

## Overview of the results of the household CHR20 one at work, one work home, 3 children 0

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

Energy Intensity: Random

Seed 5679

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:14:48

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## Totals

### Totals for each Loadtype

Load Type	Value	Unit
Cold Water	57766.13	L
Electricity	5538.27	kWh
Warm Water	117052.50	L

### Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	157.83	L
Electricity	15.13	kWh
Warm Water	319.82	L

### Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	17.38	L/Min
Electricity	0.00	12051.49	Watt
Warm Water	0.00	15.00	L/Min

### Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	11553.23	L
Electricity	1107.65	kWh

Warm Water	23410.50	L
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### Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	31.57	L
Electricity	3.03	kWh
Warm Water	63.96	L

## Persons

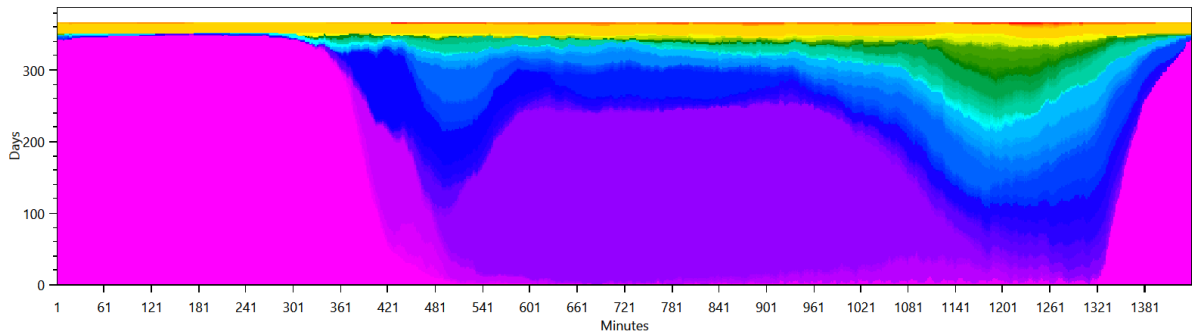
- HH0
  - CHR20 Arthur (45/Male)(45/Male)
  - CHR20 Cassie (40/Female)(40/Female)
  - CHR20 Garreth (8/Male)(8/Male)
  - CHR20 George (12/Male)(12/Male)
  - CHR20 Gregor (4/Male)(4/Male)

# Activity Frequency Charts

This is made from the files starting with: ActivityFrequenciesPerMinute

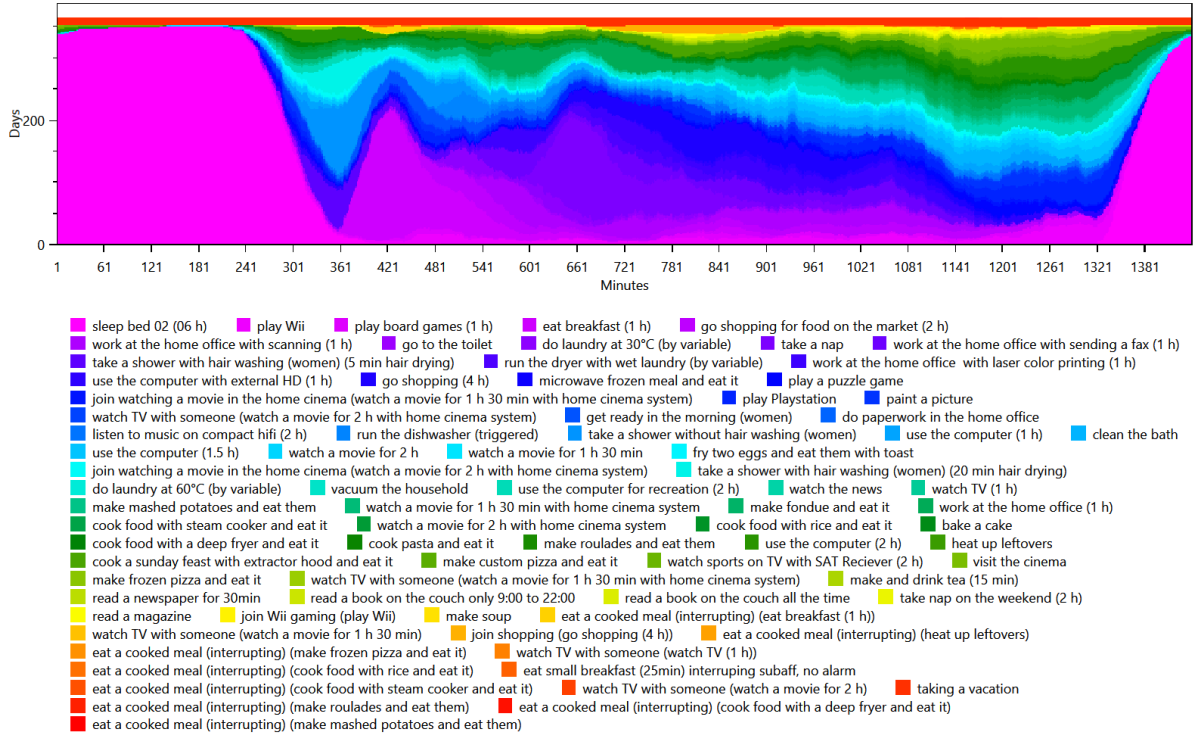
These charts show an ordered distribution of times of the activities of each person. This helps with judging quickly if a person is sleeping correctly and if they are going to work regularly.

HH0 - CHR20 Arthur (45 Male)

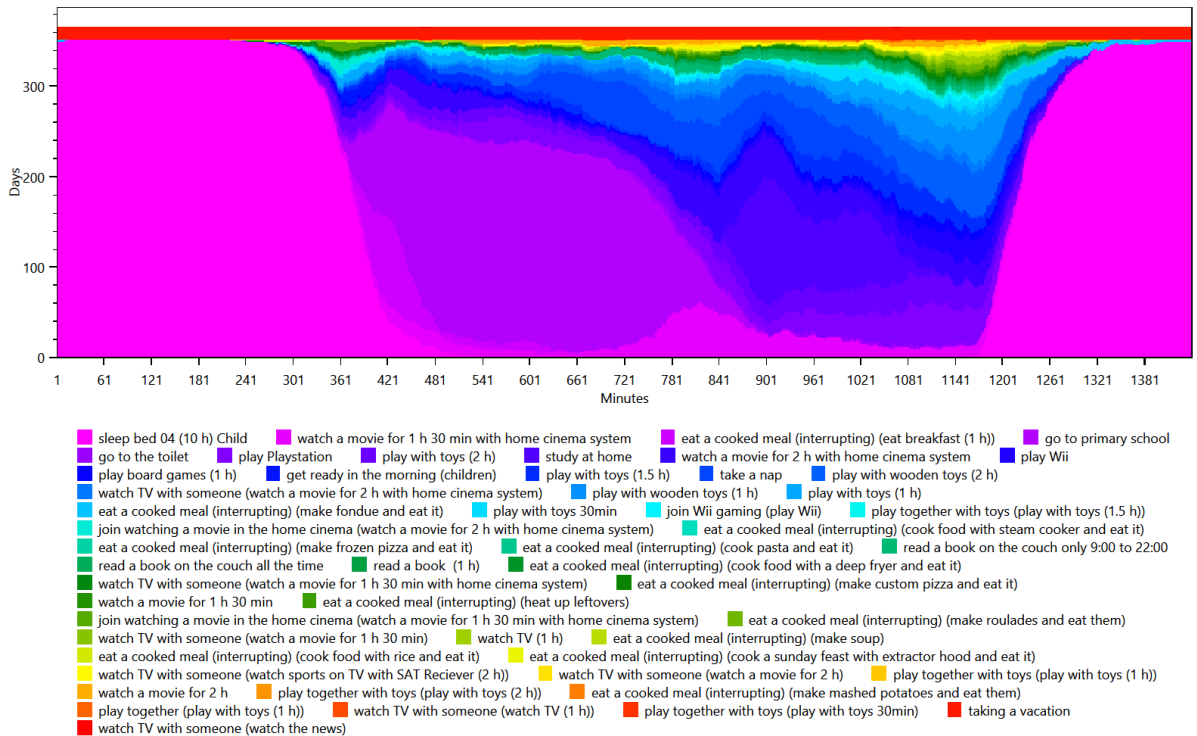


- sleep bed 08 (08 h)
- go to the toilet
- get ready in the morning (men)
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- take a shower (men)
- use the computer with external HD (1 h)
- work as teacher
- play board games (1 h)
- cook pasta and eat it
- exercise for 30 min on the treadmill
- paint a picture
- join Wii gaming (play Wii)
- watch a movie for 1 h 30 min with home cinema system
- use the computer (2 h)
- eat breakfast (1 h)
- bake a cake
- go shopping (4 h)
- use the computer (1 h)
- watch a movie for 2 h with home cinema system
- play a puzzle game
- go shopping for food in the supermarket (1.5 h)
- make fondue and eat it
- listen to music on compact hifi (2 h)
- play Wii
- cook food with steam cooker and eat it
- use the computer for recreation (2 h)
- eat a cooked meal (interrupting) (make mashed potatoes and eat them)
- fry two eggs and eat them with toast
- eat a cooked meal (interrupting) (heat up leftovers)
- eat a cooked meal (interrupting) (cook food with rice and eat it)
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- make frozen pizza and eat it
- watch TV with someone (watch a movie for 2 h with home cinema system)
- eat a cooked meal (interrupting) (cook pasta and eat it)
- use the computer (1.5 h)
- cook food with a deep fryer and eat it
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- microwave frozen meal and eat it
- make soup
- visit the cinema
- eat a cooked meal (interrupting) (make fondue and eat it)
- eat small breakfast (25min) interrupting subaff, no alarm
- eat a cooked meal (interrupting) (cook food with steam cooker and eat it)
- join shopping (go shopping (4 h))
- make mashed potatoes and eat them
- heat up leftovers
- cook food with rice and eat it
- make roulades and eat them
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- eat a cooked meal (interrupting) (make roulades and eat them)
- eat a cooked meal (interrupting) (cook a sunday feast with extractor hood and eat it)
- eat a cooked meal (interrupting) (make soup)
- make and drink tea (15 min)
- play together with toys (play with toys (1.5 h))
- take a nap
- take nap on the weekend (2 h)
- make custom pizza and eat it
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- eat a cooked meal (interrupting) (cook food with a deep fryer and eat it)
- play together with toys (play with toys (2 h))
- taking a vacation
- watch sports on TV with SAT Reciever (2 h)
- watch the news
- watch a movie for 1 h 30 min
- watch TV (1 h)
- play together with toys (play with toys 30min)
- watch a movie for 2 h
- play together with toys (play with toys (1 h))
- watch TV with someone (watch a movie for 1 h 30 min)
- join someone for food shopping (go shopping for food on the market (2 h))
- eat a cooked meal (interrupting) (make custom pizza and eat it)
- watch TV with someone (watch sports on TV with SAT Reciever (2 h))
- play together (play with toys (1 h))

## HH0 - CHR20 Cassie (40 Female)



## HH0 - CHR20 Garreth (8 Male)





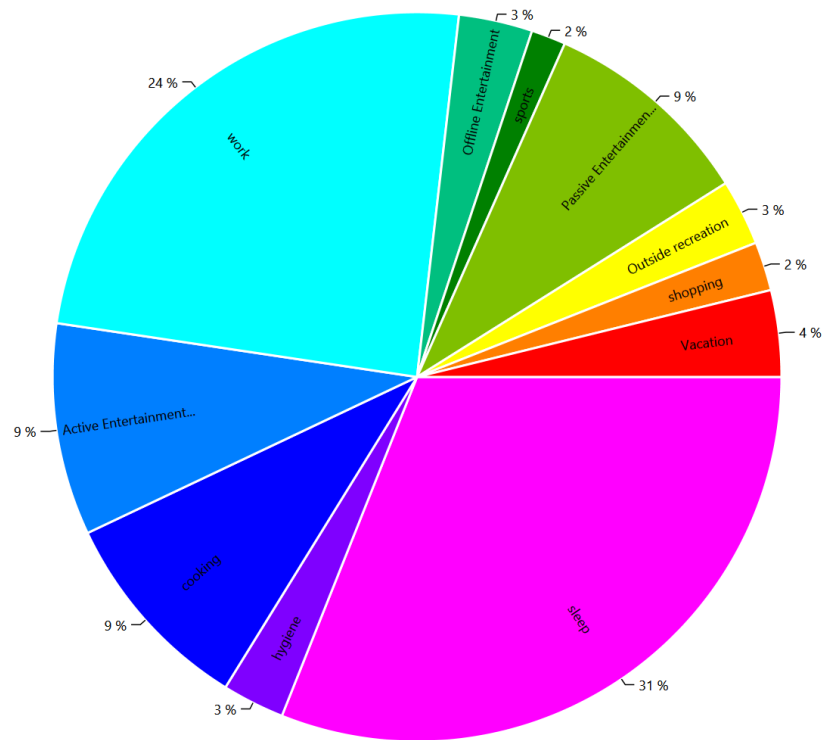


# Activity Distribution per Person

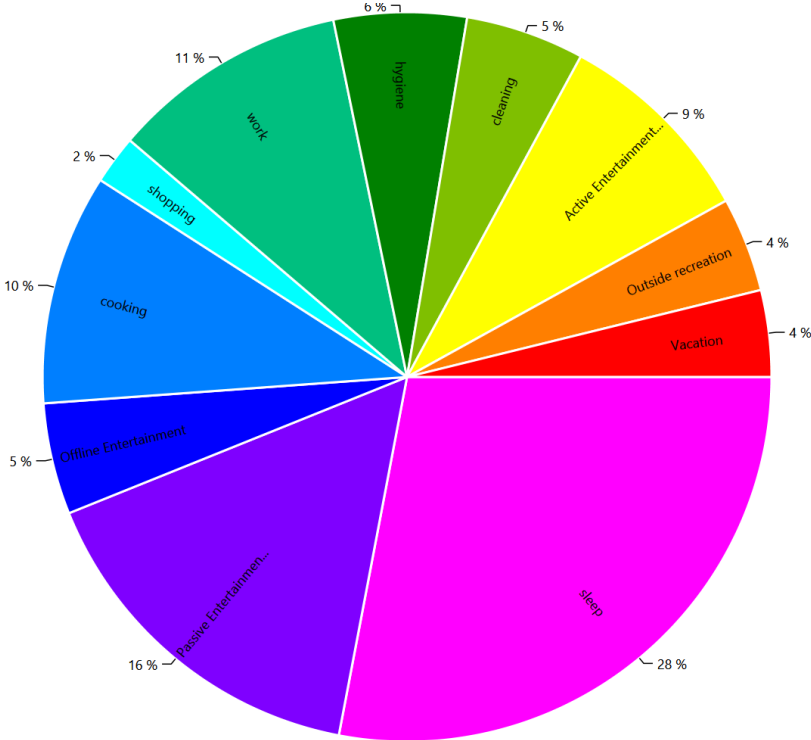
This is made from the files starting with: ActivityPercentage

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

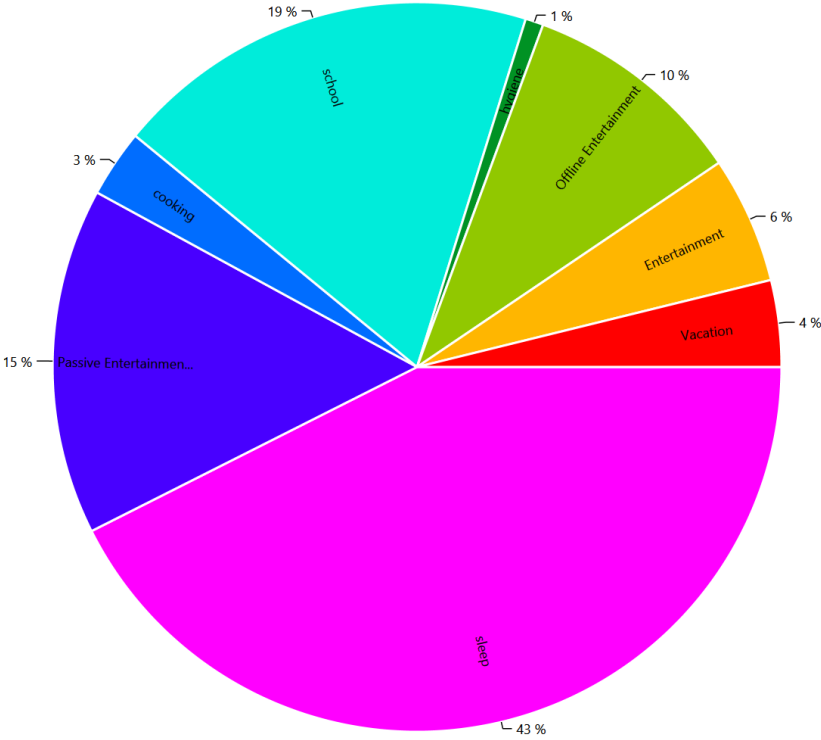
HH0 - CHR20 Arthur (45 Male)



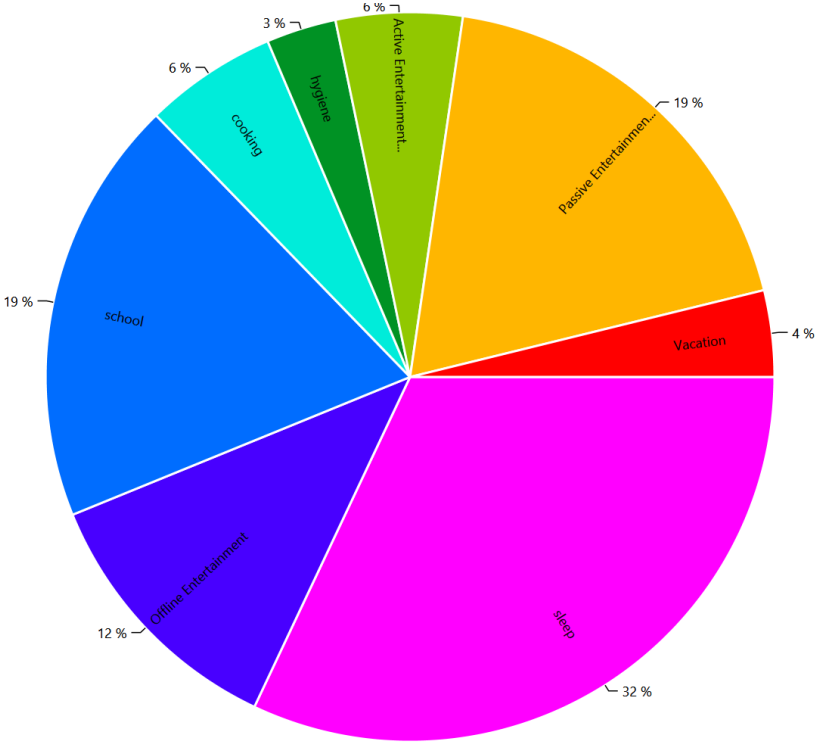
HH0 - CHR20 Cassie (40 Female)



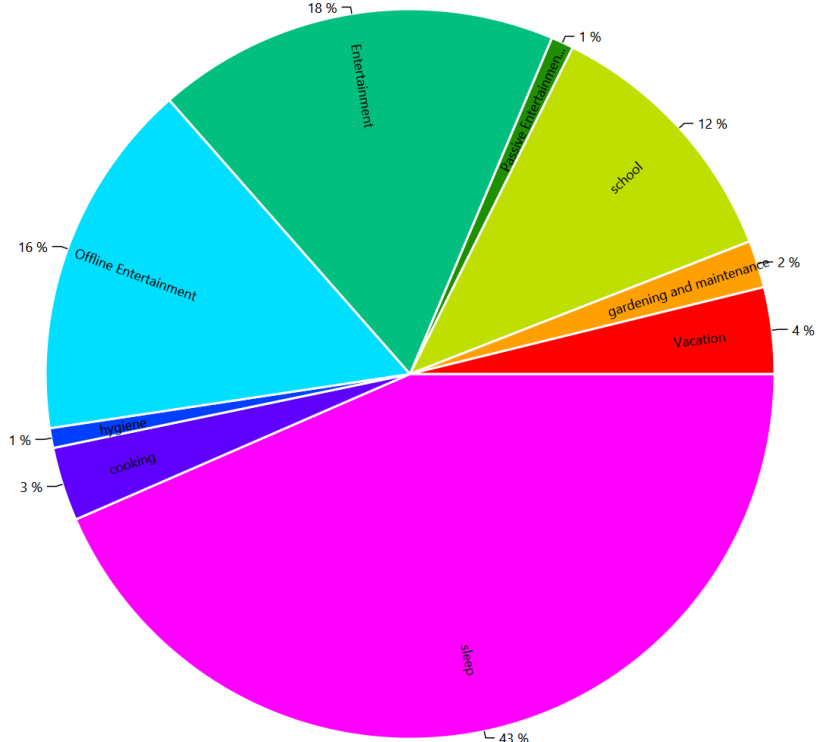
HH0 - CHR20 Garreth (8 Male)



HH0 - CHR20 George (12 Male)



HH0 - CHR20 Gregor (4 Male)

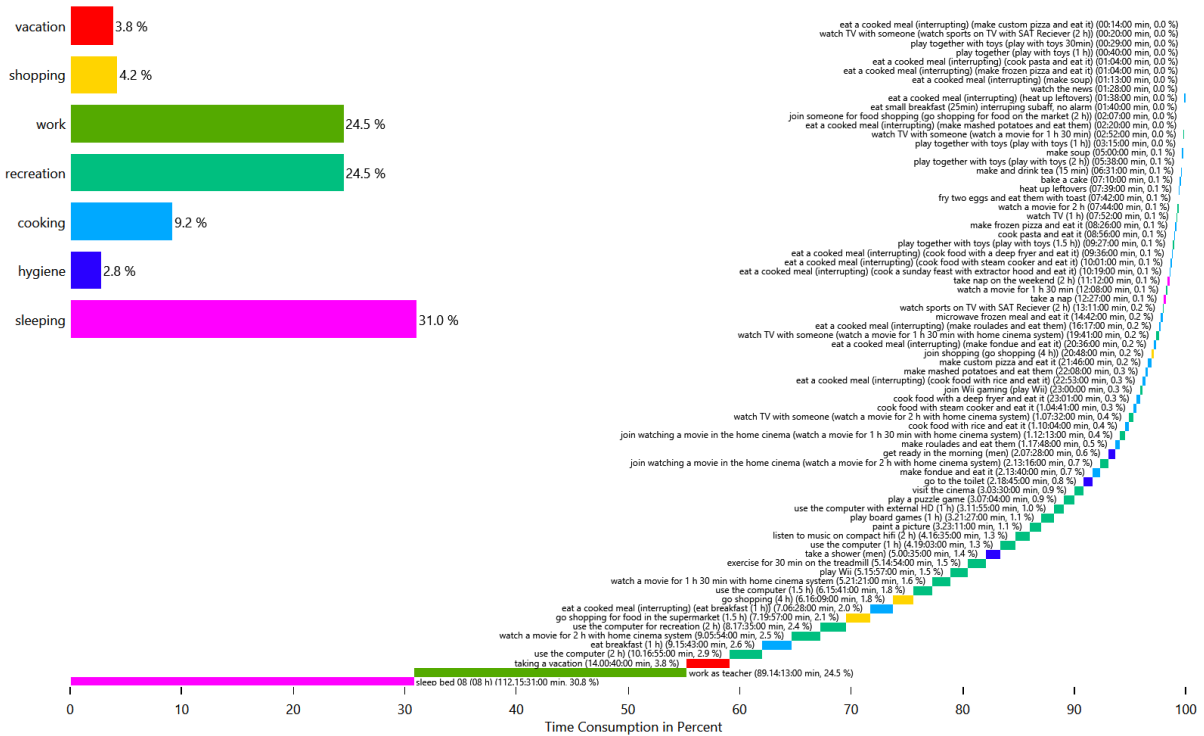


# Time Use per Person per Affordance Per Person

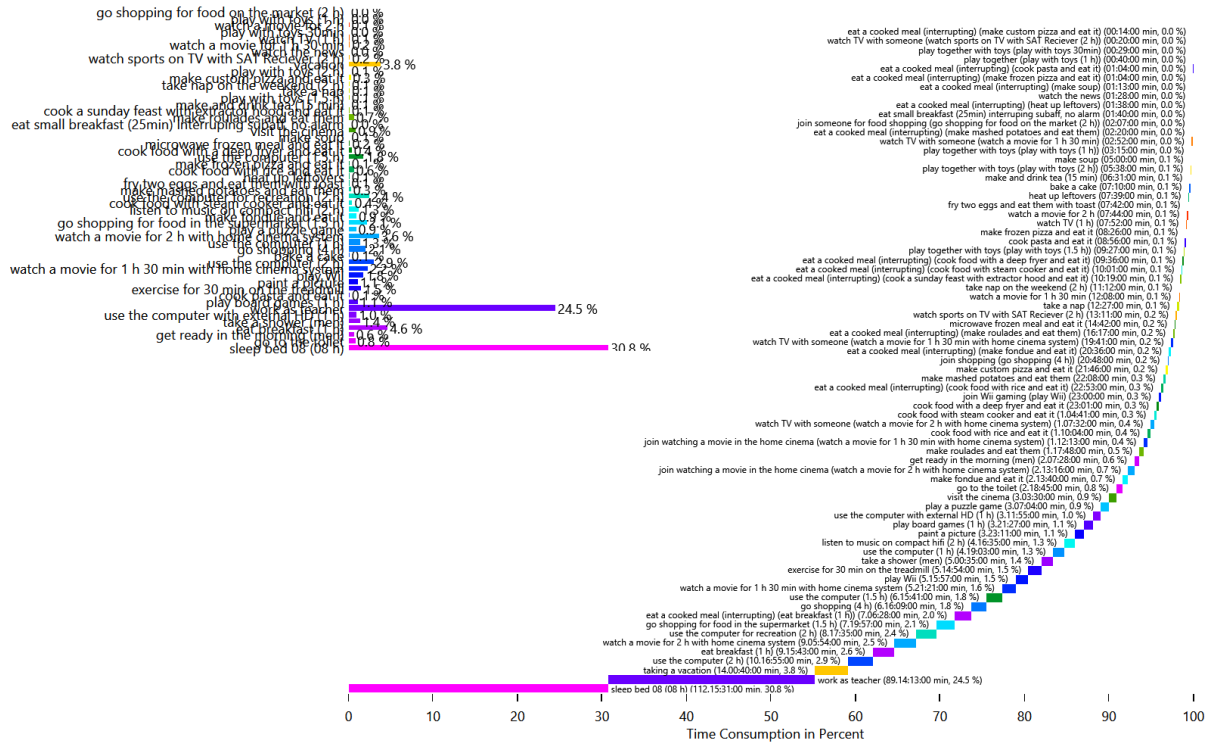
This is made from the files starting with: AffordanceTimeUse

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

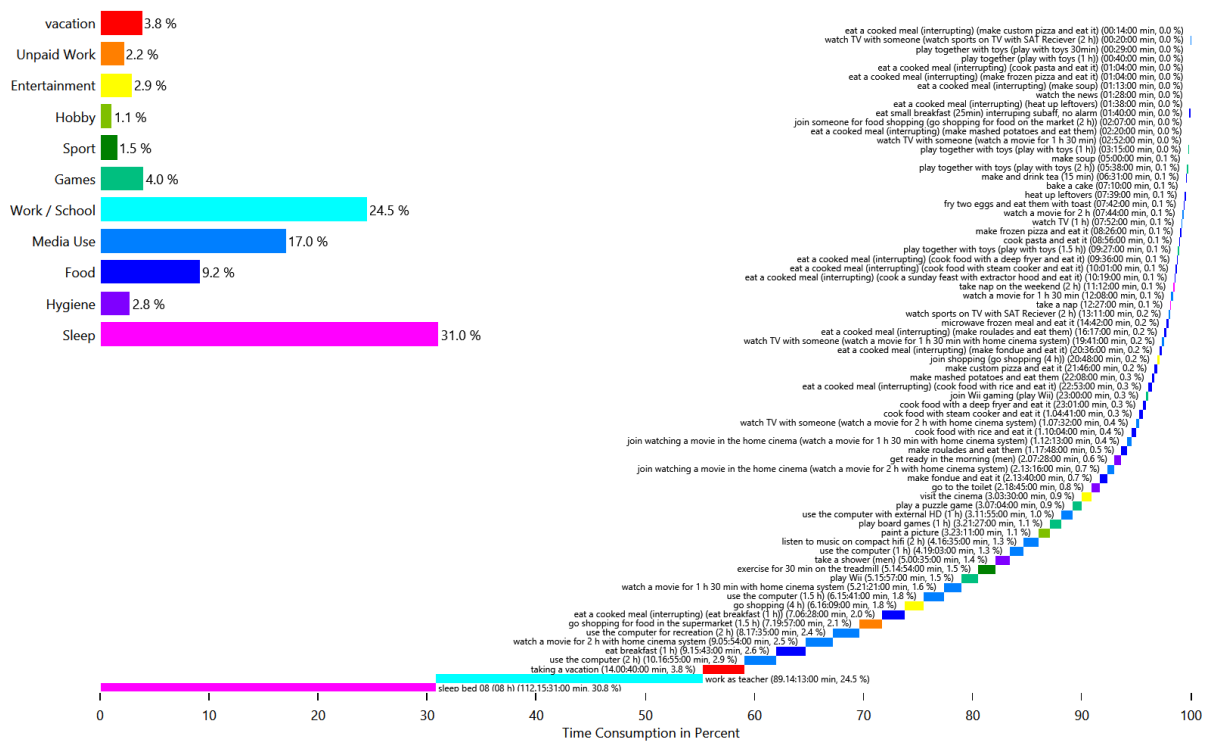
## HH0 - CHR20 Arthur (45 Male)



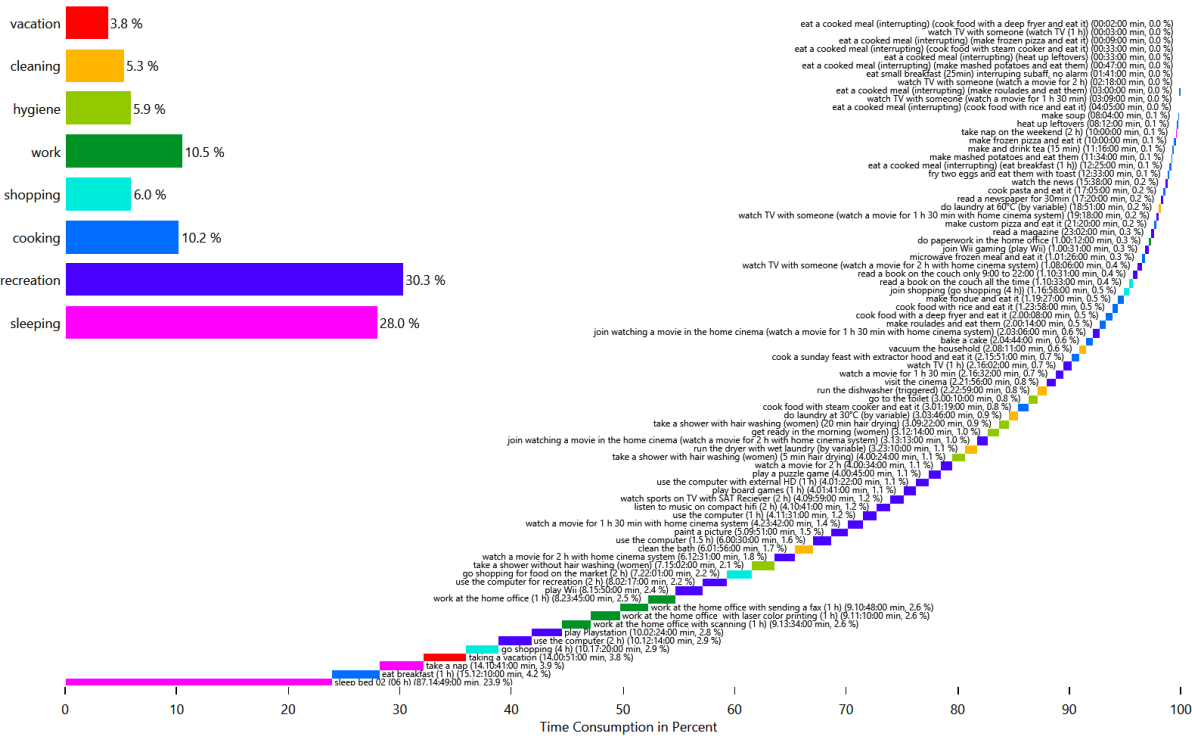
# HH0 - CHR20 Arthur (45 Male)



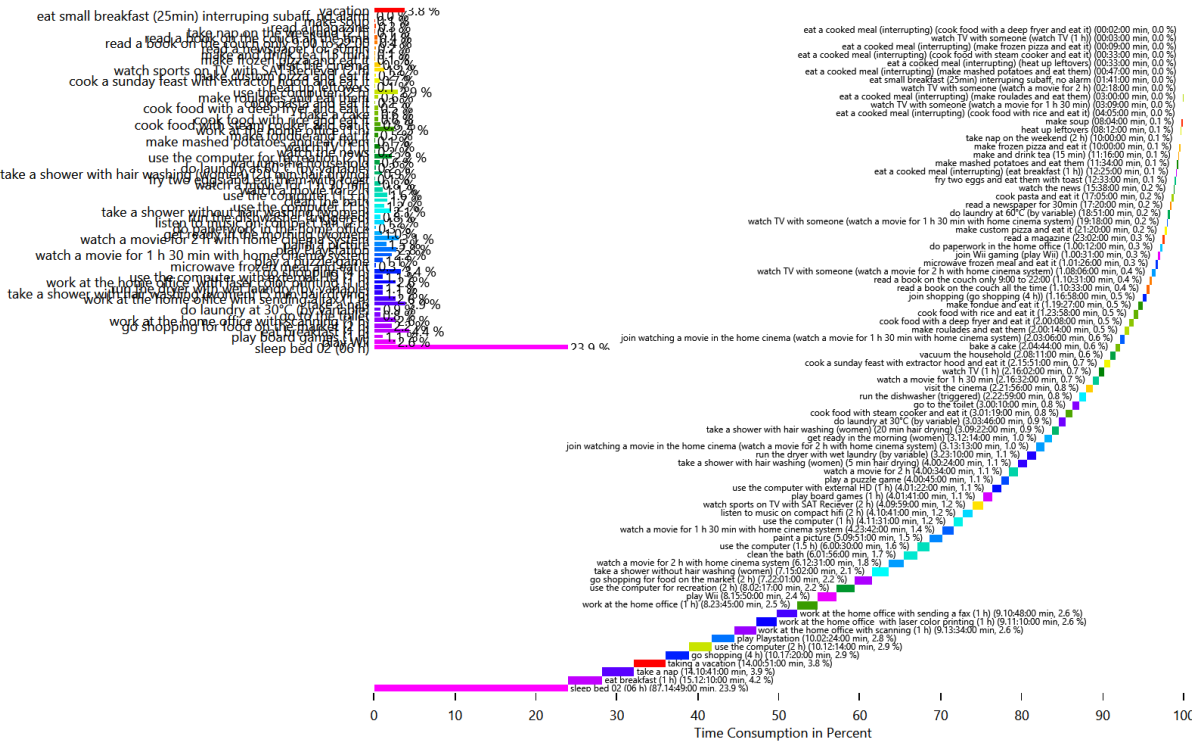
# HH0 - CHR20 Arthur (45 Male)



