

## Overview of the results of the household CHR27 Family both at work, 2 children 0

Calculation Time

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

Energy Intensity: Random

Seed 3347

LoadProfileGenerator 5.8.0.16019

by Noah Pflugradt

<http://www.loadprofilegenerator.de>

Rendering date:16.12.2016 09:20:44

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## Totals

### Totals for each Loadtype

Load Type	Value	Unit
Cold Water	39966.53	L
Electricity	4312.30	kWh
Warm Water	76347.50	L

### Totals for each Loadtype per Day

Load Type	Value	Unit
Cold Water	109.20	L
Electricity	11.78	kWh
Warm Water	208.60	L

### Minimum and Maximum for each Loadtype

Household	Minimum	Maximum	Unit
Cold Water	0.00	16.84	L/Min
Electricity	0.00	11762.96	Watt
Warm Water	0.00	12.50	L/Min

### Totals for each Loadtype per Person

Load Type	Value	Unit
Cold Water	9991.63	L
Electricity	1078.08	kWh

Warm Water	19086.88	L
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### Totals for each Loadtype per Person per Day

Load Type	Value	Unit
Cold Water	27.30	L
Electricity	2.95	kWh
Warm Water	52.15	L

## Persons

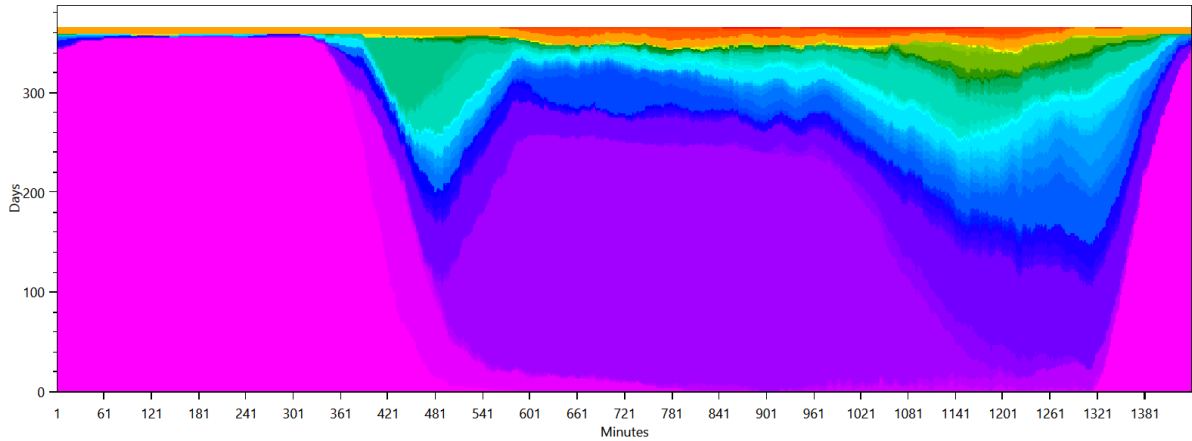
- HH0
  - CHR27 Emil (43/Male)(43/Male)
  - CHR27 Laura (9/Female)(9/Female)
  - CHR27 Melanie (39/Female)(39/Female)
  - CHR27 Tobias (13/Male)(13/Male)

# Activity Frequency Charts

This is made from the files starting with: ActivityFrequenciesPerMinute

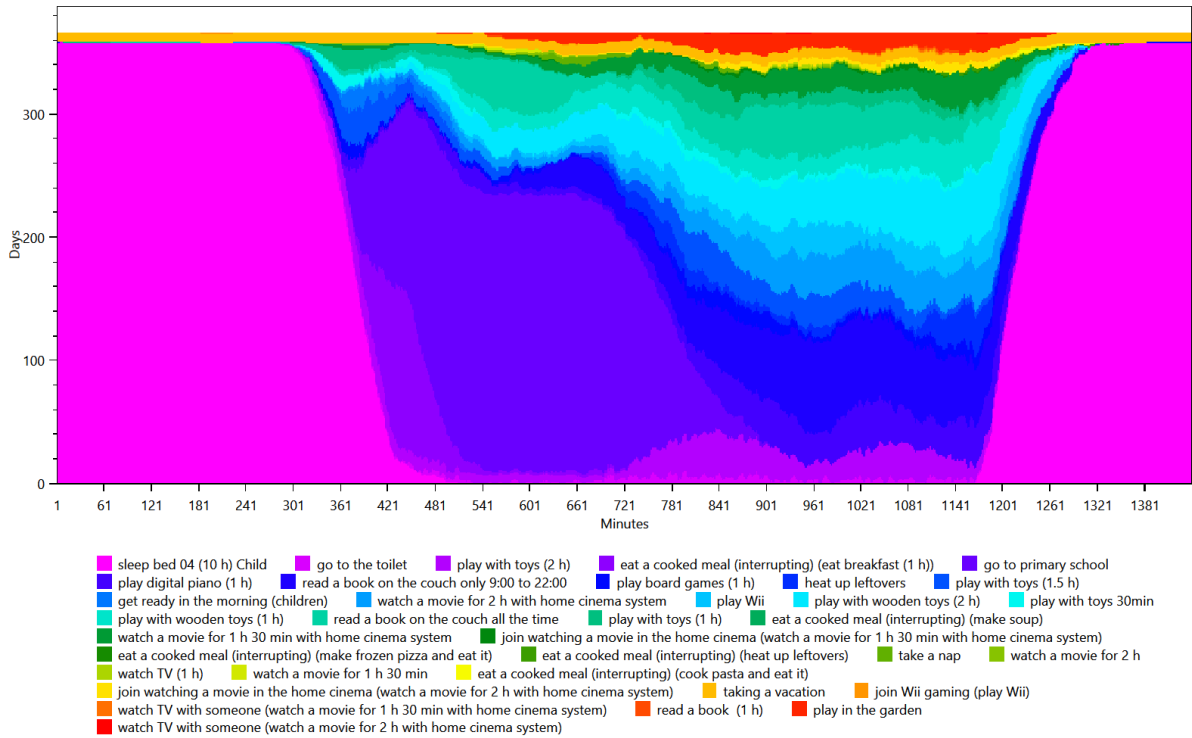
These charts show an ordered distribution of times of the activities of each person. This helps with judging quickly if a person is sleeping correctly and if they are going to work regularly.

HH0 - CHR27 Emil (43 Male)

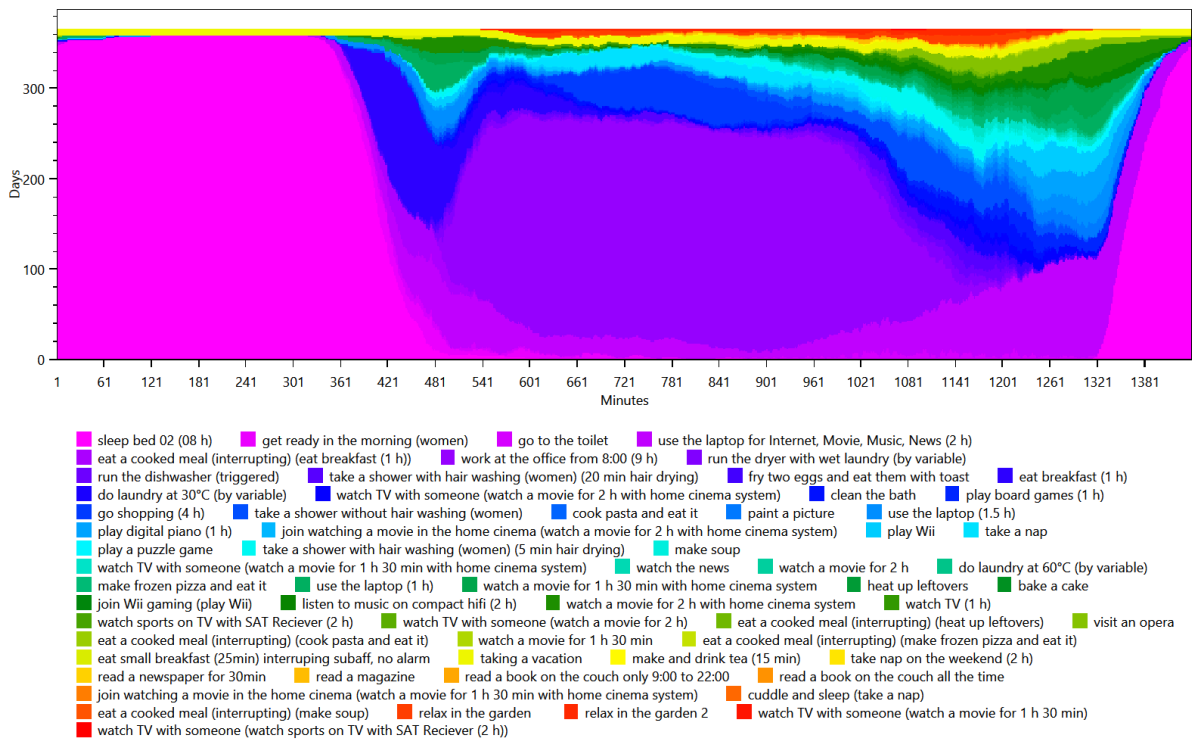


- sleep bed 08 (08 h)
- eat breakfast (1 h)
- go to the toilet
- play Wii
- work as teacher
- take a shower (men)
- use the laptop for Internet, Movie, Music, News (2 h)
- eat a cooked meal (interrupting) (heat up leftovers)
- watch TV with someone (watch a movie for 2 h with home cinema system)
- play board games (1 h)
- read a book on the couch all the time
- get ready in the morning (men)
- fry two eggs and eat them with toast
- bake a cake
- take a nap
- read a book on the couch only 9:00 to 22:00
- use the laptop (1 h)
- watch a movie for 2 h with home cinema system
- play digital piano (1 h)
- make frozen pizza and eat it
- paint a picture
- use the laptop (1.5 h)
- play a puzzle game
- vacuum the household
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- go shopping for food in the supermarket (1.5 h)
- watch a movie for 1 h 30 min with home cinema system
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- heat up leftovers
- listen to music on compact hifi (2 h)
- make and drink tea (15 min)
- watch TV (1 h)
- read a newspaper for 30min
- read a magazine
- watch a movie for 1 h 30 min
- make soup
- watch sports on TV with SAT Reciever (2 h)
- watch TV with someone (watch TV (1 h))
- visit an opera
- cook pasta and eat it
- eat a cooked meal (interrupting) (make soup)
- cuddle and sleep (take a nap)
- join Wii gaming (play Wii)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- eat small breakfast (25min) interrupting subaff, no alarm
- read a book (1 h)
- eat a cooked meal (interrupting) (cook pasta and eat it)
- taking a vacation
- watch TV with someone (watch sports on TV with SAT Reciever (2 h))
- watch the news
- relax in the garden 2
- relax in the garden
- watch TV with someone (watch a movie for 1 h 30 min)
- take nap on the weekend (2 h)
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)

