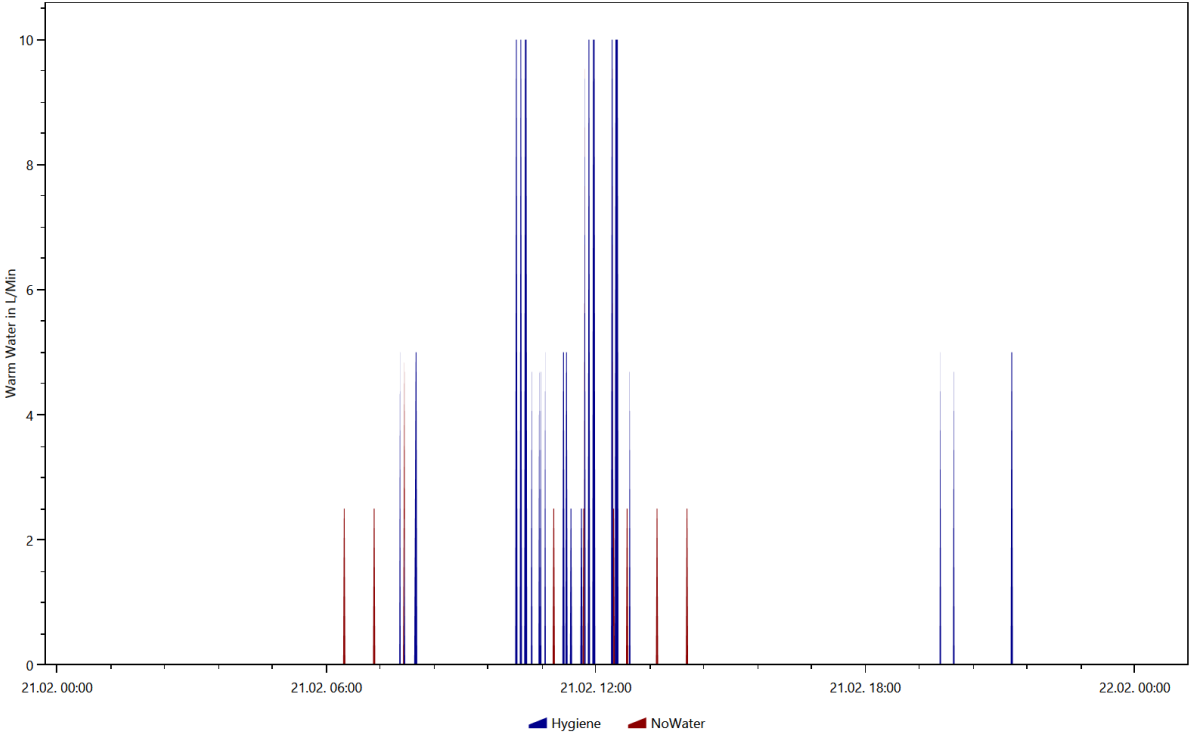
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.30



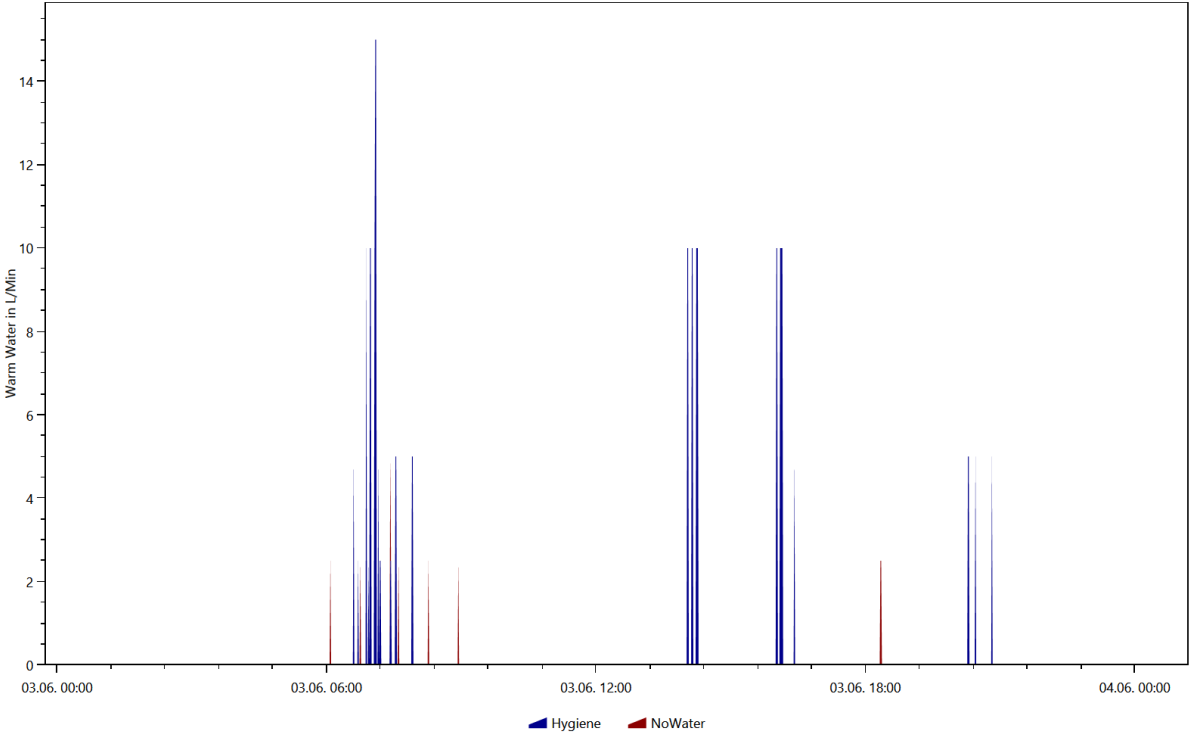
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.16



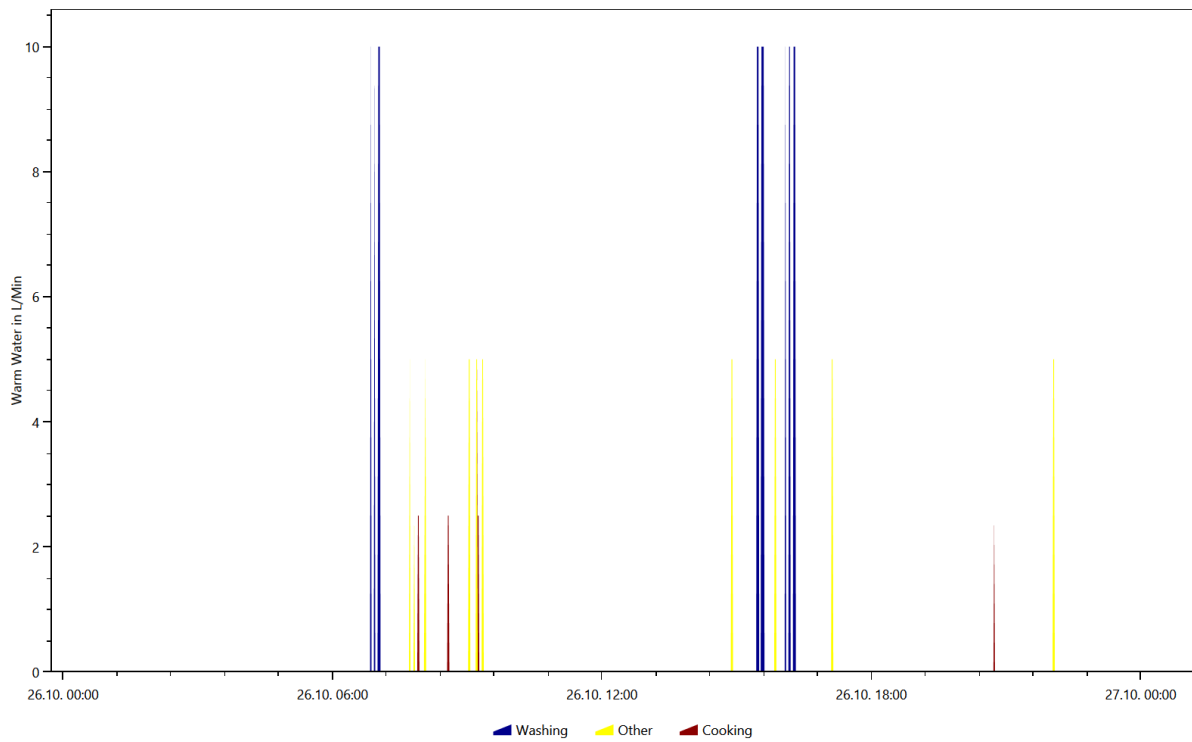
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.21