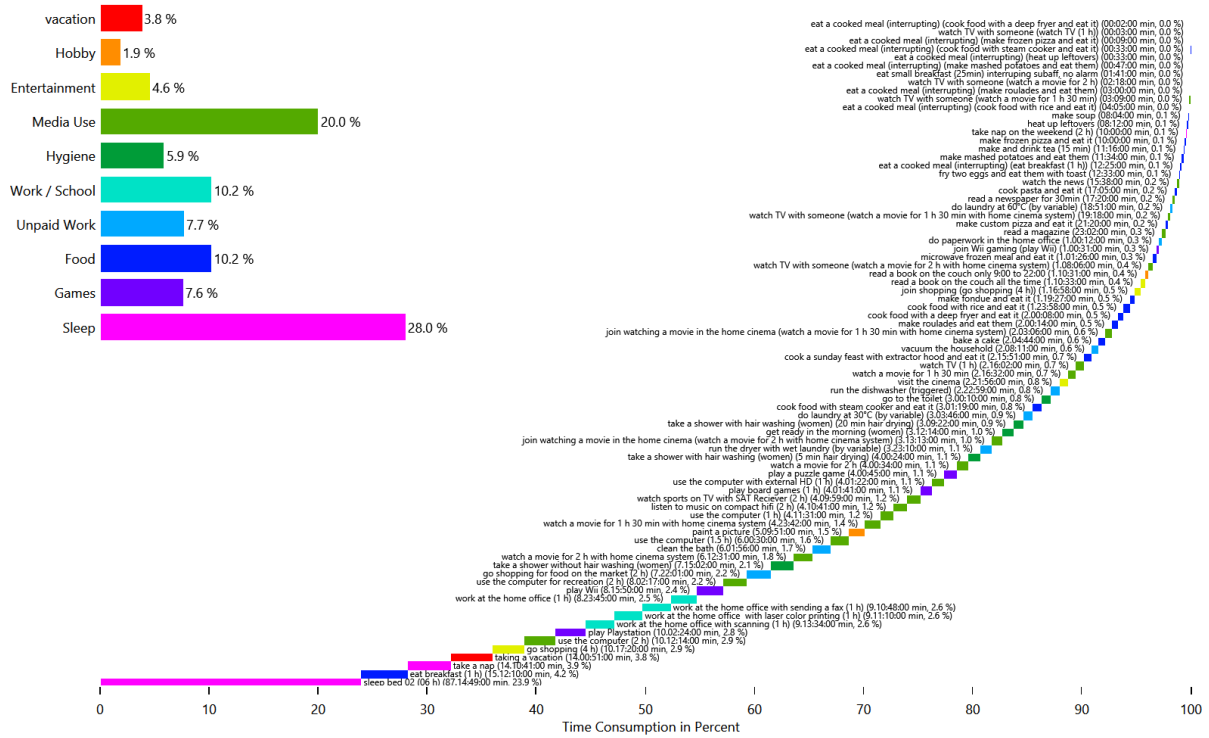
# HHO - CHR20 Cassie (40 Female)



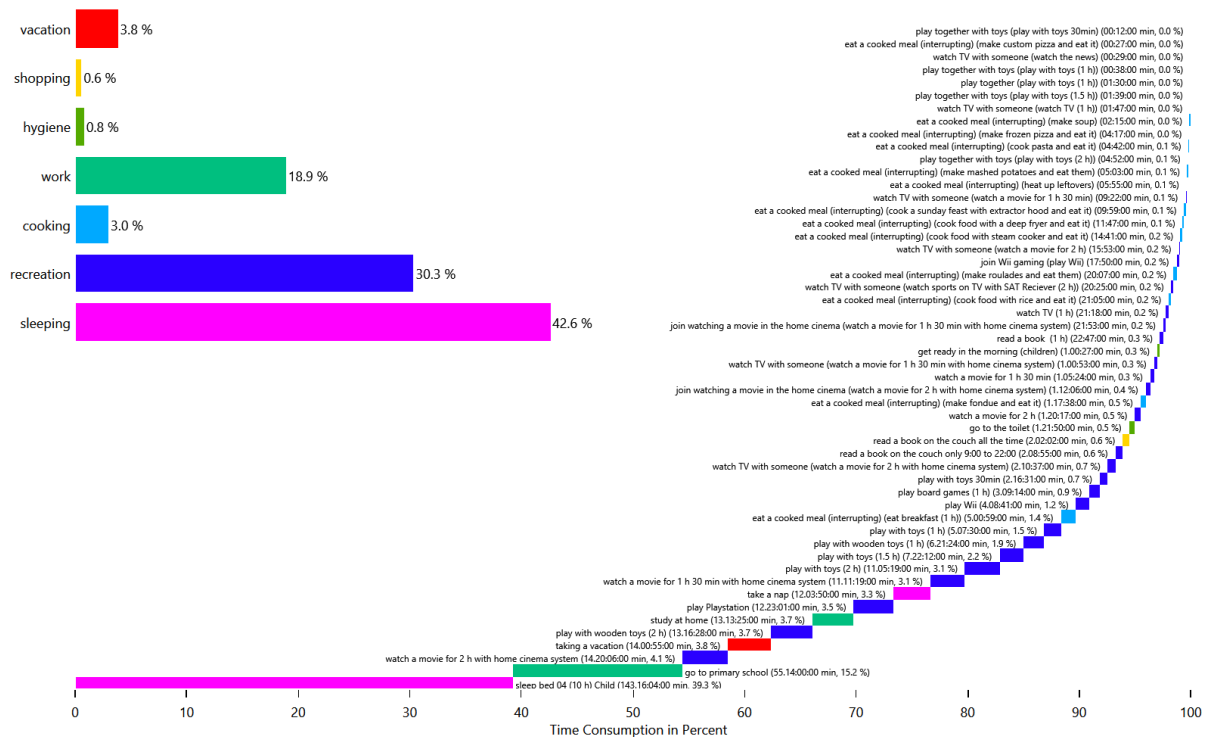
# HHO - CHR20 Cassie (40 Female)



## HH0 - CHR20 Cassie (40 Female)



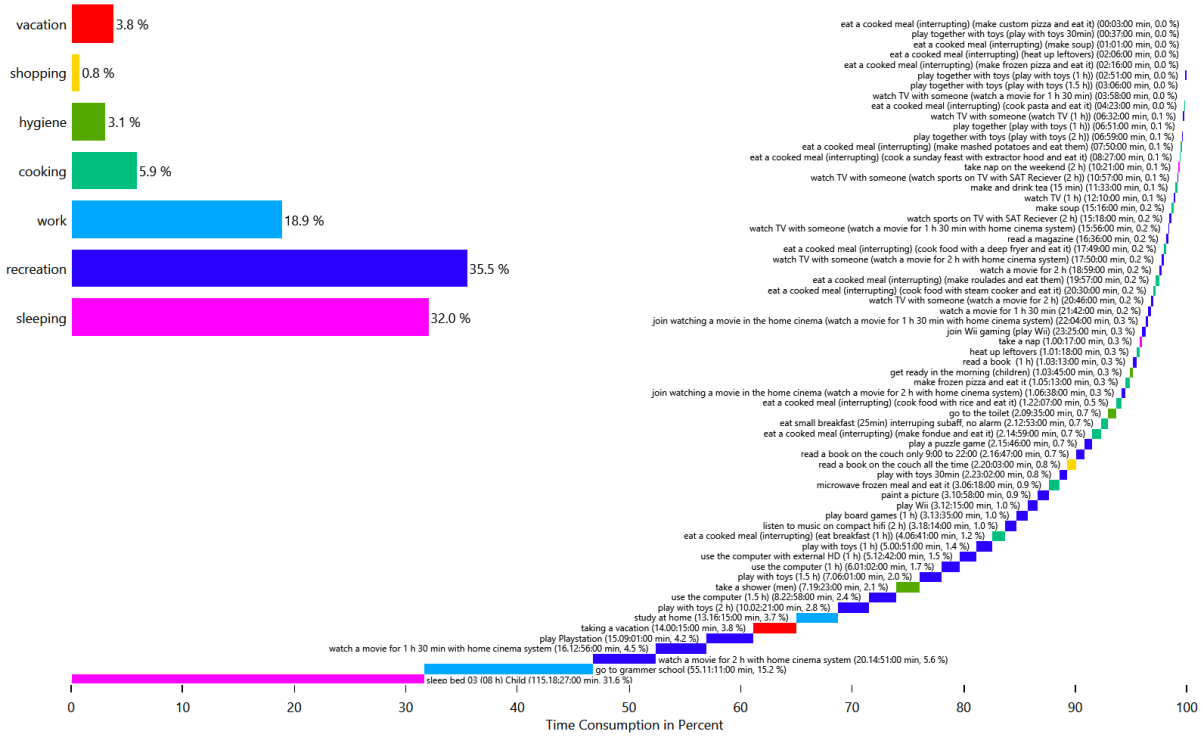
## HH0 - CHR20 Garreth (8 Male)



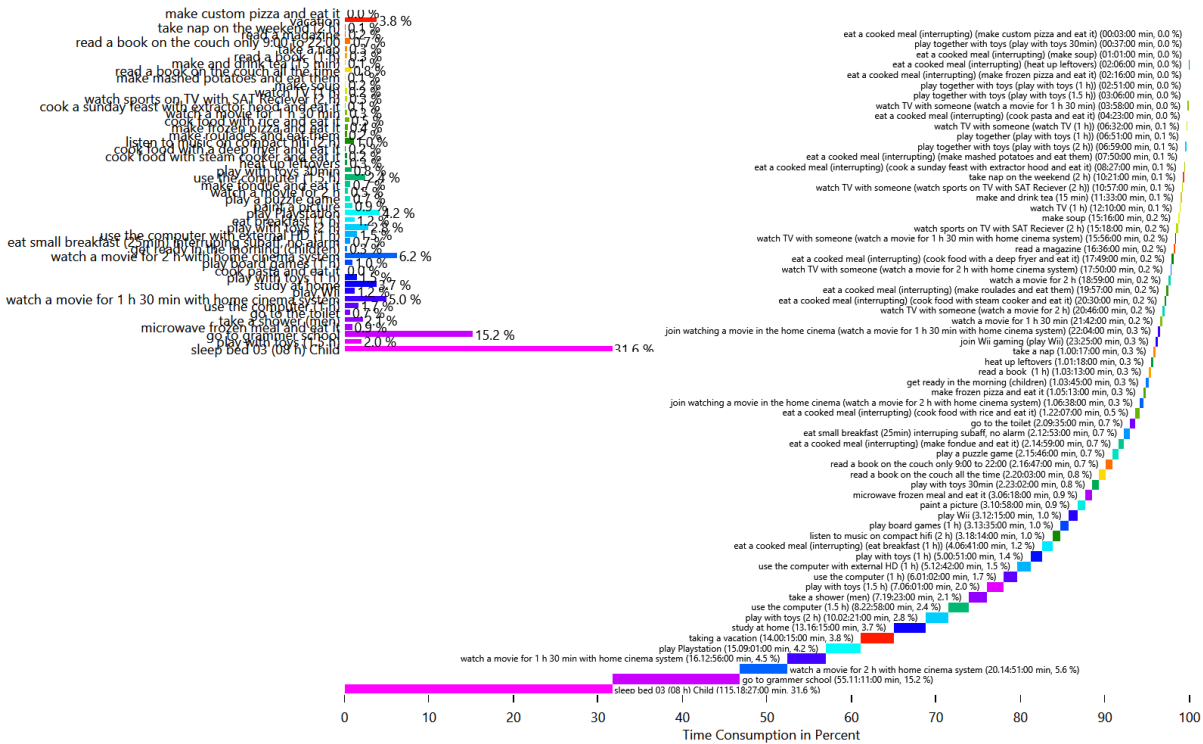




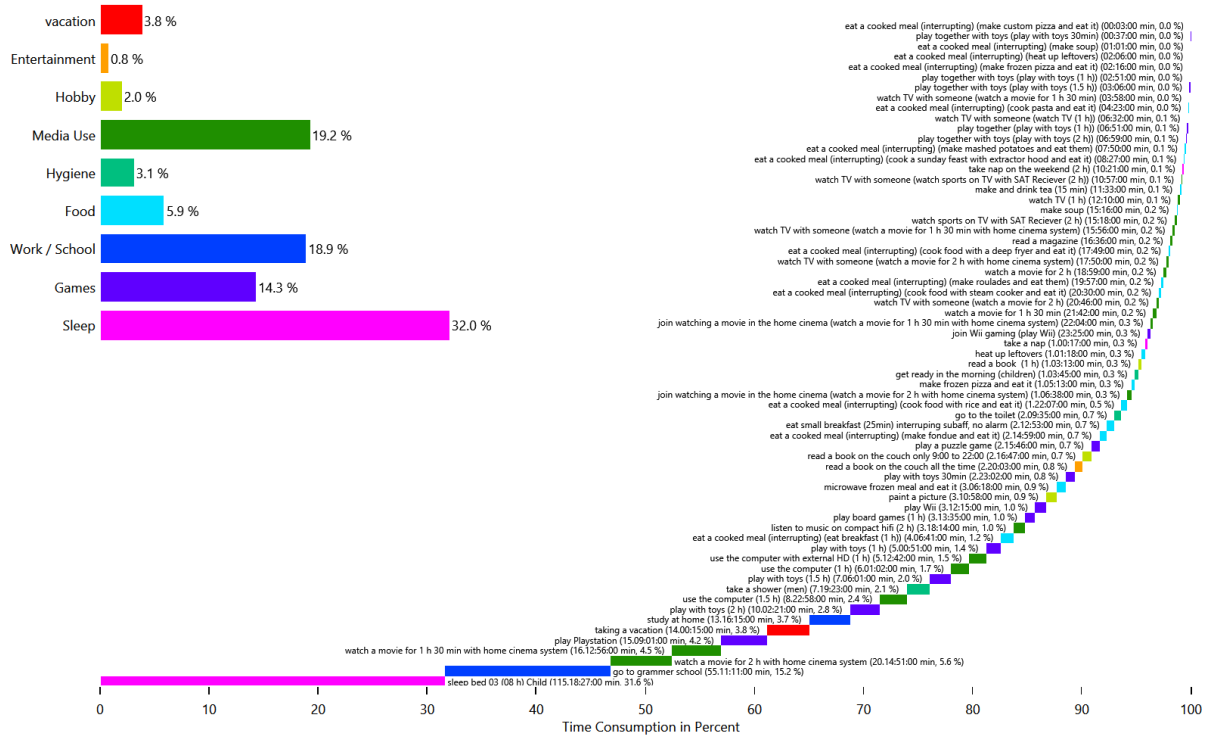
# HH0 - CHR20 George (12 Male)



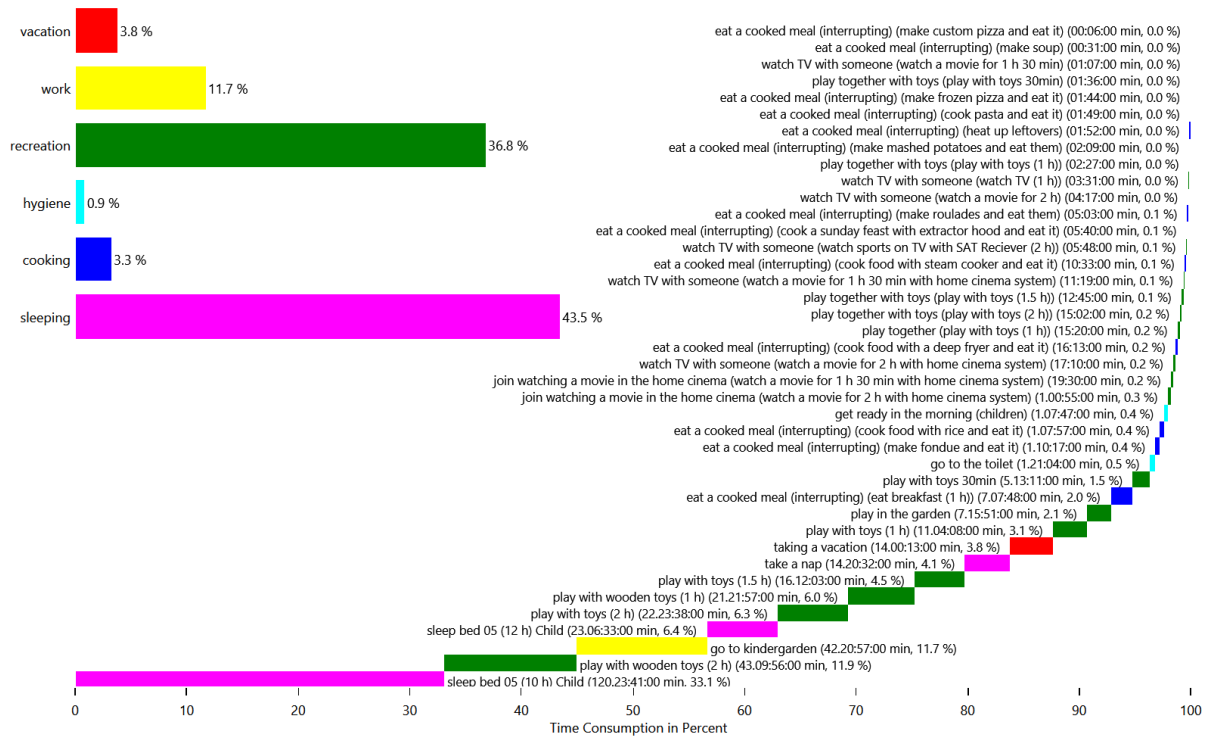
# HH0 - CHR20 George (12 Male)



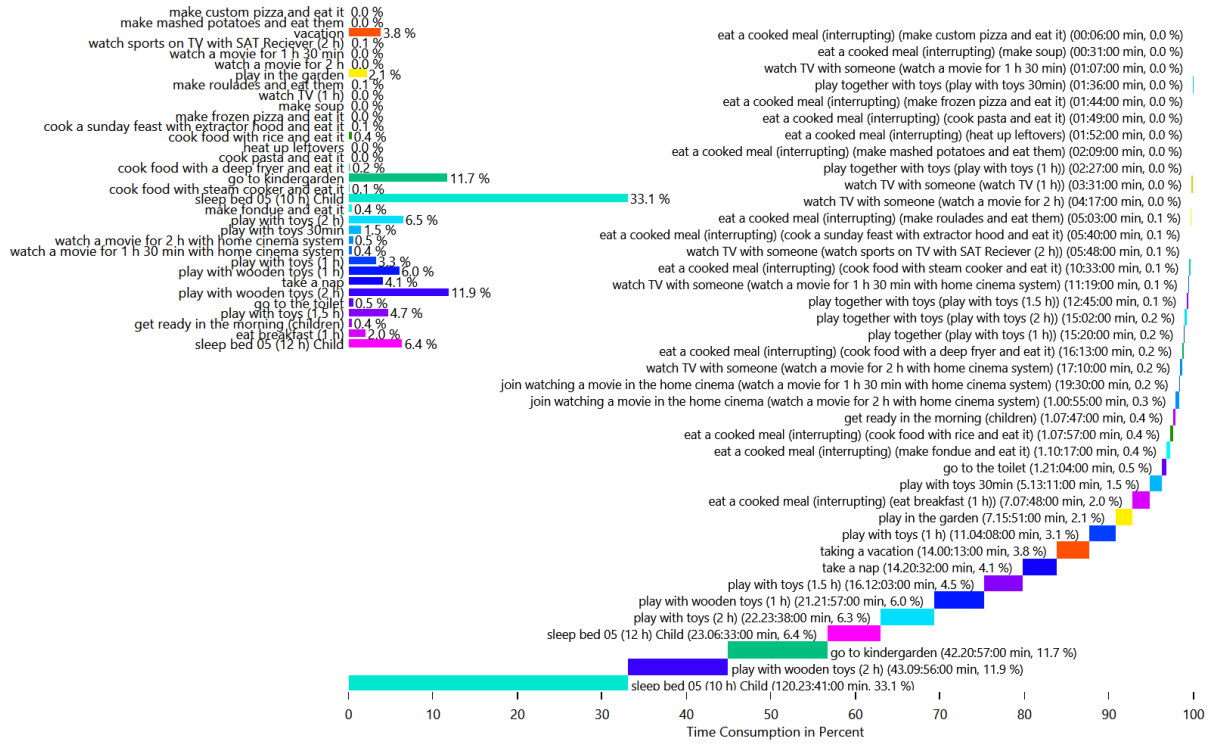
## HH0 - CHR20 George (12 Male)



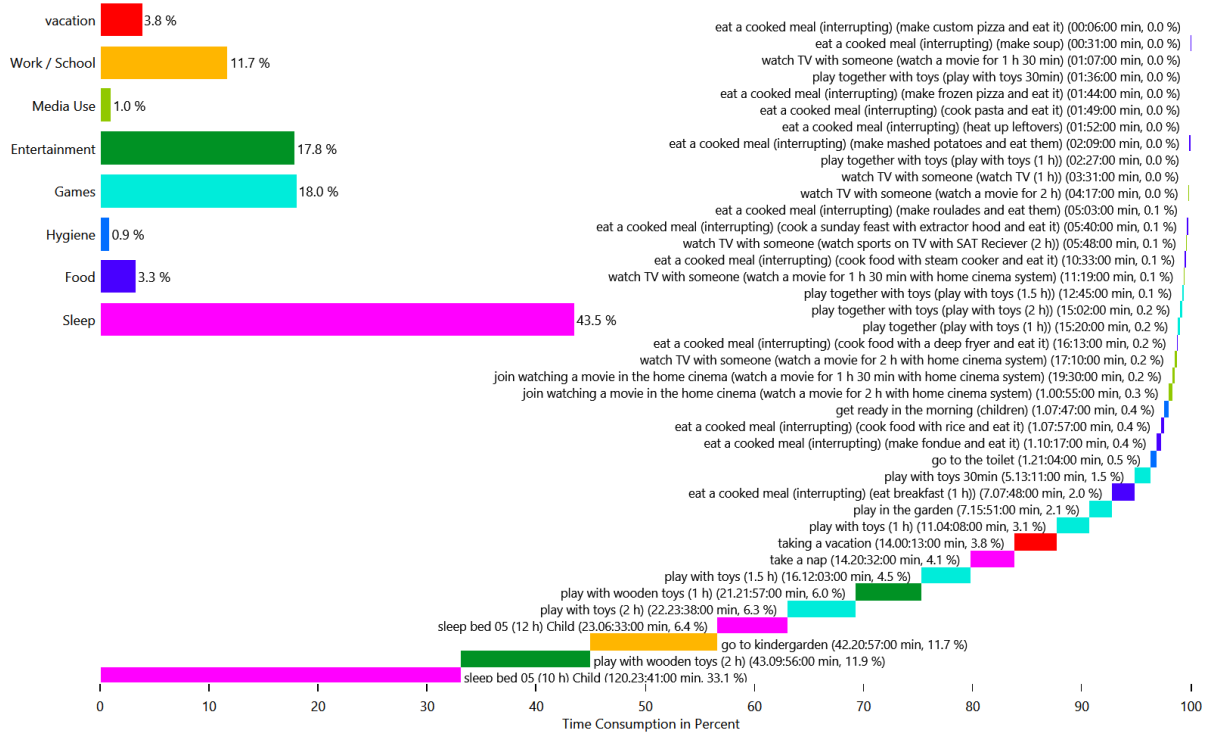
## HH0 - CHR20 Gregor (4 Male)



## HH0 - CHR20 Gregor (4 Male)



## HH0 - CHR20 Gregor (4 Male)

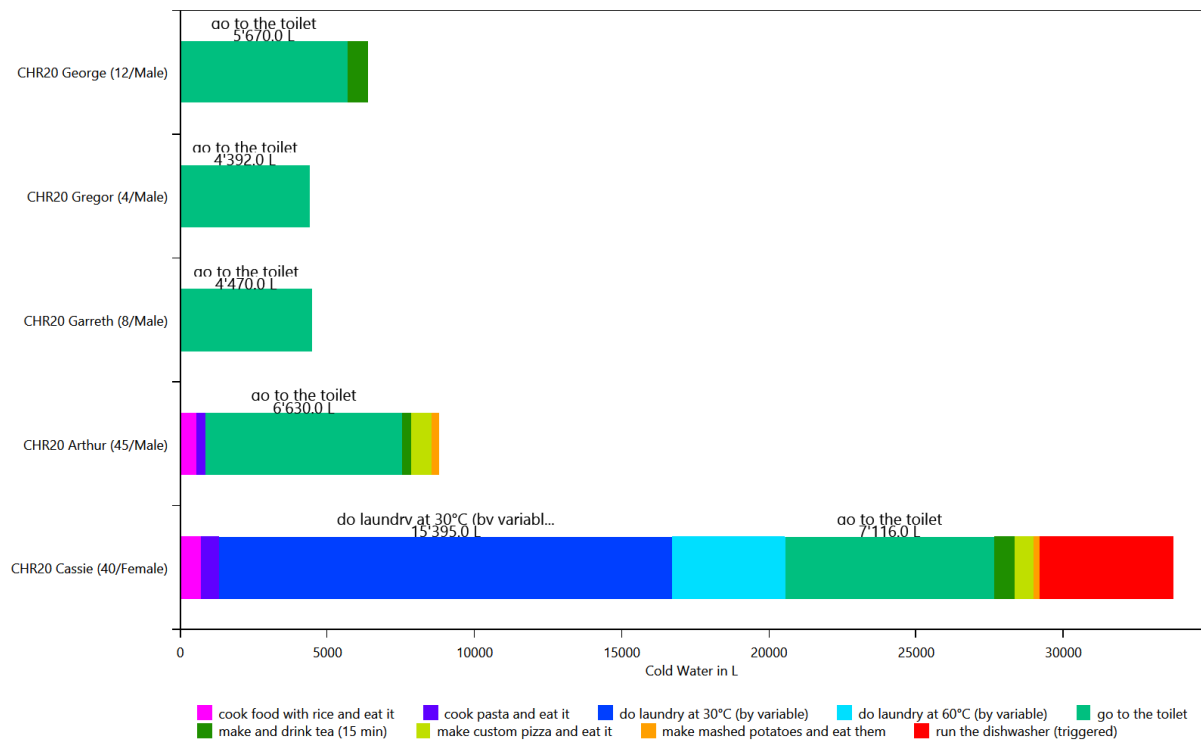


# Energy use per person per affordance

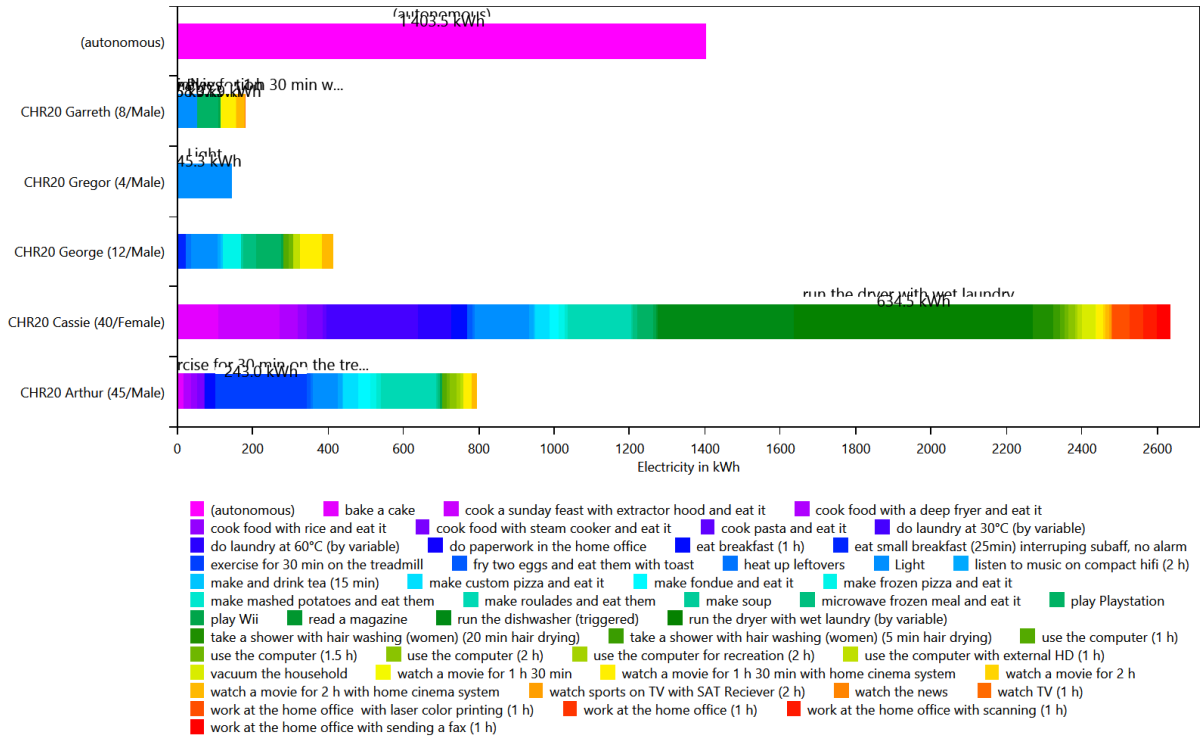
This is made from the files starting with: `AffordanceEnergyUsePerPerson`

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

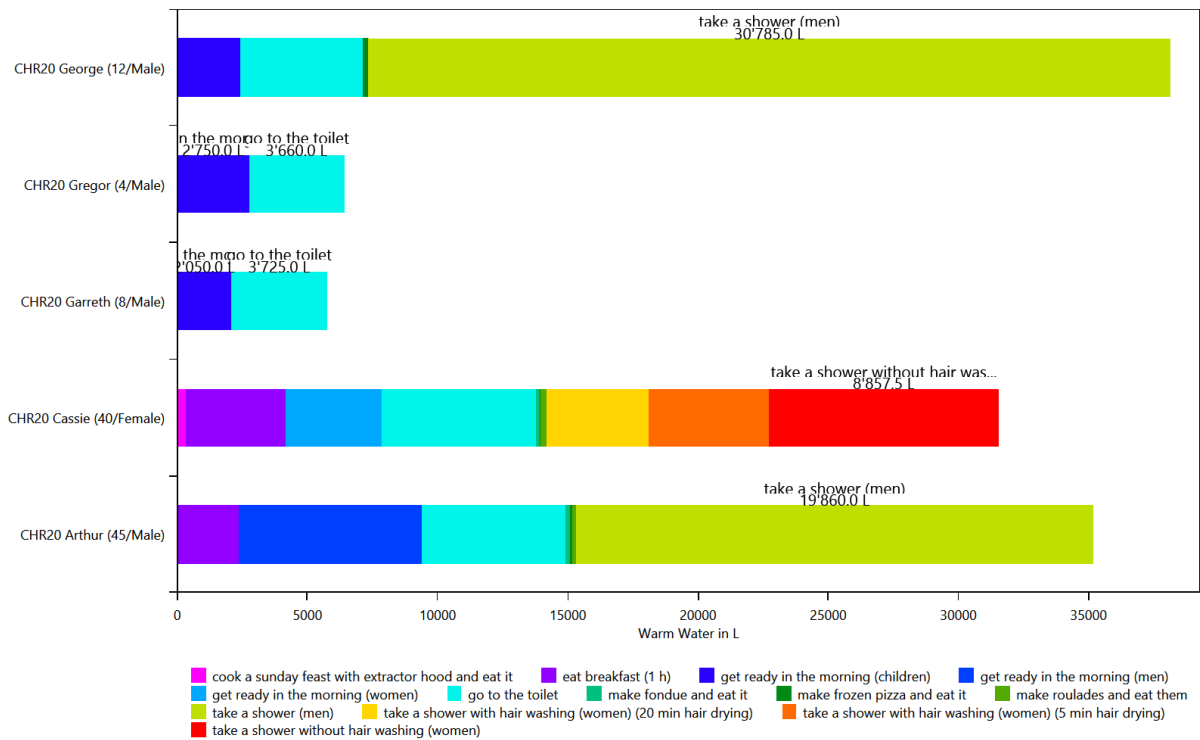
## HH0 - Cold Water



## HH0 - Electricity



## HH0 - Warm Water

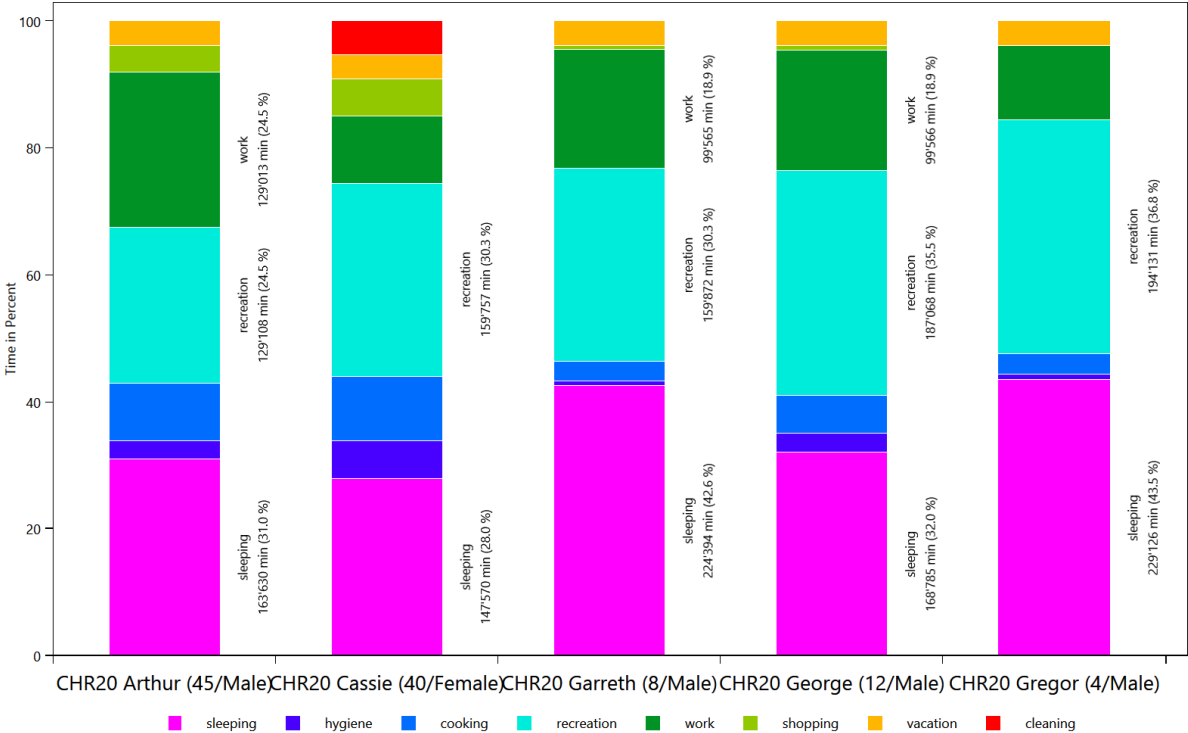


# Time Use per Person Per Affordance according to different category definitions

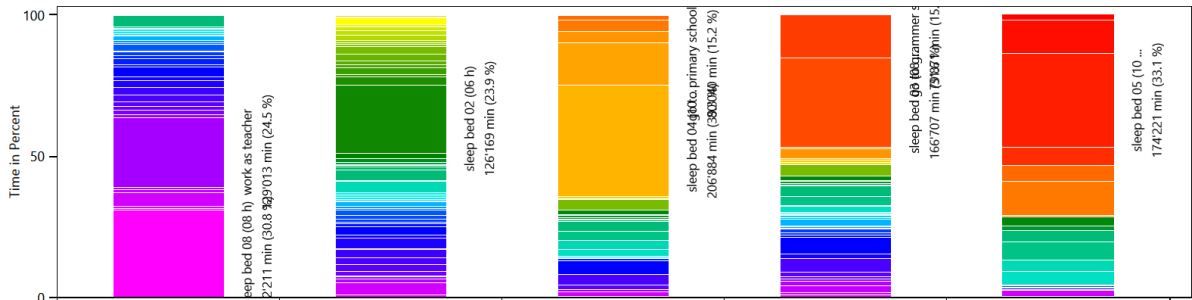
This is made from the files starting with: AffordanceTaggingSet