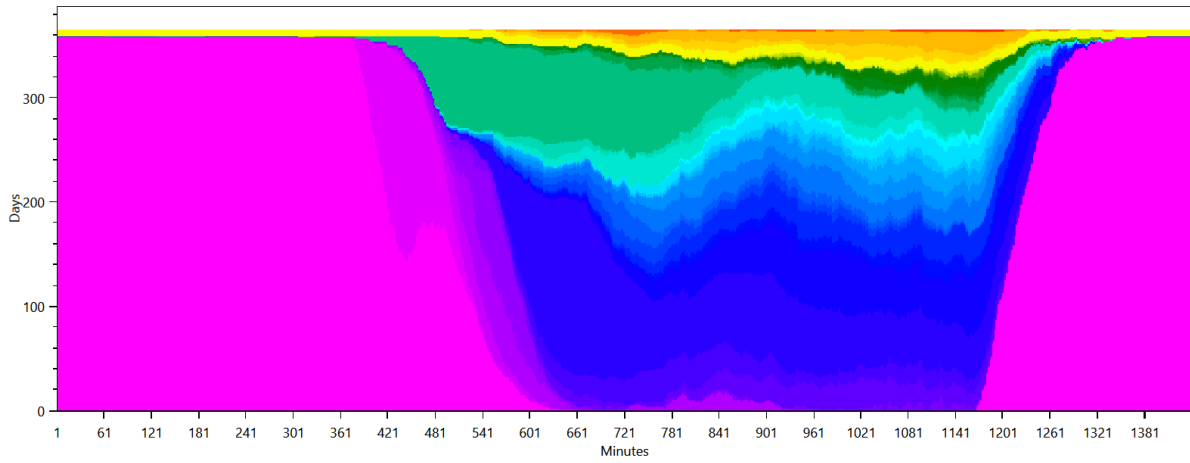
## HH0 - CHR27 Laura (9 Female)



## HH0 - CHR27 Melanie (39 Female)



## HH0 - CHR27 Tobias (13 Male)



- sleep bed 03 (12 h) Child
- eat a cooked meal (interrupting) (eat breakfast (1 h))
- get ready in the morning (children)
- take a shower (men)
- eat small breakfast (25min) interrupting subaff, no alarm
- go to the toilet
- use the laptop (1 h)
- play with toys (2 h)
- use the laptop for Internet, Movie, Music, News (2 h)
- read a book on the couch only 9:00 to 22:00
- play Wii
- watch a movie for 2 h with home cinema system
- play board games (1 h)
- play with toys (1 h)
- play digital piano (1 h)
- read a book on the couch all the time
- watch TV with someone (watch a movie for 2 h with home cinema system)
- paint a picture
- watch a movie for 1 h 30 min with home cinema system
- play a puzzle game
- eat a cooked meal (interrupting) (make frozen pizza and eat it)
- play with toys (1.5 h)
- use the laptop (1.5 h)
- join Wii gaming (play Wii)
- go to grammar school
- make frozen pizza and eat it
- play with toys 30min
- heat up leftovers
- watch TV with someone (watch a movie for 1 h 30 min with home cinema system)
- listen to music on compact hifi (2 h)
- read a book (1 h)
- eat a cooked meal (interrupting) (heat up leftovers)
- make soup
- eat a cooked meal (interrupting) (make soup)
- watch TV with someone (watch TV (1 h))
- watch TV with someone (watch a movie for 2 h)
- join watching a movie in the home cinema (watch a movie for 2 h with home cinema system)
- watch TV with someone (watch a movie for 1 h 30 min)
- taking a vacation
- join watching a movie in the home cinema (watch a movie for 1 h 30 min with home cinema system)
- play in the garden
- relax in the garden 2
- eat a cooked meal (interrupting) (cook pasta and eat it)
- make and drink tea (15 min)
- take a nap
- take nap on the weekend (2 h)
- watch sports on TV with SAT Receiver (2 h)
- watch a movie for 2 h
- watch TV with someone (watch sports on TV with SAT Receiver (2 h))

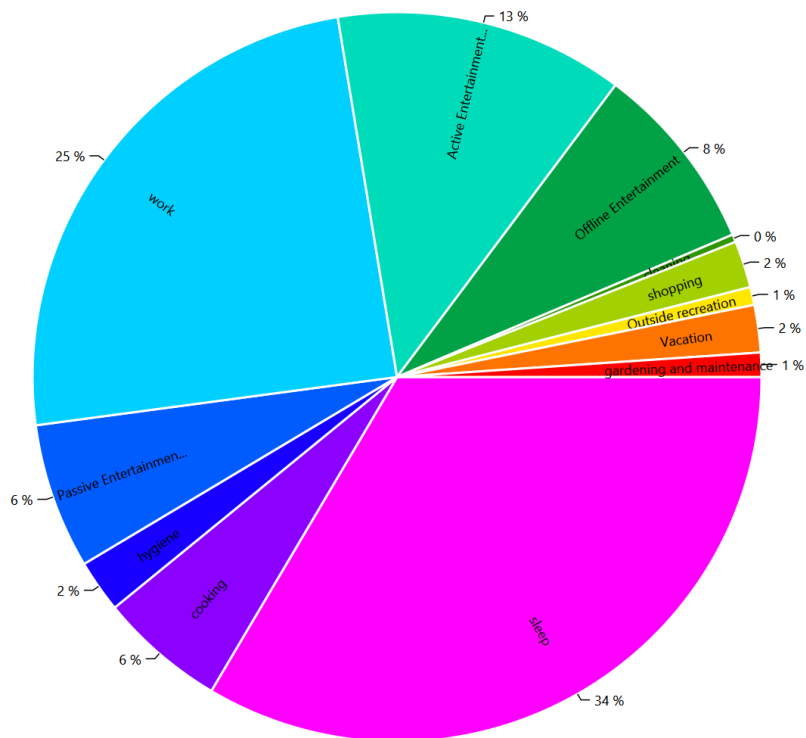


# Activity Distribution per Person

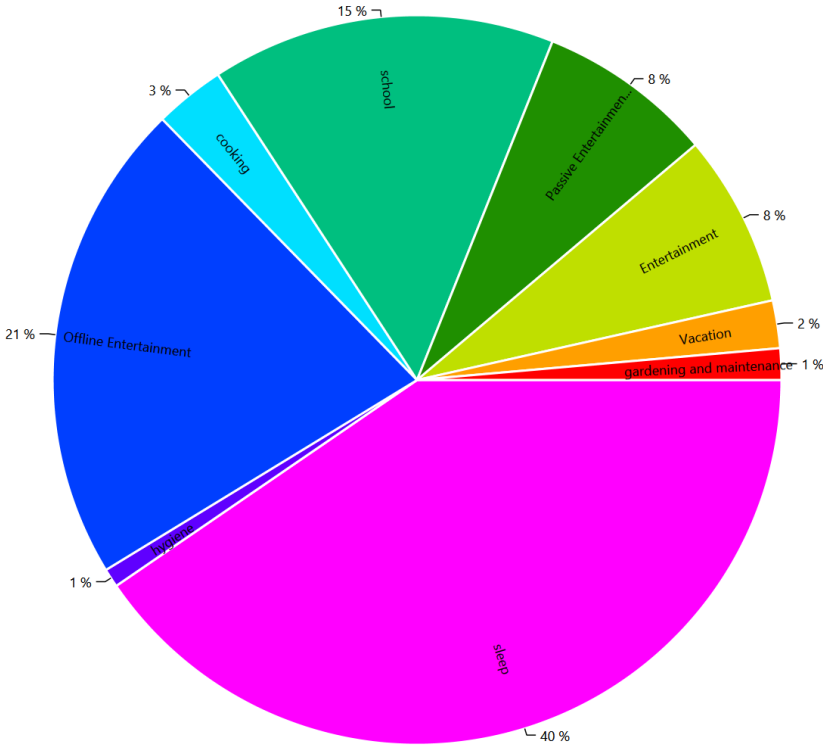
This is made from the files starting with: ActivityPercentage

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

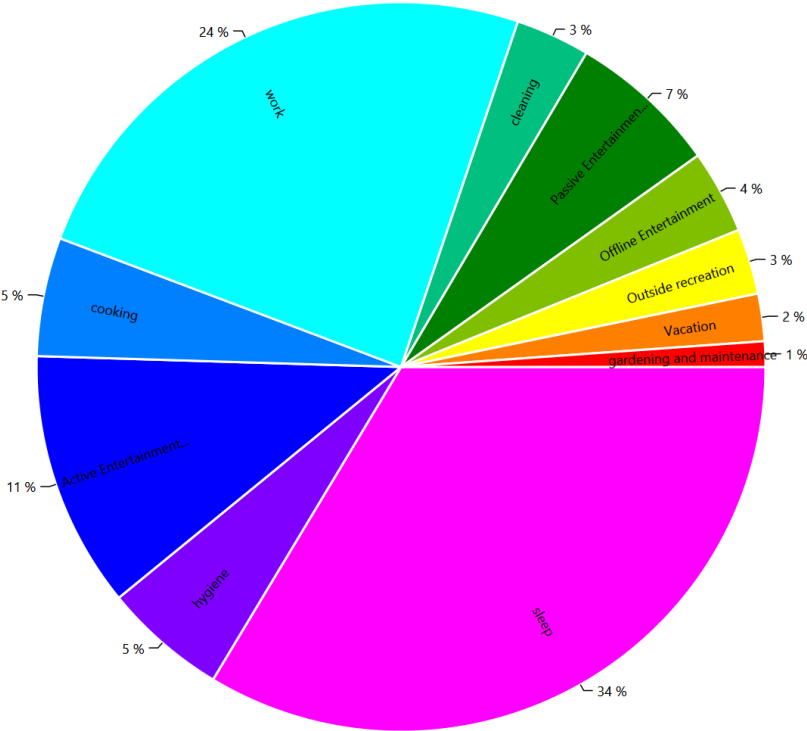
HH0 - CHR27 Emil (43 Male)