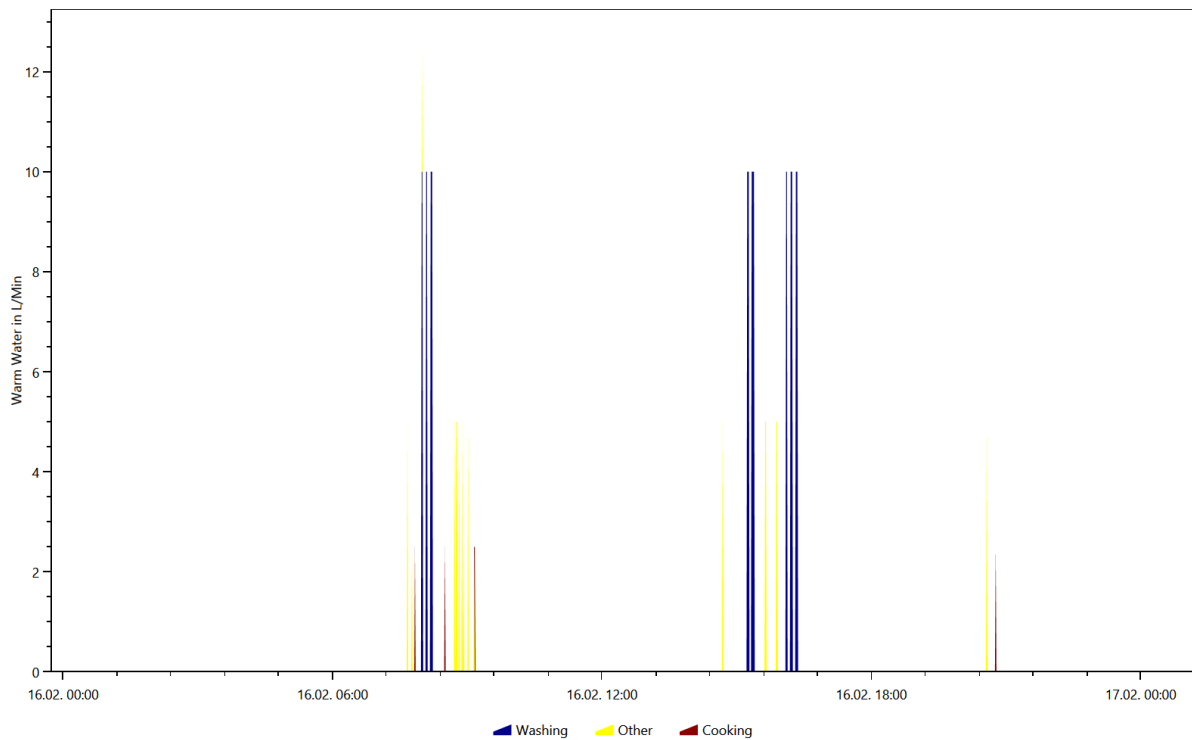
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.3



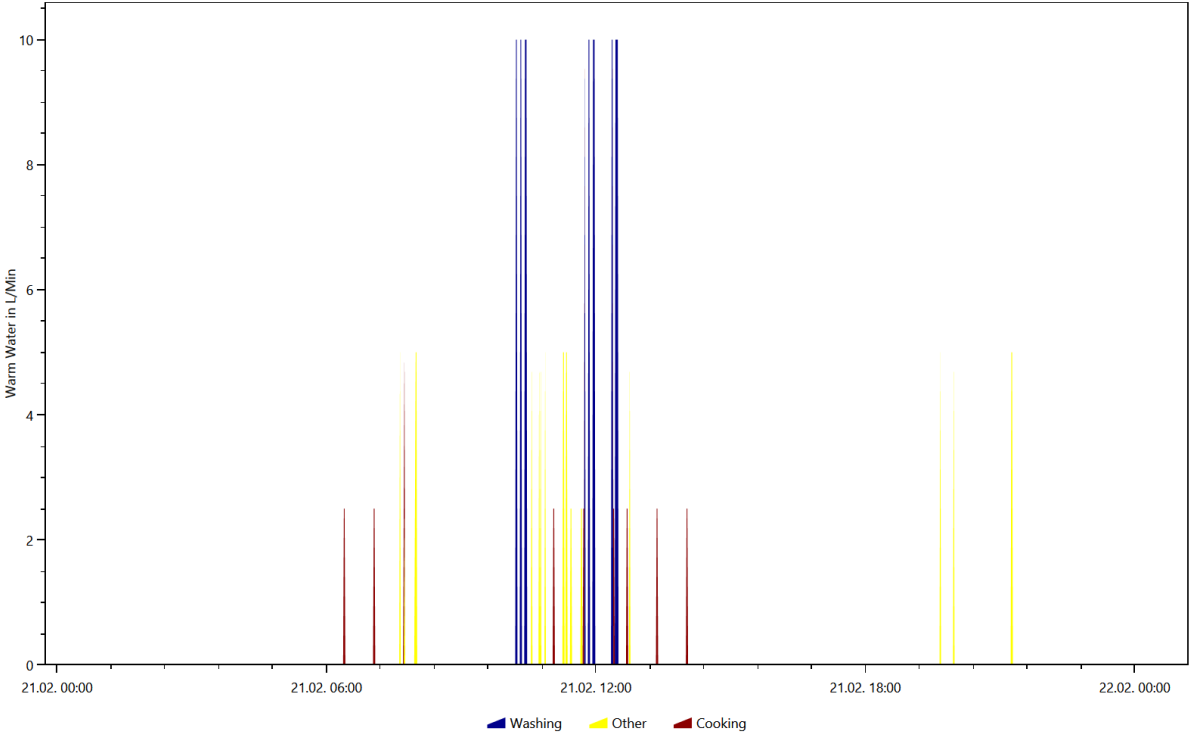
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.10.26



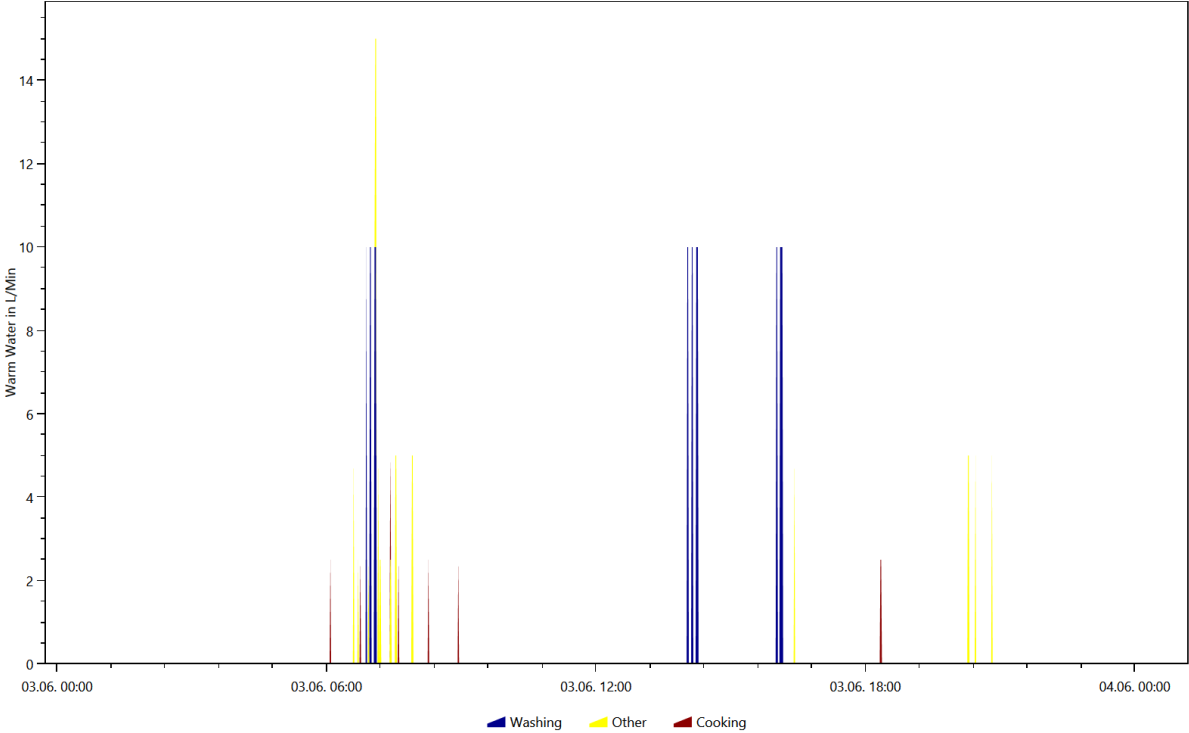
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.16