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

## Basic Tagging - HH0



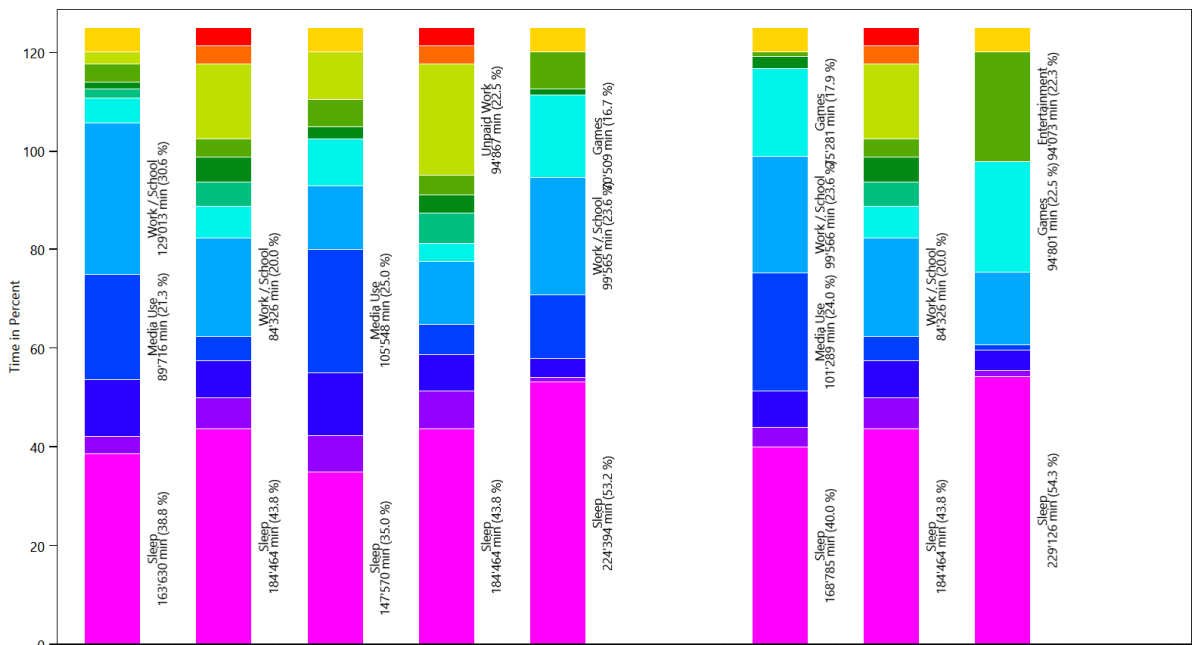
## Tagging Set For Planning - HH0



CHR20 Arthur (45/Male) CHR20 Cassie (40/Female) CHR20 Garreth (8/Male) CHR20 George (12/Male) CHR20 Gregor (4/Male)

- sleep bed 08 (08 h)
- go to the toilet
- get ready in the morning (men)
- eat breakfast (1 h)
- take a shower (men)
- use the computer with external HD (1 h)
- work as teacher
- play board games (1 h)
- cook pasta and eat it
- exercise for 30 min on the treadmill
- paint a picture
- play Wii
- watch a movie for 1 h 30 min with home cinema system
- use the computer (2 h)
- bake a cake
- go shopping (4 h)
- use the computer (1 h)
- watch a movie for 2 h with home cinema system
- play a puzzle game
- go shopping for food in the supermarket (1.5 h)
- make fondue and eat it
- listen to music on compact hifi (2 h)
- cook food with steam cooker and eat it
- use the computer for recreation (2 h)
- make mashed potatoes and eat them
- fry two eggs and eat them with toast
- heat up leftovers
- cook food with rice and eat it
- make frozen pizza and eat it
- use the computer (1.5 h)
- cook food with a deep fryer and eat it
- microwave frozen meal and eat it
- make soup
- visit the cinema
- eat small breakfast (25min) interrupting subaff, no alarm
- make roulades and eat them
- cook a sunday feast with extractor hood and eat it
- make and drink tea (15 min)
- play with toys (1.5 h)
- take a nap
- take nap on the weekend (2 h)
- make custom pizza and eat it
- play with toys (2 h)
- vacation
- watch sports on TV with SAT Receiver (2 h)
- watch the news
- watch a movie for 1 h 30 min
- watch TV (1 h)
- play with toys 30min
- watch a movie for 2 h
- play with toys (1 h)
- go shopping for food on the market (2 h)
- sleep bed 02 (06 h)
- work at the home office with scanning (1 h)
- do laundry at 30°C (by variable)
- work at the home office with sending a fax (1 h)
- take a shower with hair washing (women) (5 min hair drying)
- run the dryer with wet laundry (by variable)
- work at the home office with laser color printing (1 h)
- play Playstation
- get ready in the morning (women)
- do paperwork in the home office
- run the dishwasher (triggered)
- take a shower without hair washing (women)
- clean the bath
- take a shower with hair washing (women) (20 min hair drying)
- do laundry at 60°C (by variable)
- vacuum the household
- work at the home office (1 h)
- read a newspaper for 30min
- read a book on the couch only 9:00 to 22:00
- read a book on the couch all the time
- read a magazine
- sleep bed 04 (10 h) Child
- go to primary school
- study at home
- get ready in the morning (children)
- play with wooden toys (2 h)
- play with wooden toys (1 h)
- read a book (1 h)
- sleep bed 03 (08 h) Child
- go to grammer school
- sleep bed 05 (10 h) Child
- go to kindergarden
- play in the garden

## Wo bleibt die Zeit - HH0



CHR20 Arthur (45/Male) CHR20 Cassie (40/Female) CHR20 Garreth (8/Male) CHR20 George (12/Male) CHR20 Gregor (4/Male) Reference

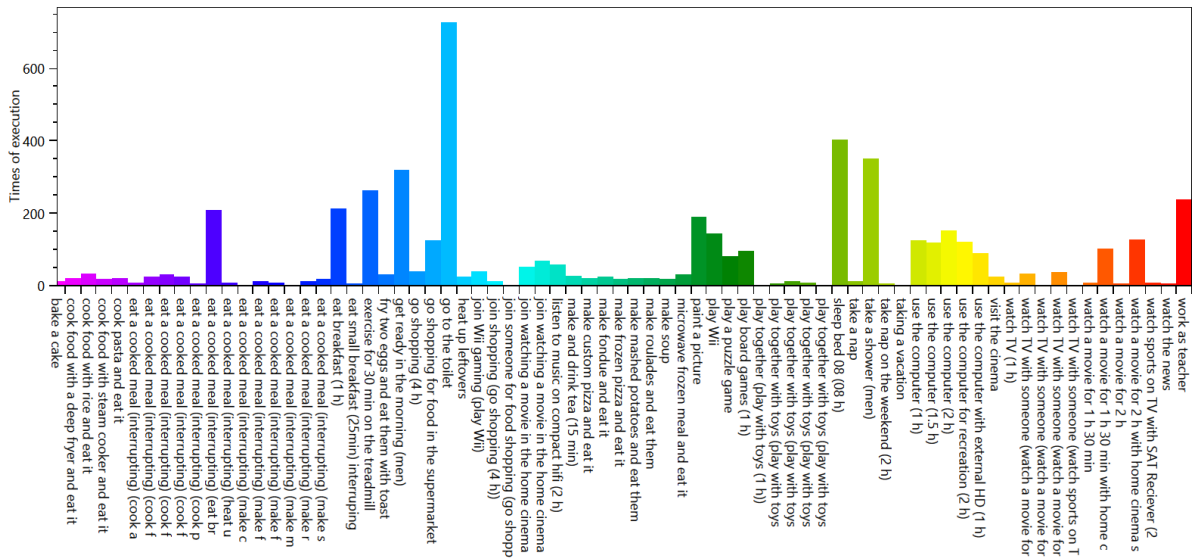
- Sleep
- Hygiene
- Food
- Media Use
- Work / School
- Games
- Sport
- Hobby
- Entertainment
- Unpaid Work
- vacation
- Events
- Contacts

# 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 - CHR20 Arthur (45 Male)







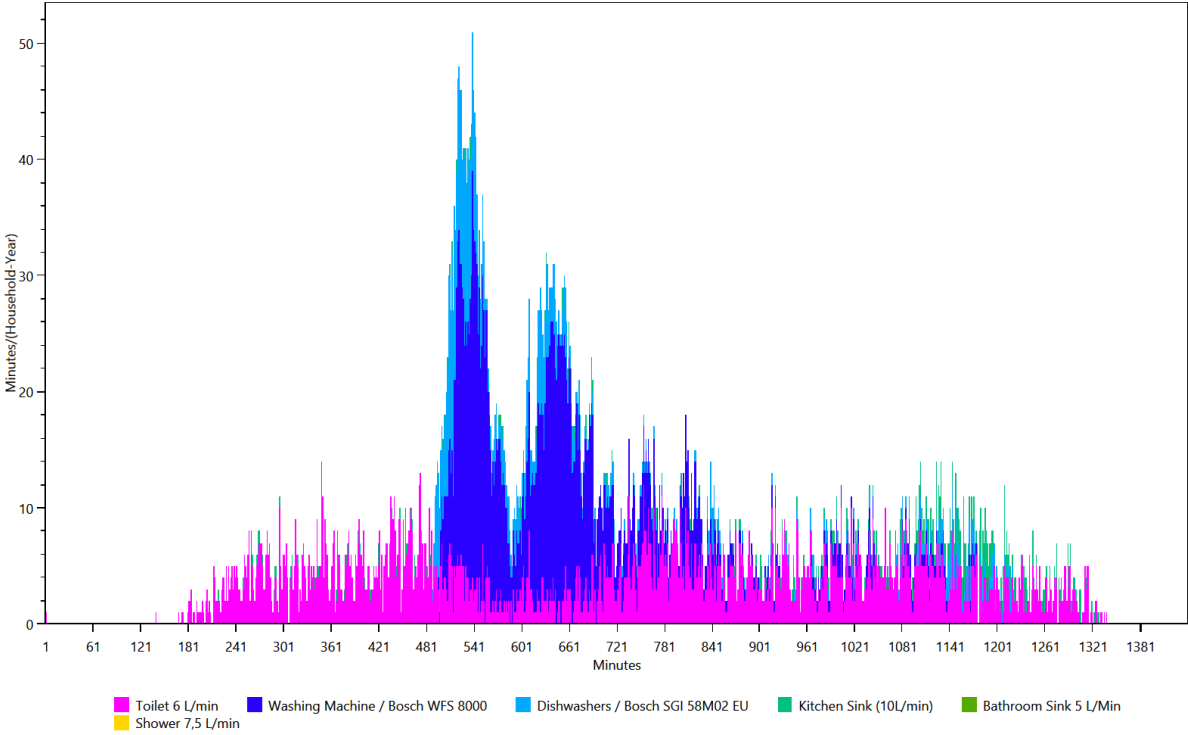


# Overview of the time of the use per load type per device

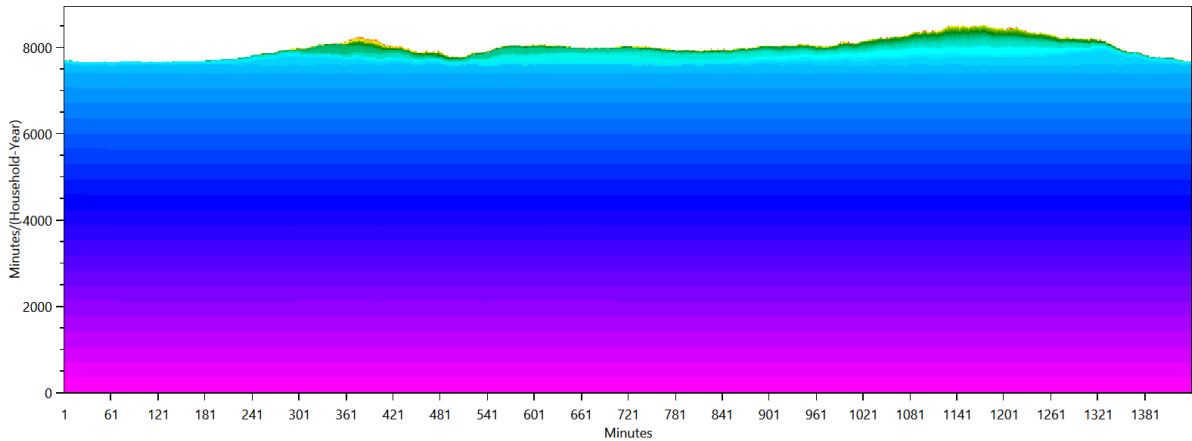
This is made from the files starting with: TimeOfUseEnergyProfiles

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

## Cold Water

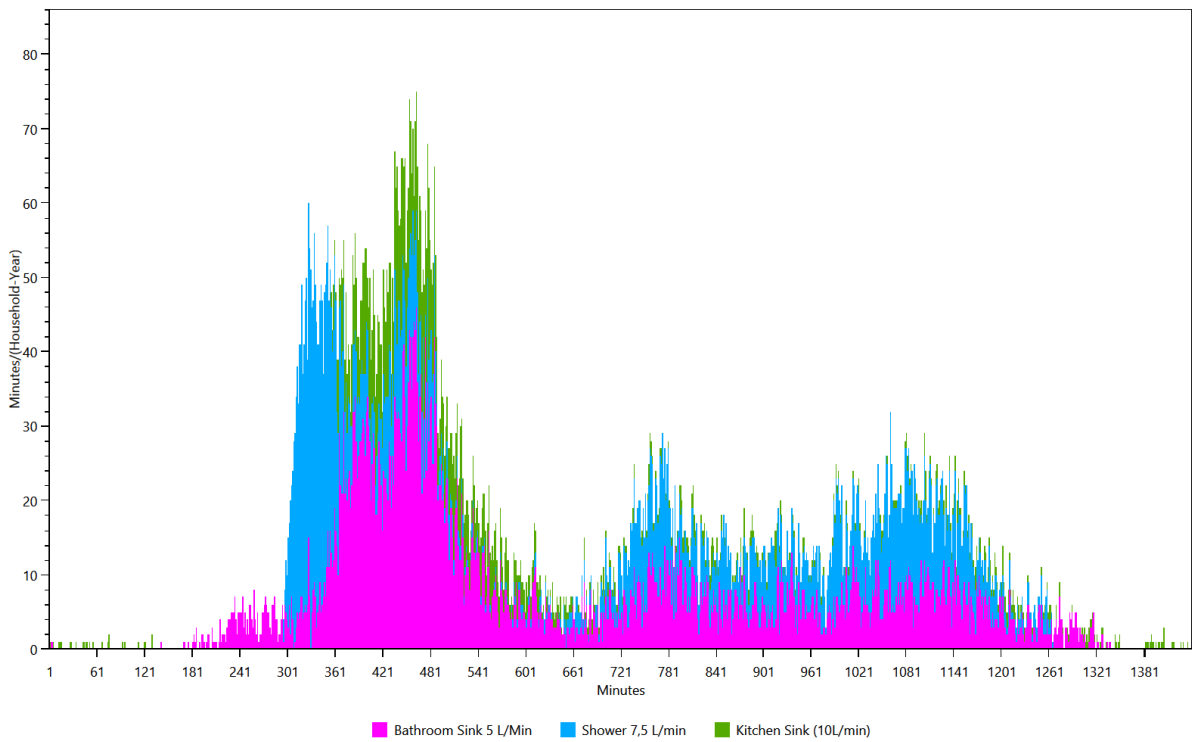


## Electricity



- TV Medion MD20123\_DE\_A
- SAT Receiver / Kathrein UFS913
- Home Cinema System / Samsung HT-D5550
- Nintendo Wii
- PC / Acer Aspire T310
- PC Monitor / Fujitsu Siemens Scaleview D19-1
- Sony PlayStation 3
- TASKalfa 180
- Microwave / Panasonic NN 5259
- Epson Stylus S20
- Yamaha RX-V667
- Router O2 Box 6431
- Electric Razor Braun Cruzer 5
- Electric Toothbrush Dondodent Professional Clean
- PC Monitor / Fujitsu Siemens Scaleview H19-1
- PC / Acer Aspire M3640
- CD/DVD Player / Philips DVDR 725 H
- Fax / Phillips Faxjet 525 Primo (IPF525)
- Samsung CLP-315W
- Hifi System / Sharp XL-HF300PH
- Kitchen radio / AEG KRC 4323 CD
- Siemens Fridge from 1987 (unknown type)
- Living Room Light (60W)
- Bauknecht GTM 2511
- Children Room Light (200W)
- Washing Machine / Bosch WFS 8000
- Dryer / Miele T 8626 WP
- Kitchen Light (100W)
- External Harddrive Iomega 3.5"
- Dishwashers / Bosch SGI 58M02 EU
- Bathroom Light (200W)
- Bathroom Mirror Light 30W (CFL)
- Canon CanoScan LIDE 110
- Oven / AEG B 33512-5-M
- Living Room Light (200W)
- Electronic hometrainer / Kettler Track Performance
- Miele DA 249-2
- Juicer / Moulinex Vitafruit
- Fondue / Unold 48746 Asia
- Single Stove Plate
- Miele DA 61
- Steam Cooker / Phillips HD9140
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove front right- full power
- Egg Cooker / Russell Hobbs 14048-56 Stylo
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen-stove right hind
- Ricecooker / Tristar RK-6112
- Osram Light Bulb Classic A 60W
- Siemens VS 91143 S Super 911
- Hair Dryer / Braun Satin Pro 2200 Ion Care
- Deep Fryer / DeLonghi F 28311.W Rotofritteuse
- Lamp Ikea V1017 Jansjo
- Electric Kettle / Petra WK288 1.5L
- Toaster / Bosch TAT8SL1
- Food Slicer / DOMO Schneidemaschine DO521S
- Nespresso Coffee Machine, Single Cup
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove left hind - full power
- Shredder / Dahle PaperSafe 21082
- Handmixer / Phillips Robust HR 1581
- Bedroom Light (200W)
- Braun Multiquick 3 MR 300 Soup

## Warm Water

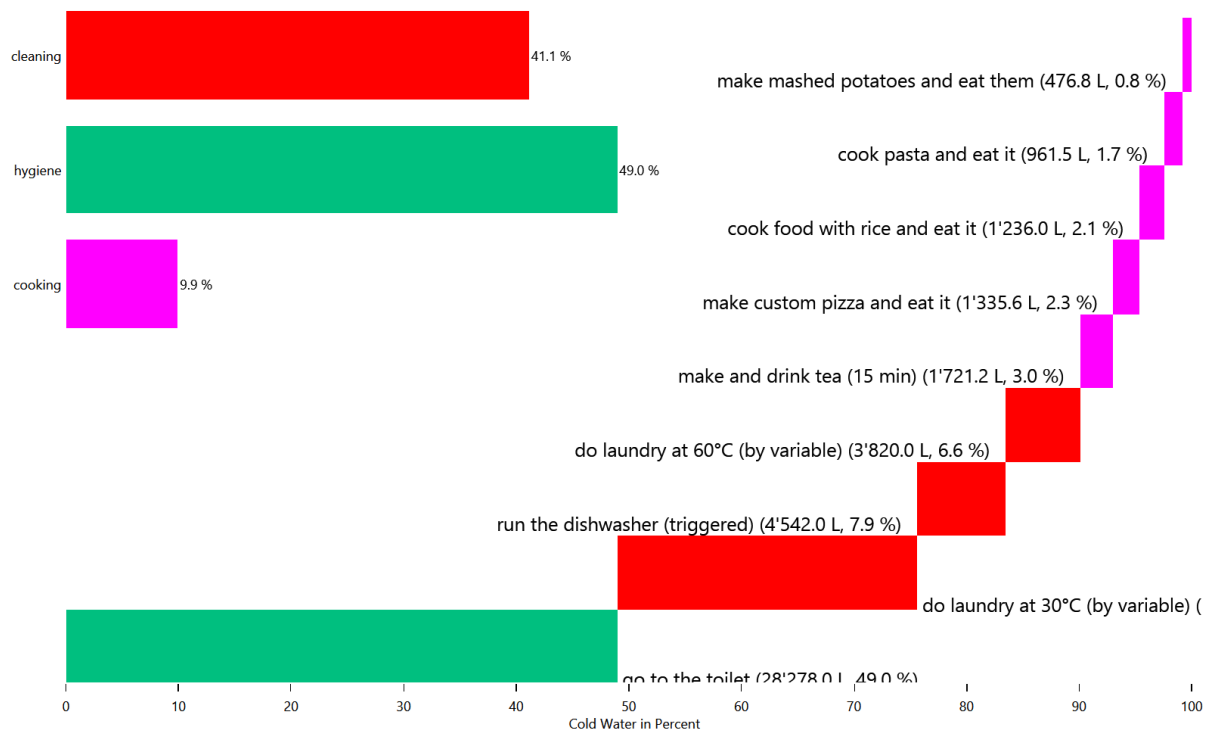


# Energy/Resource use distribution per load type per affordance

This is made from the files starting with: AffordanceEnergyUse

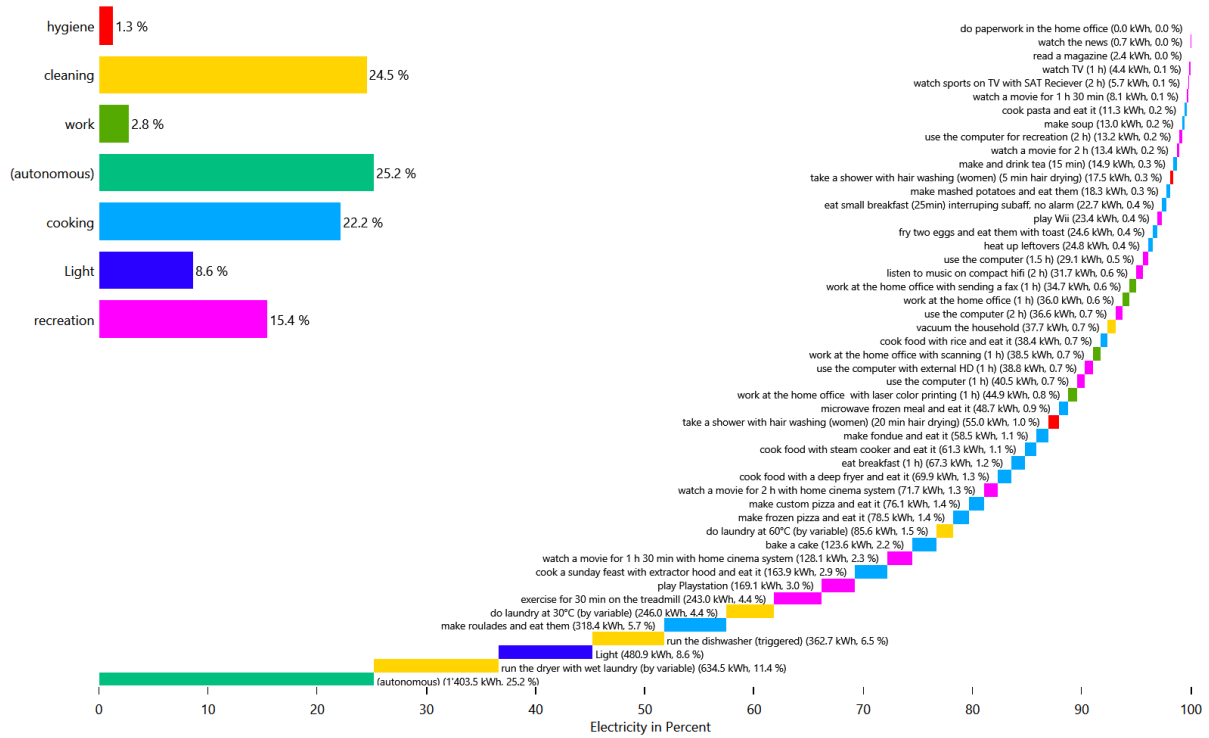
This shows the distribution of the energy/ressource use to each affordance by load type.