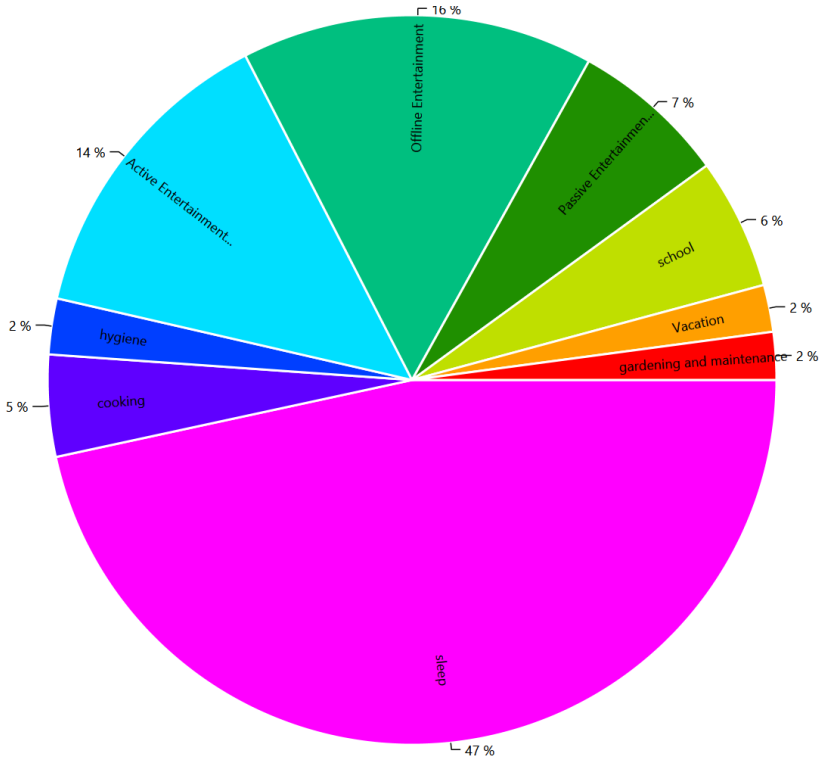
HH0 - CHR27 Laura (9 Female)



HH0 - CHR27 Melanie (39 Female)



HH0 - CHR27 Tobias (13 Male)

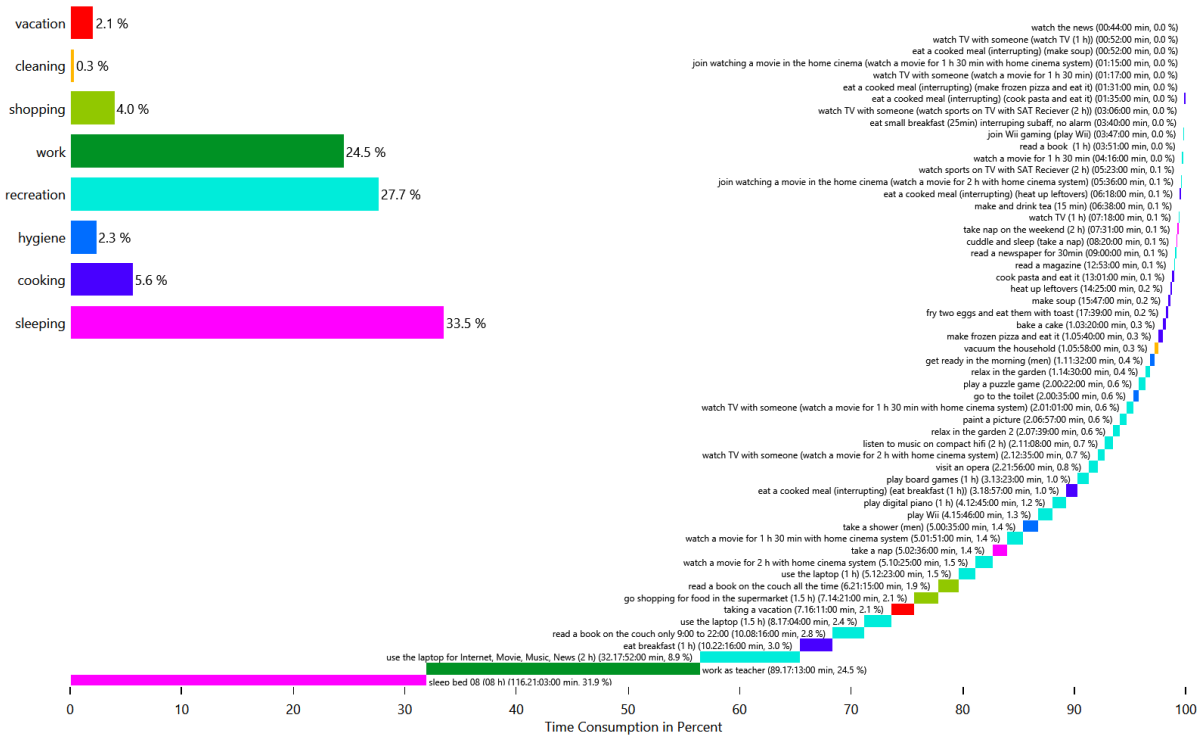


# Time Use per Person per Affordance Per Person

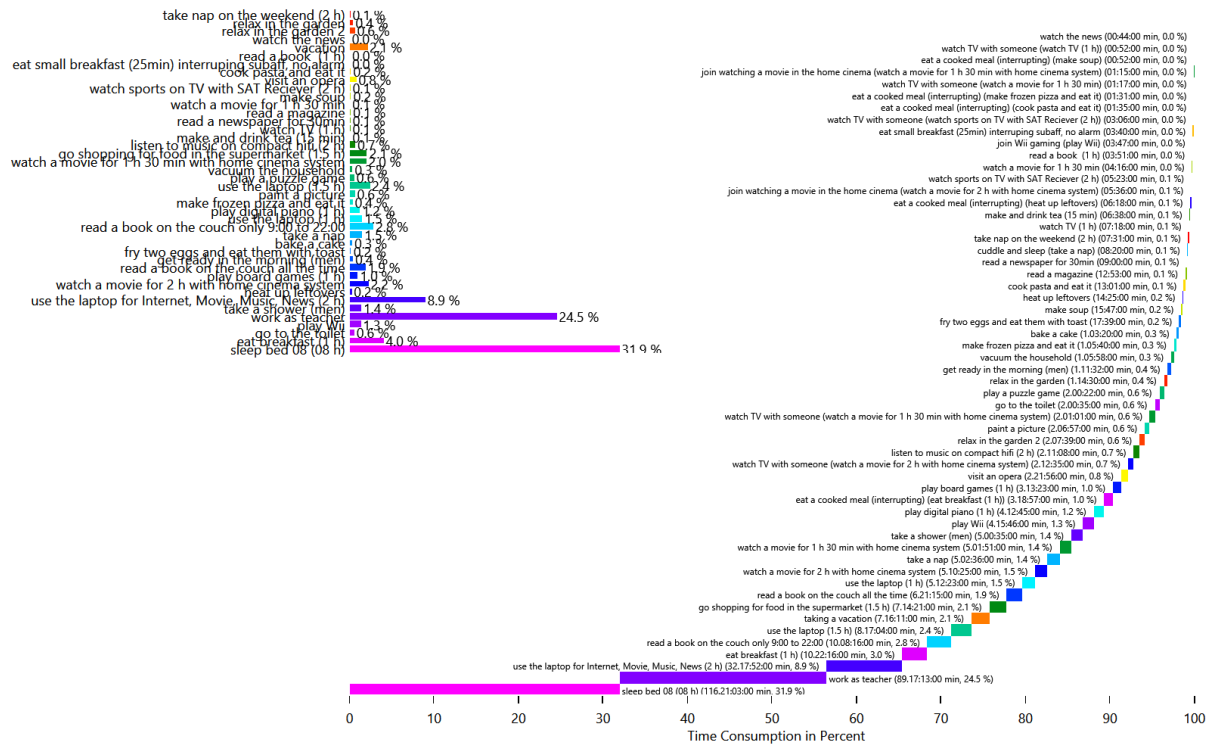
This is made from the files starting with: AffordanceTimeUse

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.

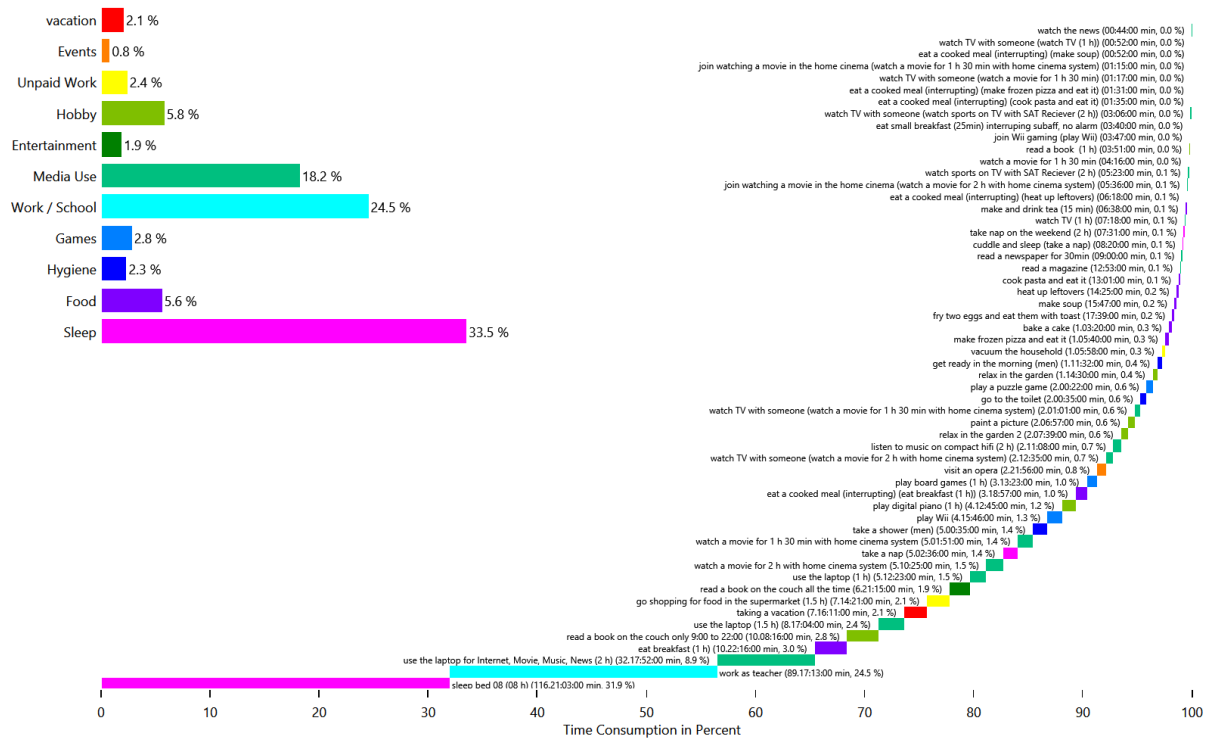
## HH0 - CHR27 Emil (43 Male)