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.21



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.3

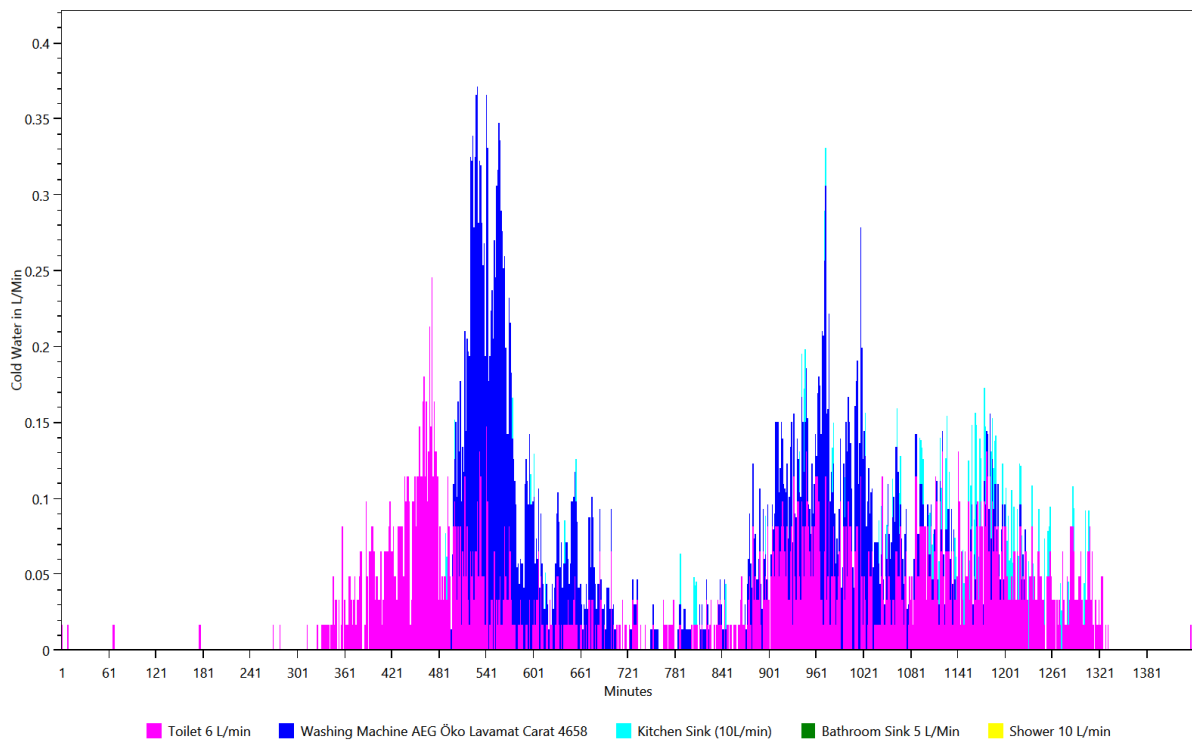


Overview of the time and power of the use per load type per device

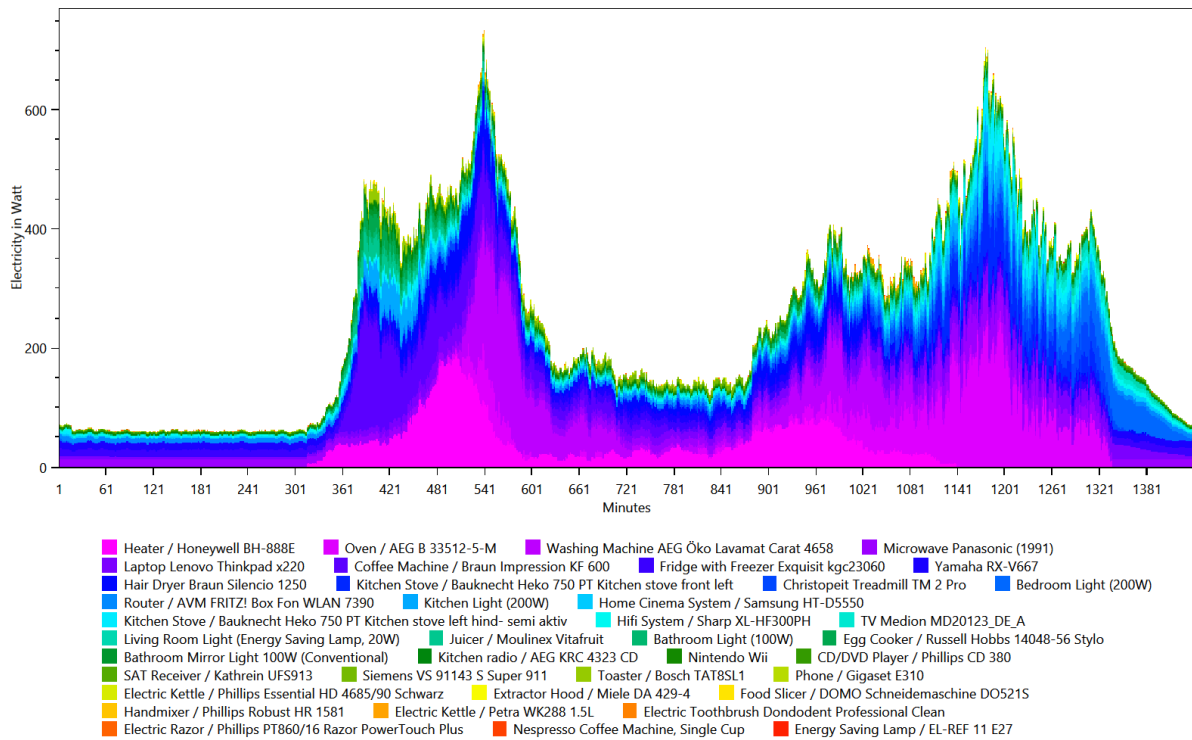
This is made from the files starting with: **TimeOfUseEnergyProfiles**