## HH0 - Cold Water

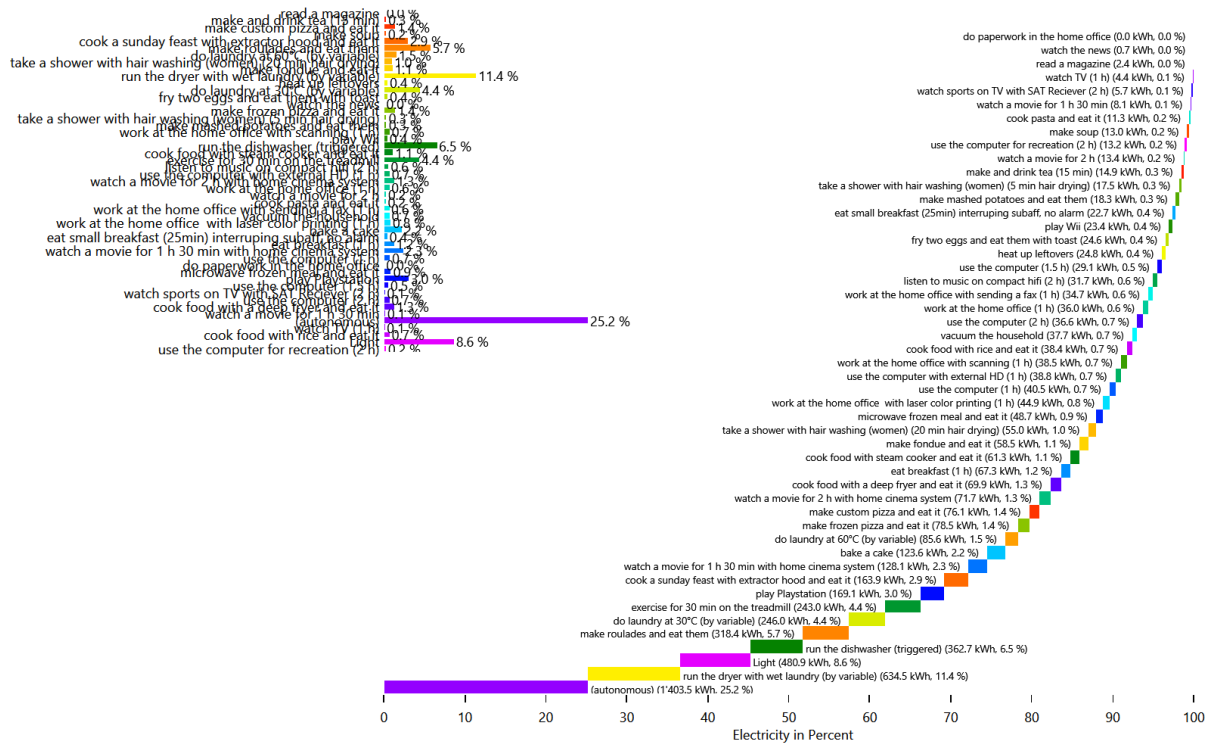




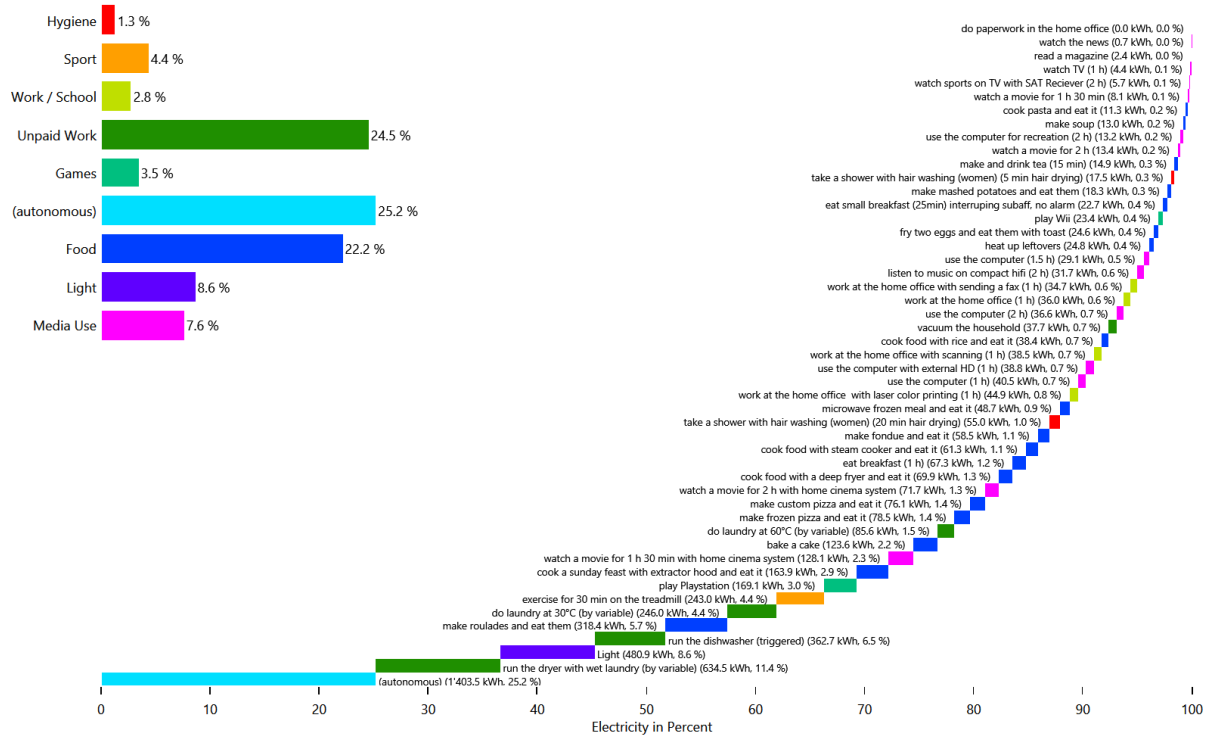
# HH0 - Electricity



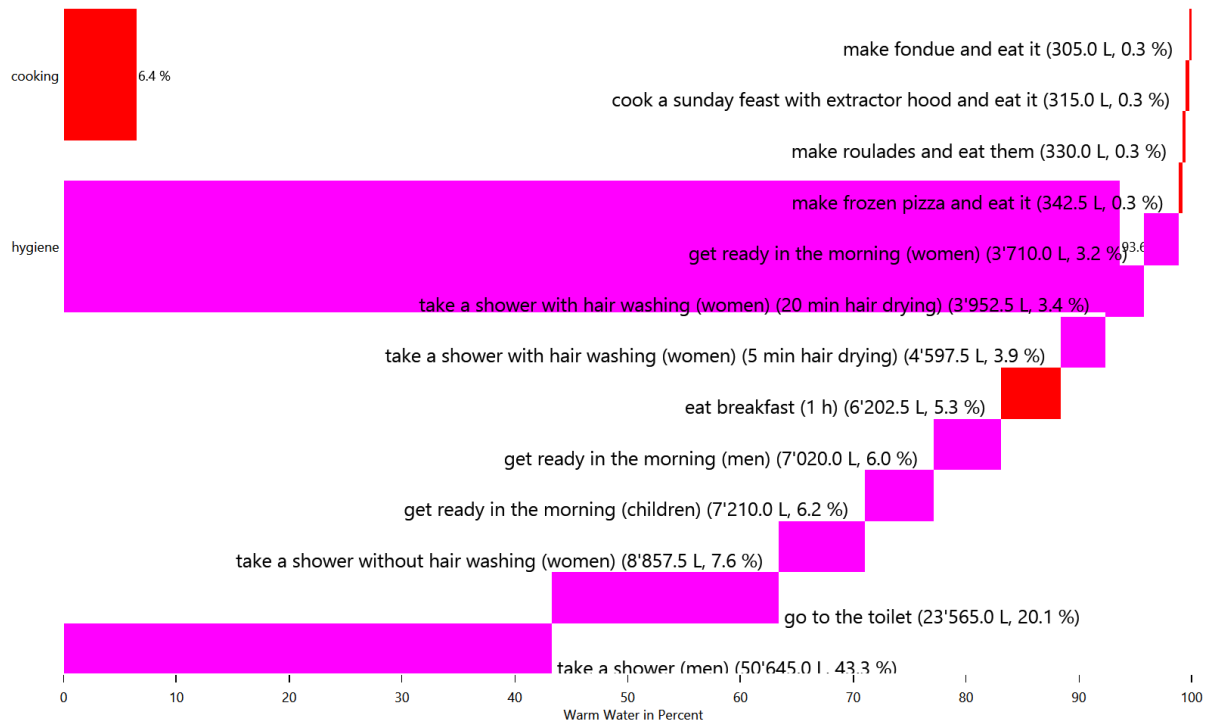
# HH0 - Electricity



## HH0 - Electricity

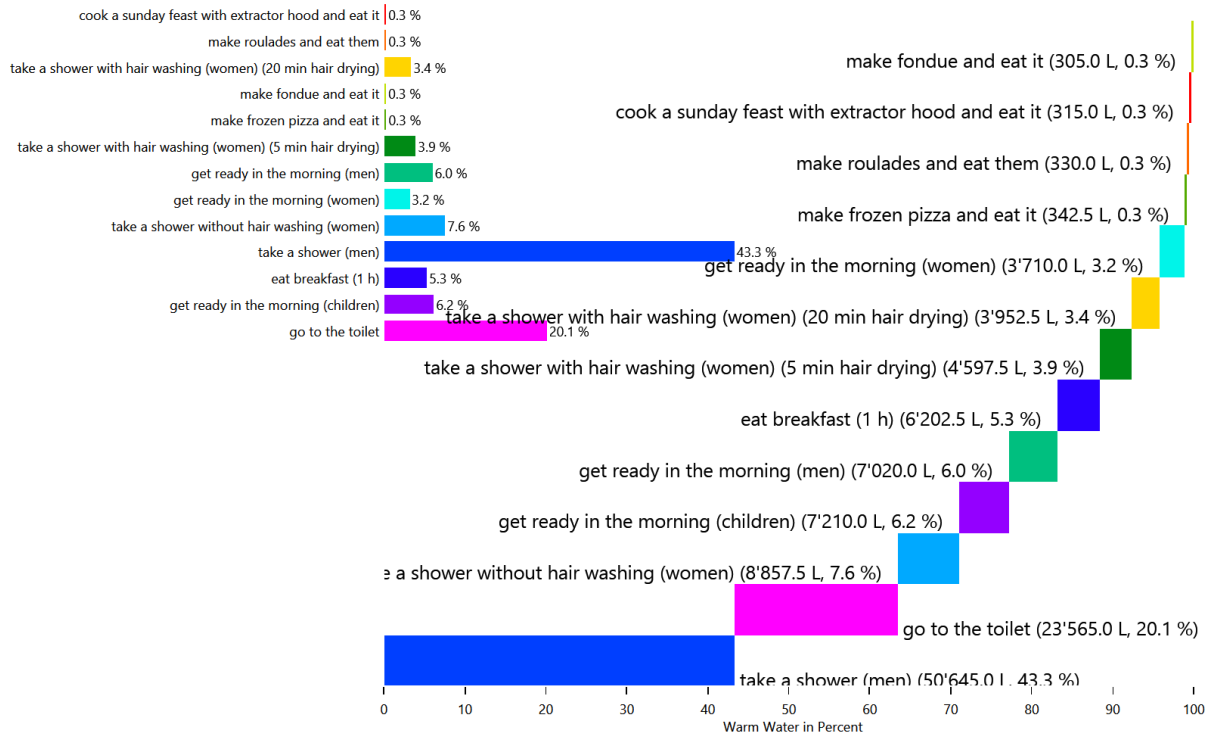


## HH0 - Warm Water

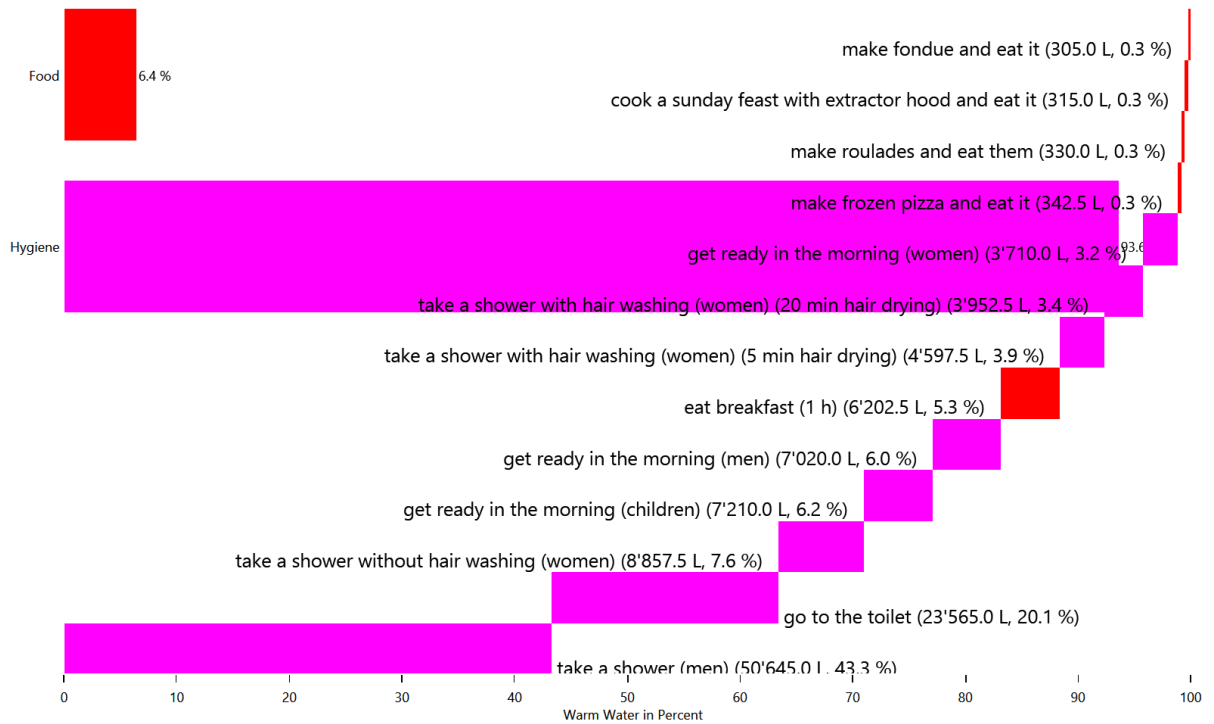




## HH0 - Warm Water



## HH0 - Warm Water

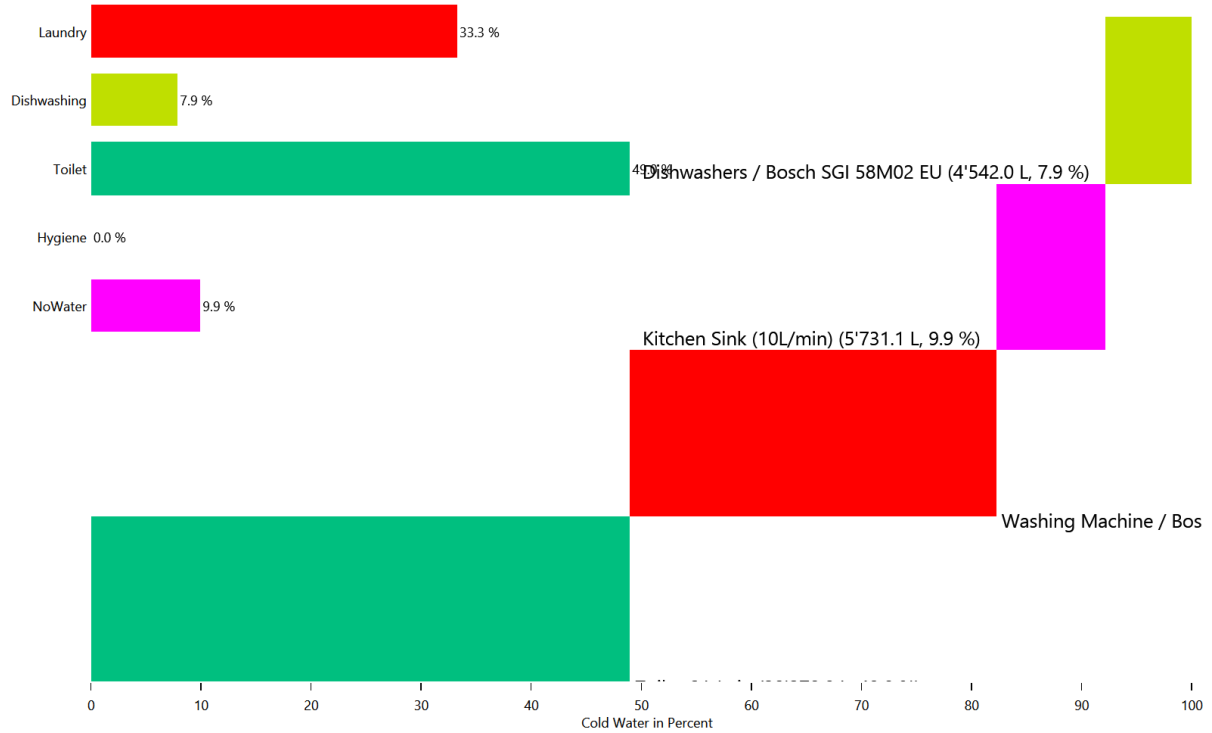


# Energy use for each load type for each device

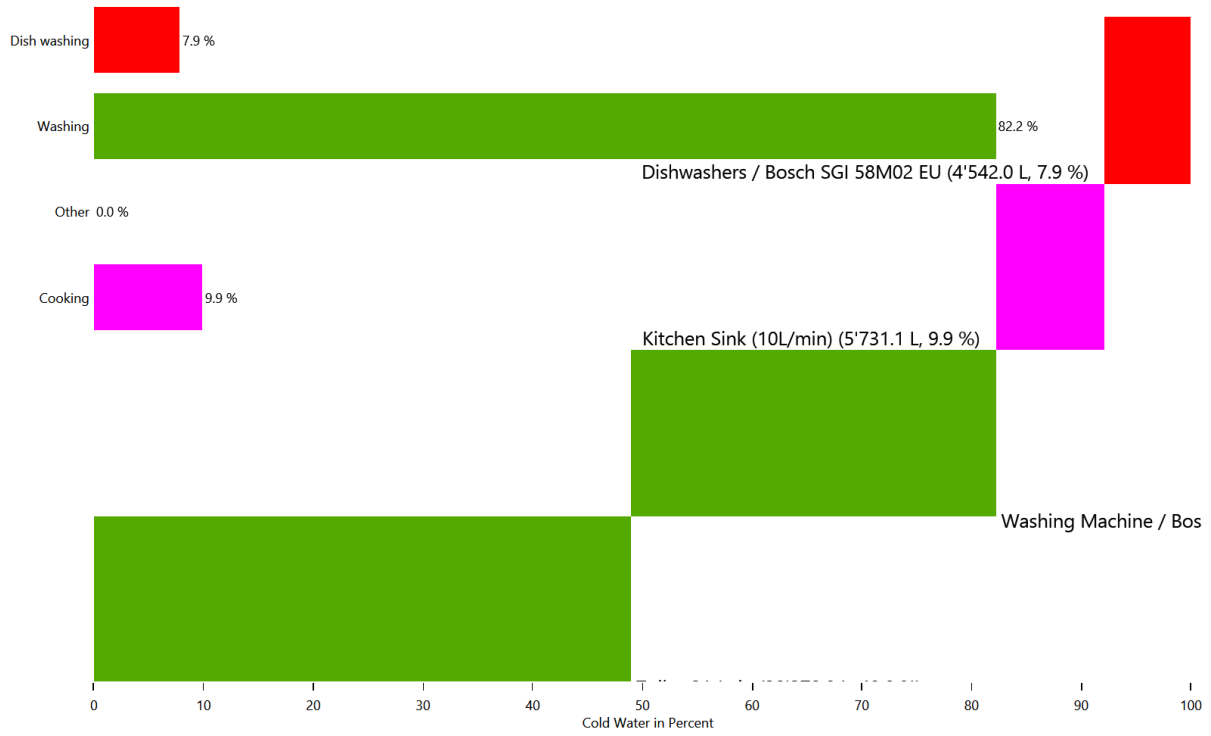
This is made from the files starting with: DeviceSums

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

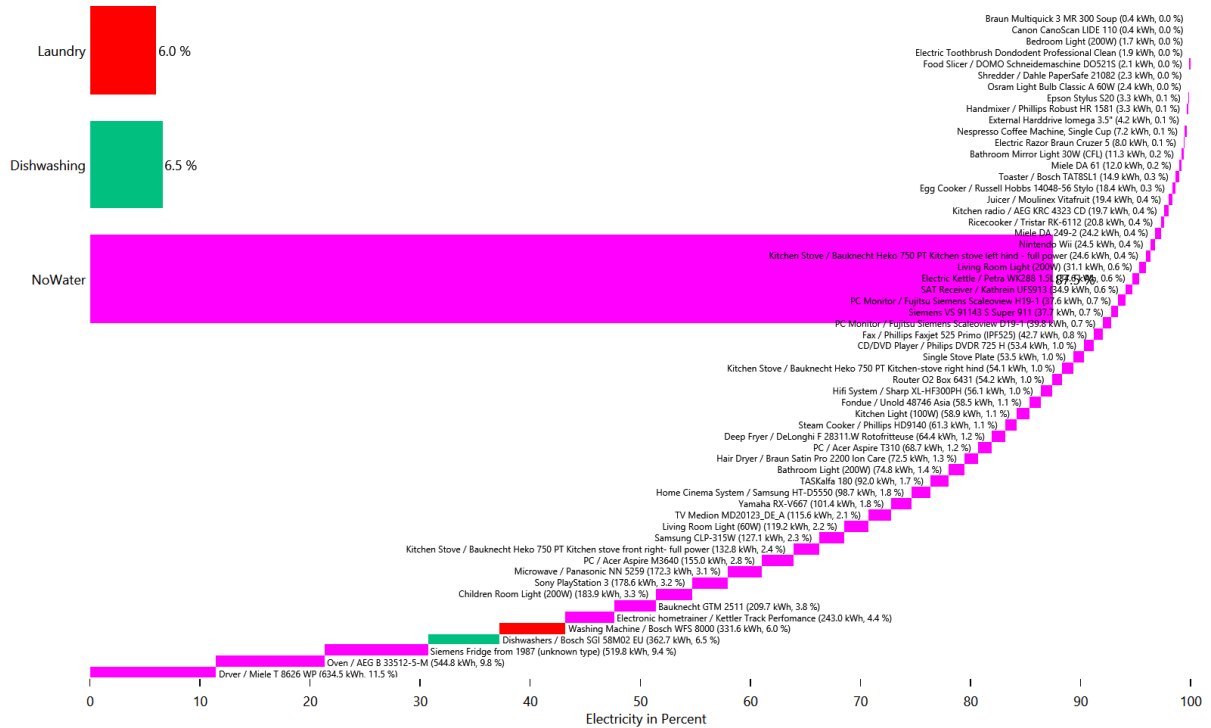
## Cold Water



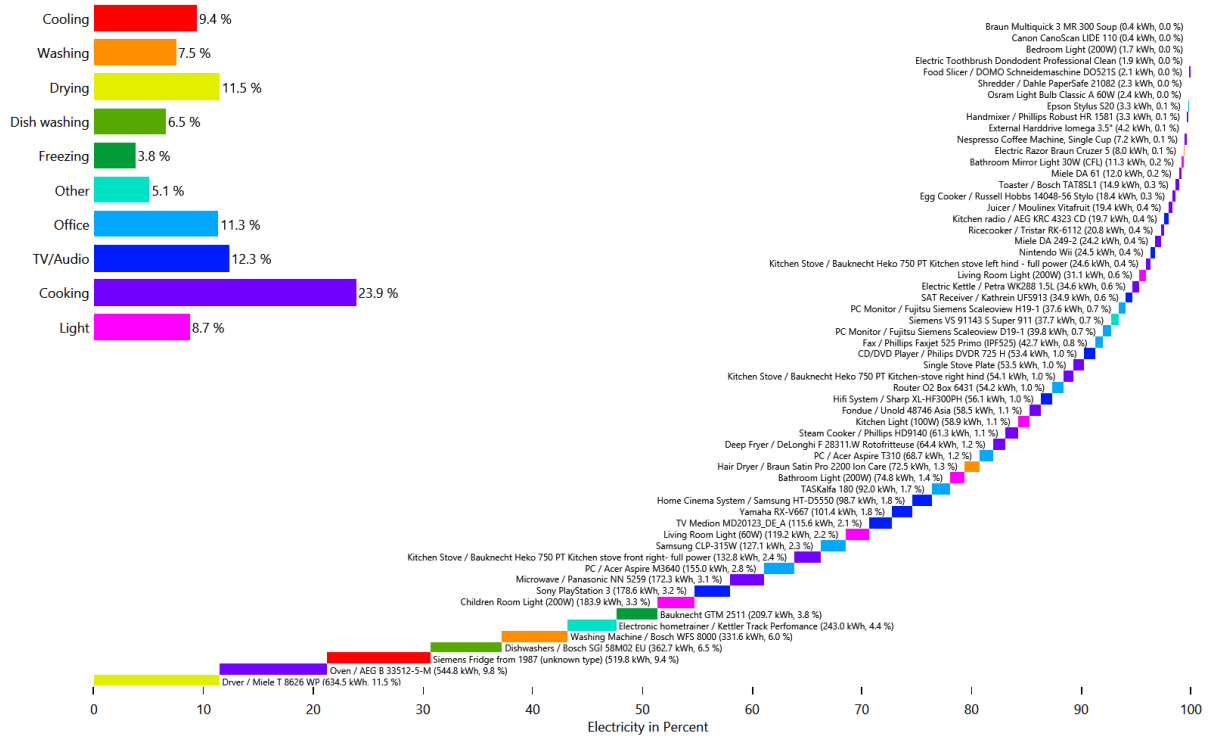
# Cold Water



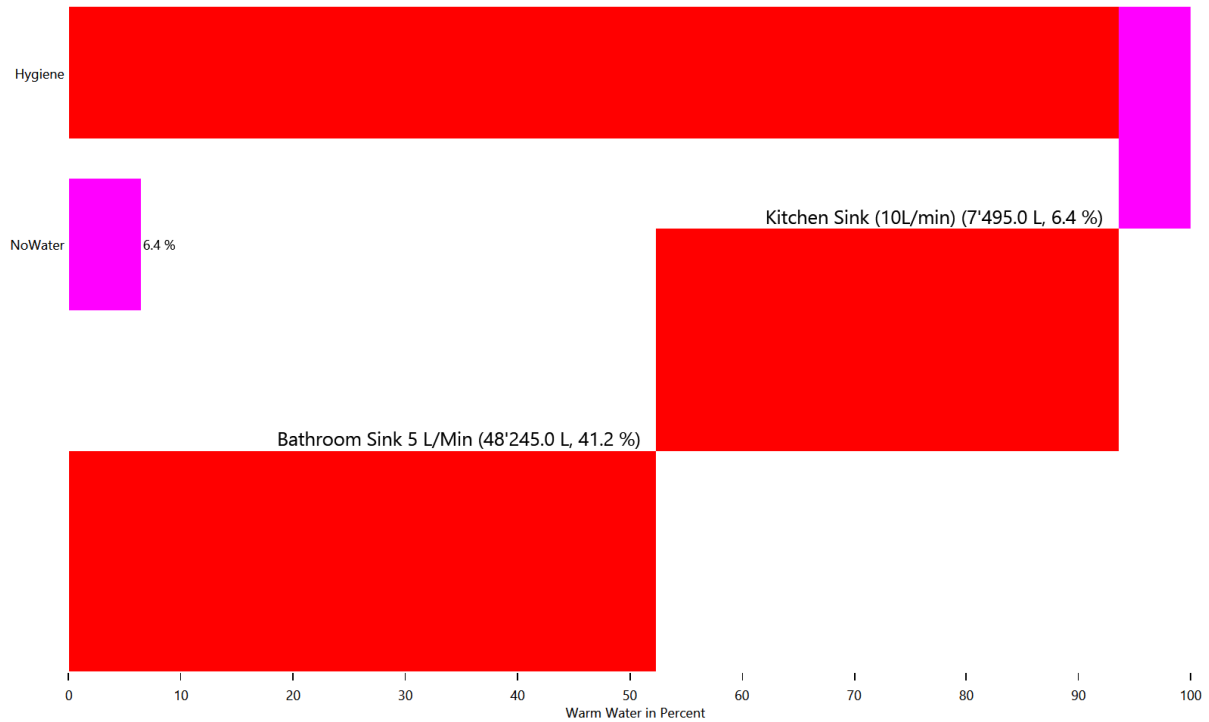
# Electricity



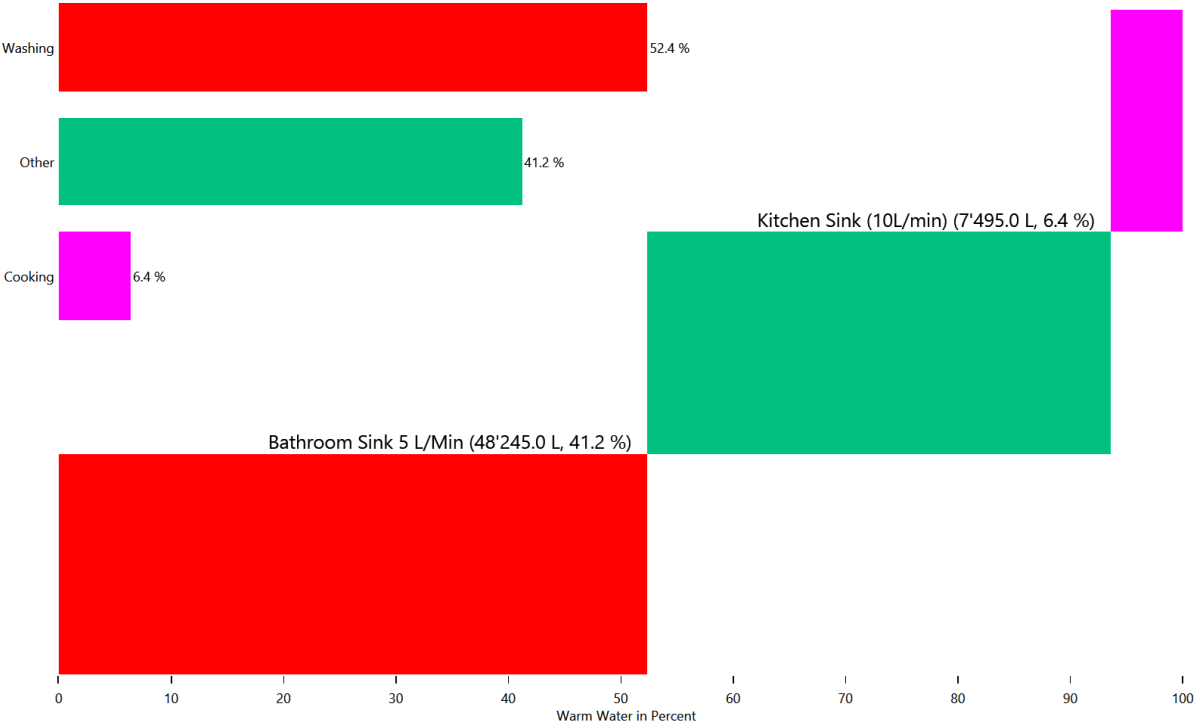
# Electricity



# Warm Water



# Warm Water

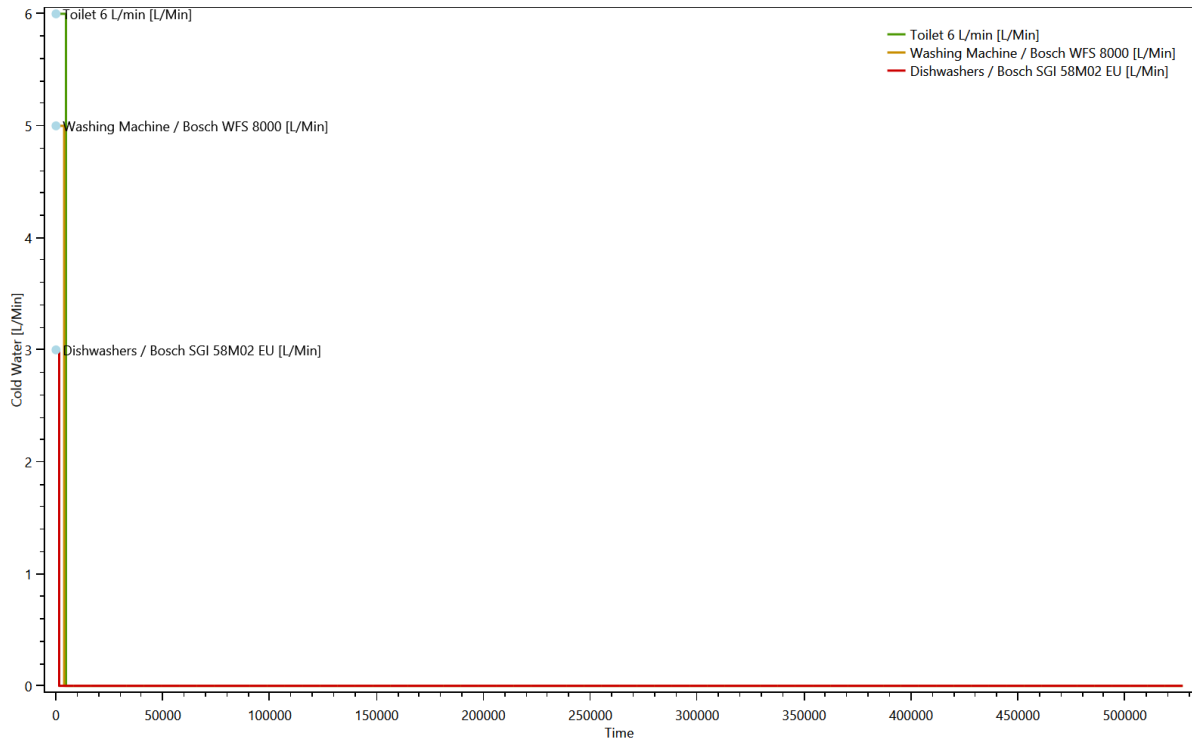


# Duration curve for each device for each load type

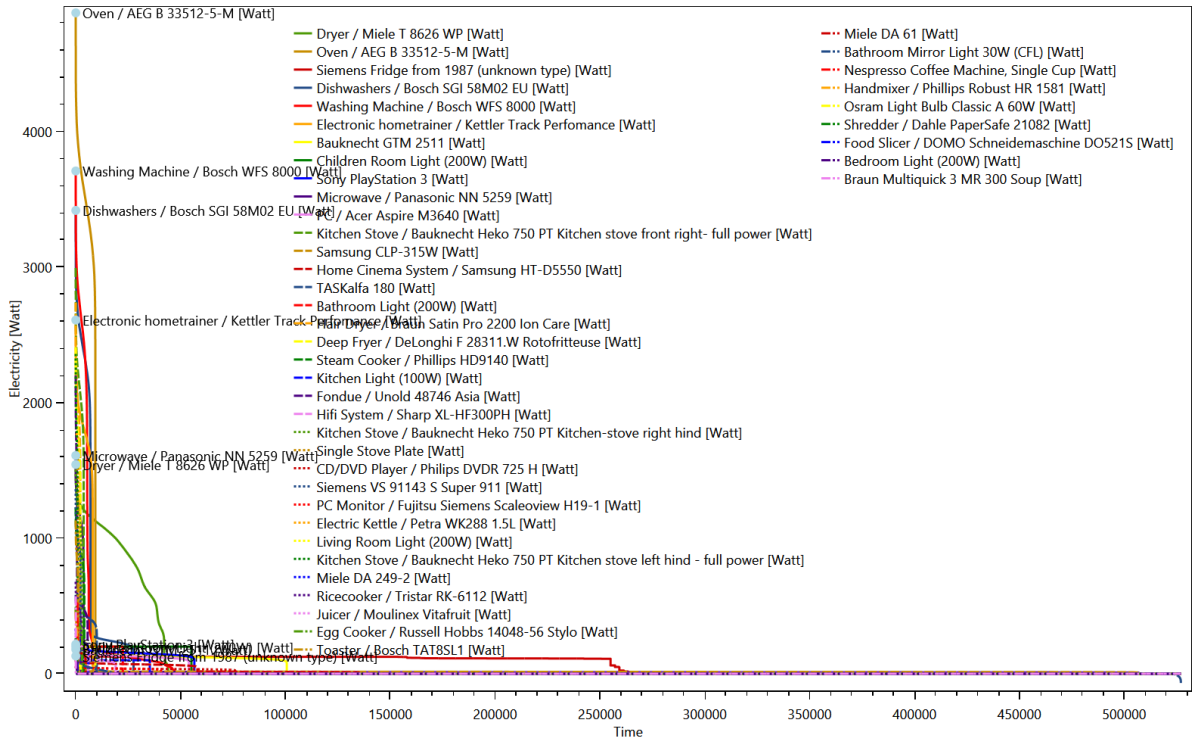
This is made from the files starting with: DeviceDurationCurves

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

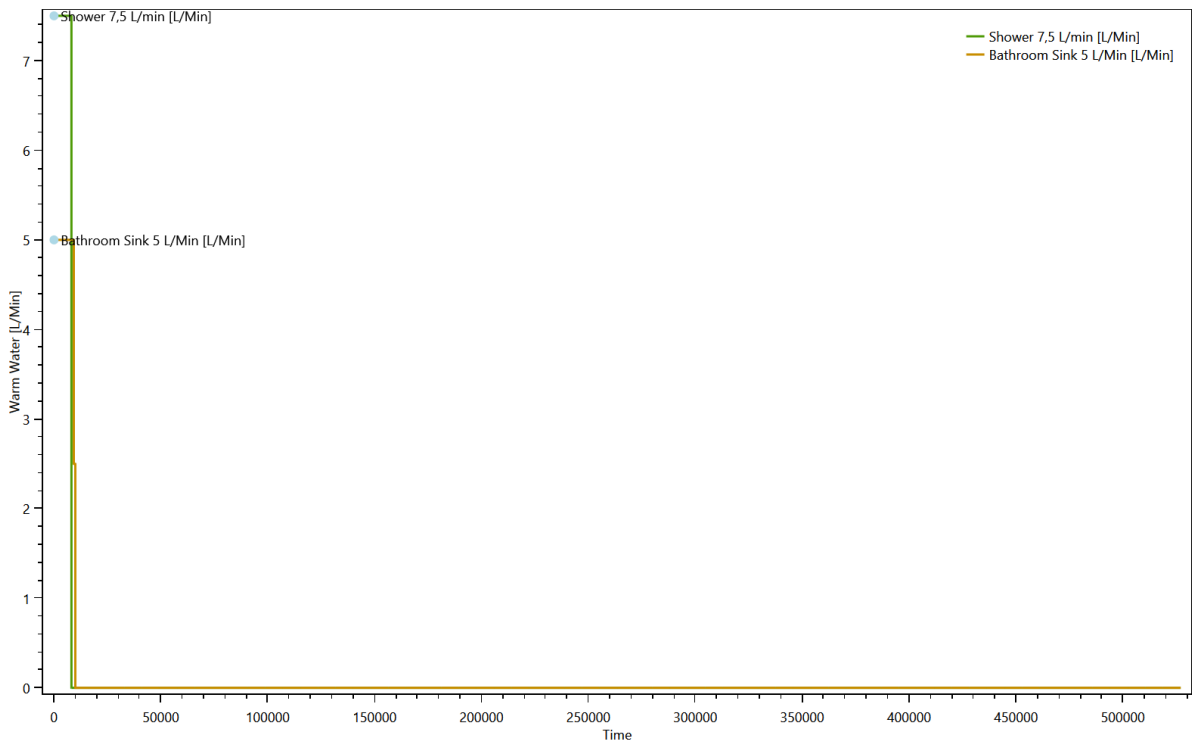
## Cold Water



## Electricity



## Warm Water

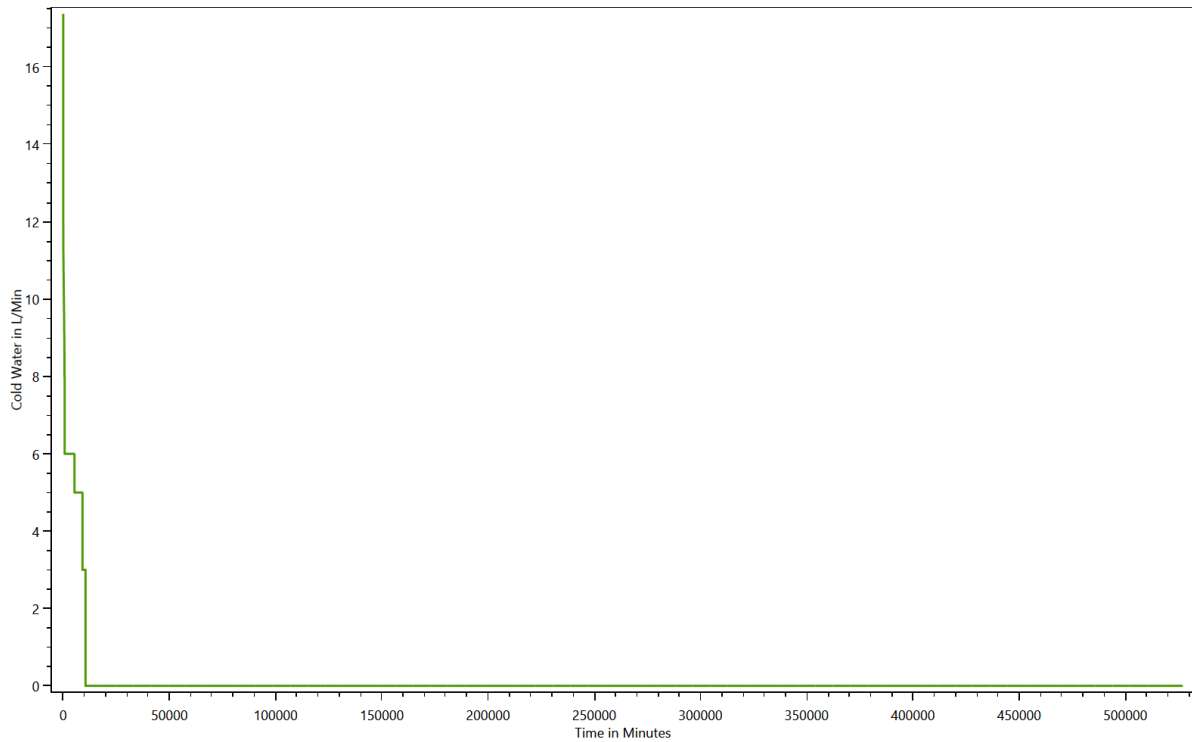


# Duration curve for each load type

This is made from the files starting with: DurationCurve

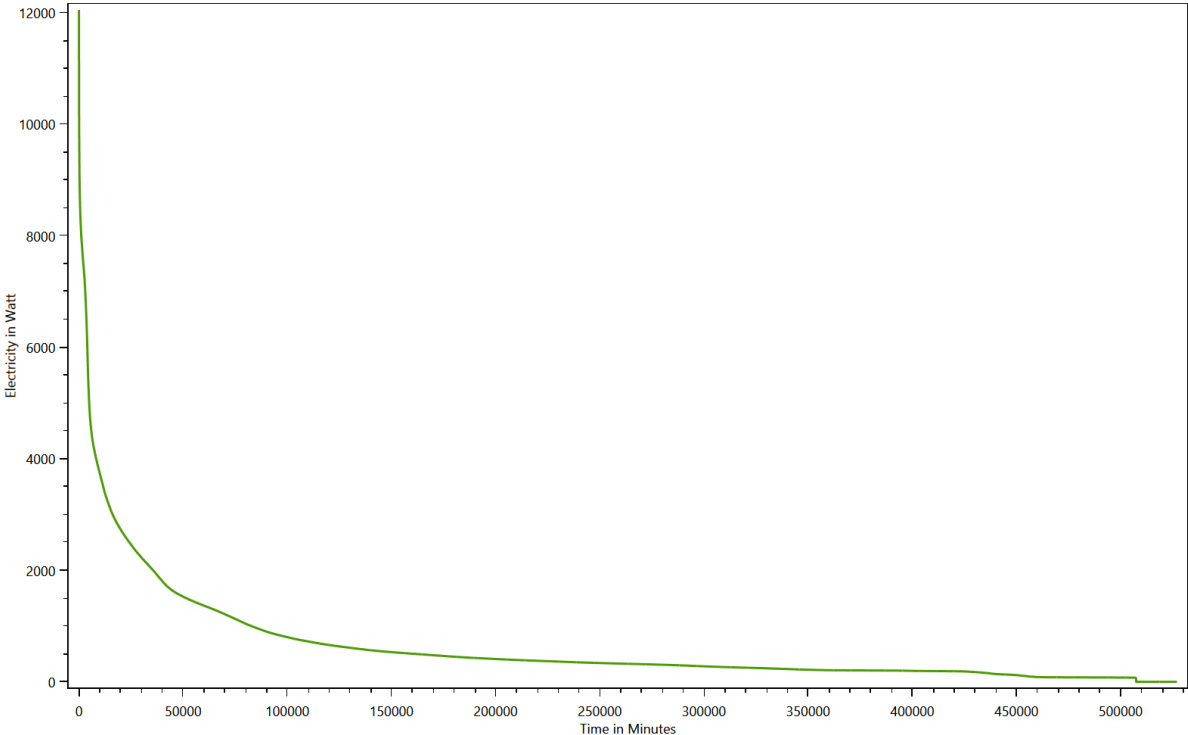
The duration curve show the duration curve for the entire household to give an overview of the power consumption.