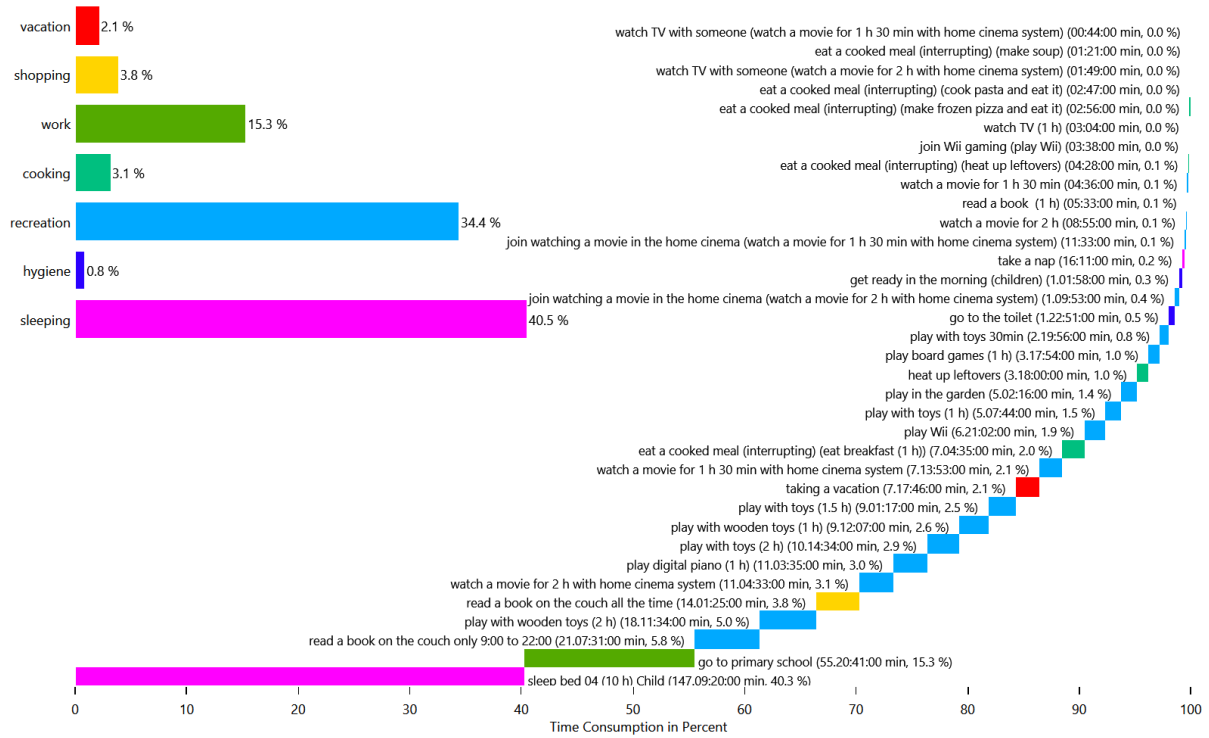
# HH0 - CHR27 Emil (43 Male)



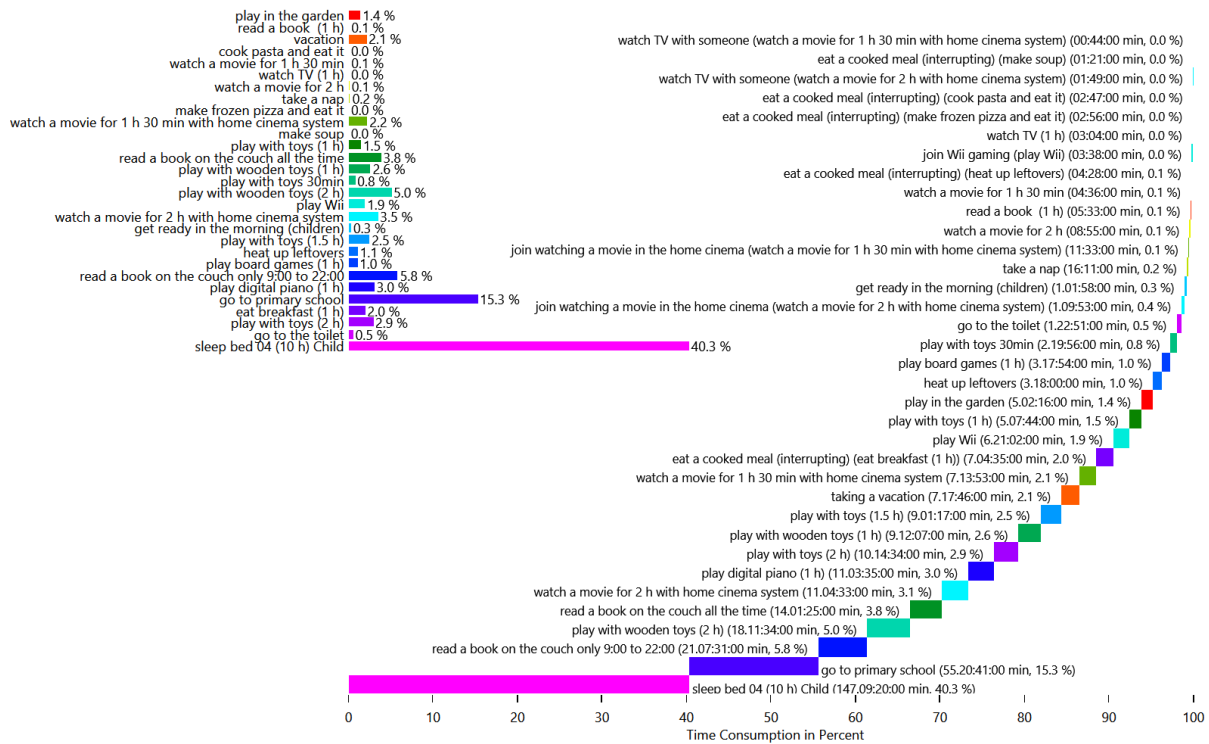
# HH0 - CHR27 Emil (43 Male)



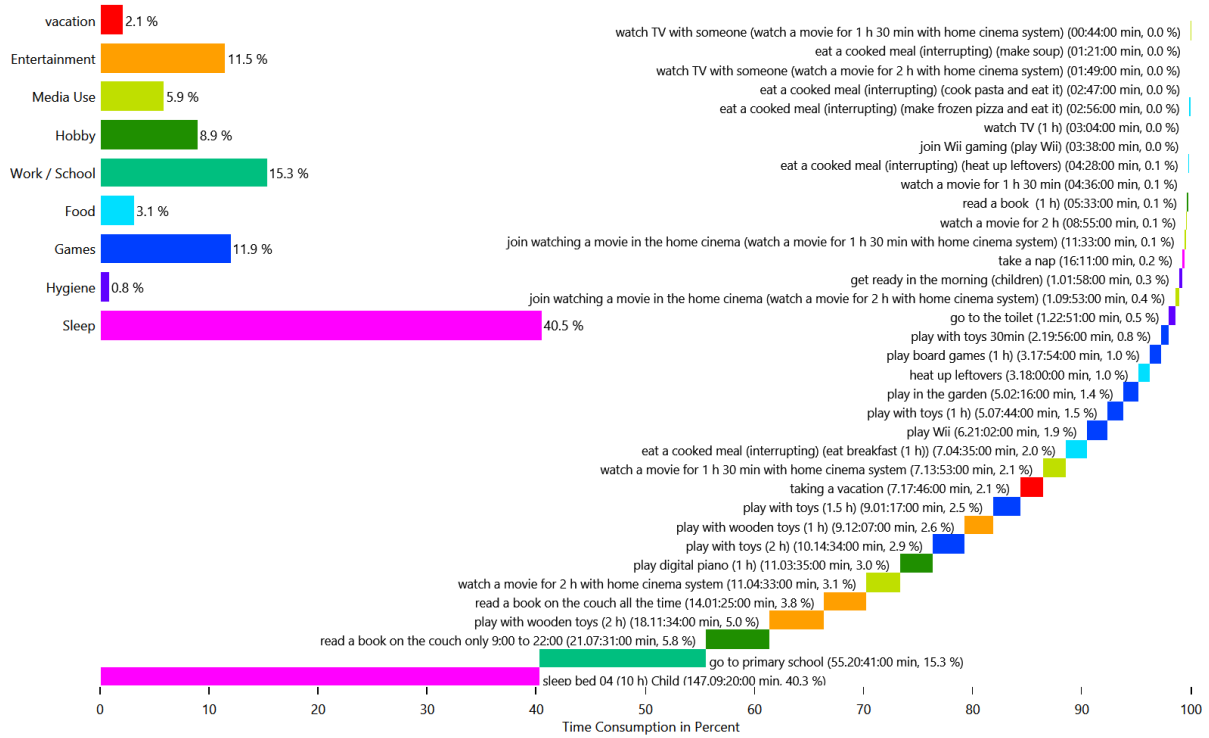
## HH0 - CHR27 Laura (9 Female)



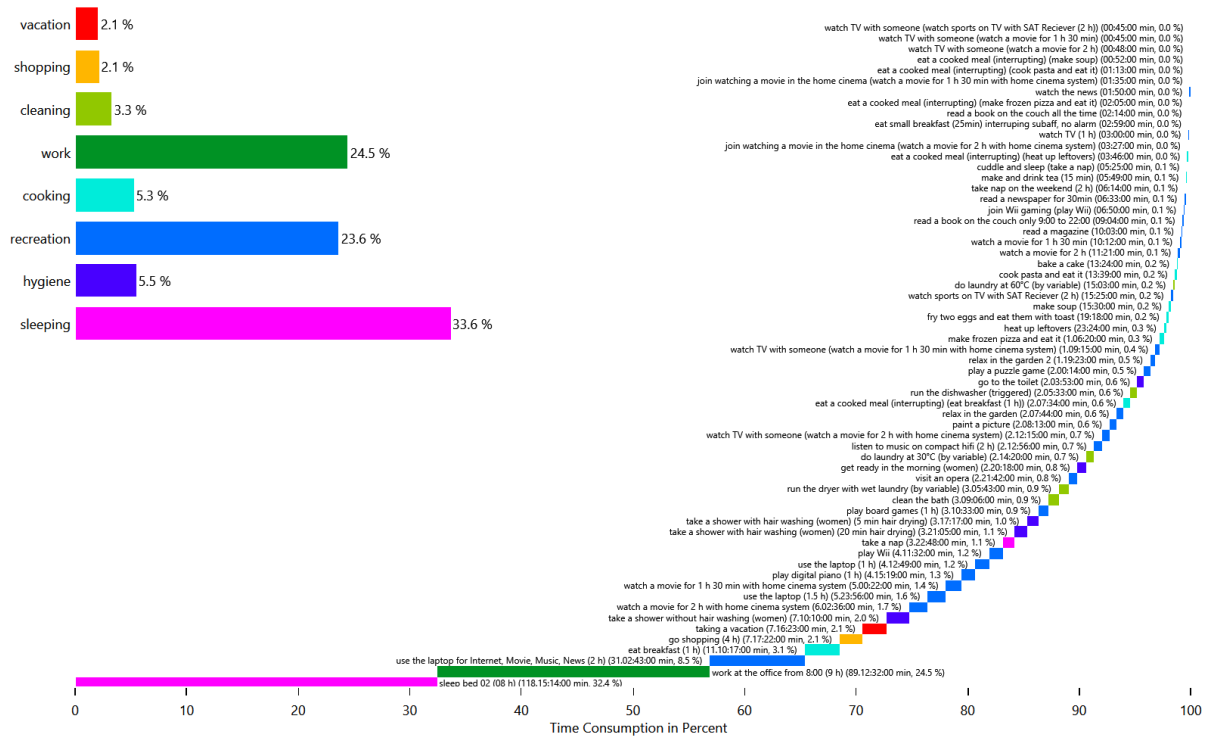
## HH0 - CHR27 Laura (9 Female)