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

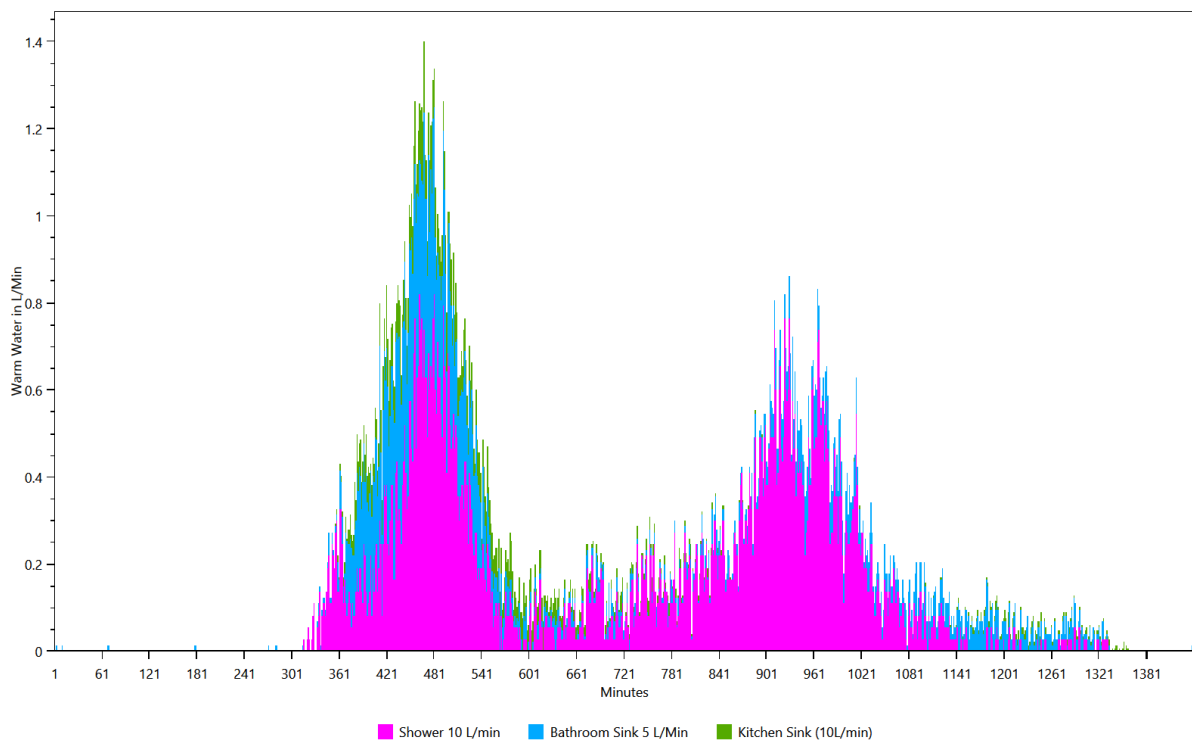
Cold Water



Electricity



Warm Water

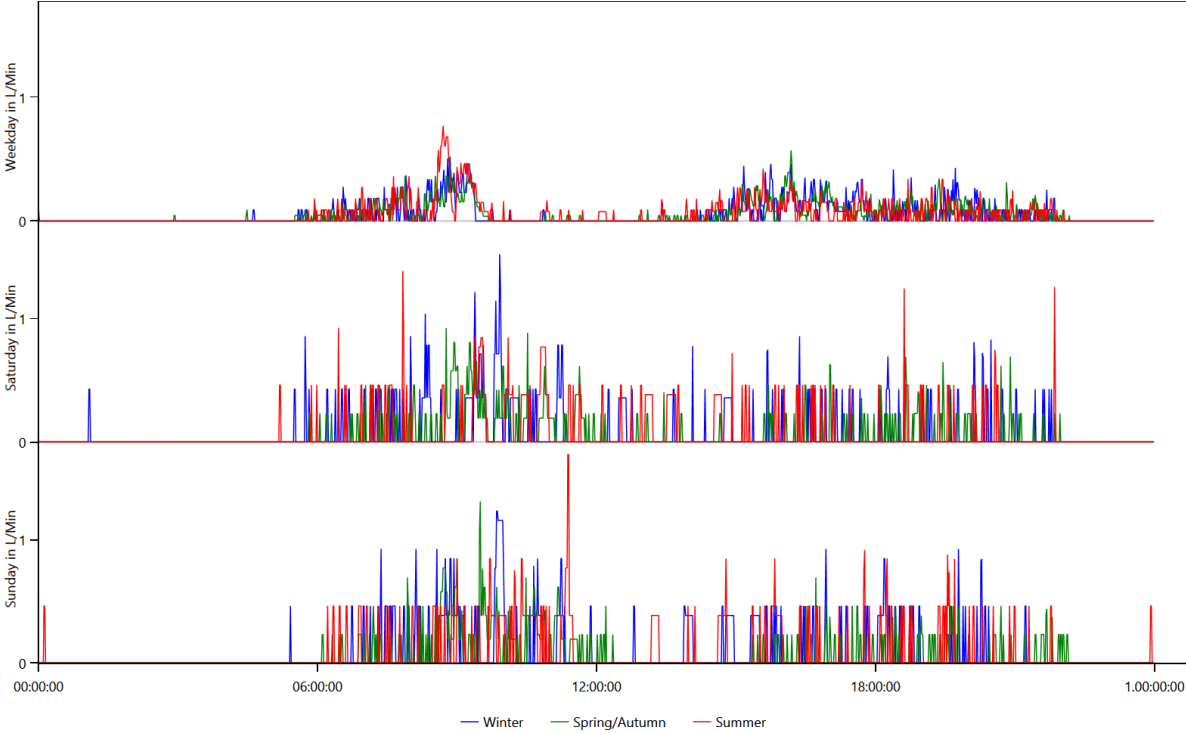


Energy use per load type during different seasons, split by weekday/saturday/sunday

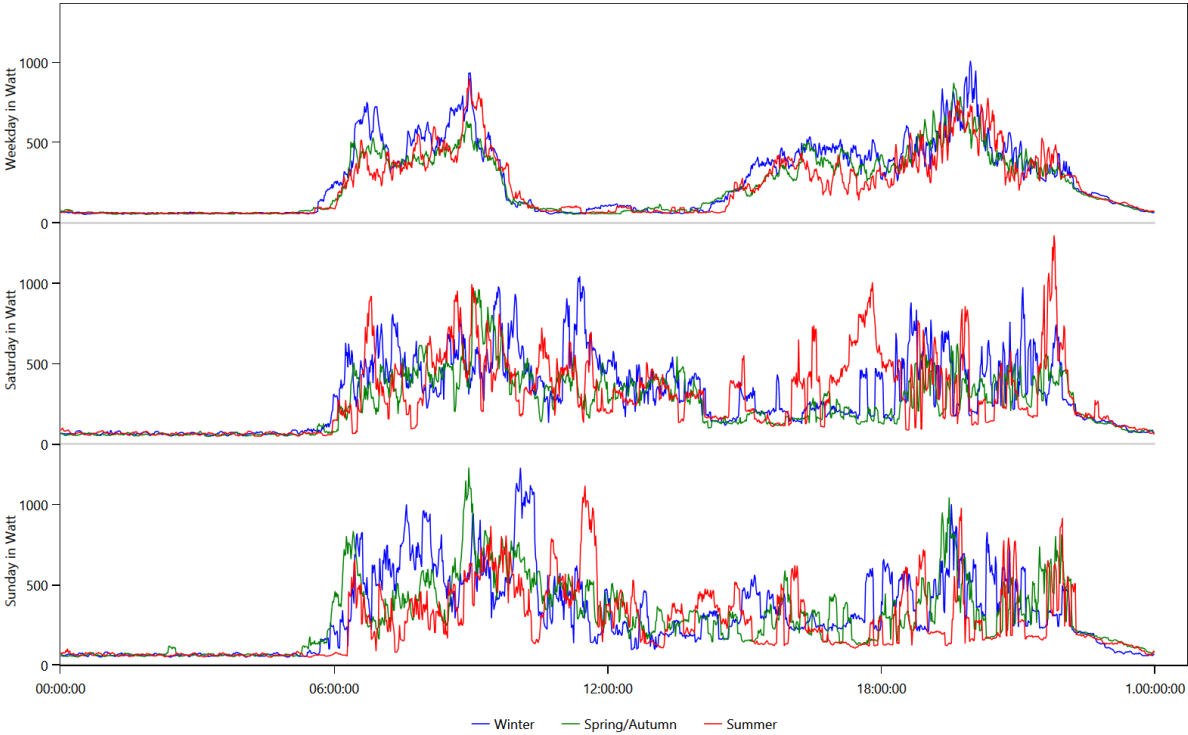
This is made from the files starting with: WeekdayProfiles