## Cold Water

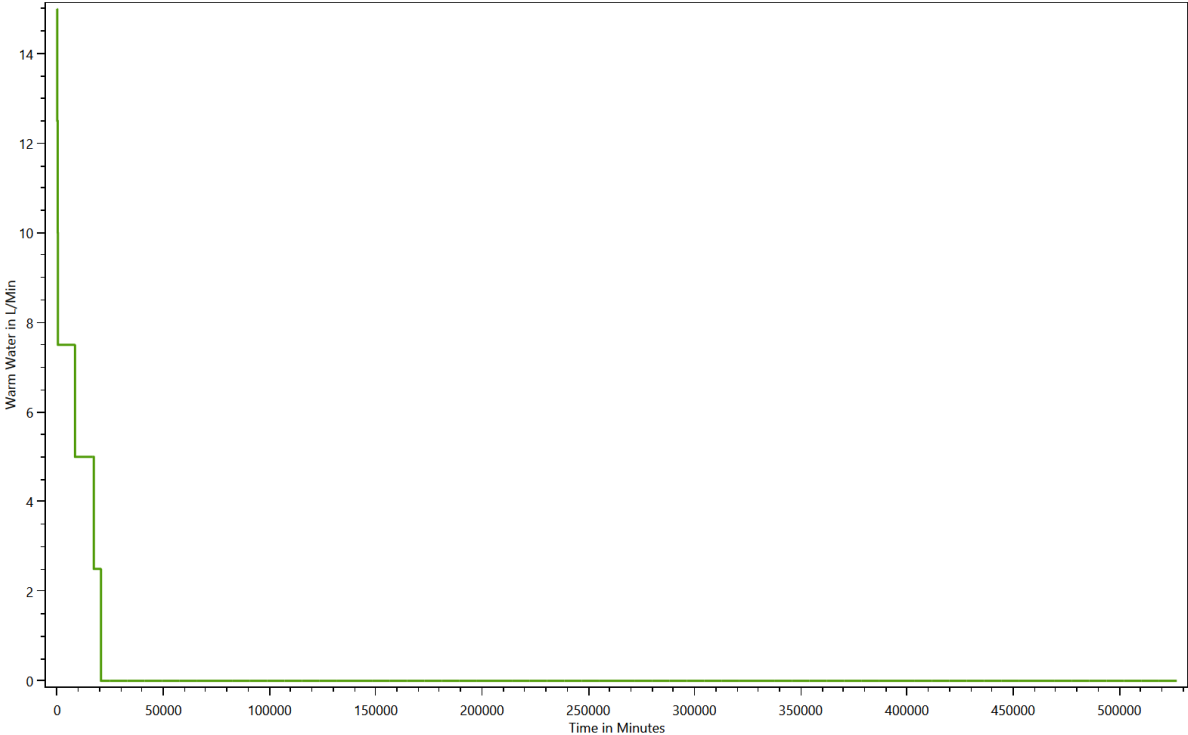




# Electricity



# Warm Water

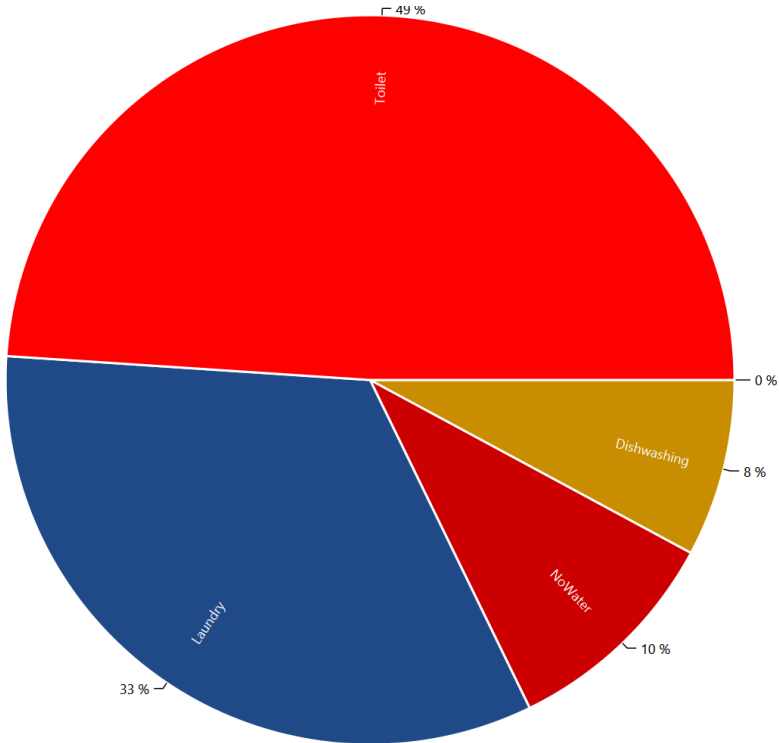


# Grouped energy use for each load type for each device

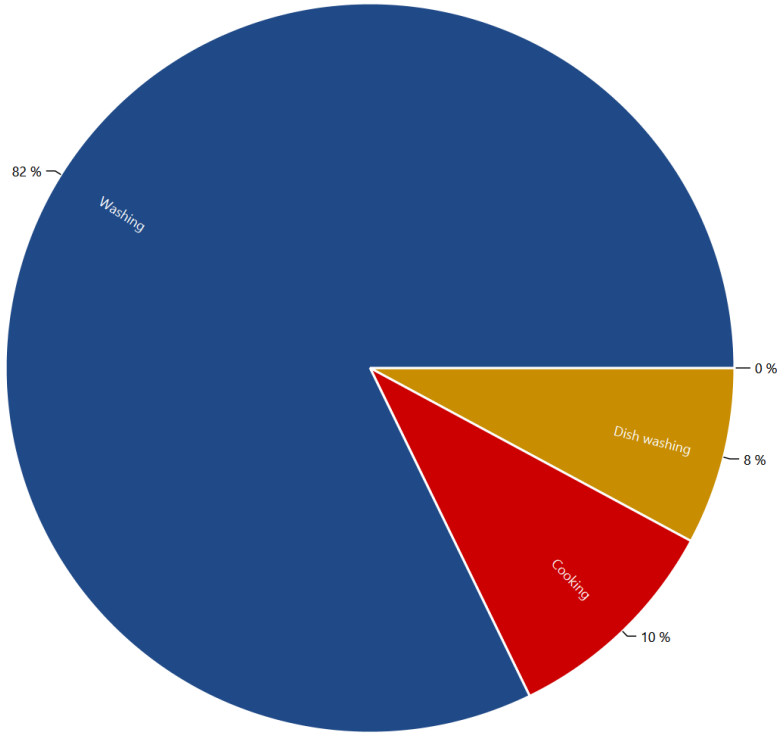
This is made from the files starting with: DeviceTaggingSet

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

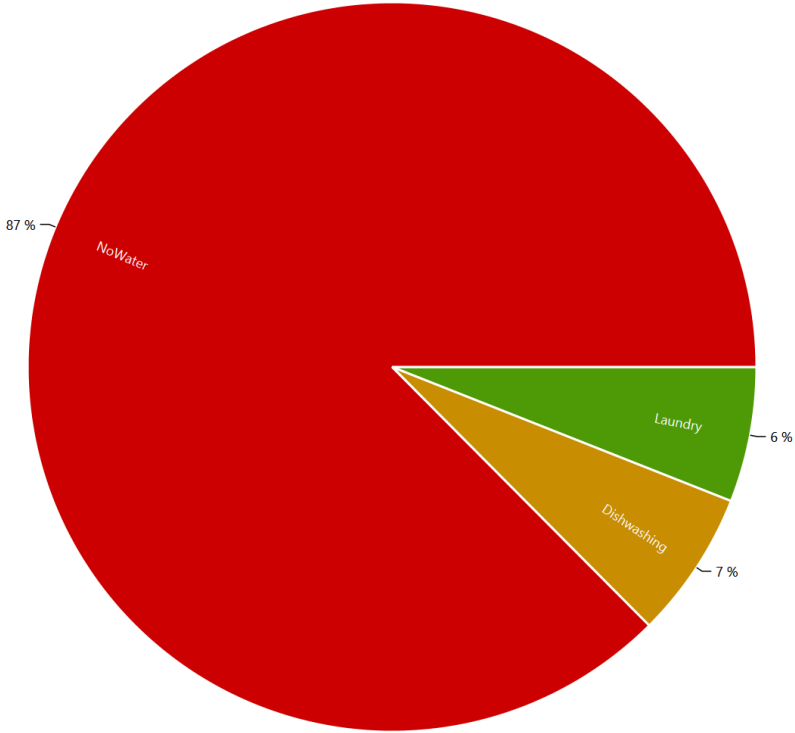
## HH0 - Destatis Water Usage Statistics - Cold Water



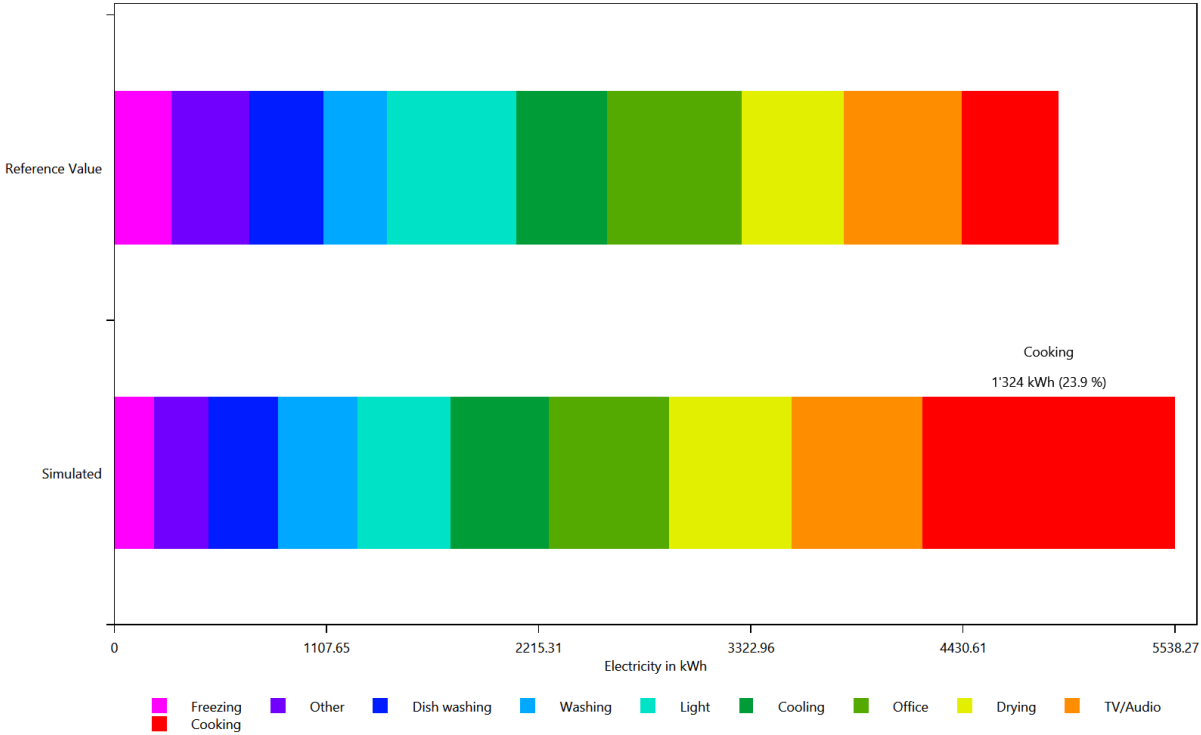
HH0 - Energieagentur - Cold Water



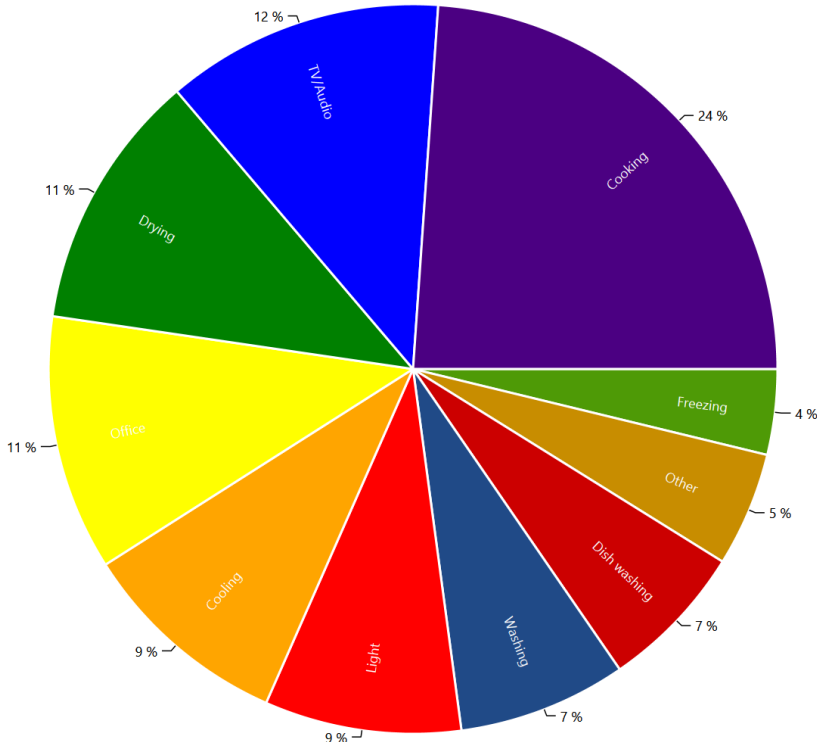
HH0 - Destatis Water Usage Statistics - Electricity



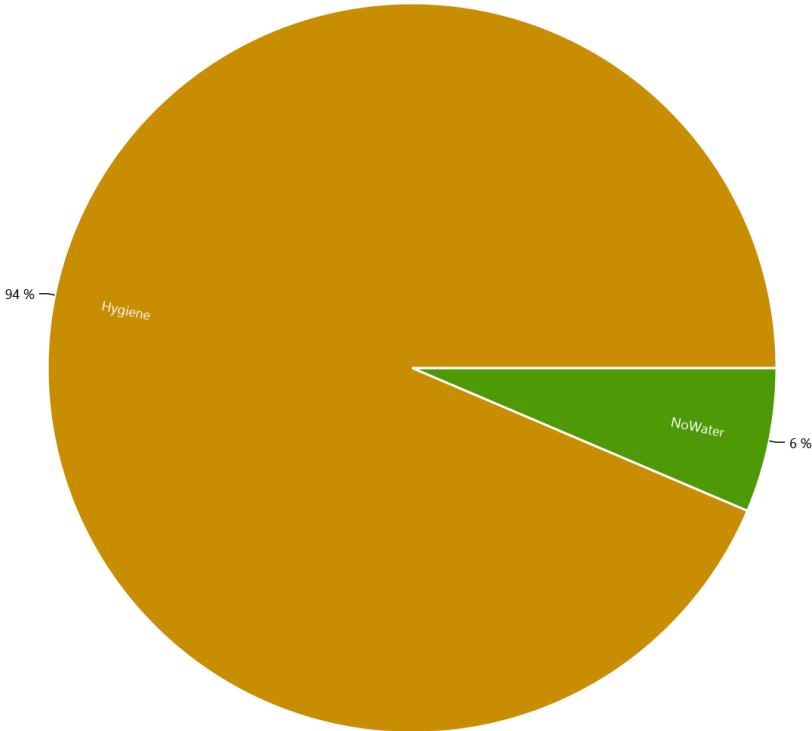
# HH0 - Energieagentur - Electricity



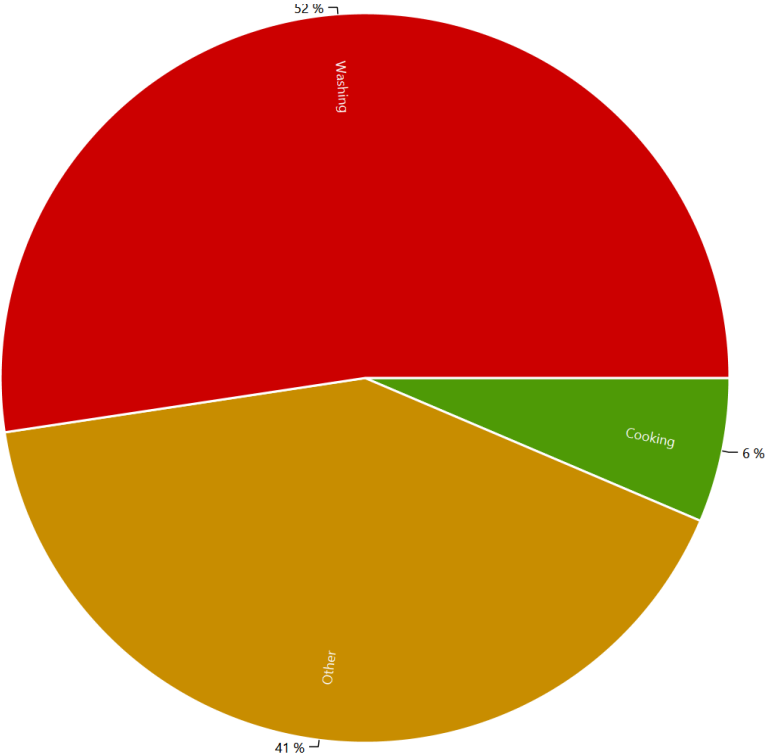
# HH0 - Energieagentur - Electricity



HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

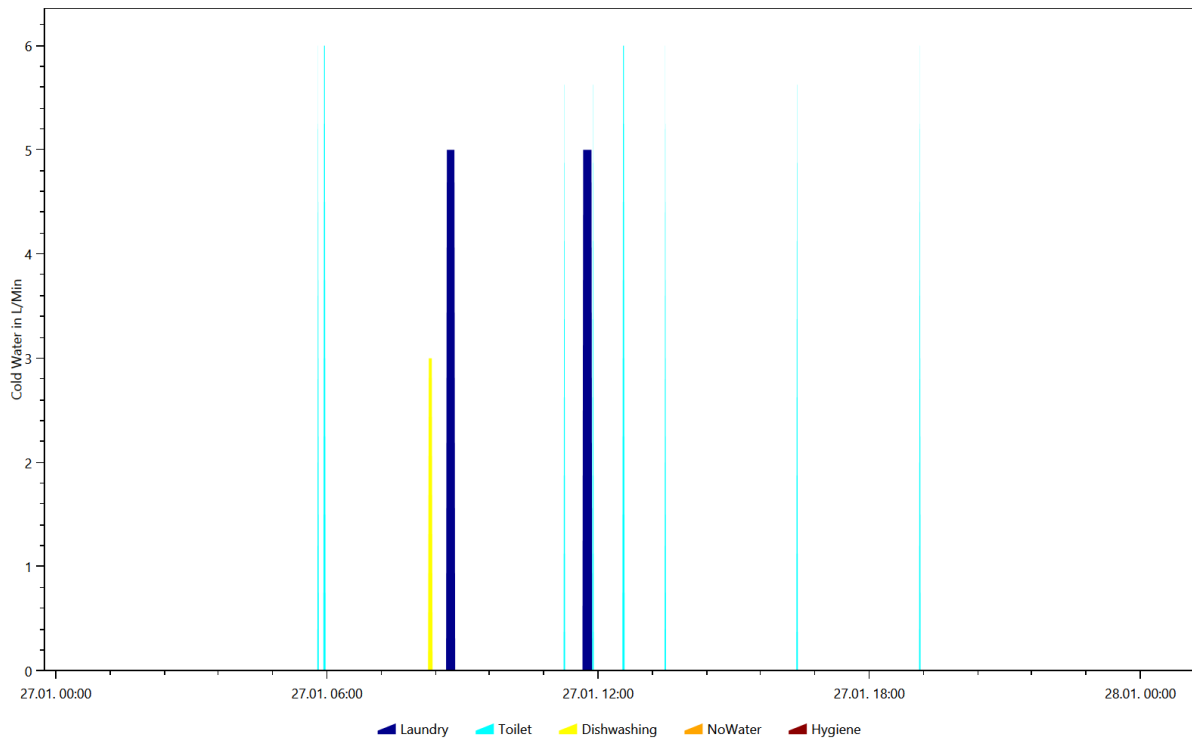


# Example of the device profiles for each load type

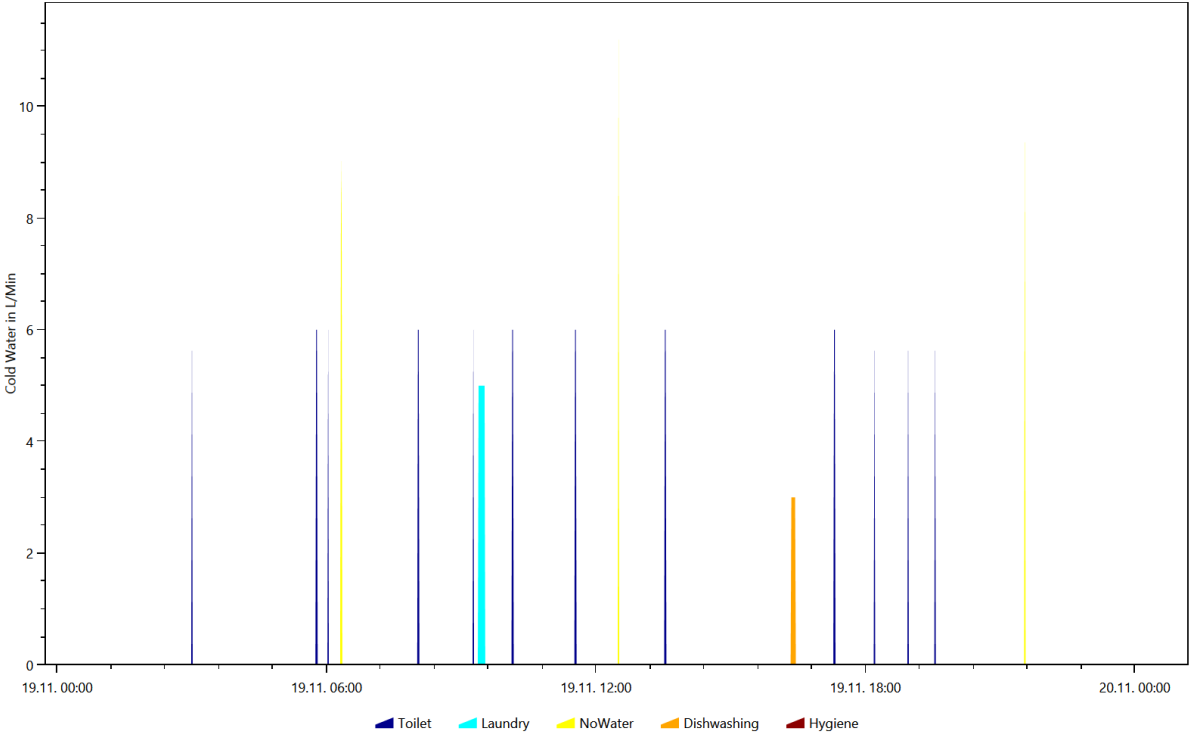
This is made from the files starting with: DeviceProfiles

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

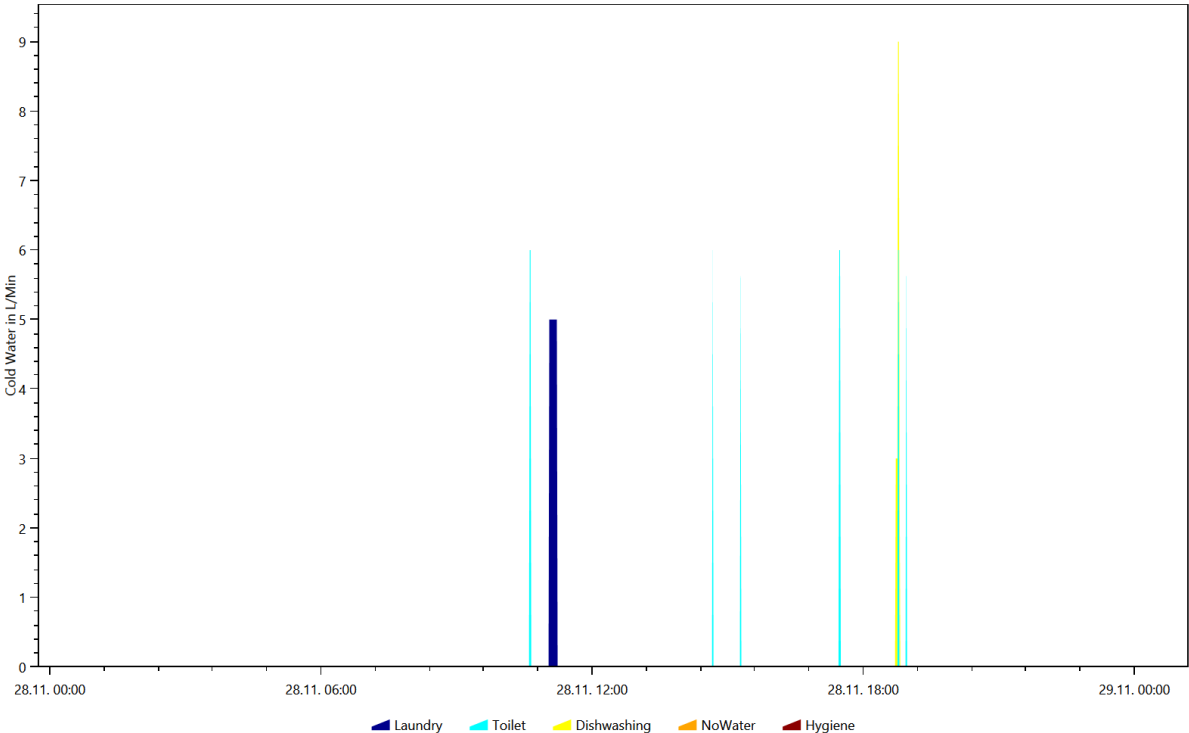
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.27



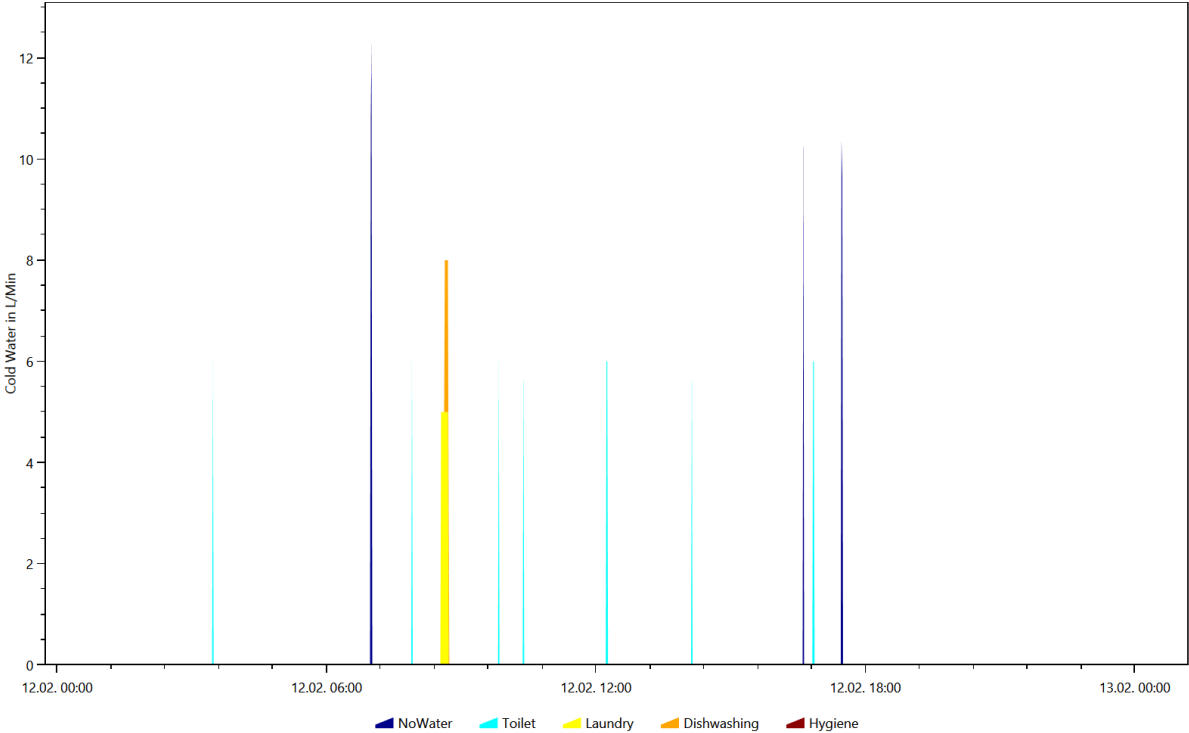
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.19



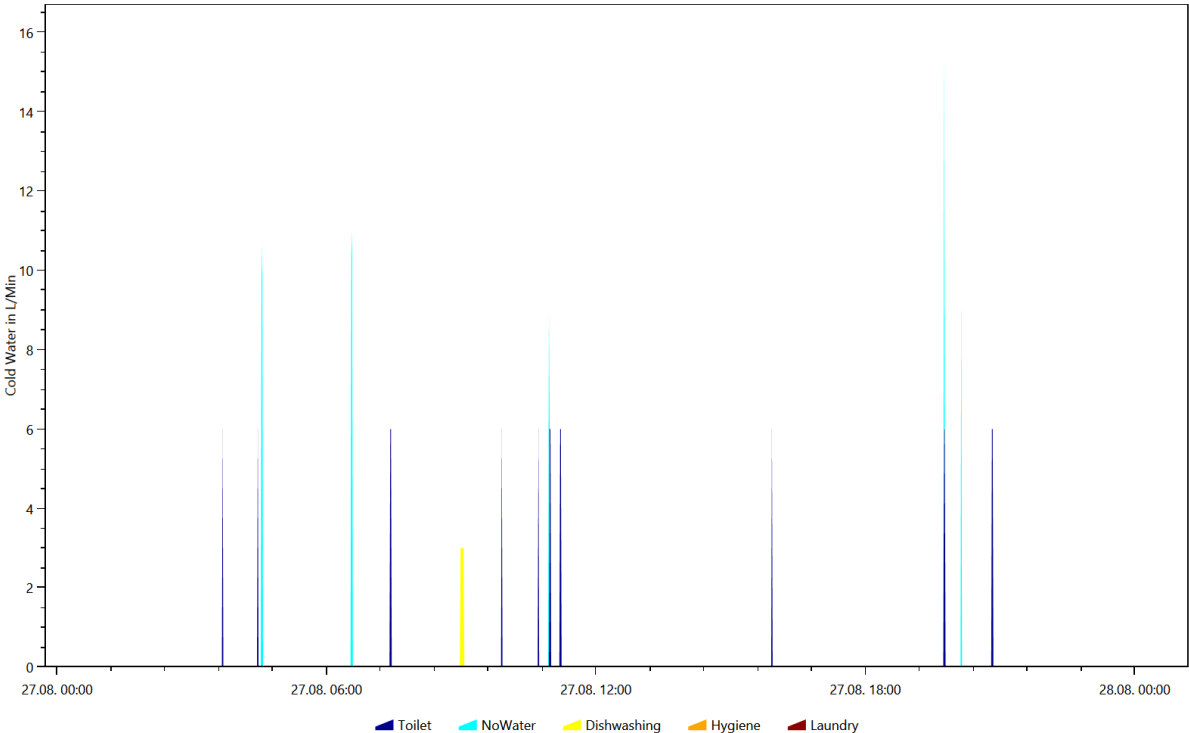
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.28



### Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.12

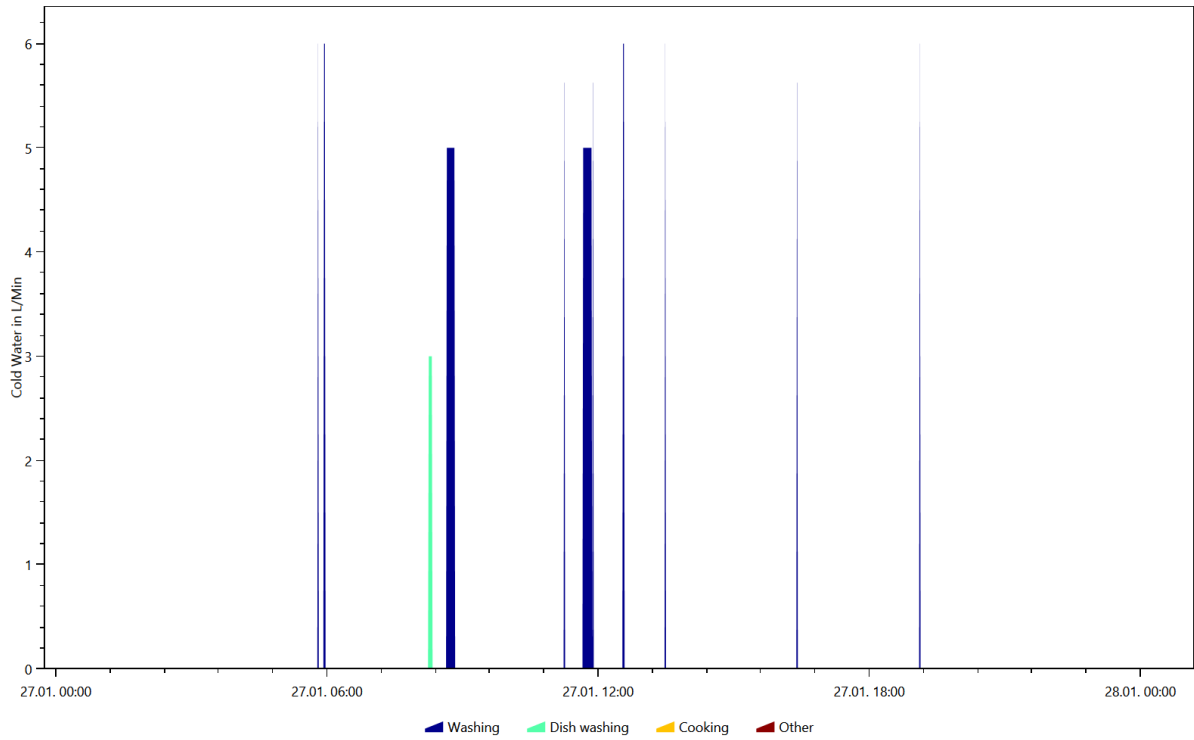


### Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.27

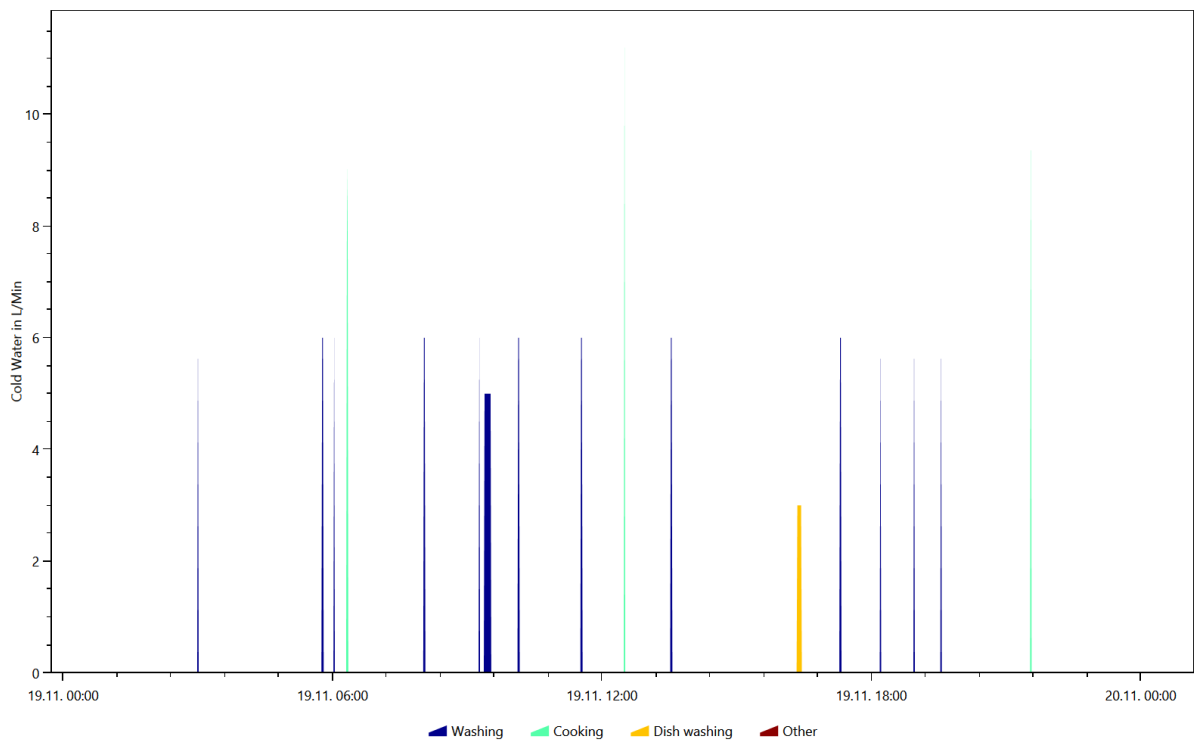




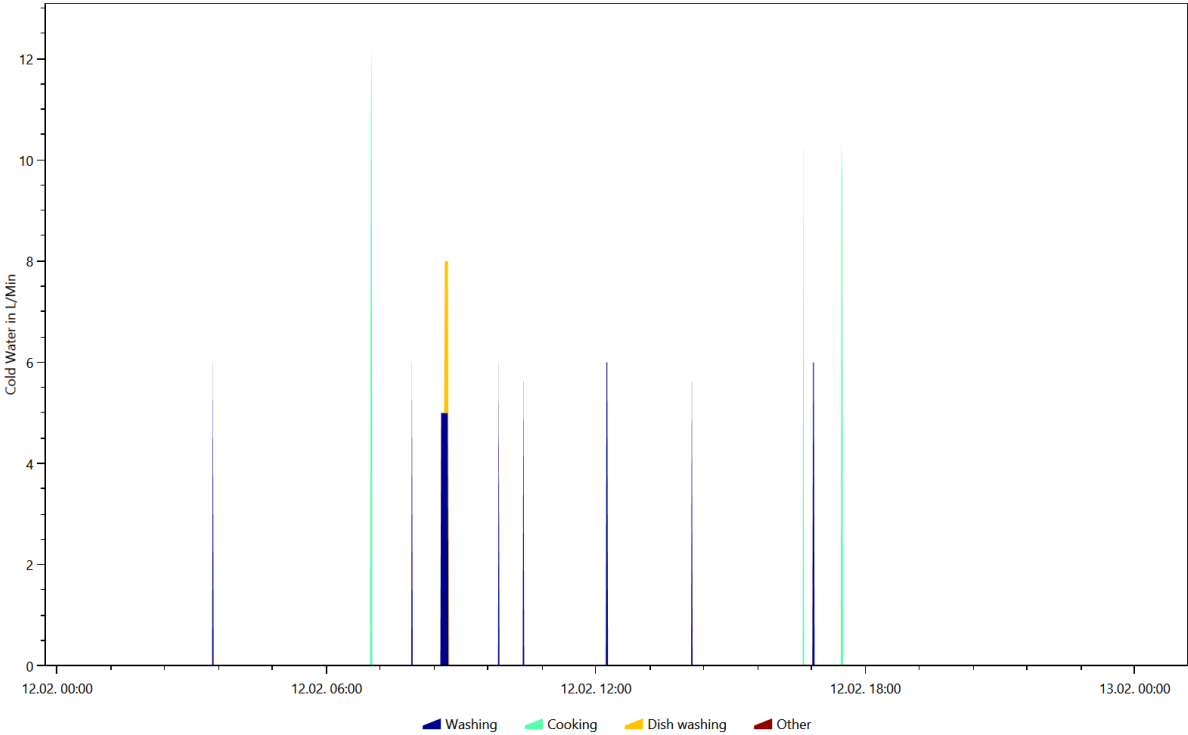
## Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.27