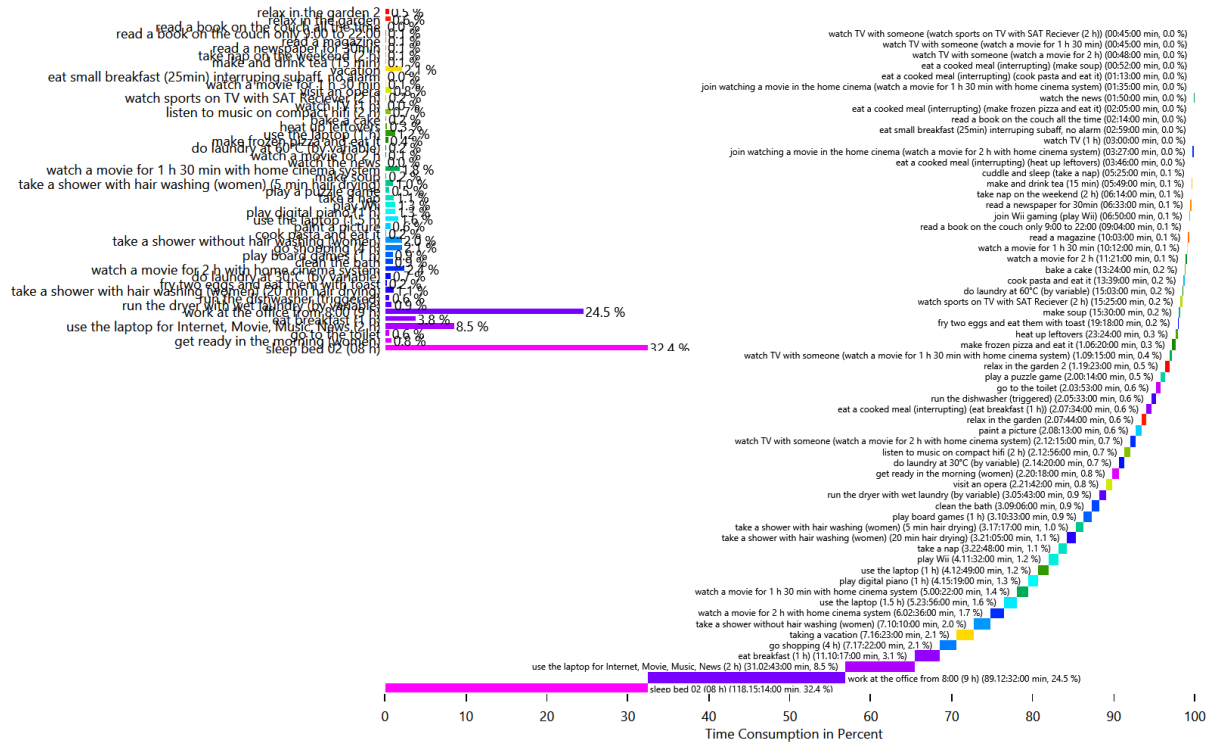
## HH0 - CHR27 Laura (9 Female)



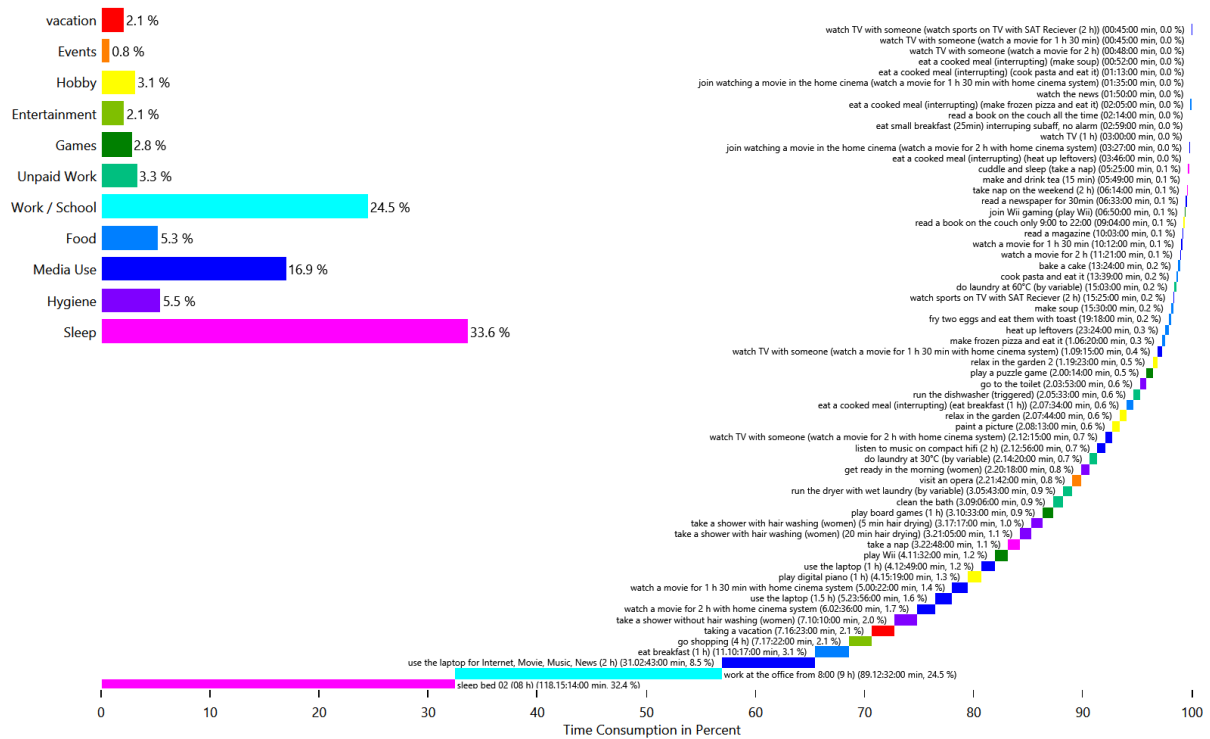
## HH0 - CHR27 Melanie (39 Female)