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

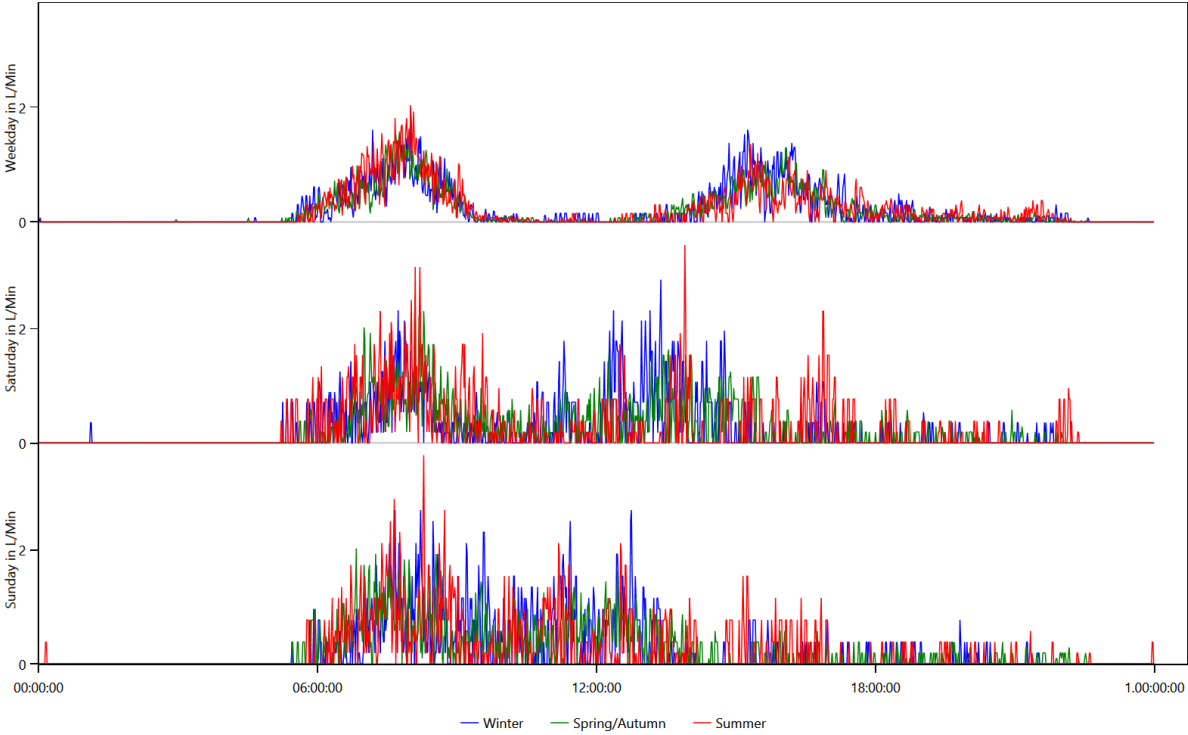
Cold Water



Electricity



Warm Water

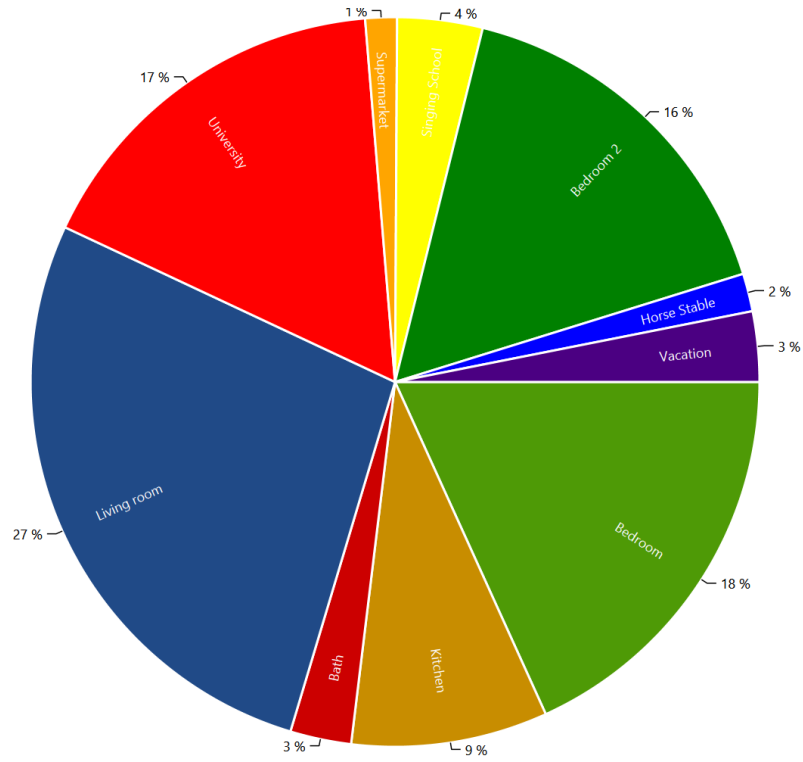


Location Distribution per Person

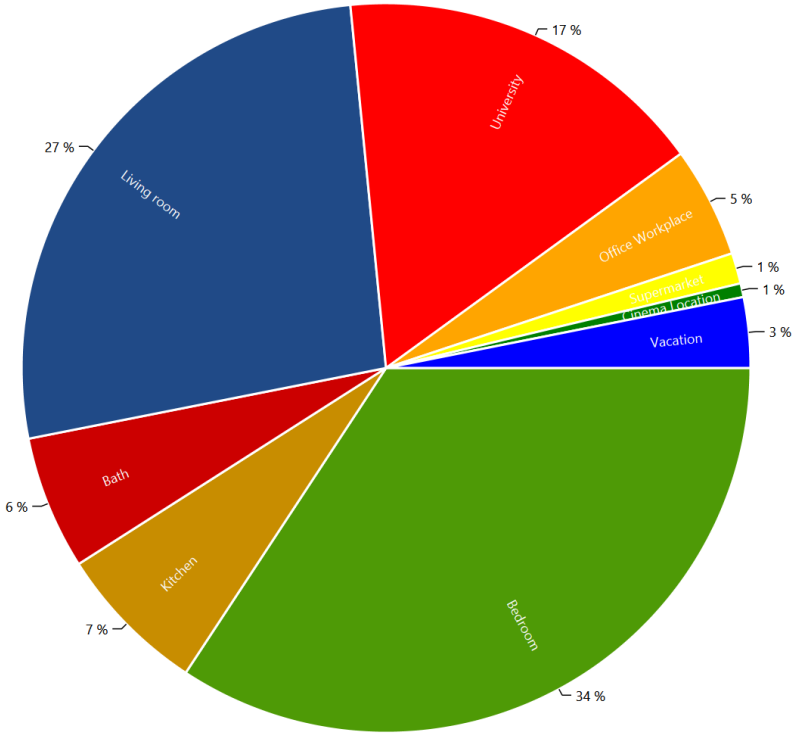
This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

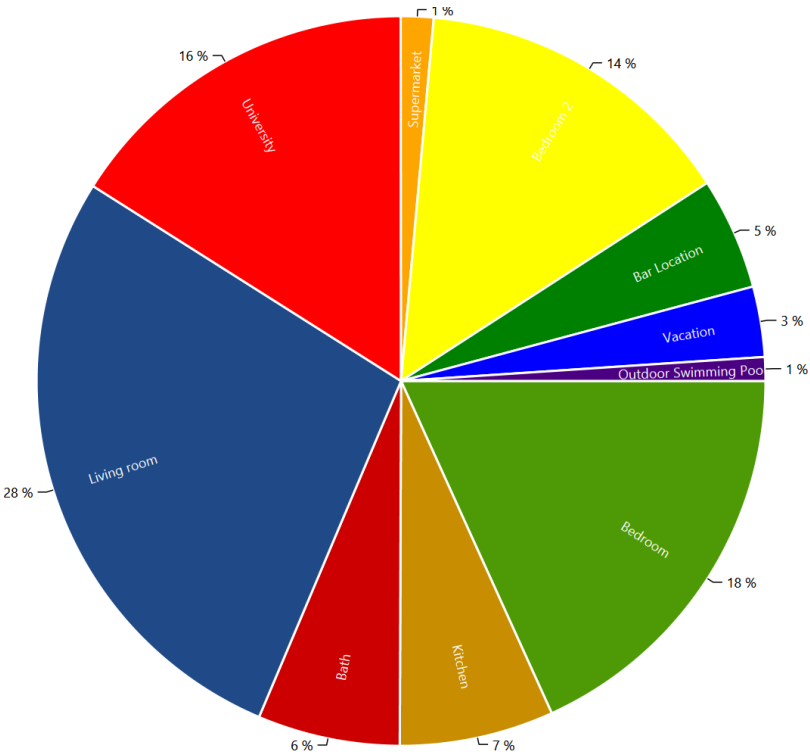
CHR52 Chris (22 Male)