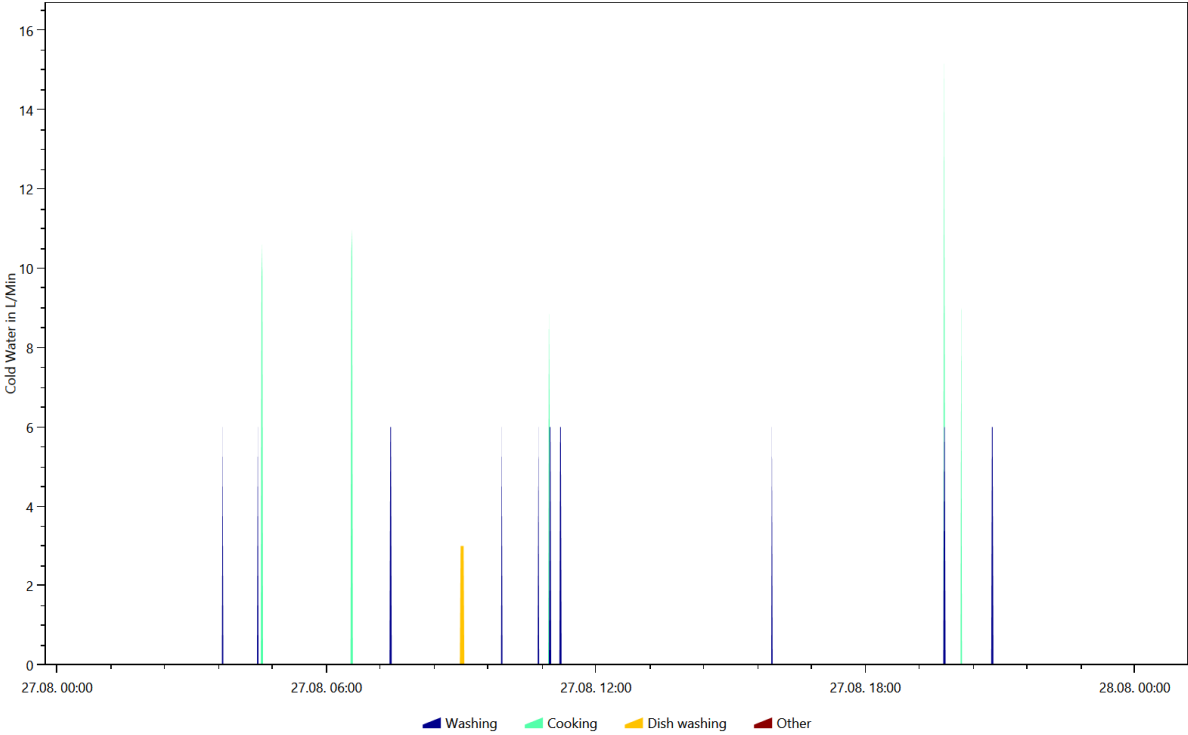
## Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.11.19



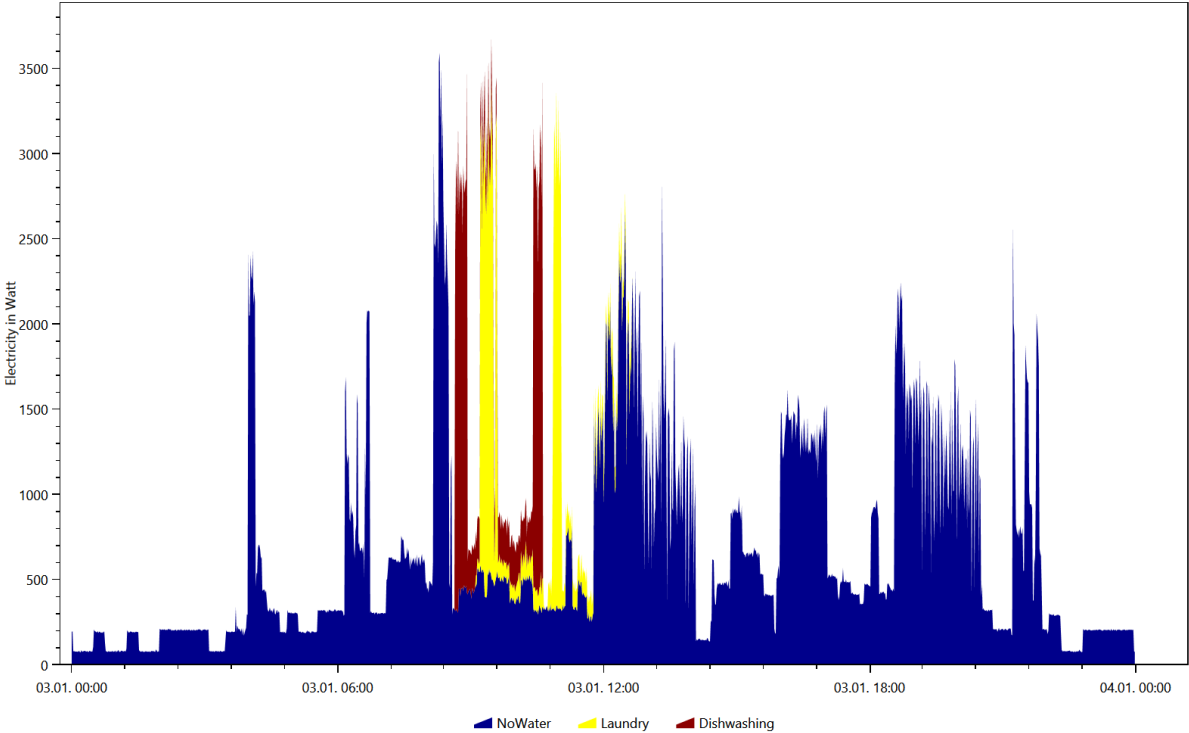
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.12



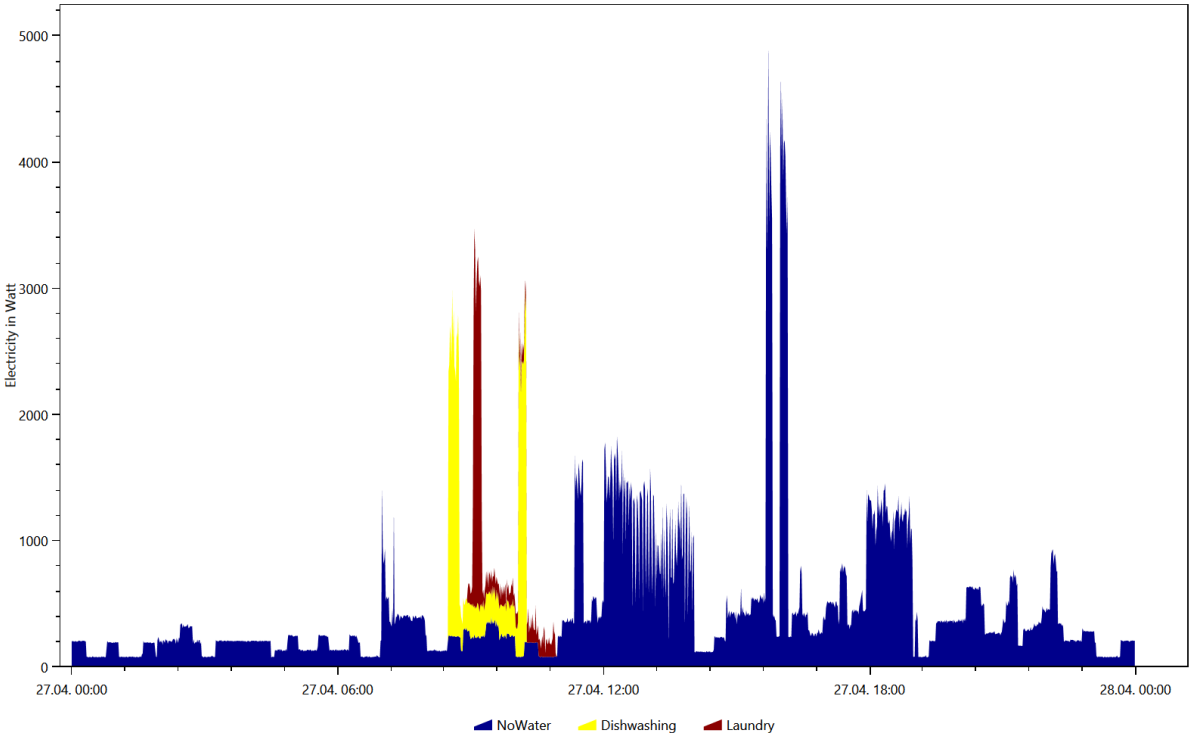
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.27



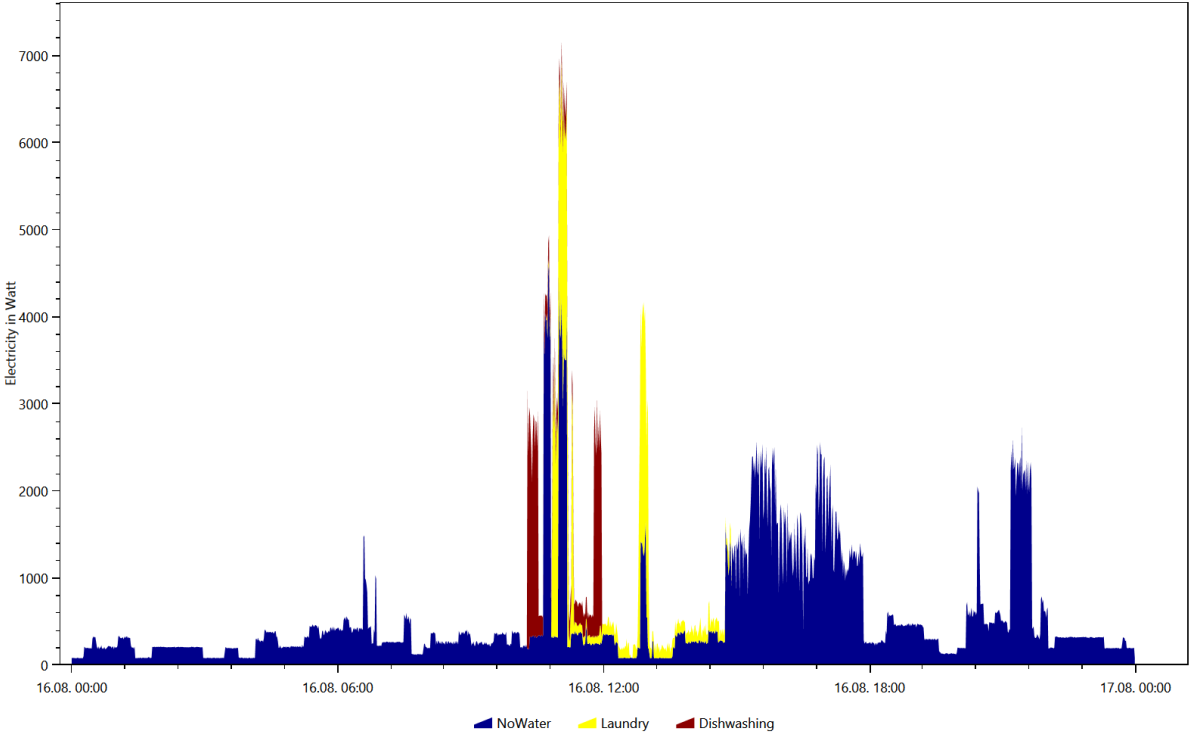
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.3



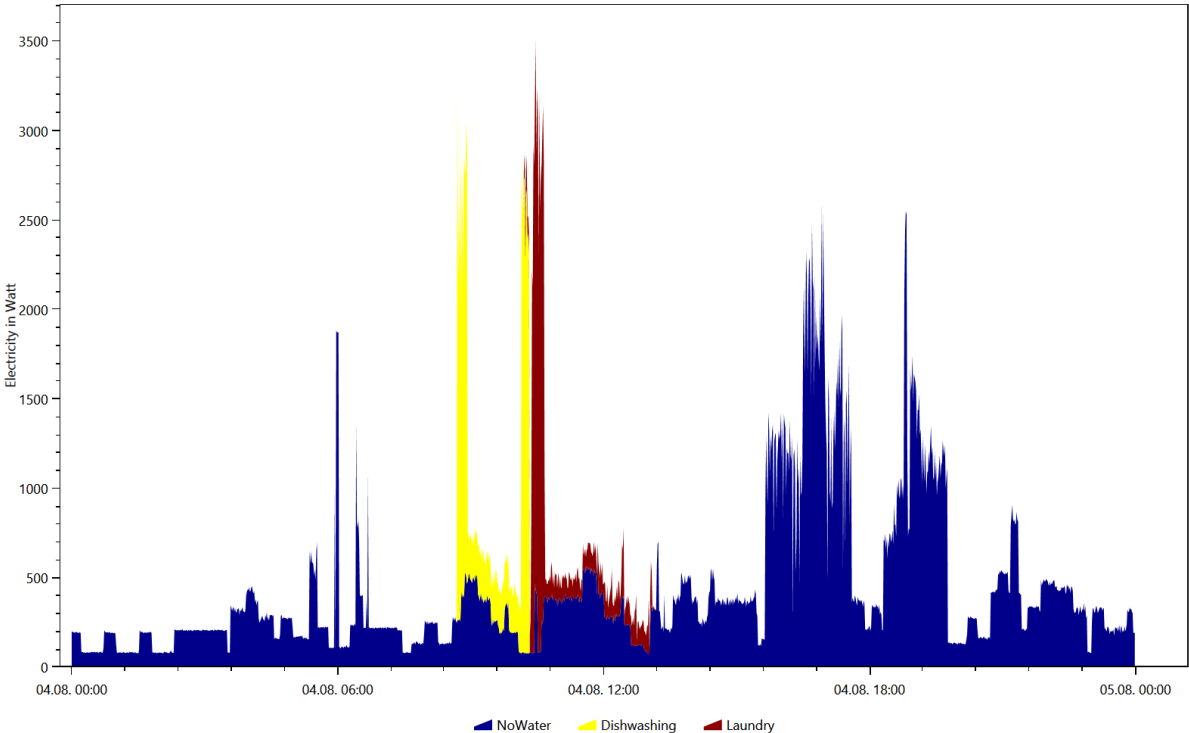
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.27



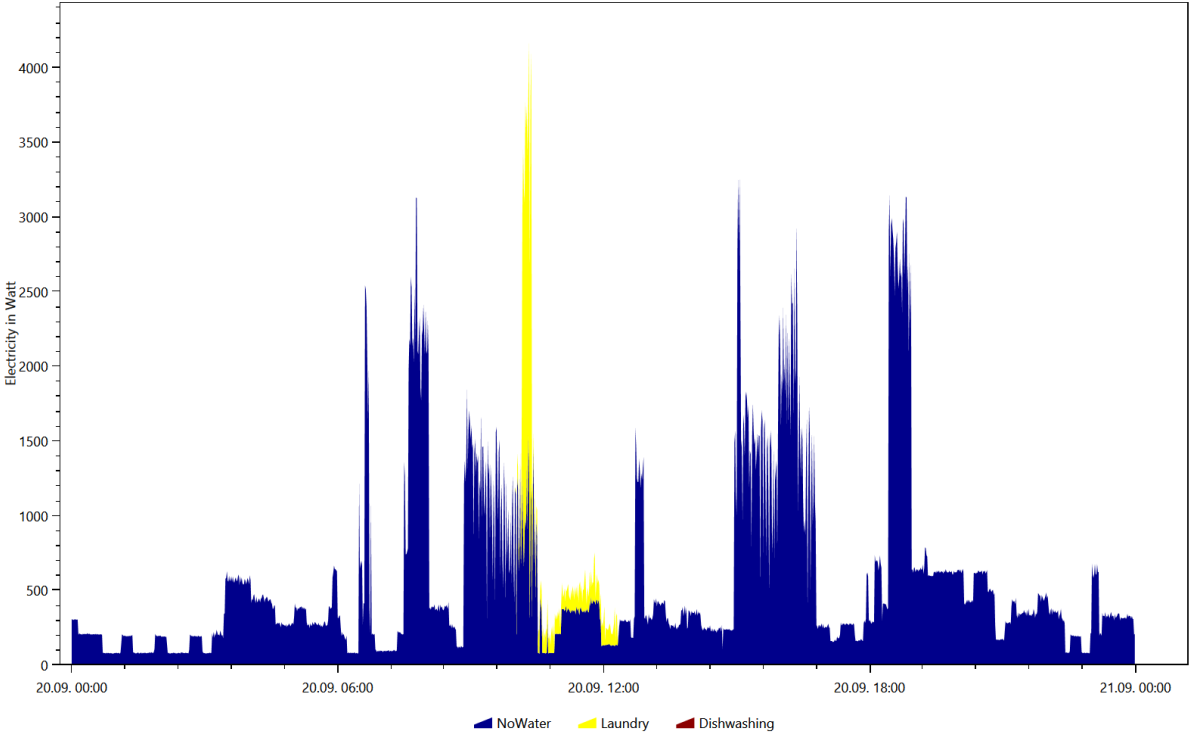
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.16



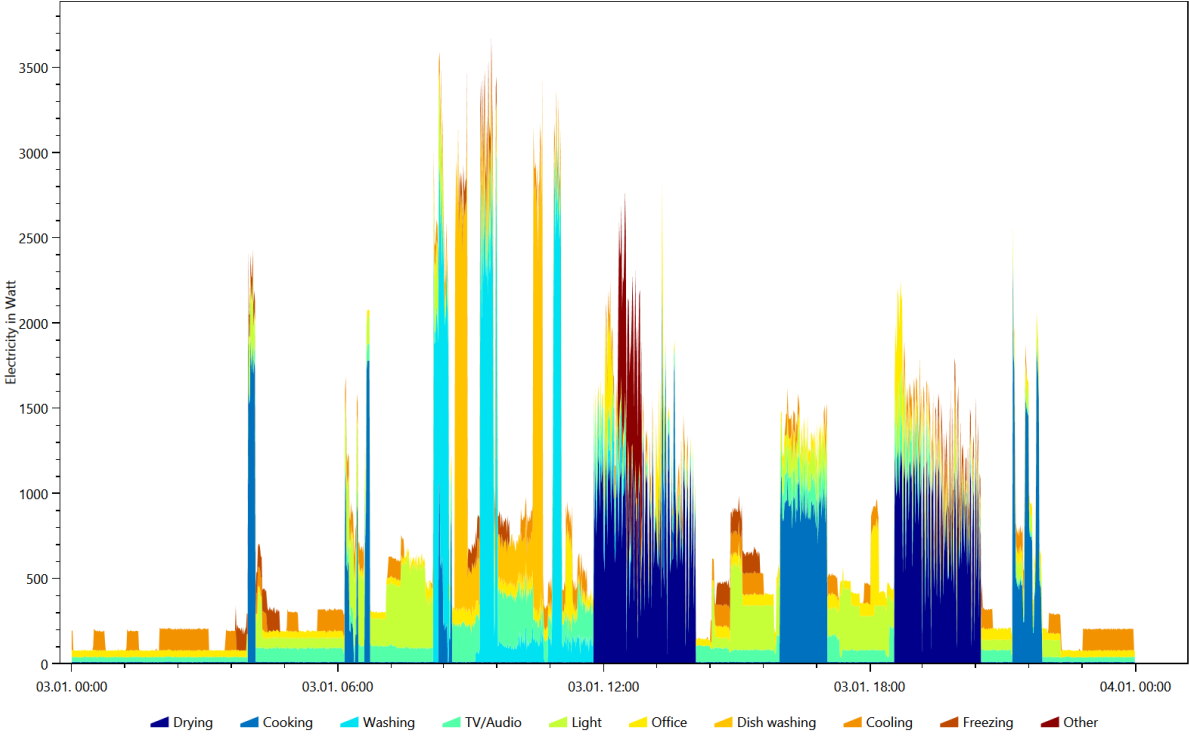
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.4



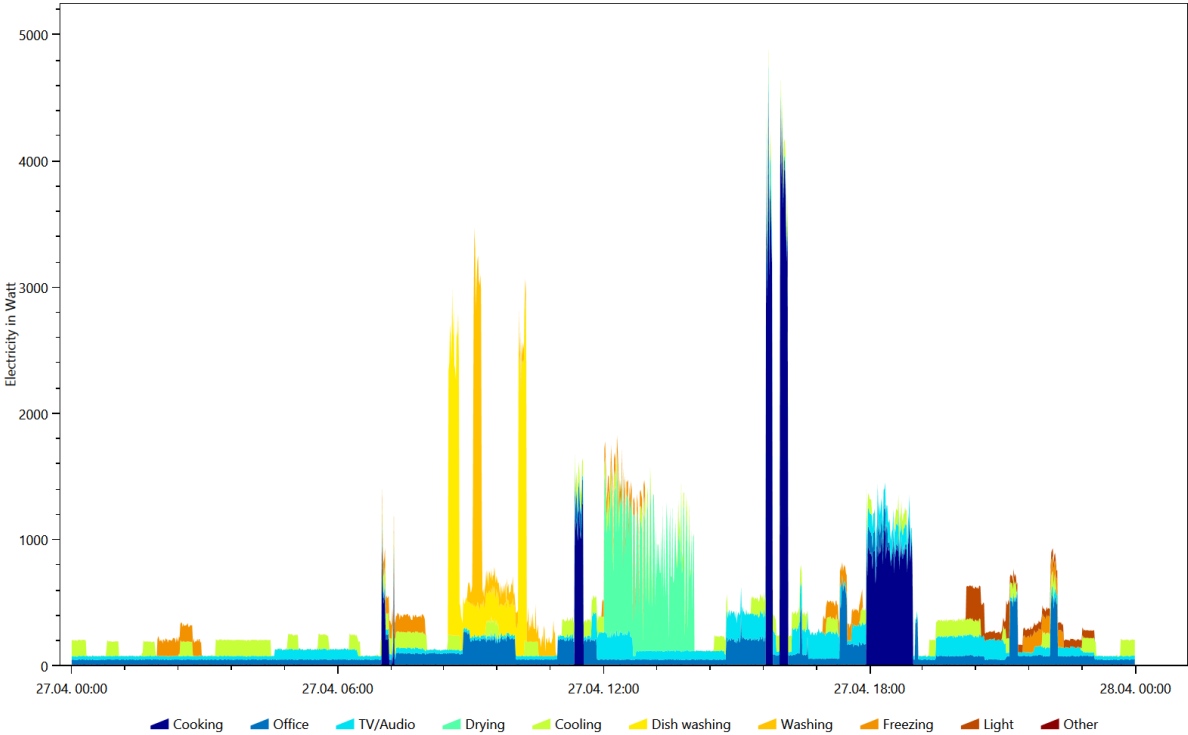
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.20



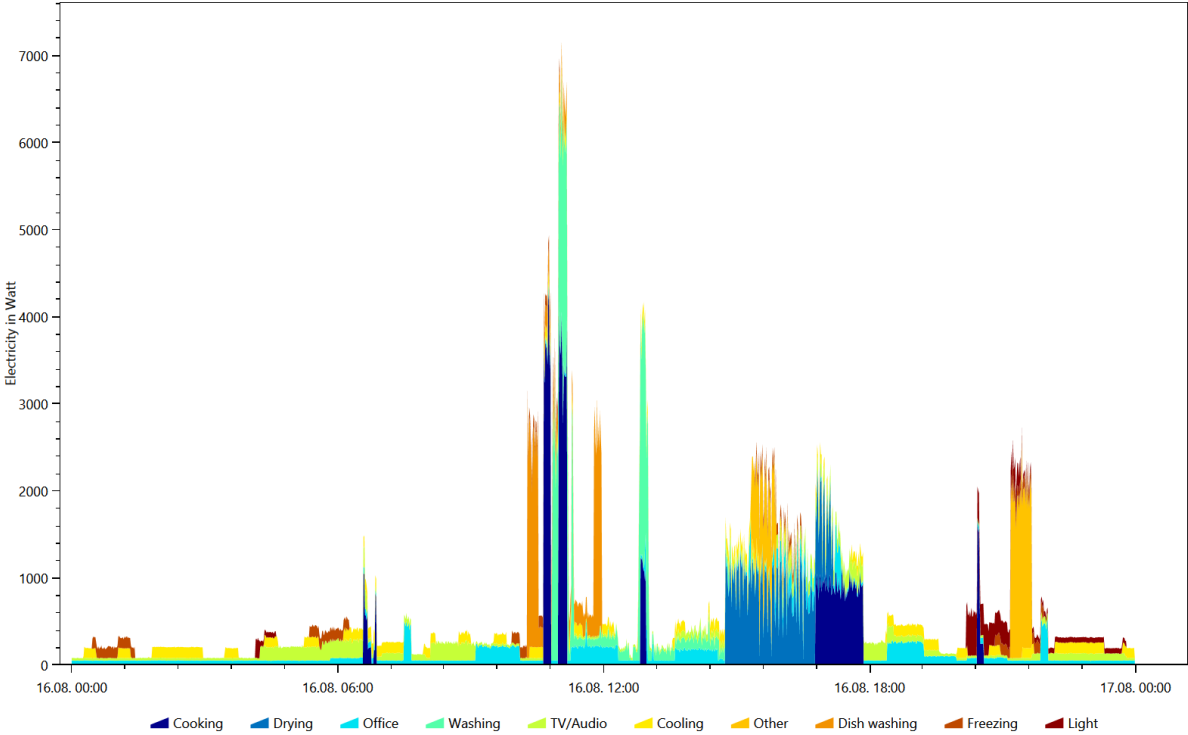
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.3



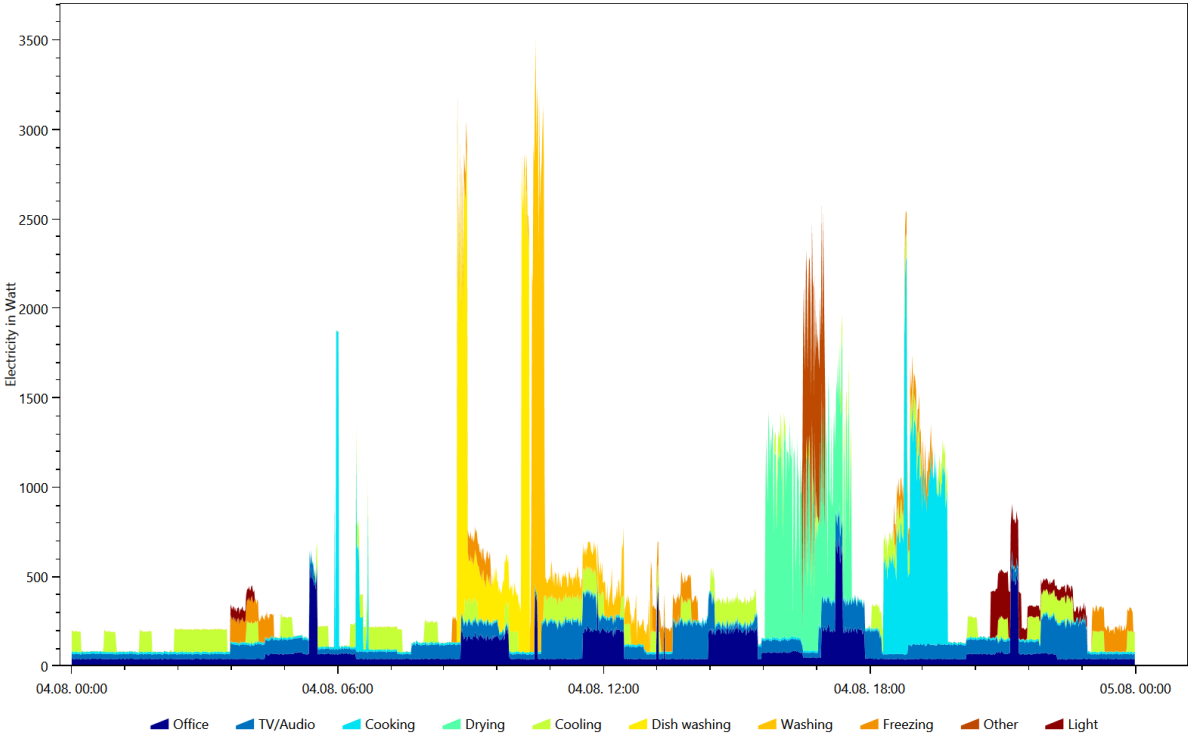
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.27



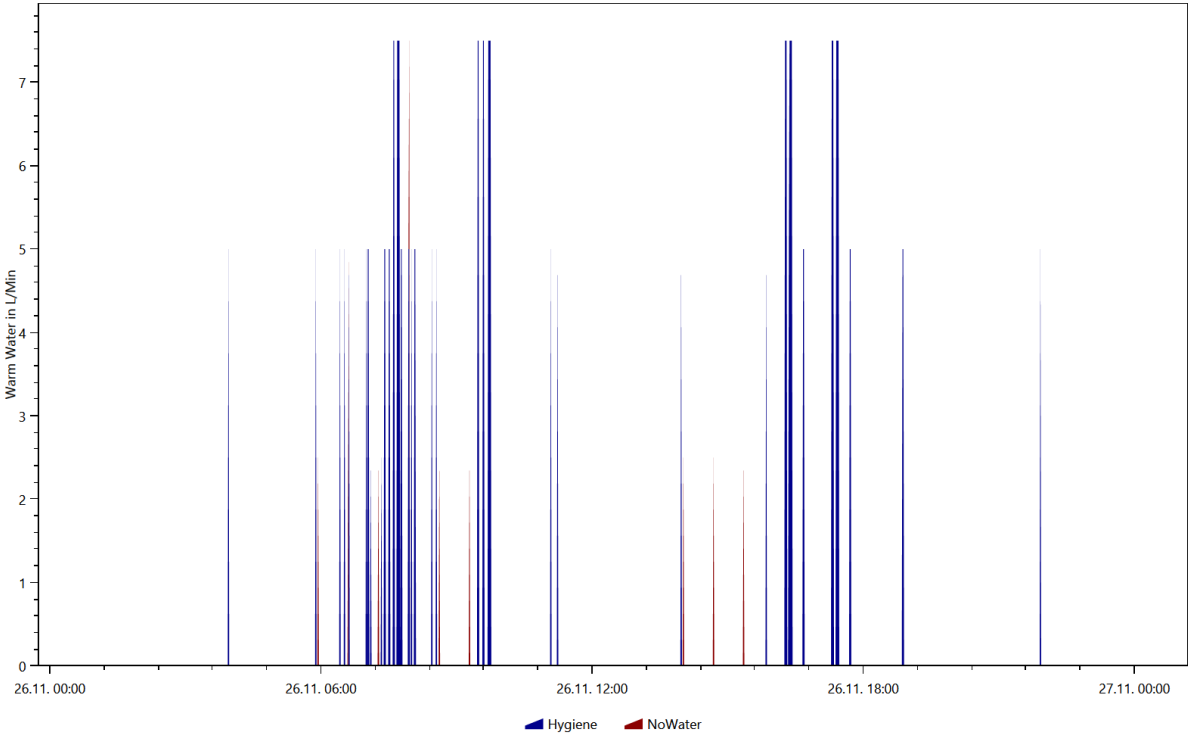
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.16



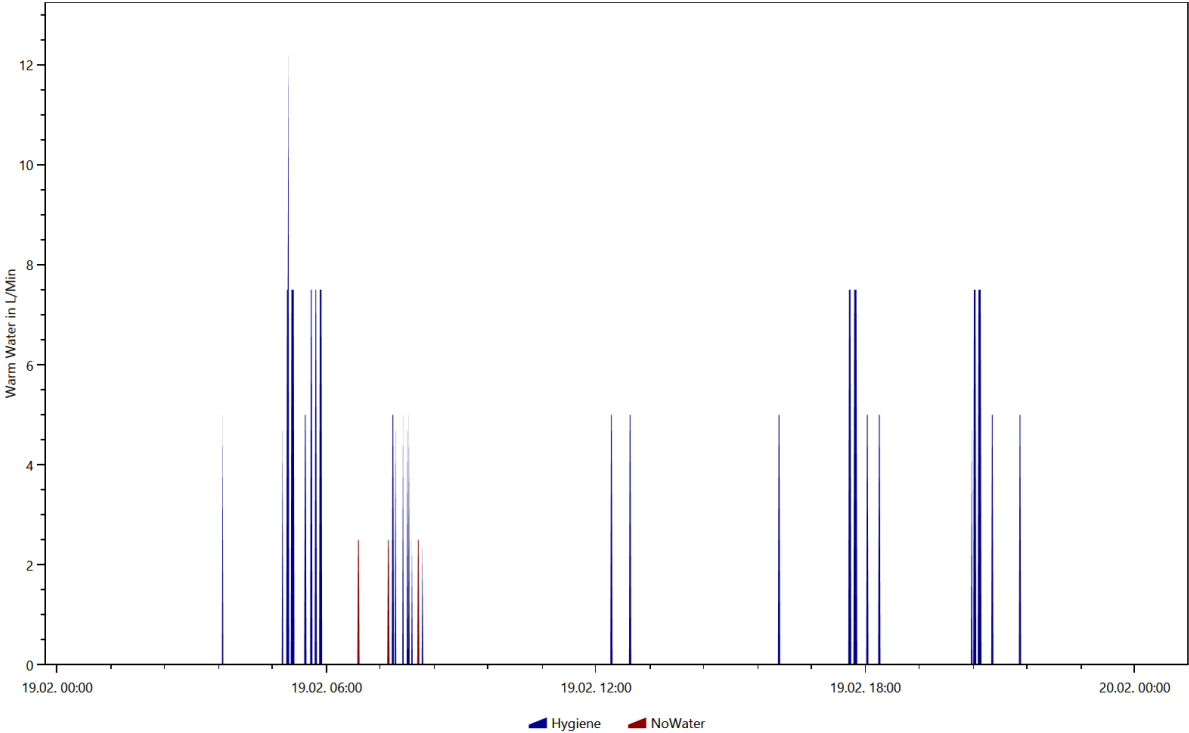
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.4