## HH0 - CHR27 Melanie (39 Female)

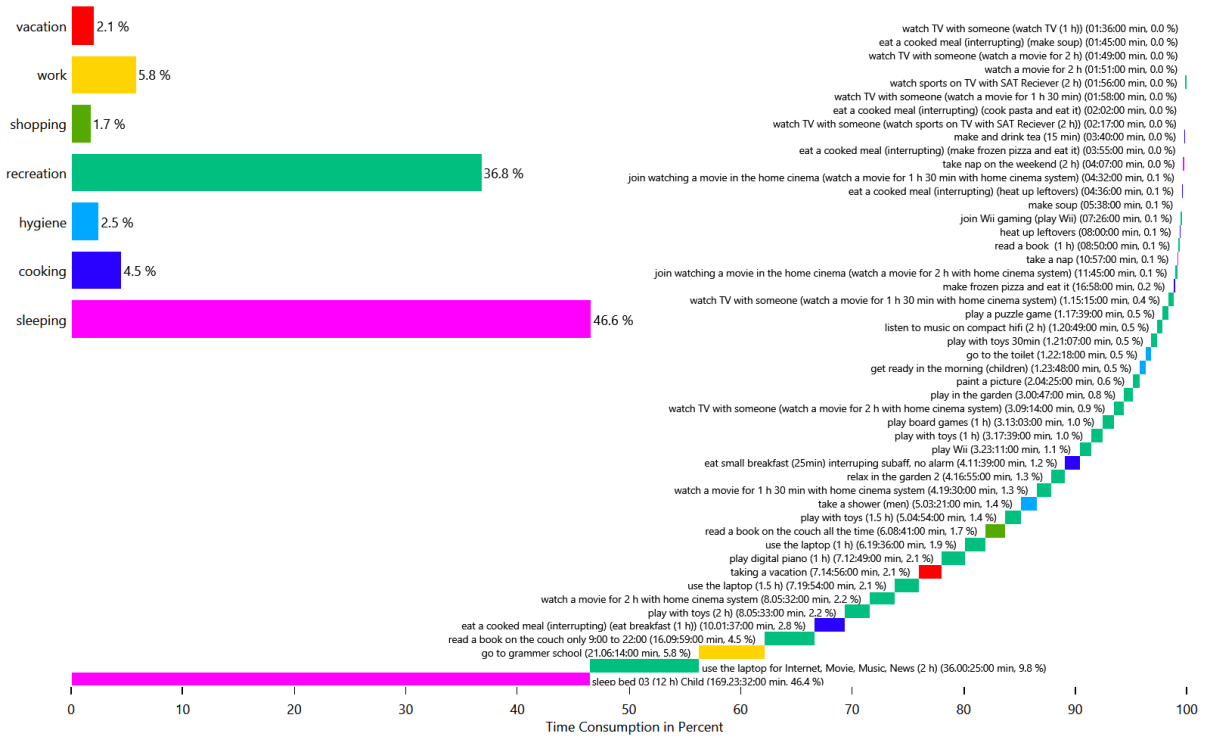


## HH0 - CHR27 Melanie (39 Female)

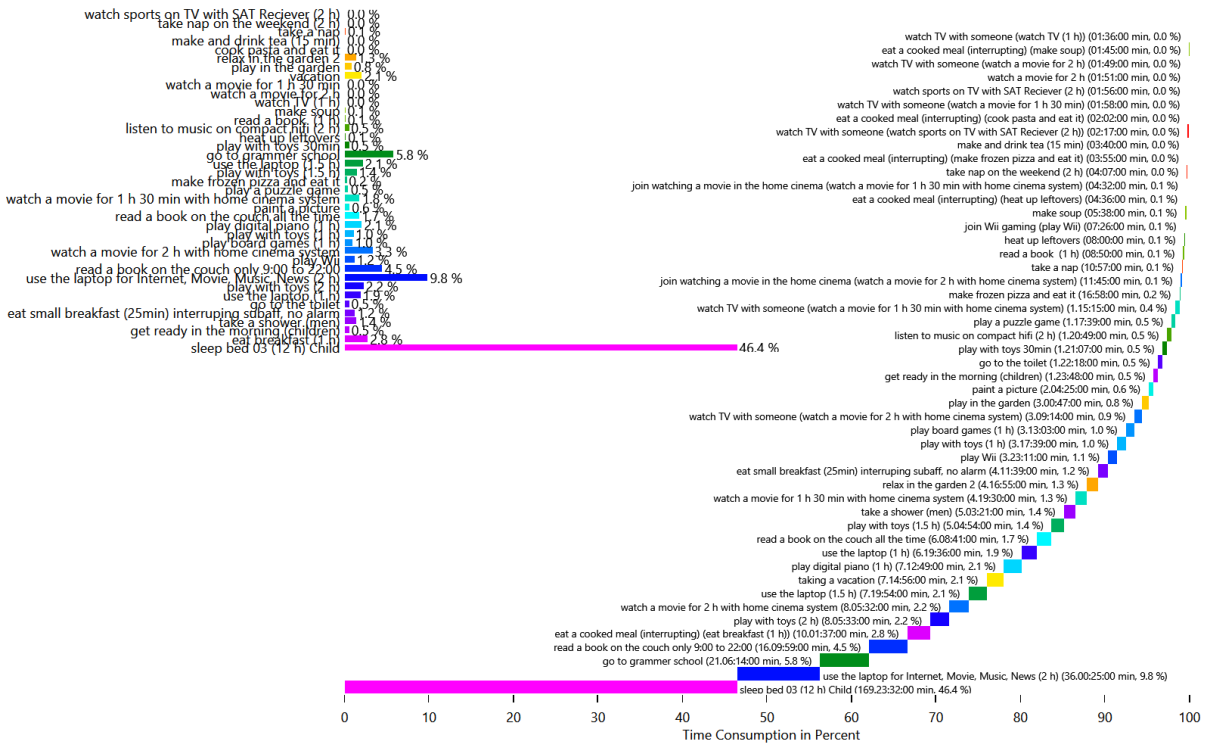




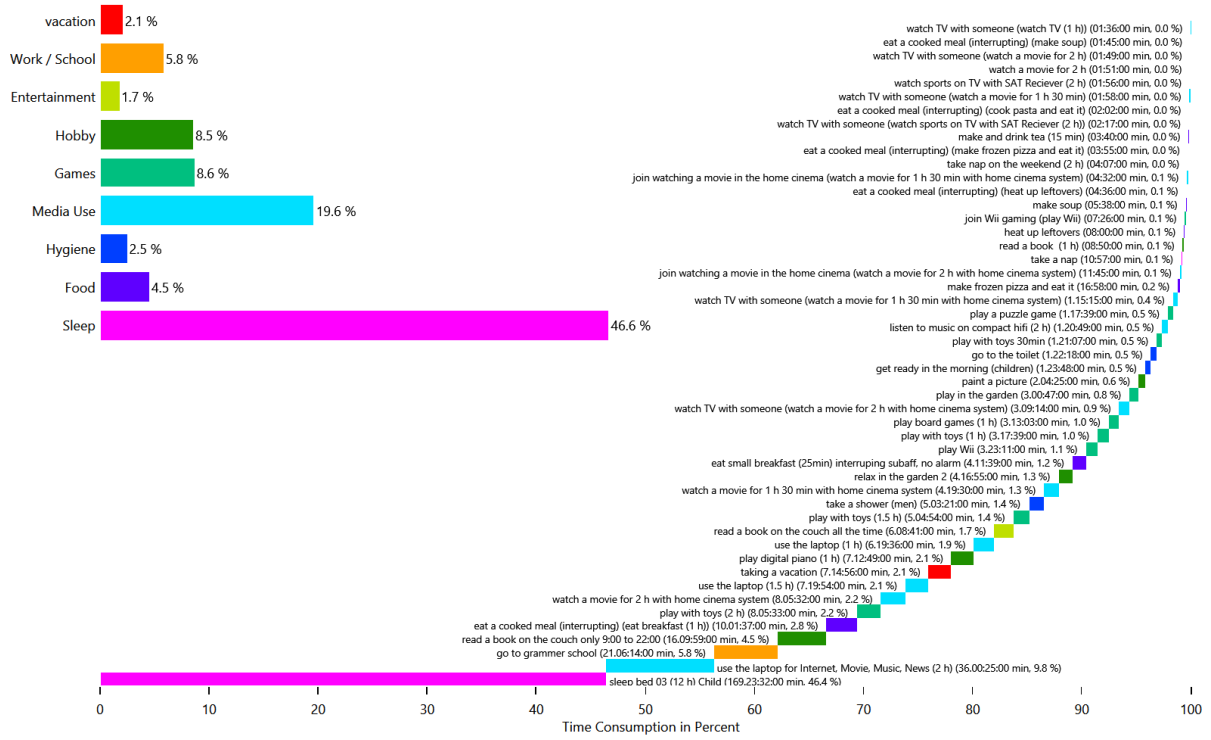
# HH0 - CHR27 Tobias (13 Male)



# HH0 - CHR27 Tobias (13 Male)



# HH0 - CHR27 Tobias (13 Male)

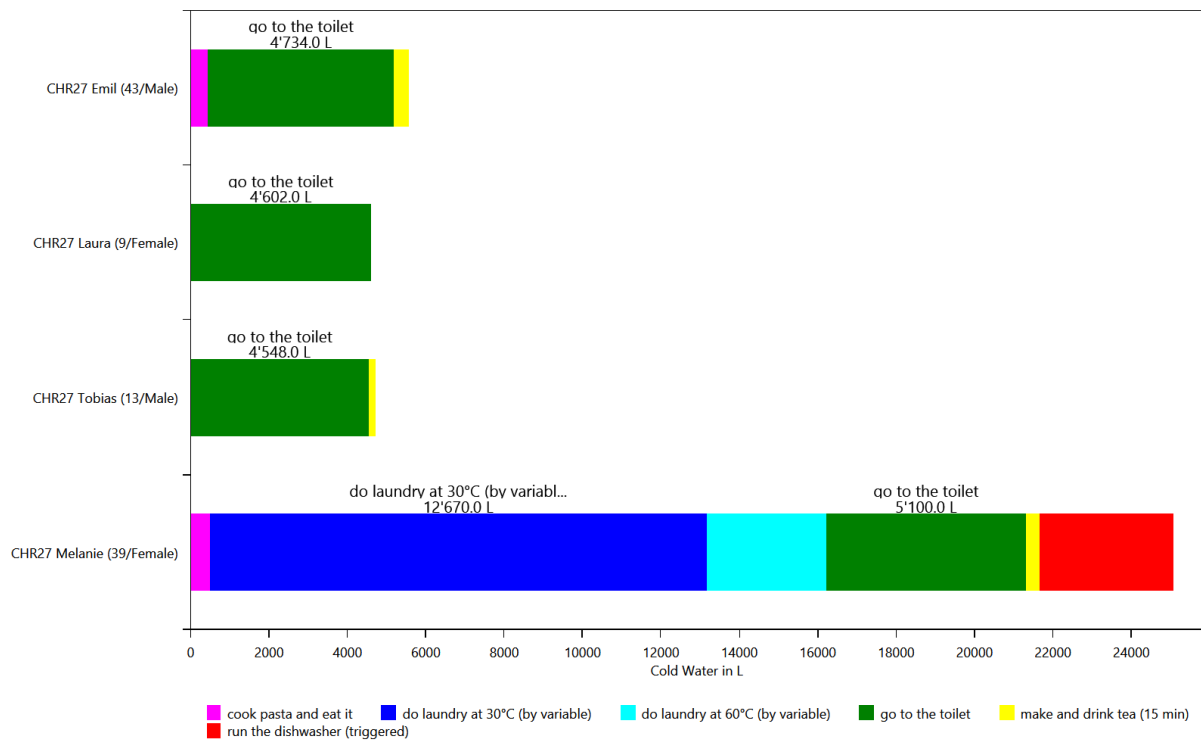


# Energy use per person per affordance

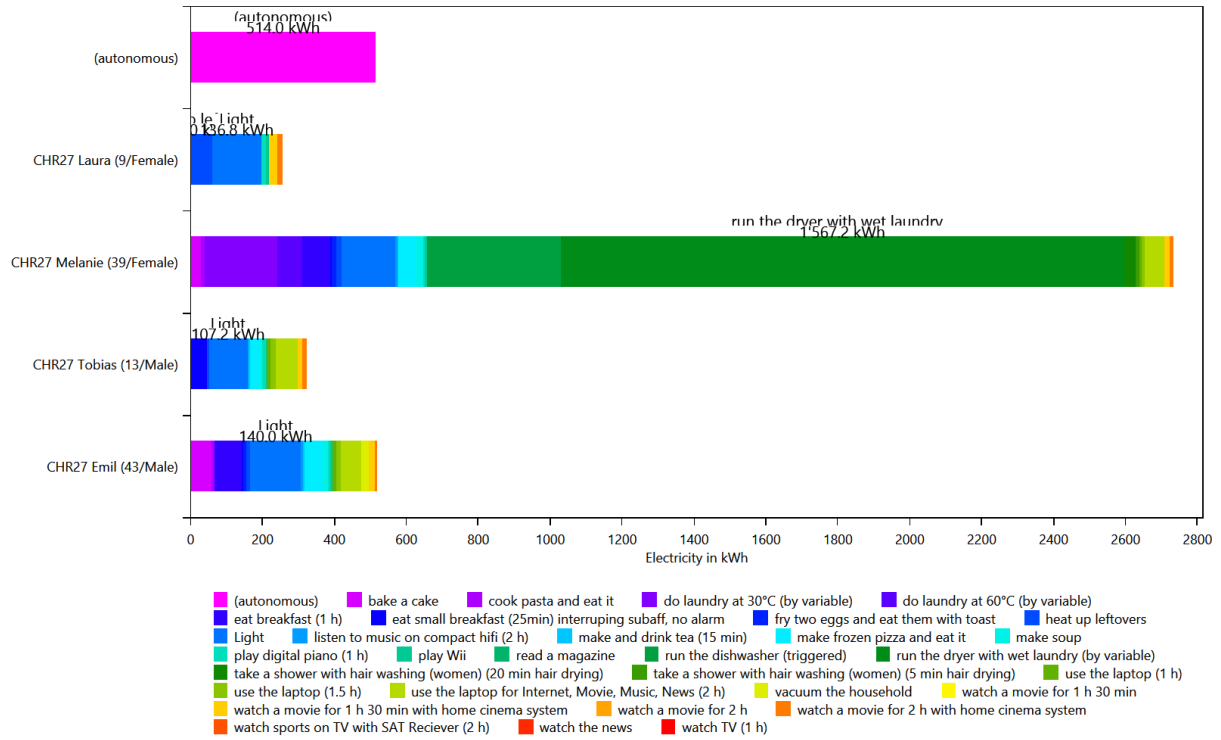
This is made from the files starting with: `AffordanceEnergyUsePerPerson`

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.