CHR52 Iris (22 Female)



CHR52 Maddy (23 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

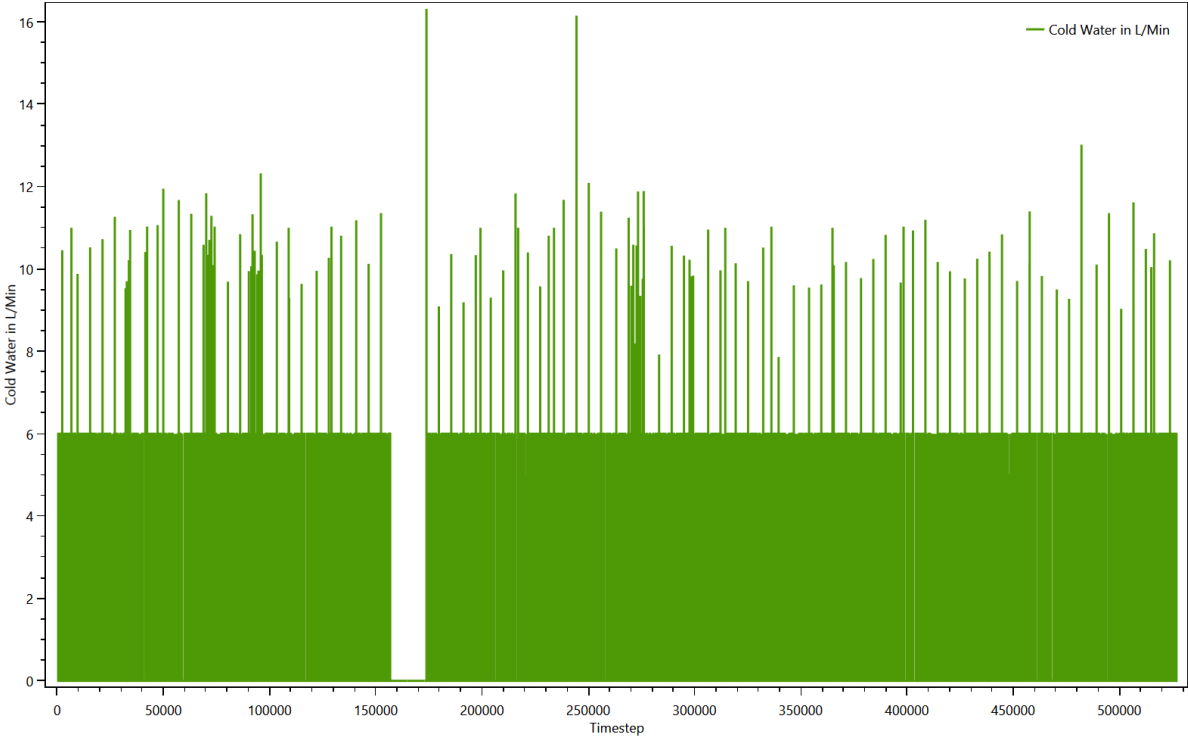
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR52 Chris (22/Male);sleep bed 08 (08 h);sleep;False;
0;01.01.2016 00:00;CHR52 Iris (22/Female);sleep bed 02 (08 h);sleep;False;
0;01.01.2016 00:00;CHR52 Maddy (23/Female);sleep bed 08 (08 h);sleep;False;
412;01.01.2016 06:52;CHR52 Iris (22/Female);eat breakfast (1 h);cooking;False;
423;01.01.2016 07:03;CHR52 Chris (22/Male);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;False;
423;01.01.2016 07:03;CHR52 Maddy (23/Female);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;False;
467;01.01.2016 07:47;CHR52 Chris (22/Male);sleep bed 08 (08 h);sleep;False;
467;01.01.2016 07:47;CHR52 Iris (22/Female);get ready in the morning (women);hygiene;False;
467;01.01.2016 07:47;CHR52 Maddy (23/Female);go to the toilet;hygiene;False;
473;01.01.2016 07:53;CHR52 Maddy (23/Female);watch a movie for 2 h with home cinema system;Passive
Entertainment (TV etc.);False;
480;01.01.2016 08:00;CHR52 Chris (22/Male);get ready in the morning (men);hygiene;False;
485;01.01.2016 08:05;CHR52 Iris (22/Female);use the laptop (1 h);Active Entertainment (Computer, Internet
etc.);False;