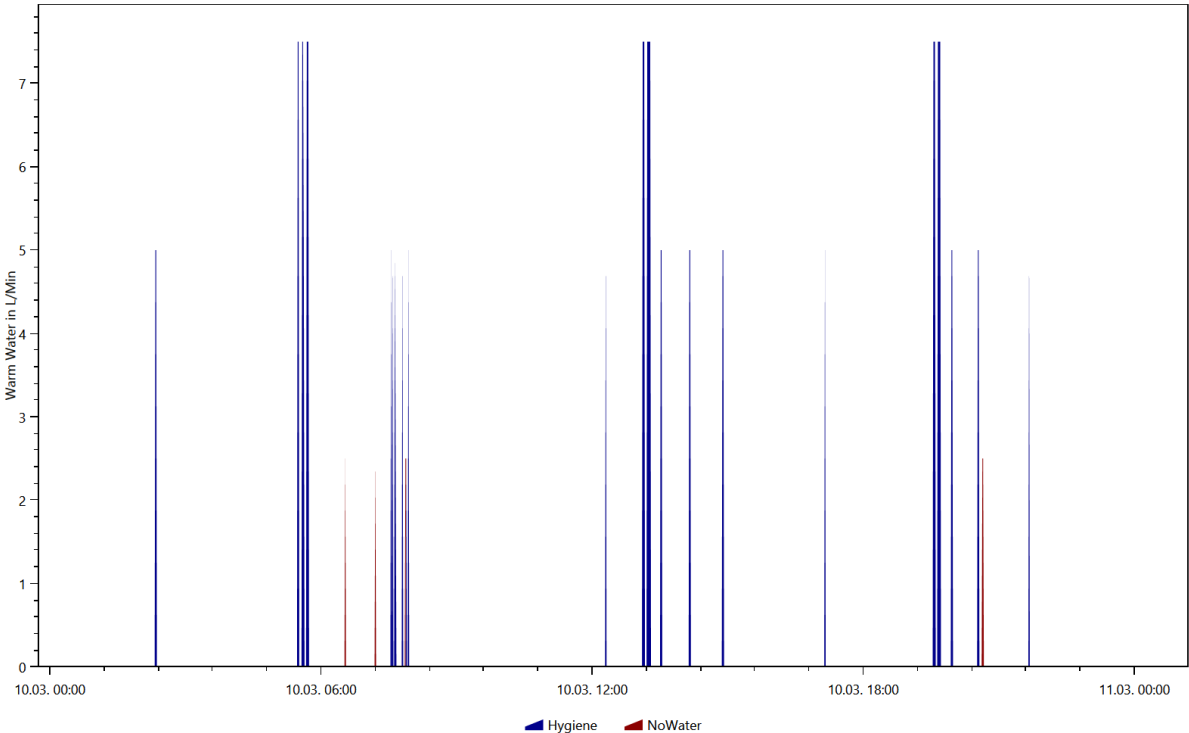
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.26



Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.2.19

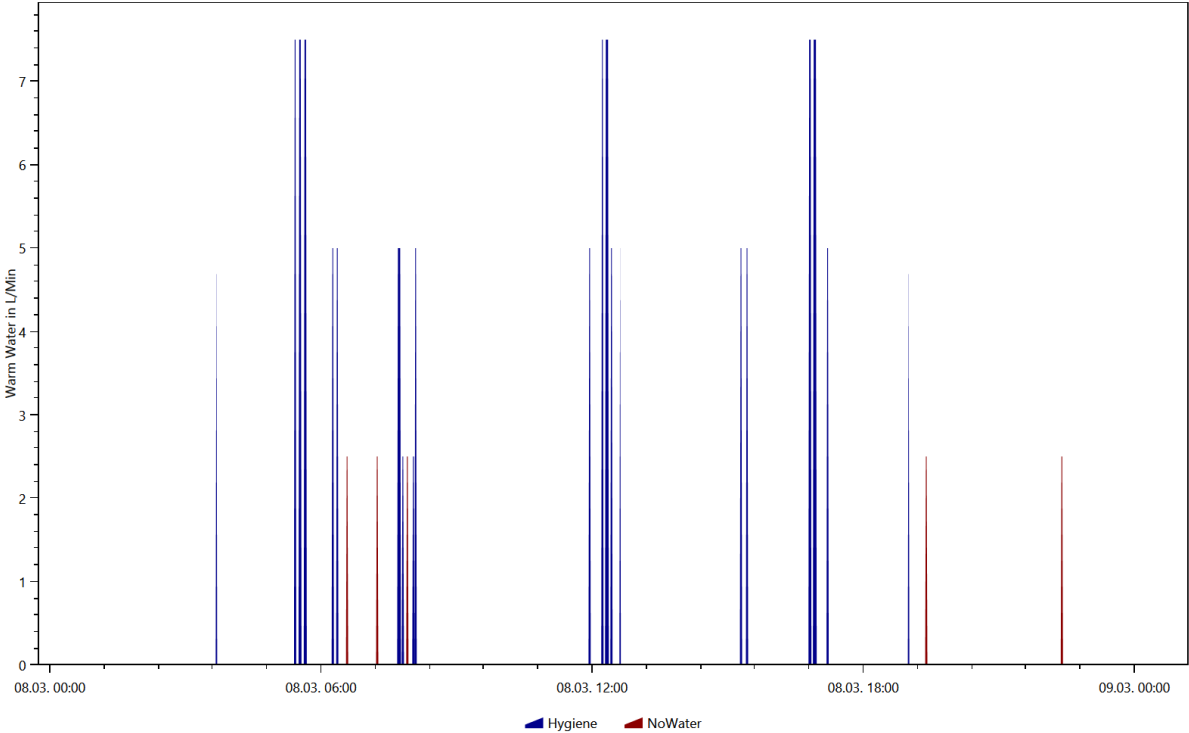


Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.10

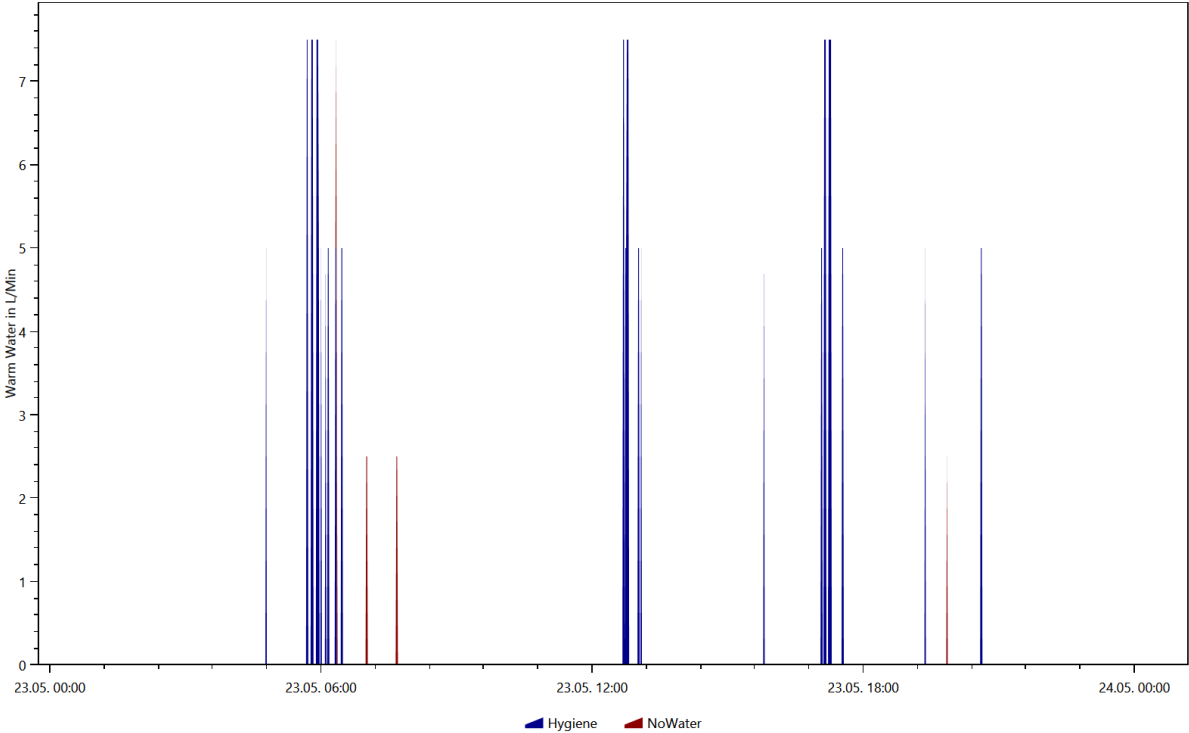




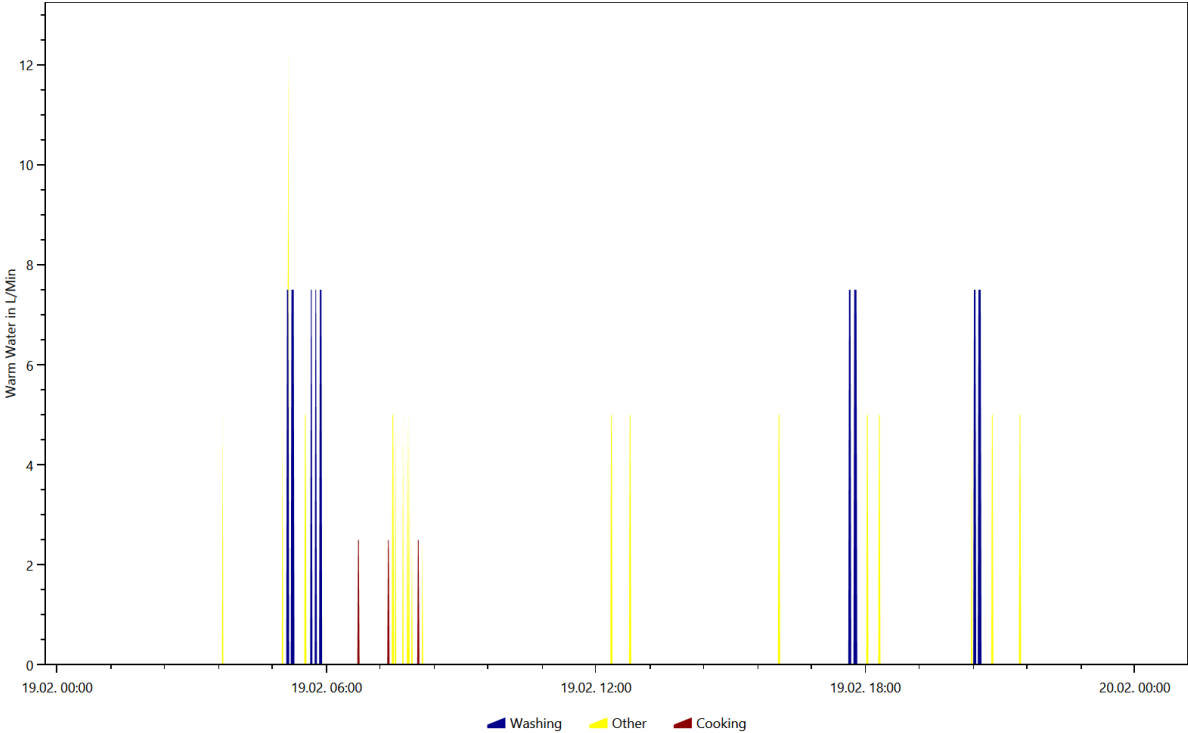
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.8



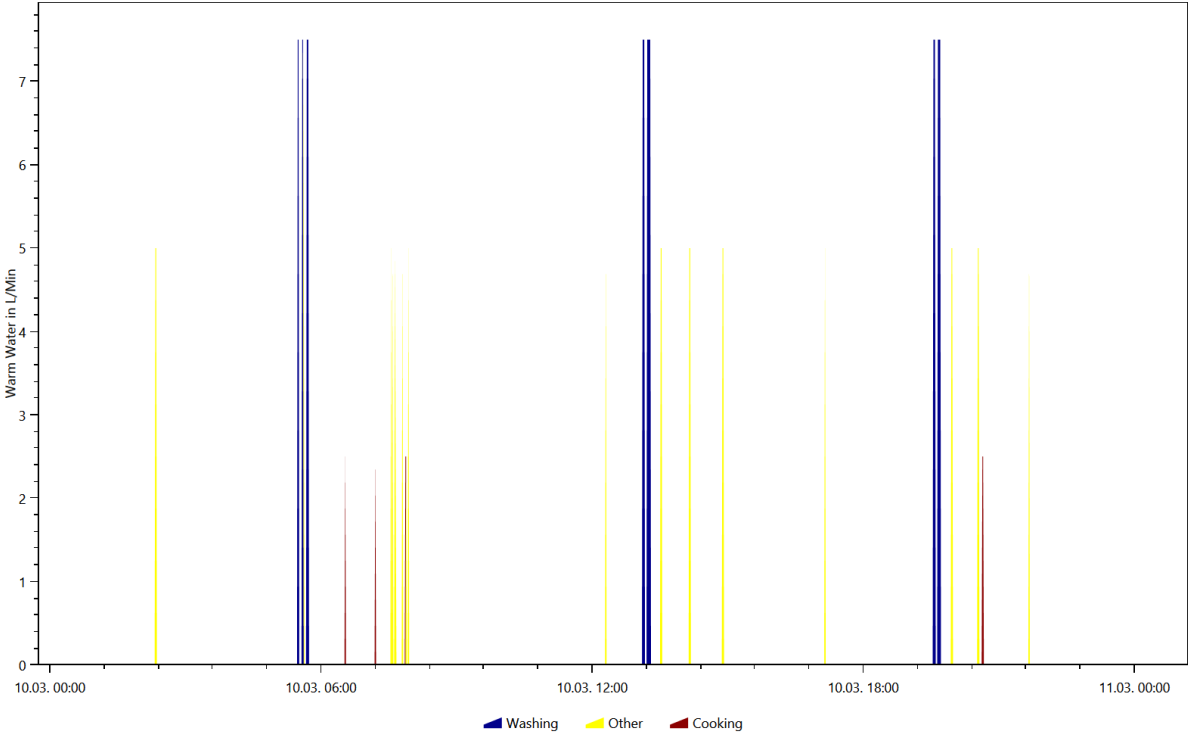
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.23



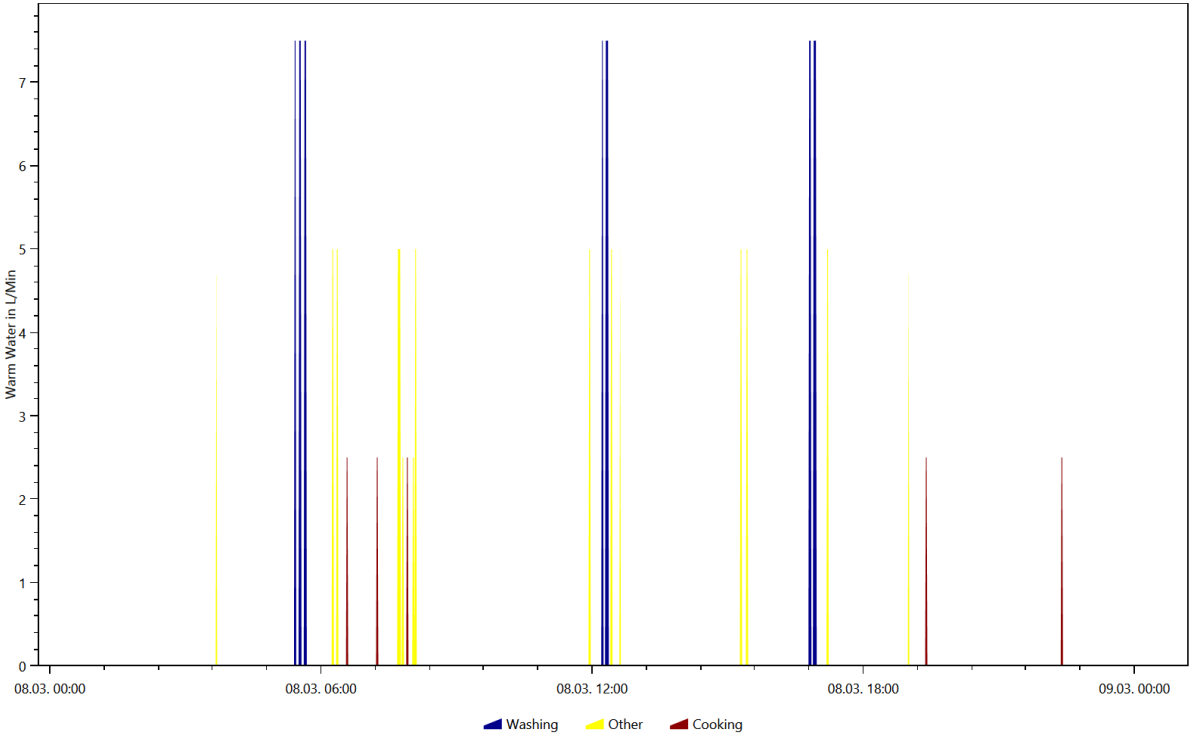
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.2.19



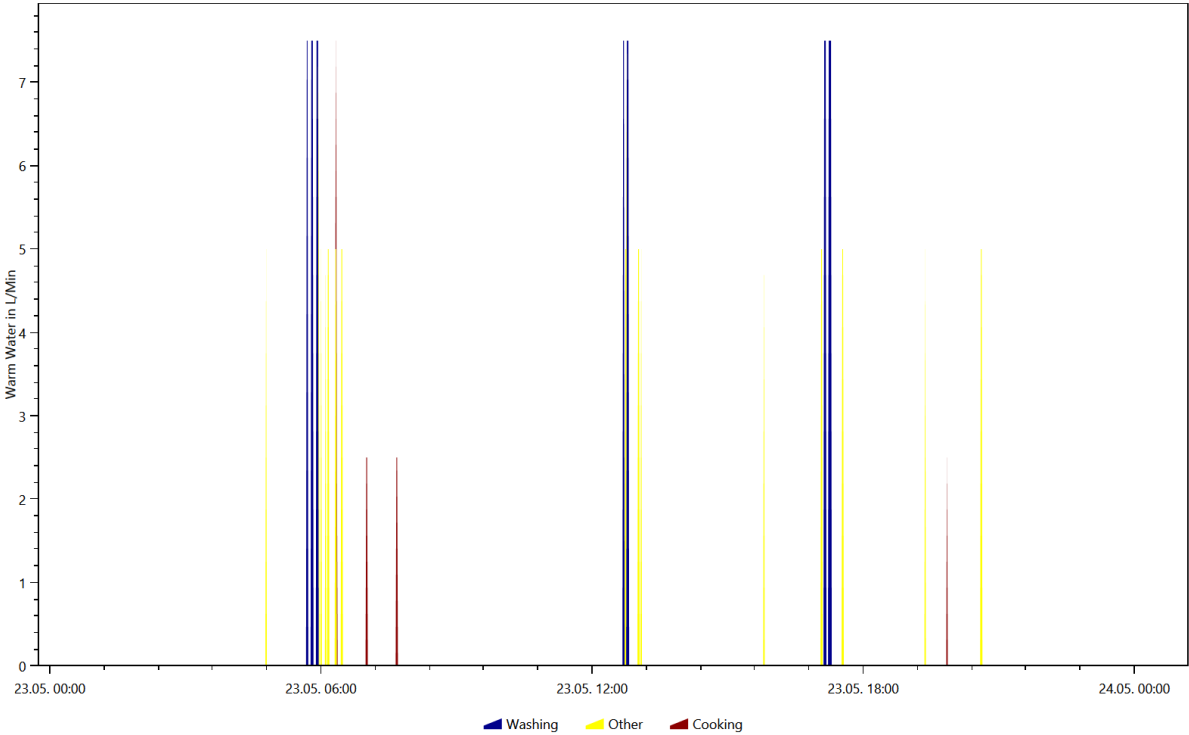
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.10



Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.8



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

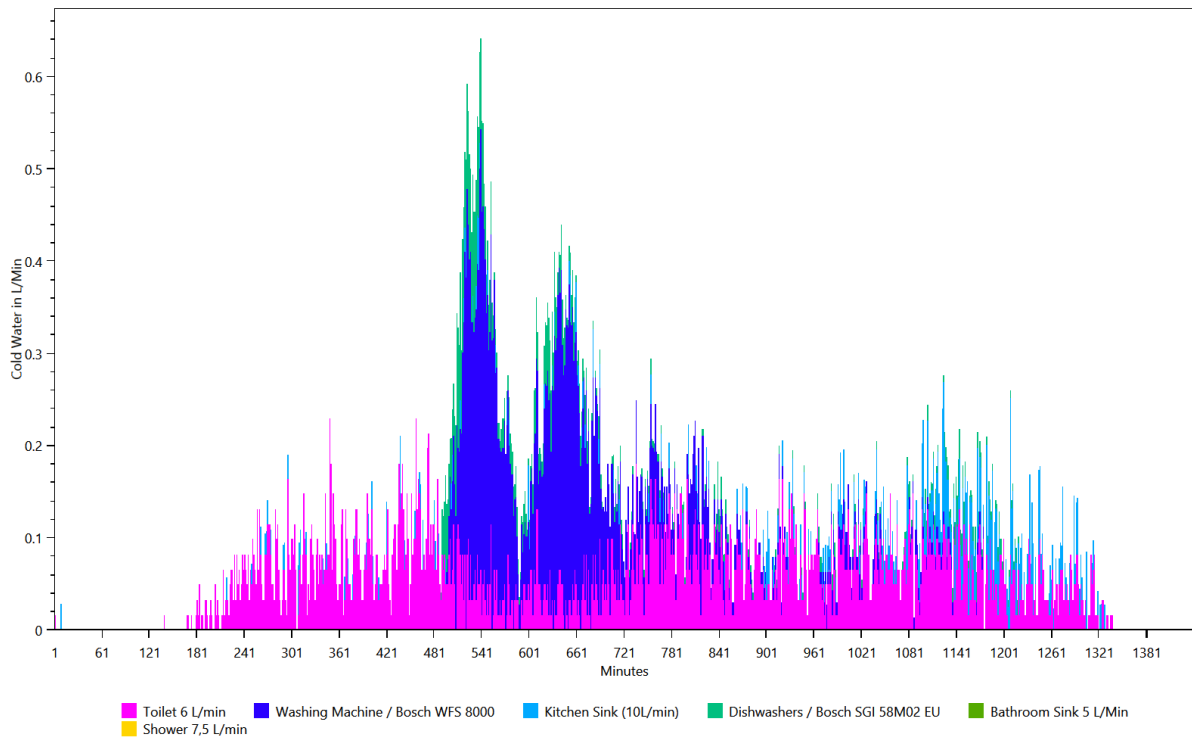


# Overview of the time and power of the use per load type per device

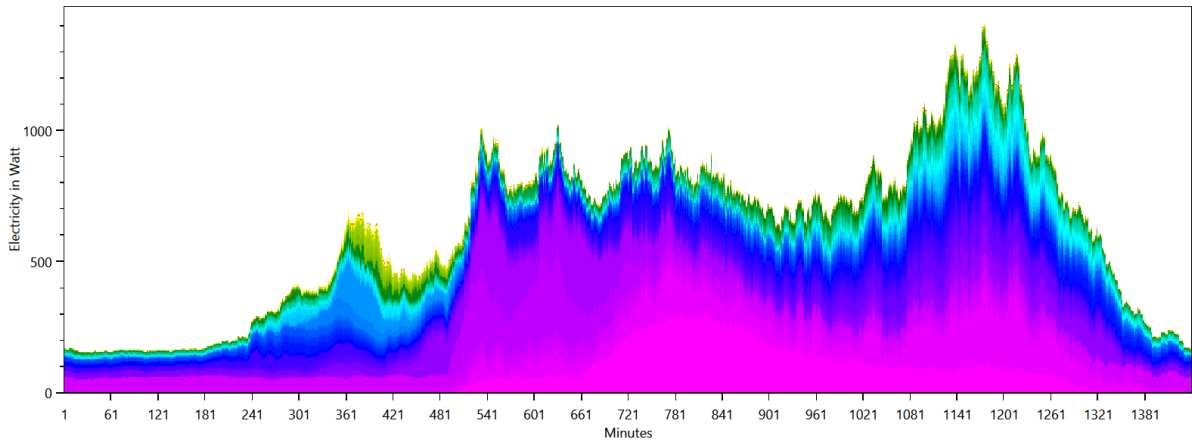
This is made from the files starting with: **TimeOfUseEnergyProfiles**

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

## Cold Water

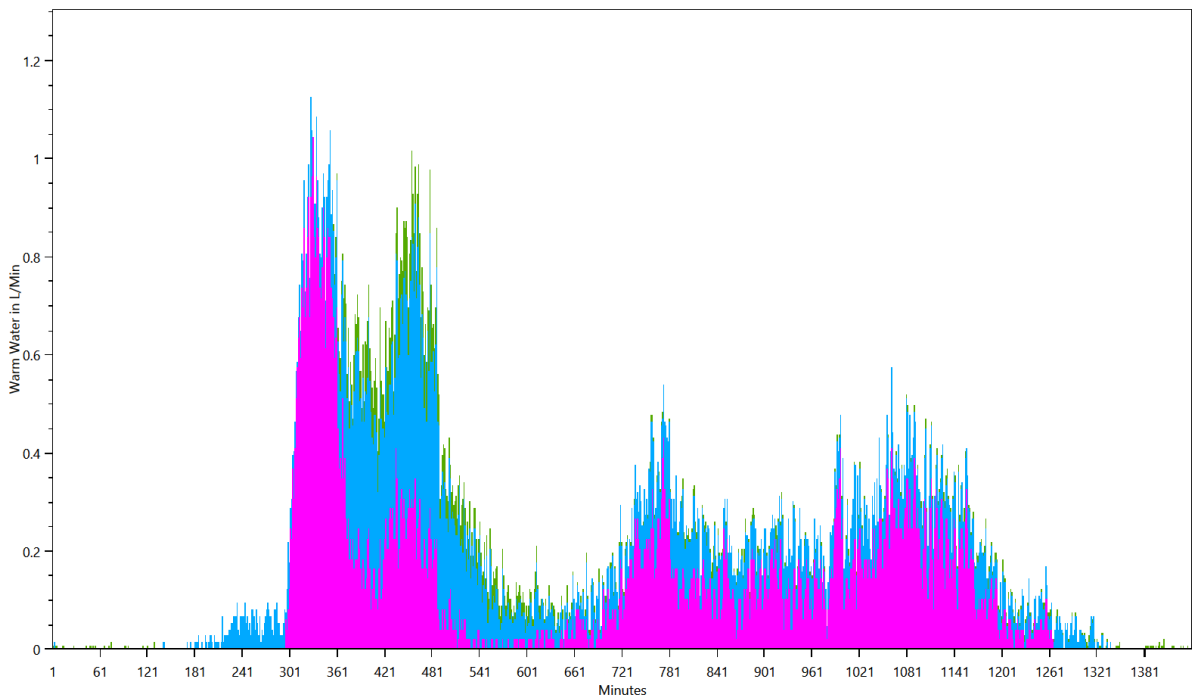


## Electricity



- Dryer / Miele T 8626 WP
- Washing Machine / Bosch WFS 8000
- Sony PlayStation 3
- Samsung CLP-315W
- TASKalfa 180
- Steam Cooker / Phillips HD9140
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen-stove right hind
- Fax / Phillips Faxjet 525 Primo (IPF525)
- PC Monitor / Fujitsu Siemens Scaleoview H19-1
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove left hind - full power
- Kitchen radio / AEG KRC 4323 CD
- Handmixer / Phillips Robust HR 1581
- Food Slicer / DOMO Schneidemaschine DO521S
- Braun Multiquick 3 MR 300 Soup
- Oven / AEG B 33512-5-M
- Electronic hometrainer / Kettler Track Performance
- Microwave / Panasonic NN 5259
- Living Room Light (60W)
- Bathroom Light (200W)
- Kitchen Light (100W)
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen-stove right hind
- SAT Receiver / Kathrein UFS913
- Juicer / Moulinex Vitafruit
- Electric Razor Braun Cruzer 5
- Epson Stylus S20
- Electric Toothbrush Dondodent Professional Clean
- Siemens Fridge from 1987 (unknown type)
- Kettle / Kettler Track Performance
- PC / Acer Aspire M3640
- TV Medion MD20123\_DE\_A
- Hair Dryer / Braun Satin Pro 2200 Ion Care
- Fondue / Unold 48746 Asia
- PC Monitor / Fujitsu Siemens Scaleoview D19-1
- Nintendo Wii
- Egg Cooker / Russell Hobbs 14048-56 Stylo
- Dishwashers / Bosch SGI 58M02 EU
- Bauknecht GTM 2511
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove front right- full power
- Yamaha RX-V667
- PC / Acer Aspire T310
- CD/DVD Player / Philips DVDR 725 H
- Siemens VS 91143 S Super 911
- Electric Kettle / Petra WK288 1.5L
- Living Room Light (200W)
- Miele DA 249-2
- Ricecooker / Tristar RK-6112
- Home Cinema System / Samsung HT-D5550
- Deep Fryer / DeLonghi F 28311.W Rotofritteuse
- Router O2 Box 6431
- External Harddrive Iomega 3.5"
- Shredder / Dahle PaperSafe 21082
- Bedroom Light (200W)
- Canon CanoScan LIDE 110

## Warm Water



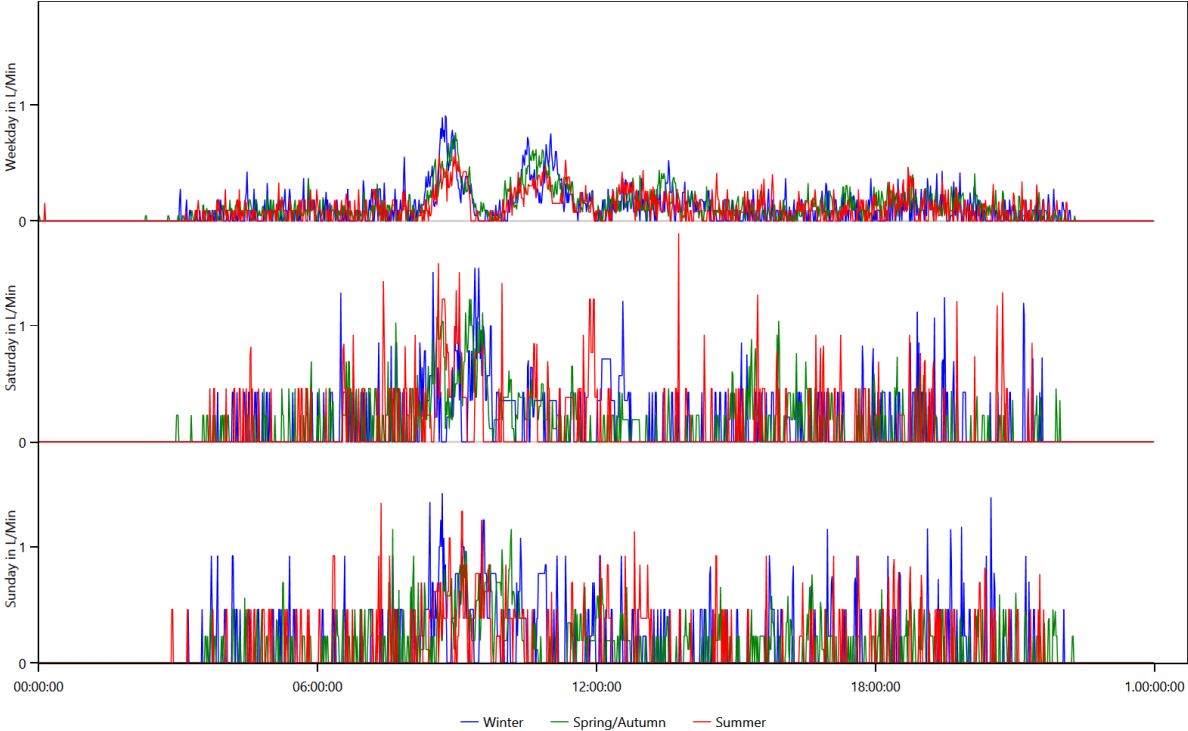
- Shower 7,5 L/min
- Bathroom Sink 5 L/Min
- Kitchen Sink (10L/min)

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

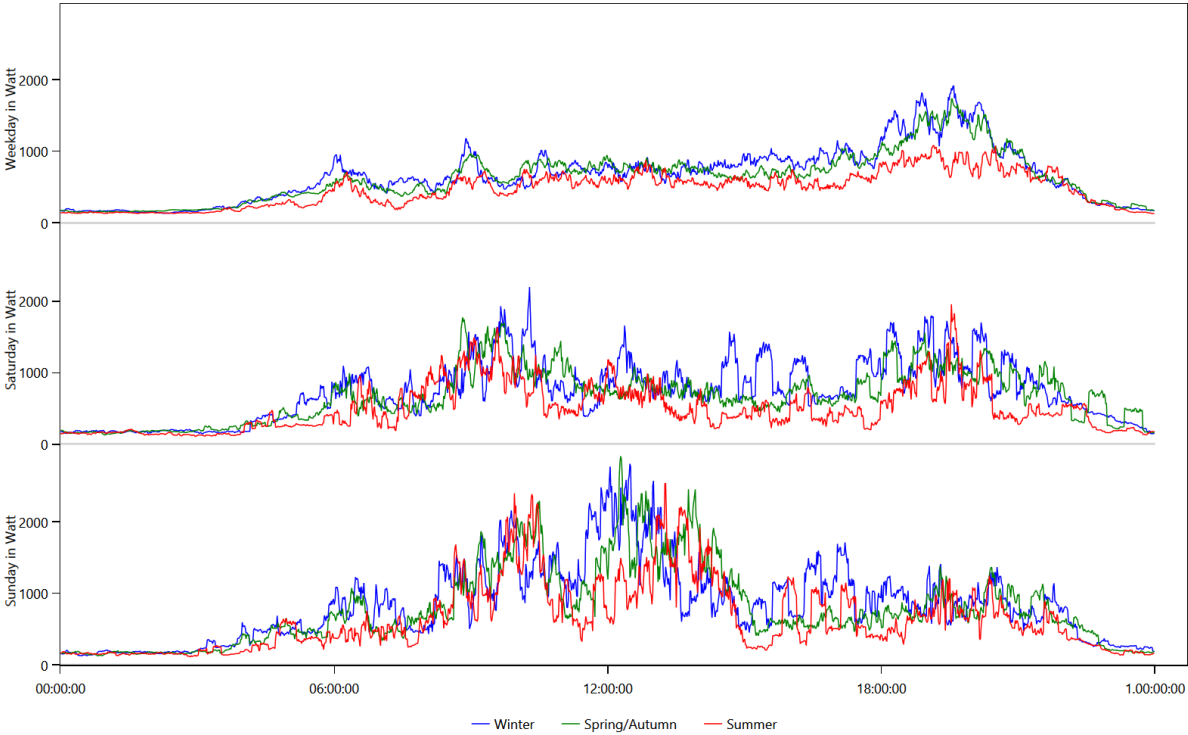
This is made from the files starting with: WeekdayProfiles