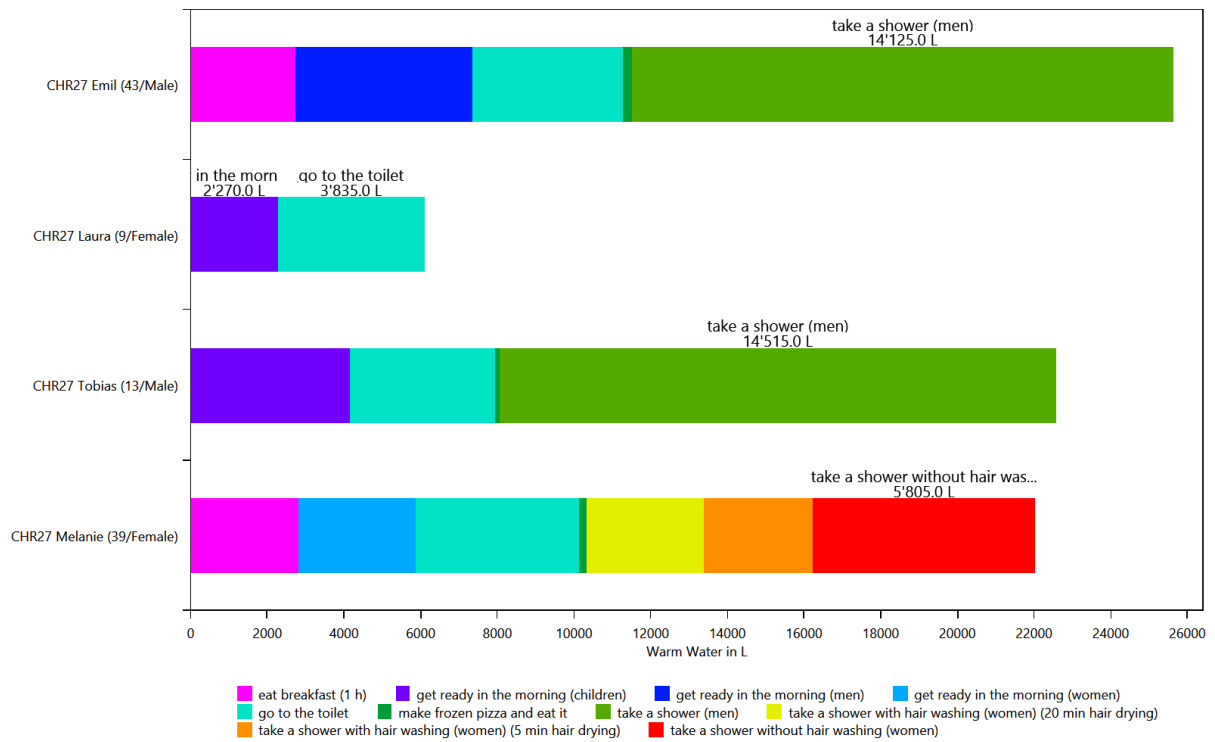
## HH0 - Cold Water



## HH0 - Electricity



## HH0 - Warm Water

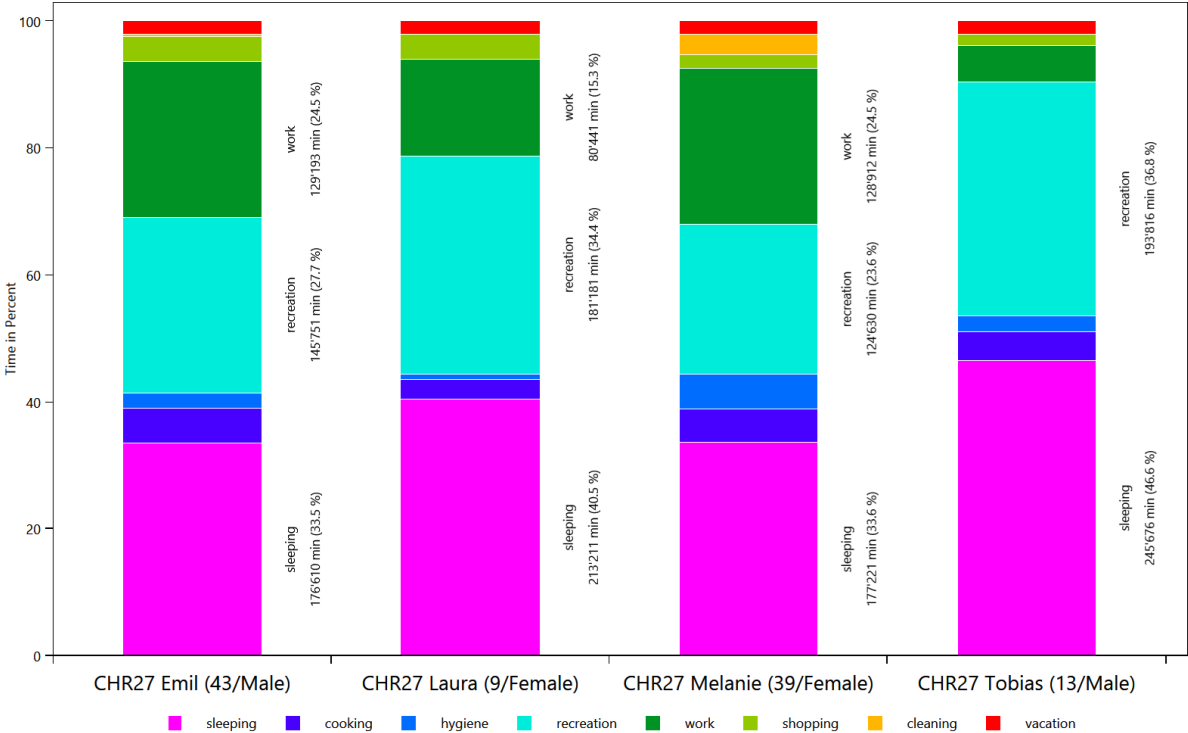


# Time Use per Person Per Affordance according to different category definitions

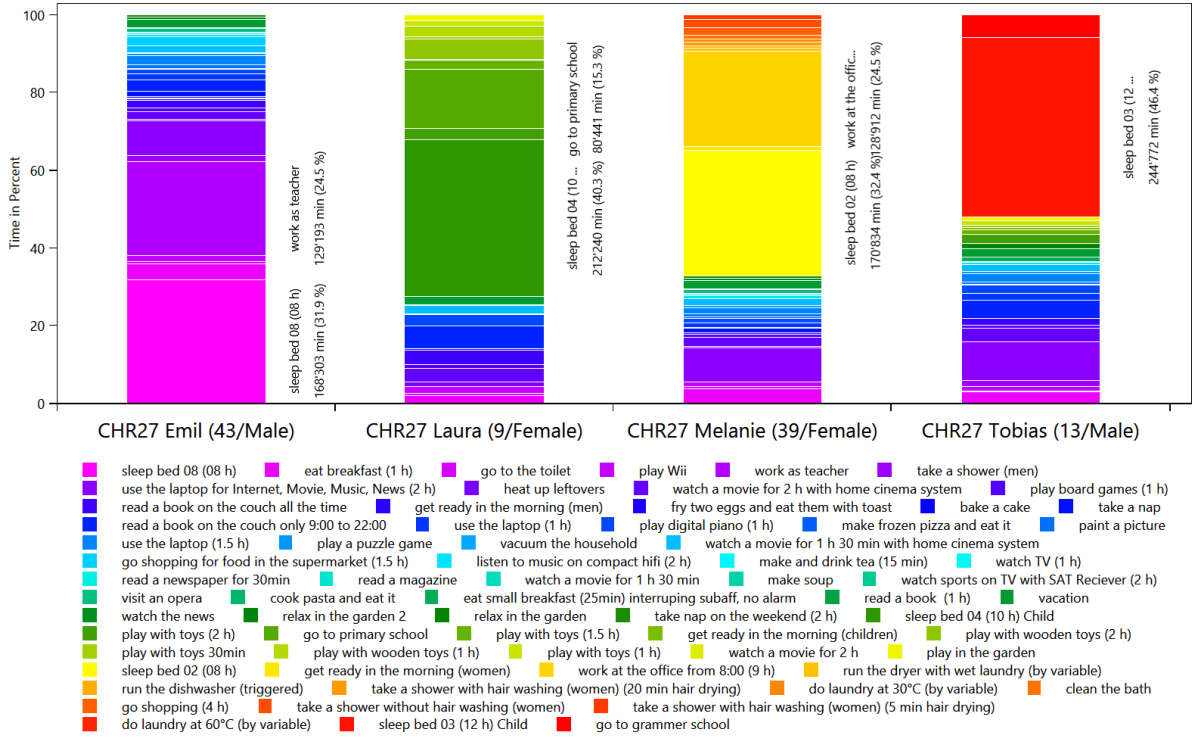
This is made from the files starting with: AffordanceTaggingSet

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.