492;01.01.2016 08:12;CHR52 Chris (22/Male);watch TV with someone (watch a movie for 2 h with home
cinema system);Passive Entertainment (TV etc.);False;
560;01.01.2016 09:20;CHR52 Iris (22/Female);study sports;school;False;
591;01.01.2016 09:51;CHR52 Chris (22/Male);study philosophy;school;False;
591;01.01.2016 09:51;CHR52 Maddy (23/Female);study mechanical engineering;school;False;
942;01.01.2016 15:42;CHR52 Iris (22/Female);go to part time job;work;False;
957;01.01.2016 15:57;CHR52 Maddy (23/Female);take a shower with hair washing (women) (5 min hair
drying);hygiene;False;
958;01.01.2016 15:58;CHR52 Chris (22/Male);go to the toilet;hygiene;False;
```

Sum Profiles

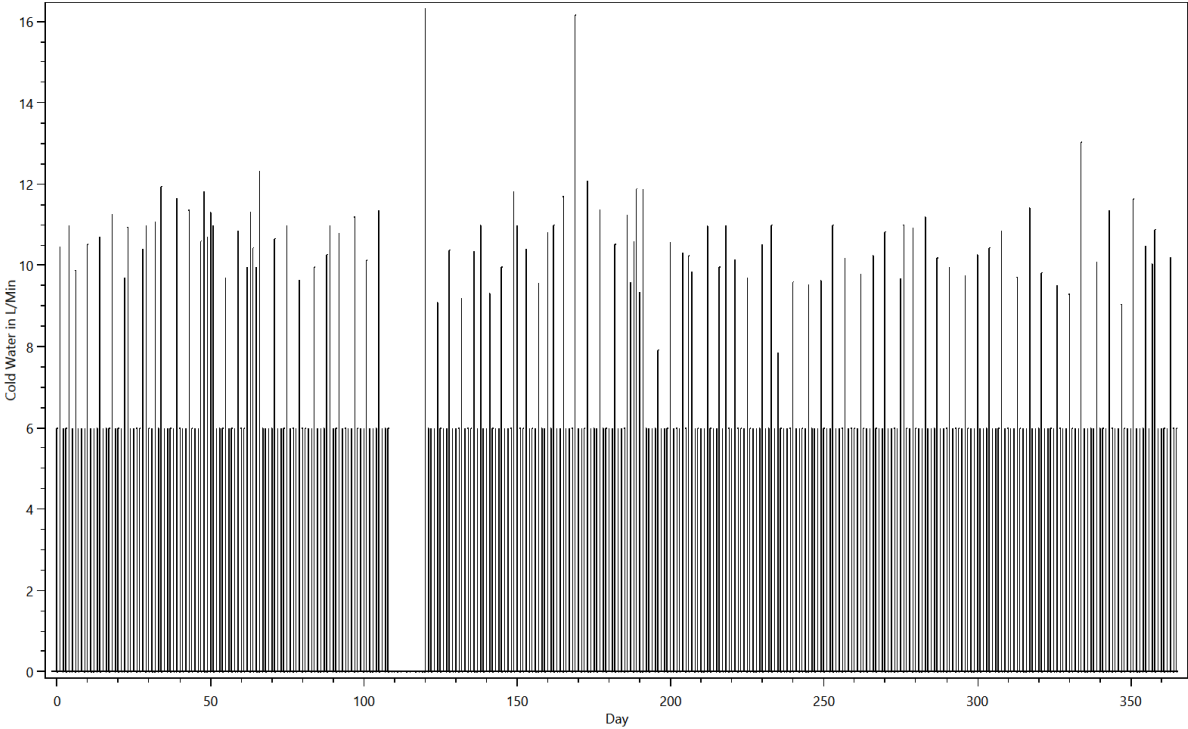
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

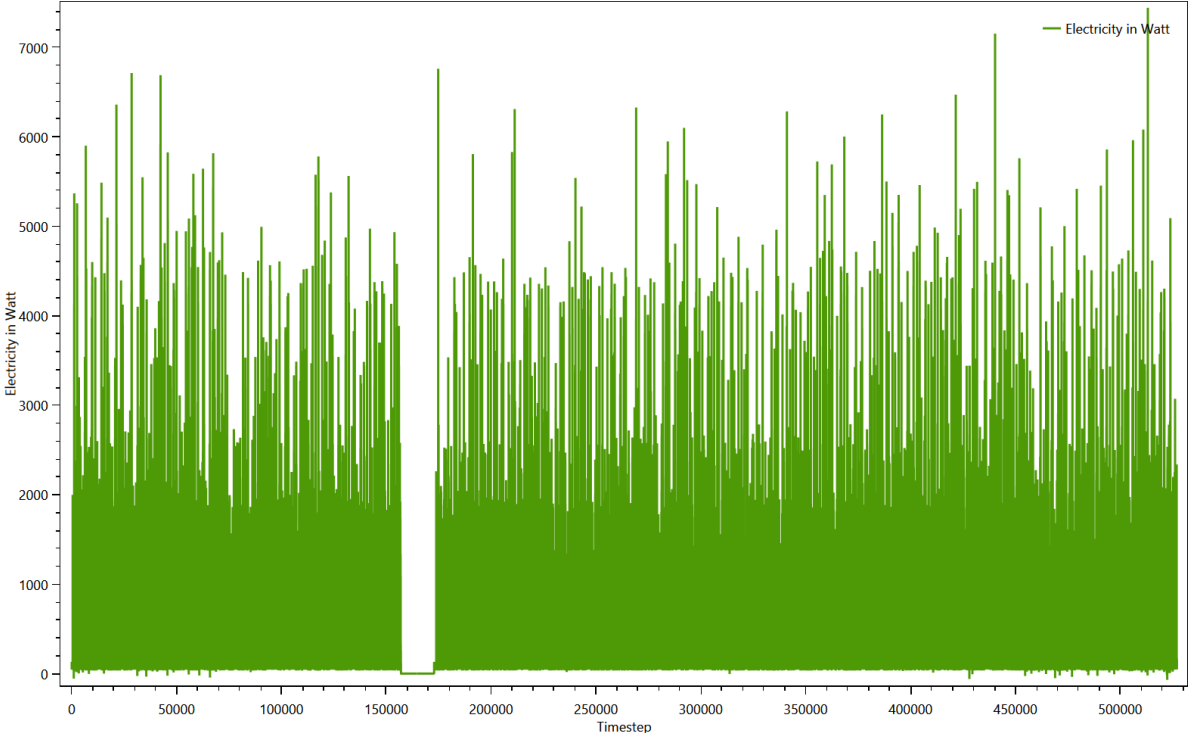
Summed up curve for Cold Water from SumProfiles.Cold Water.png



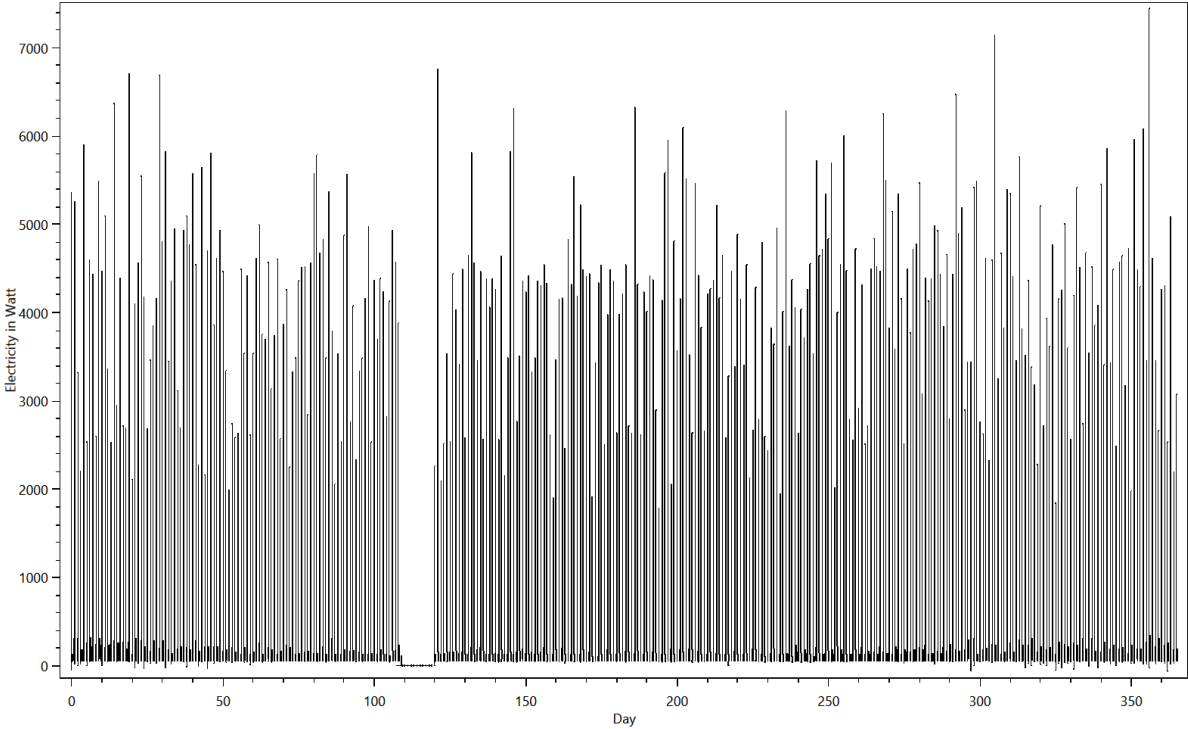
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



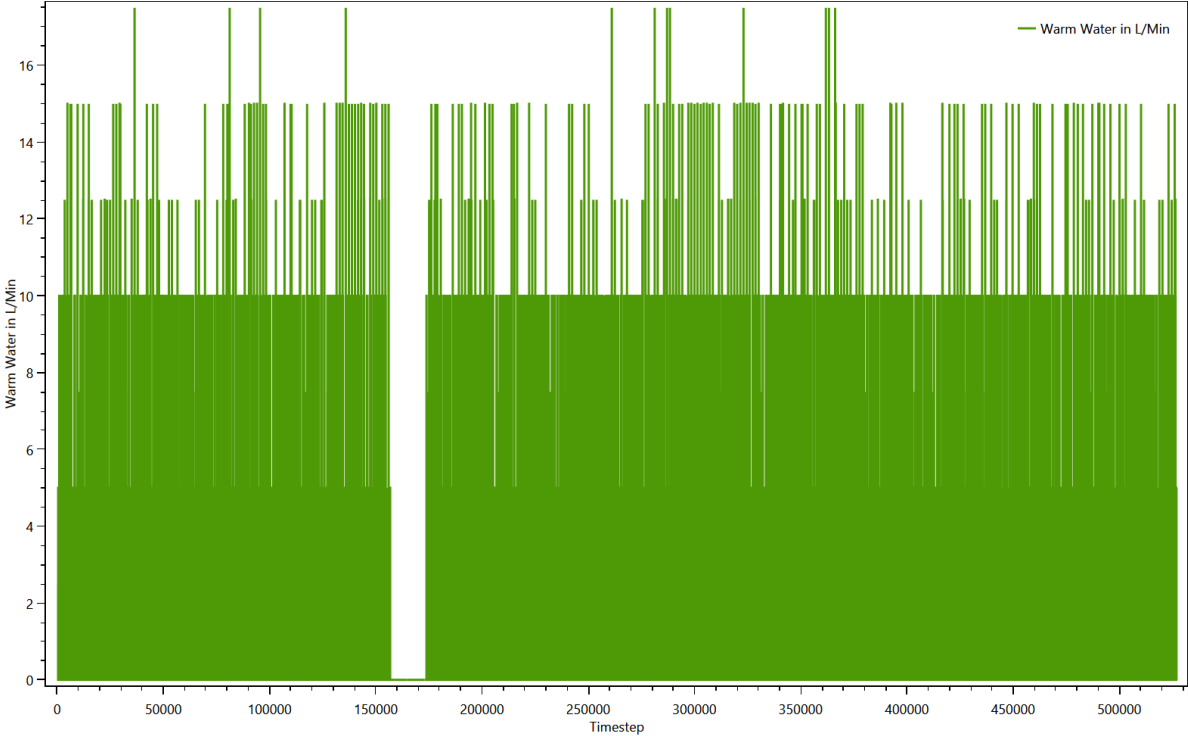
Summed up curve for Electricity from SumProfiles.Electricity.png



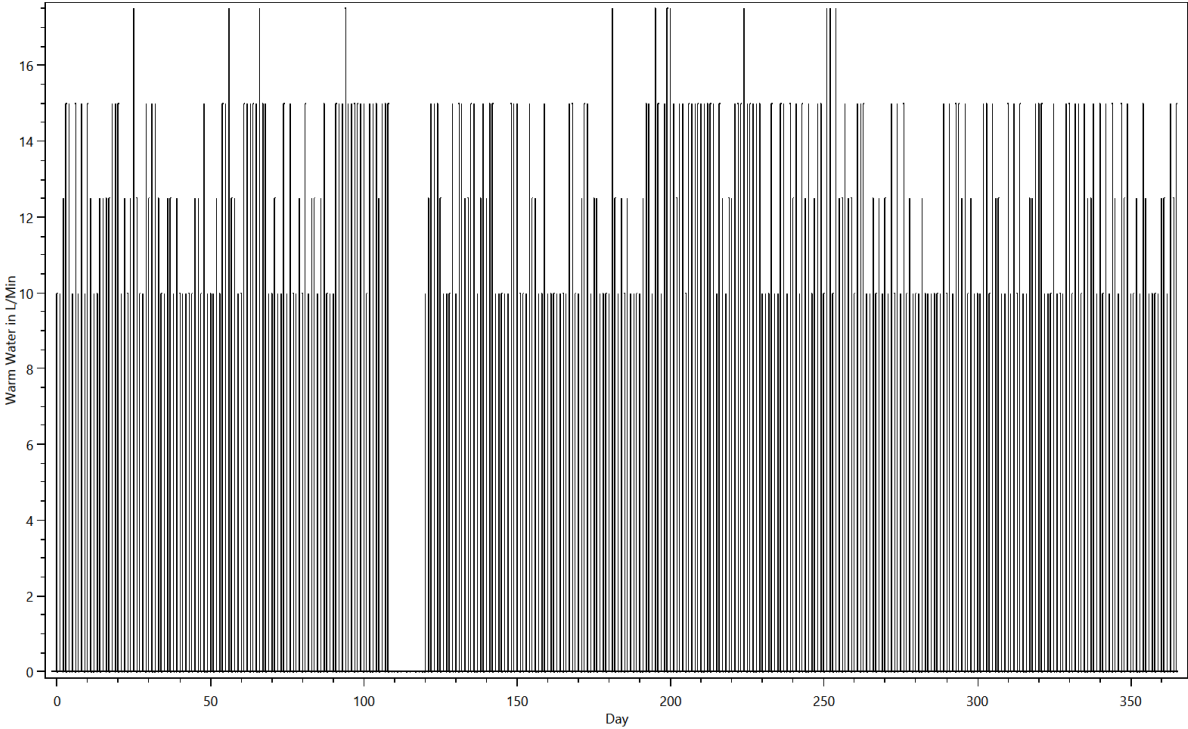
Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR52 Student Flatsharing 0.txt

Device;Load Type;Profile;Number of Activations

Bar;None;04 h 0 min 100% [Synthetic];110