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

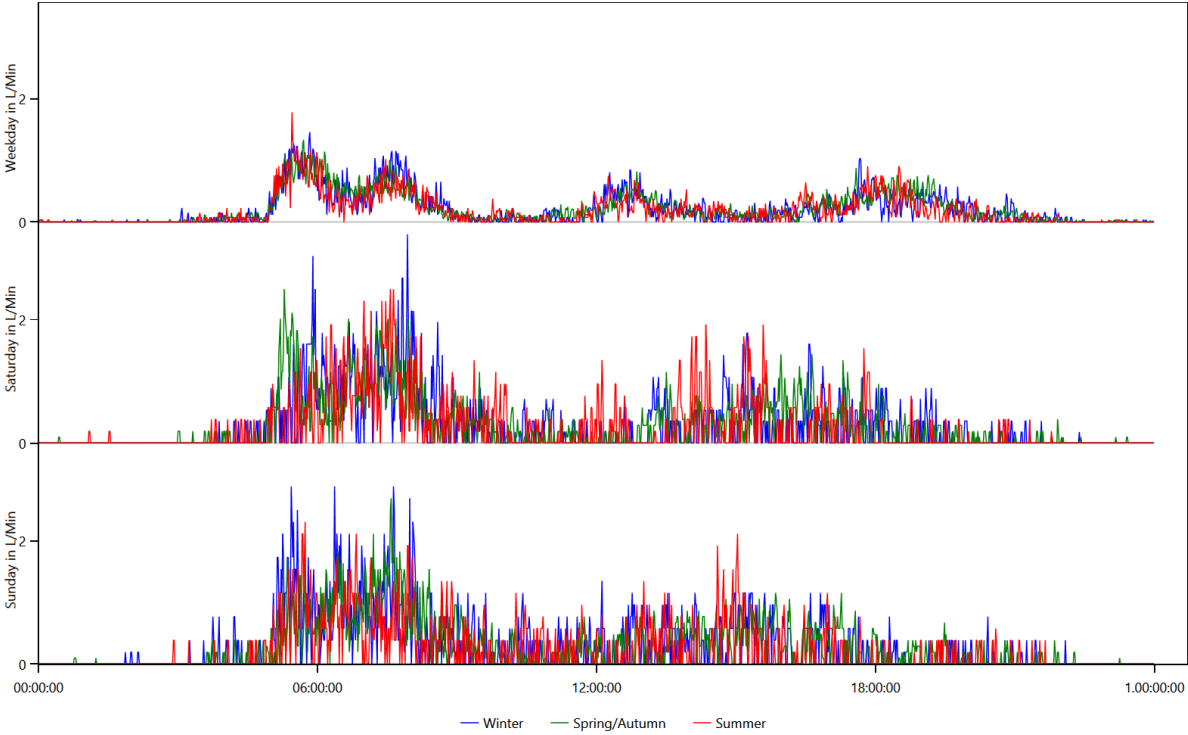
## Cold Water



# Electricity



# Warm Water

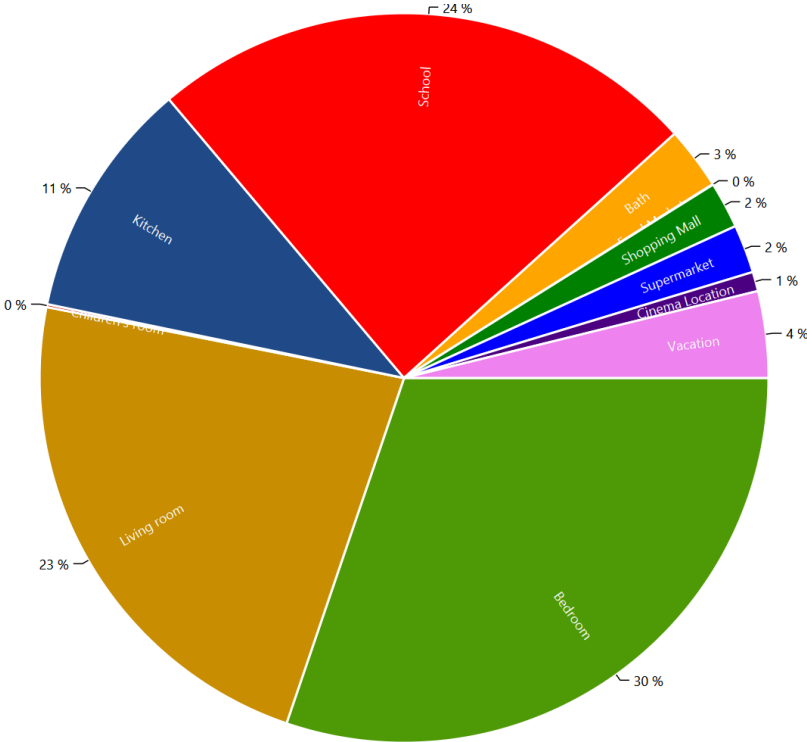


# Location Distribution per Person

This is made from the files starting with: LocationStatistics

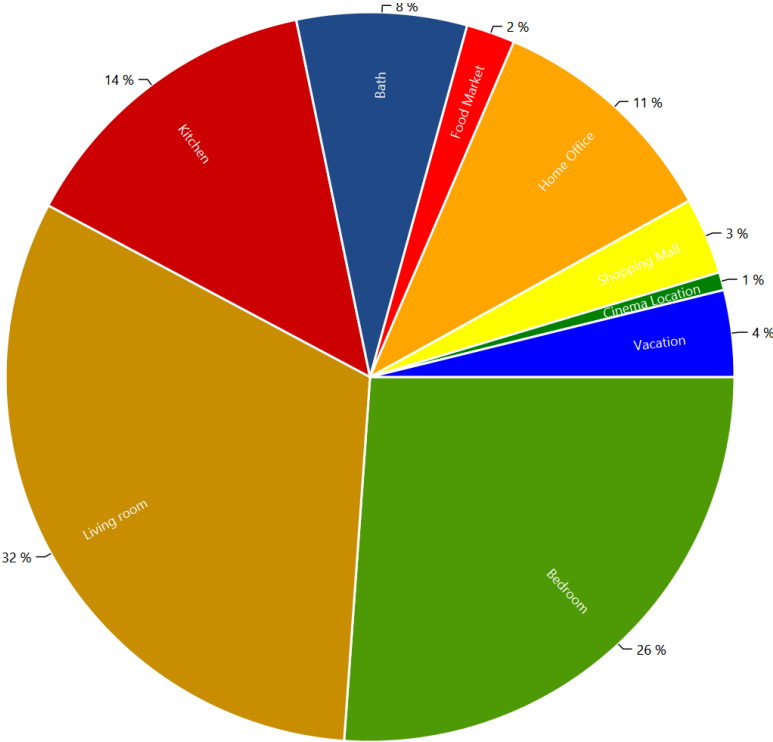
These charts show where the persons spend their time.

CHR20 Arthur (45 Male)

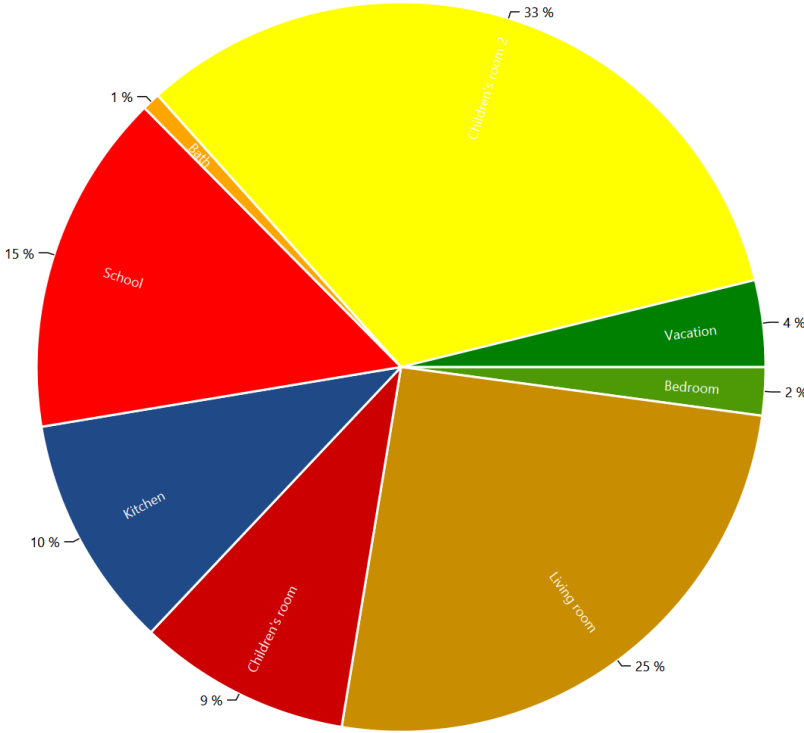




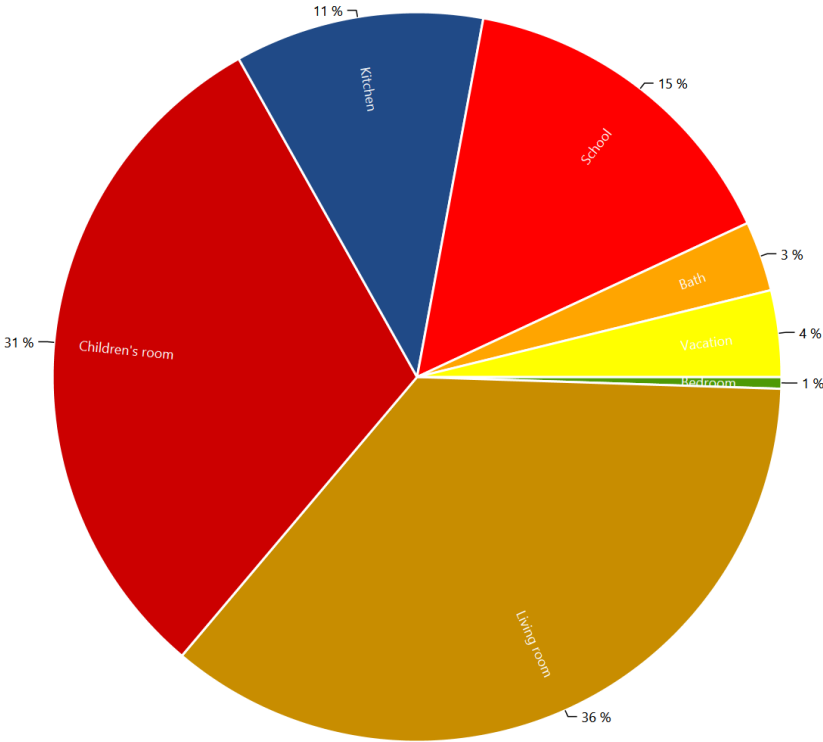
CHR20 Cassie (40 Female)



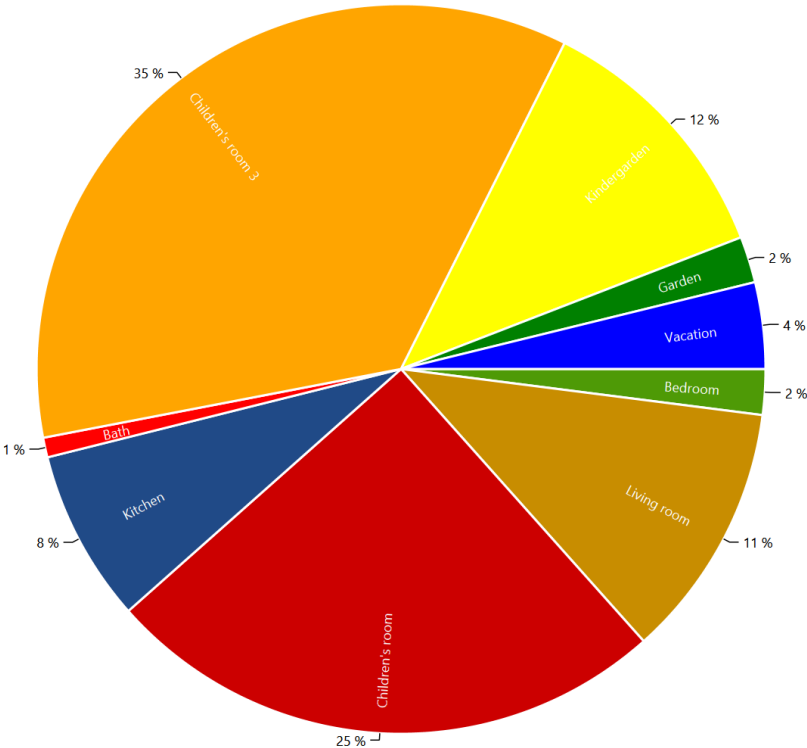
CHR20 Garreth (8 Male)



CHR20 George (12 Male)



CHR20 Gregor (4 Male)



# Actions.csv

## This is made from the files starting with: Actions

These files show the actions of each person in the household. The content looks like this:

Actions.HH0.csv

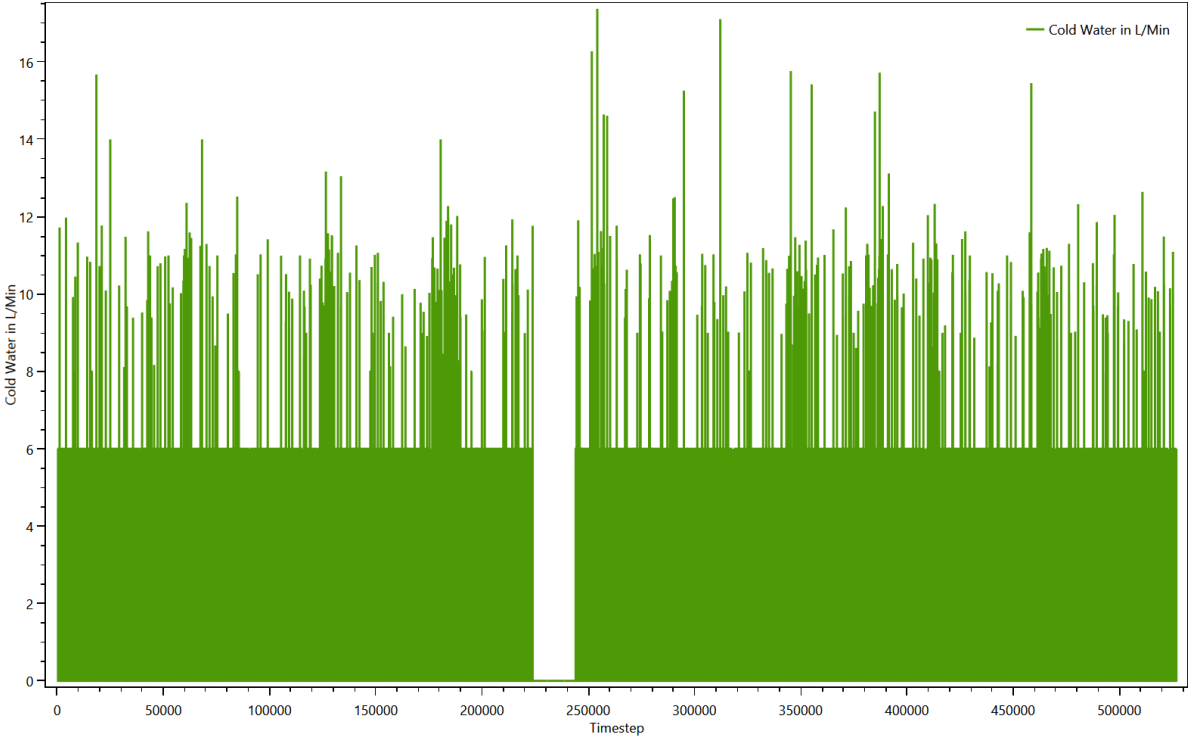
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR20 Arthur (45/Male);sleep bed 08 (08 h);sleep;False;
0;01.01.2016 00:00;CHR20 Cassie (40/Female);sleep bed 02 (06 h);sleep;False;
0;01.01.2016 00:00;CHR20 Garreth (8/Male);sleep bed 04 (10 h) Child;sleep;False;
0;01.01.2016 00:00;CHR20 George (12/Male);sleep bed 03 (08 h) Child;sleep;False;
0;01.01.2016 00:00;CHR20 Gregor (4/Male);sleep bed 05 (12 h) Child;sleep;True;
271;01.01.2016 04:31;CHR20 Cassie (40/Female);play Wii;Passive Entertainment (TV etc.);False;
300;01.01.2016 05:00;CHR20 George (12/Male);play with toys (1.5 h);Offline Entertainment;False;
326;01.01.2016 05:26;CHR20 Cassie (40/Female);play board games (1 h);Offline Entertainment;False;
353;01.01.2016 05:53;CHR20 Garreth (8/Male);watch a movie for 1 h 30 min with home cinema system;Passive
Entertainment (TV etc.);False;
385;01.01.2016 06:25;CHR20 Cassie (40/Female);eat breakfast (1 h);cooking;False;
390;01.01.2016 06:30;CHR20 George (12/Male);go to grammer school ;school;False;
392;01.01.2016 06:32;CHR20 Arthur (45/Male);go to the toilet;hygiene;False;
396;01.01.2016 06:36;CHR20 Garreth (8/Male);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;False;
396;01.01.2016 06:36;CHR20 Gregor (4/Male);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;True;
397;01.01.2016 06:37;CHR20 Arthur (45/Male);get ready in the morning (men);hygiene;False;
408;01.01.2016 06:48;CHR20 Arthur (45/Male);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;False;
460;01.01.2016 07:40;CHR20 Arthur (45/Male);take a shower (men);hygiene;False;
460;01.01.2016 07:40;CHR20 Cassie (40/Female);go shopping for food on the market (2 h);shopping;False;
460;01.01.2016 07:40;CHR20 Garreth (8/Male);go to primary school ;school;False;
```

# Sum Profiles

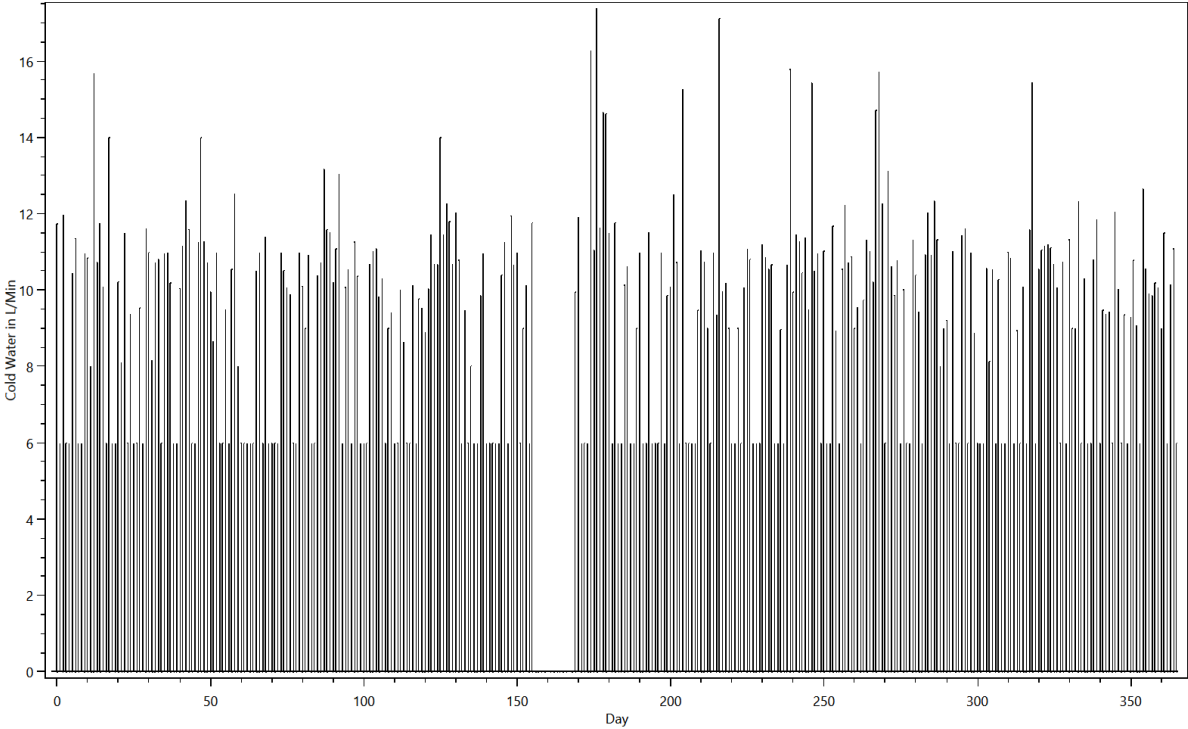
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

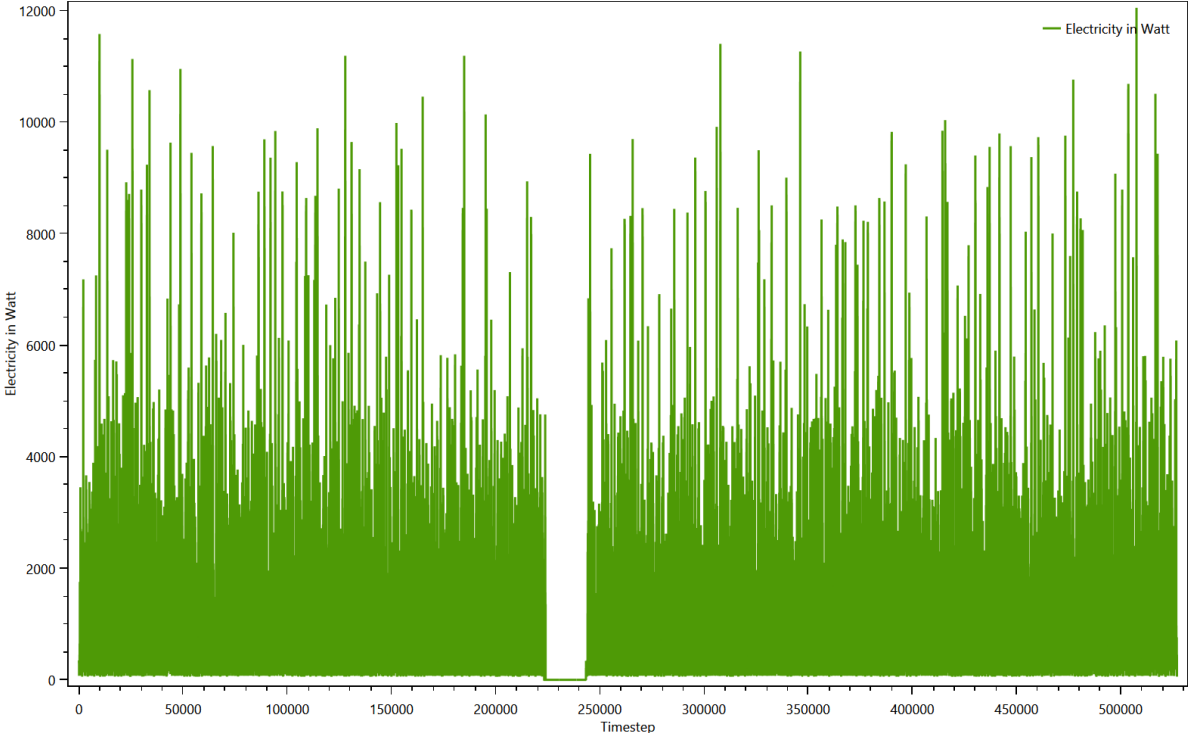
Summed up curve for Cold Water from SumProfiles.Cold Water.png



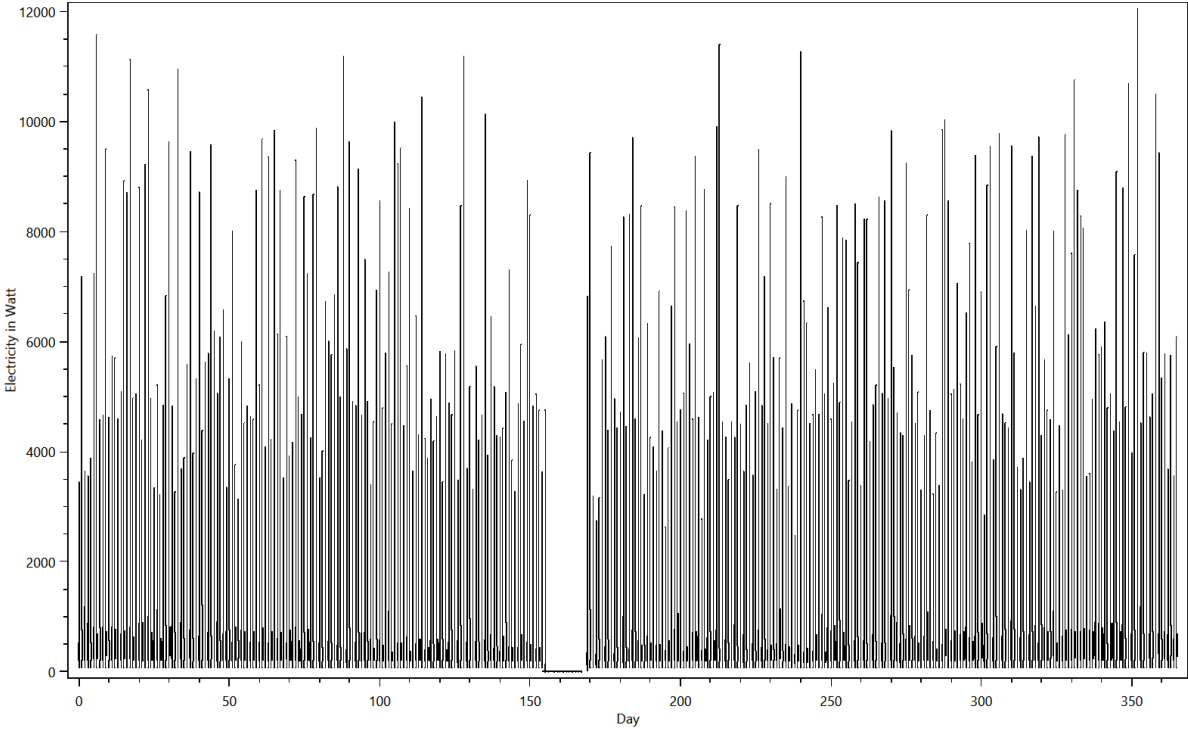
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



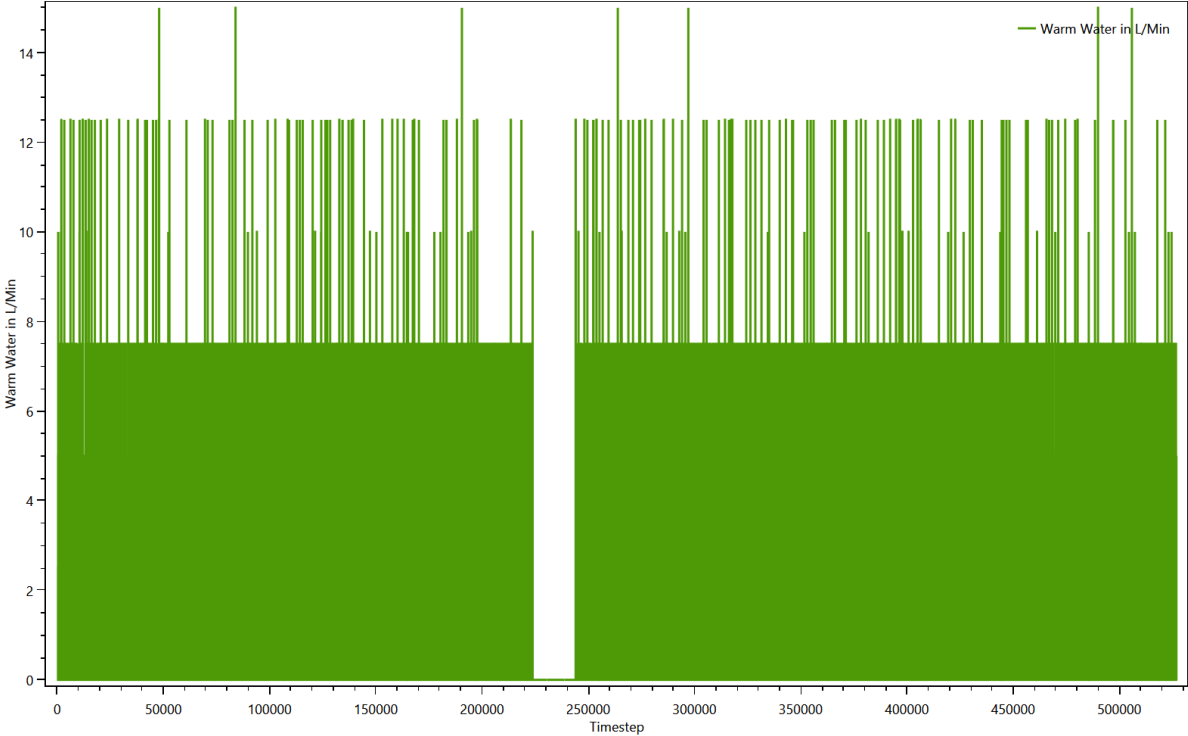
Summed up curve for Electricity from SumProfiles.Electricity.png



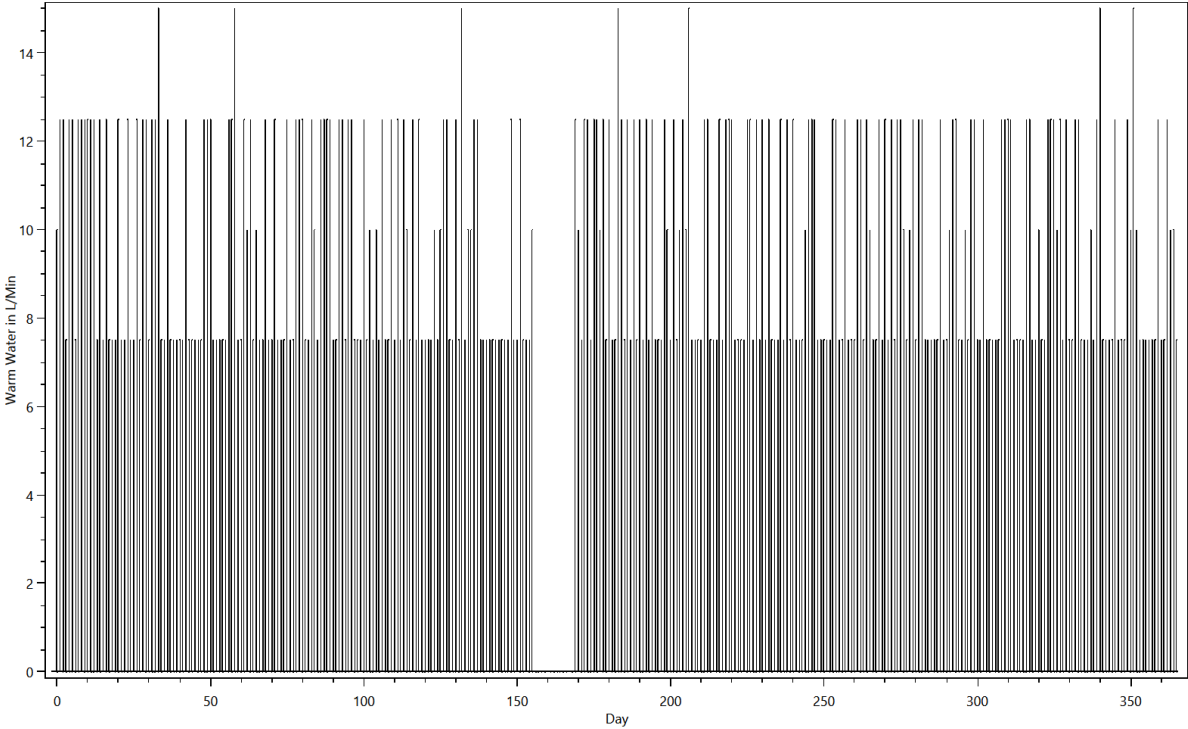
Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR20 one at work, one work home, 3 children 0.txt

Device;Load Type;Profile;Number of Activations

Bathroom Light (200W);Electricity;Bath - light [Synthetic for Light Device];1586

Bathroom Mirror Light 30W (CFL);Electricity;Bath - light [Synthetic for Light Device];1586

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 100% [Synthetic];6250

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 50% [Synthetic];494

Bauknecht GTM 2511;Electricity;0 h 01 min 100% [Synthetic];236

Bauknecht GTM 2511;Electricity;05 h 0 min Fridge, 1h 100%, 4h 0% [Synthetic];1706

Bed 2;None;06 h 0 min 100% [Synthetic];353

Bed 3 (Children);None;08 h 0 min 100% [Synthetic];355

Bed 4;None;10 h 0 min 100% [Synthetic];355

Bed 5;None;10 h 0 min 100% [Synthetic];303

Bed 5;None;12h 0 min 100% [Synthetic];52

Bed 8;None;08 h 0 min 100% [Synthetic];351

Bedroom Light (200W);Electricity;Bedroom - light [Synthetic for Light Device];5

Board Games;None;01 h 0 min 100% [Synthetic];365

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

Braun Multiquick 3 MR 300 Soup;Electricity;0 h 01 min 100% [Synthetic];31

CD/DVD Player / Philips DVDR 725 H;Electricity;01 h 30 min 100% [Synthetic];734

CD/DVD Player / Philips DVDR 725 H;Electricity;02 h 0 min 100% [Synthetic];86

CD/DVD Player / Philips DVDR 725 H;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8432

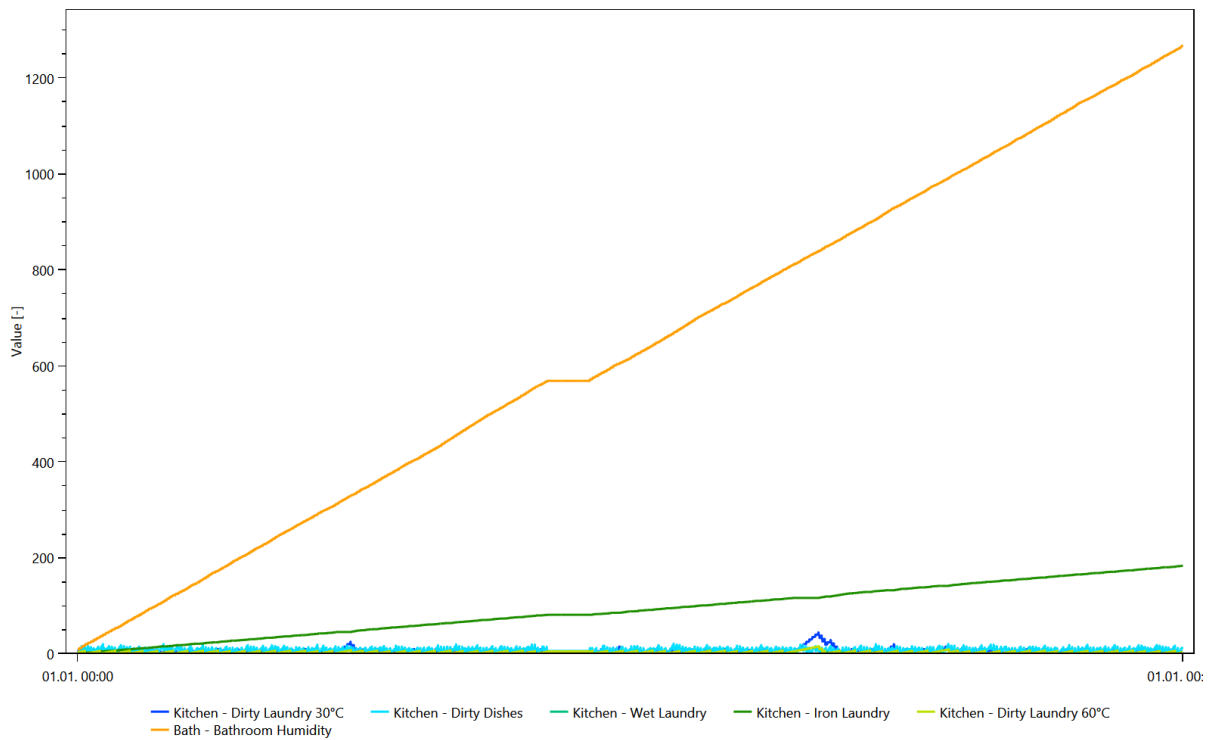


# Variables

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