Baseball;None;06 h 0 min 100% [Synthetic];248

Bathroom Light (100W);Electricity;Bath - light [Synthetic for Light Device];994

Bathroom Mirror Light 100W (Conventional);Electricity;Bath - light [Synthetic for Light Device];994

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 100% [Synthetic];3613

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 50% [Synthetic];1006

Bed 2;None;08 h 0 min 100% [Synthetic];357

Bed 8;None;08 h 0 min 100% [Synthetic];709

Bedroom Light (200W);Electricity;Bedroom - light [Synthetic for Light Device];192

Board Games;None;01 h 0 min 100% [Synthetic];257

Book;None;01 h 0 min 100% [Synthetic];7

CD/DVD Player / Phillips CD 380;Electricity;01 h 30 min 100% [Synthetic];279

CD/DVD Player / Phillips CD 380;Electricity;02 h 0 min 100% [Synthetic];5

CD/DVD Player / Phillips CD 380;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8521

Christopeit Treadmill TM 2 Pro;Electricity;0 h 30 min 100% [Synthetic];149

Cinema;None;03 h 0 min 100 % [Synthetic];18

Cleanser;None;01 h 0 min 100% [Synthetic];91

Cloth Drying Rack;None;0 h 20 min 100% [Synthetic];234

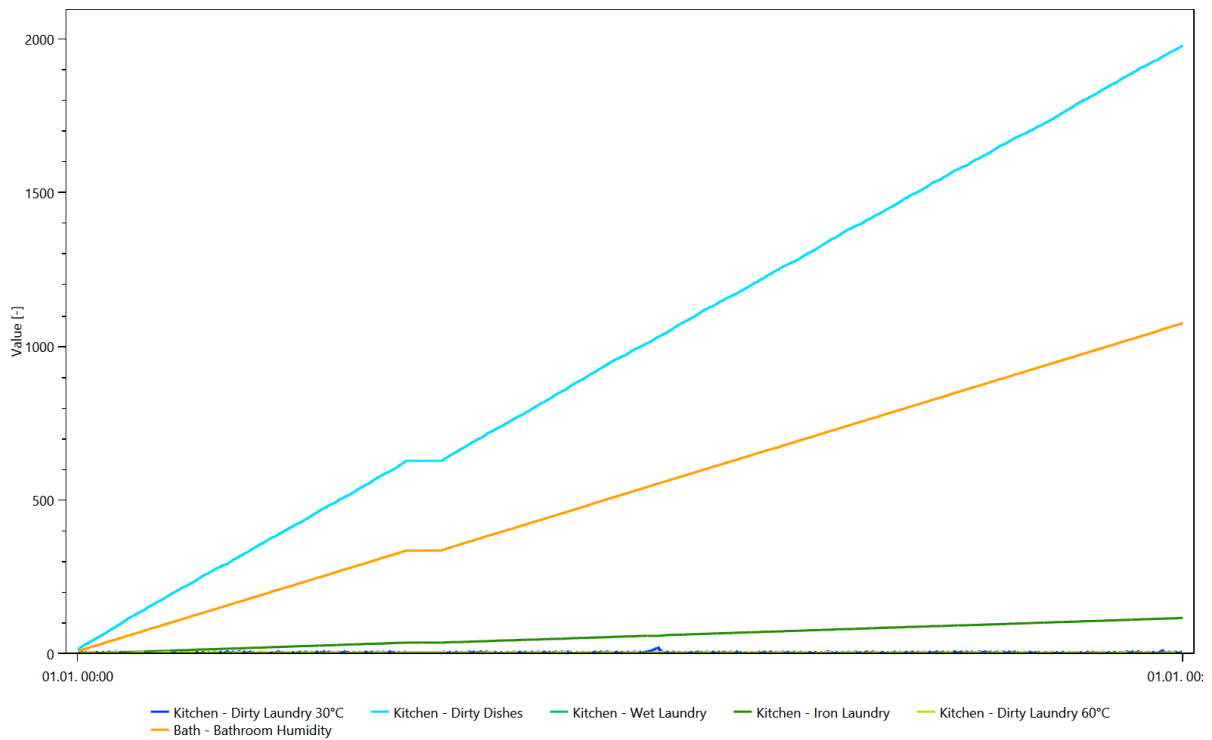
Coffee Machine / Braun Impression KF 600;Electricity;0 h 10 min 100% [Synthetic];729

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