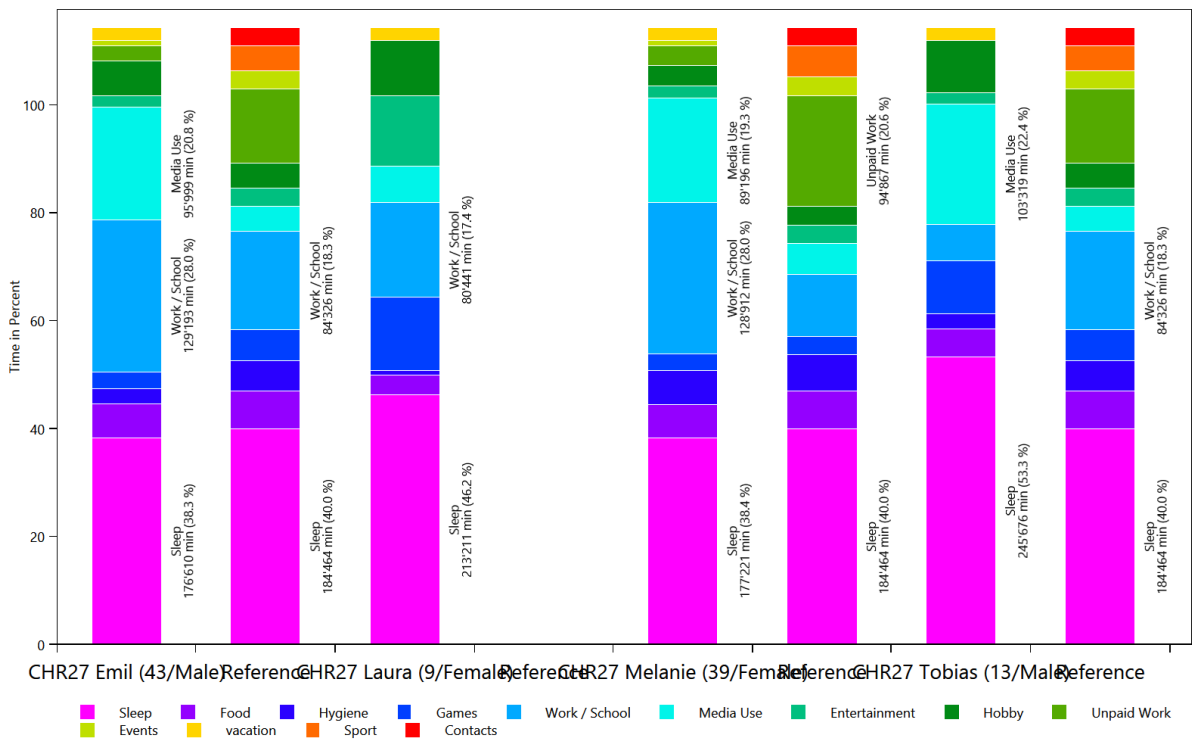
## Basic Tagging - HH0



## Tagging Set For Planning - HHO



## Wo bleibt die Zeit - HHO

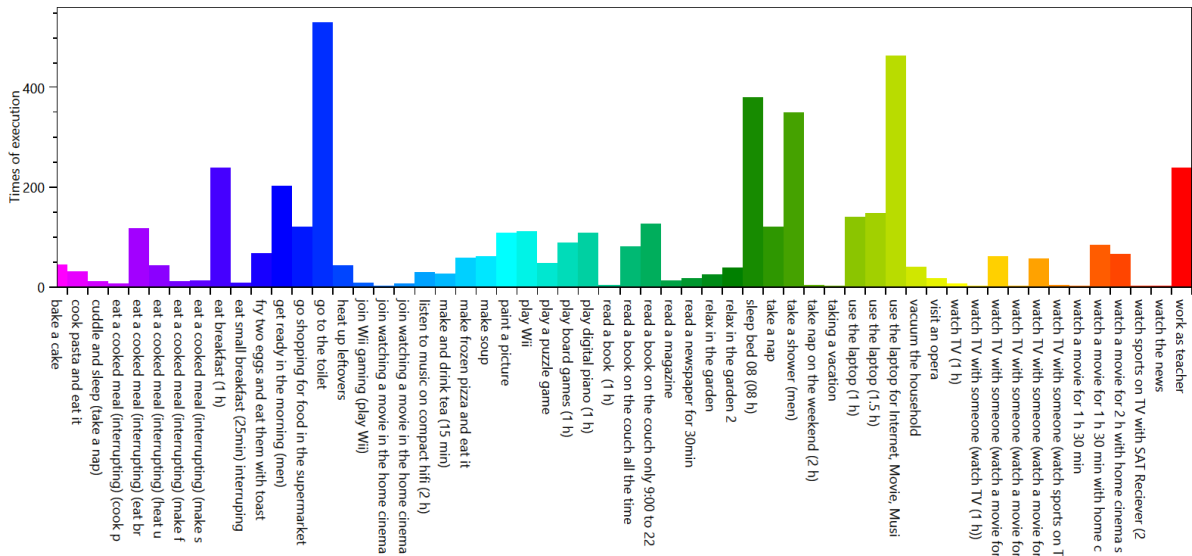


# Overview of the actions of each member of the household

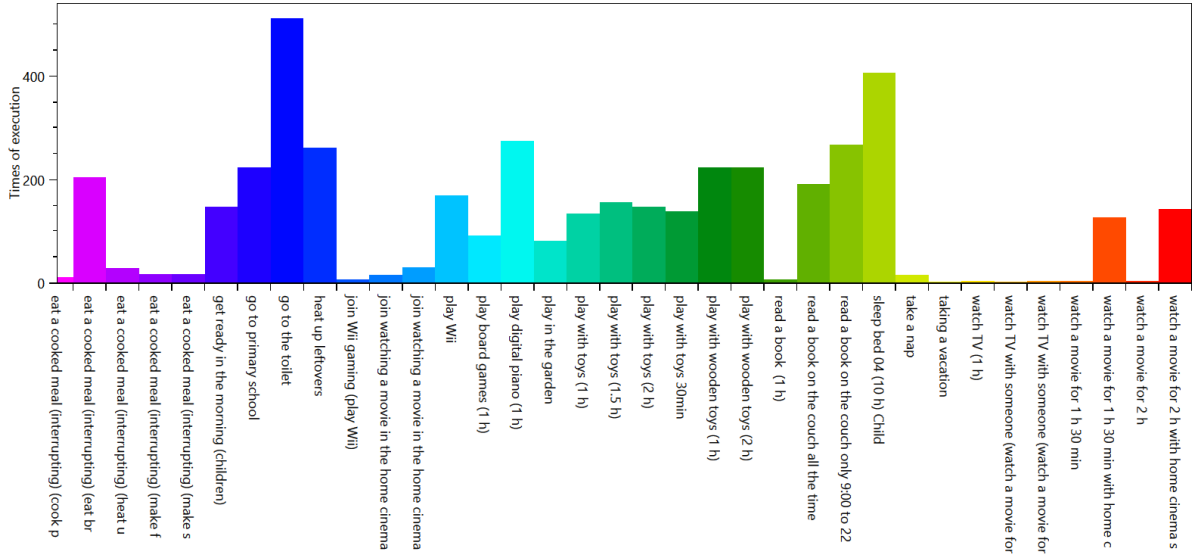
This is made from the files starting with: ExecutedActionsOverviewCount

These charts show how often each affordance was executed.

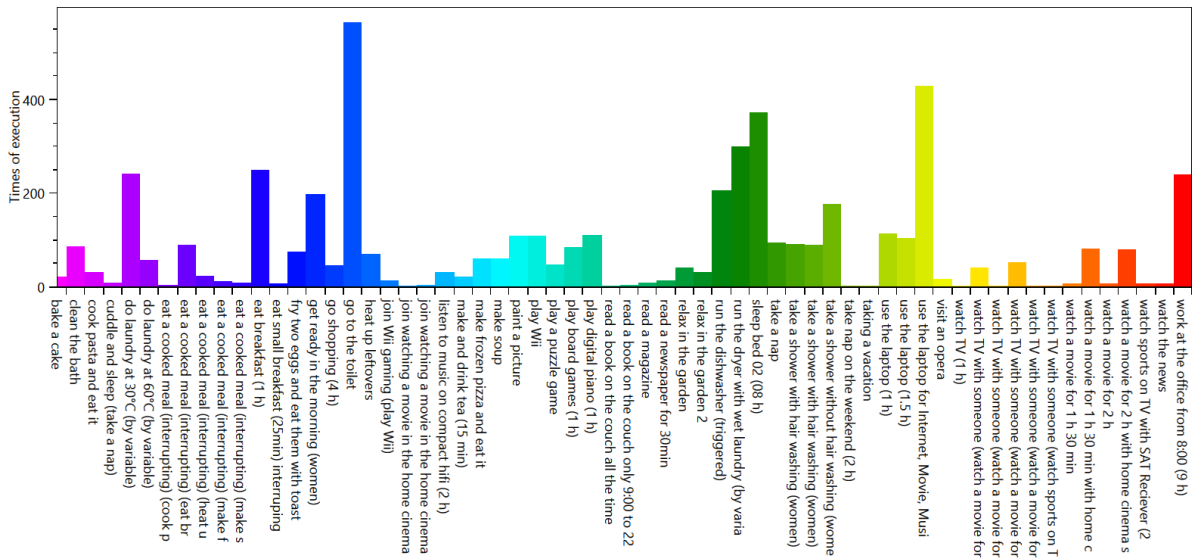
HH0 - CHR27 Emil (43 Male)



## HH0 - CHR27 Laura (9 Female)

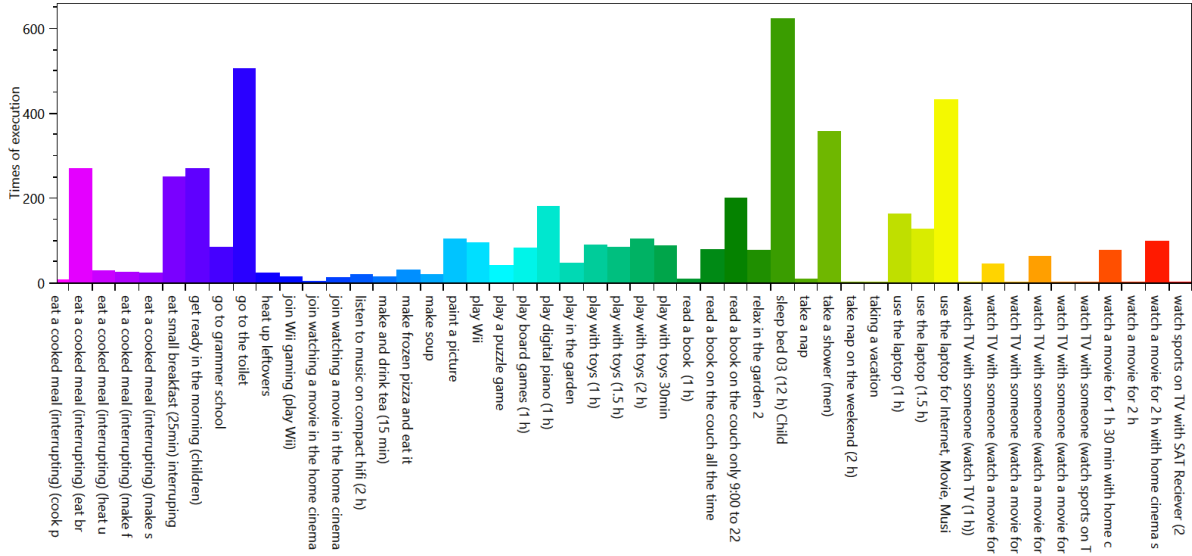


## HH0 - CHR27 Melanie (39 Female)





# HH0 - CHR27 Tobias (13 Male)

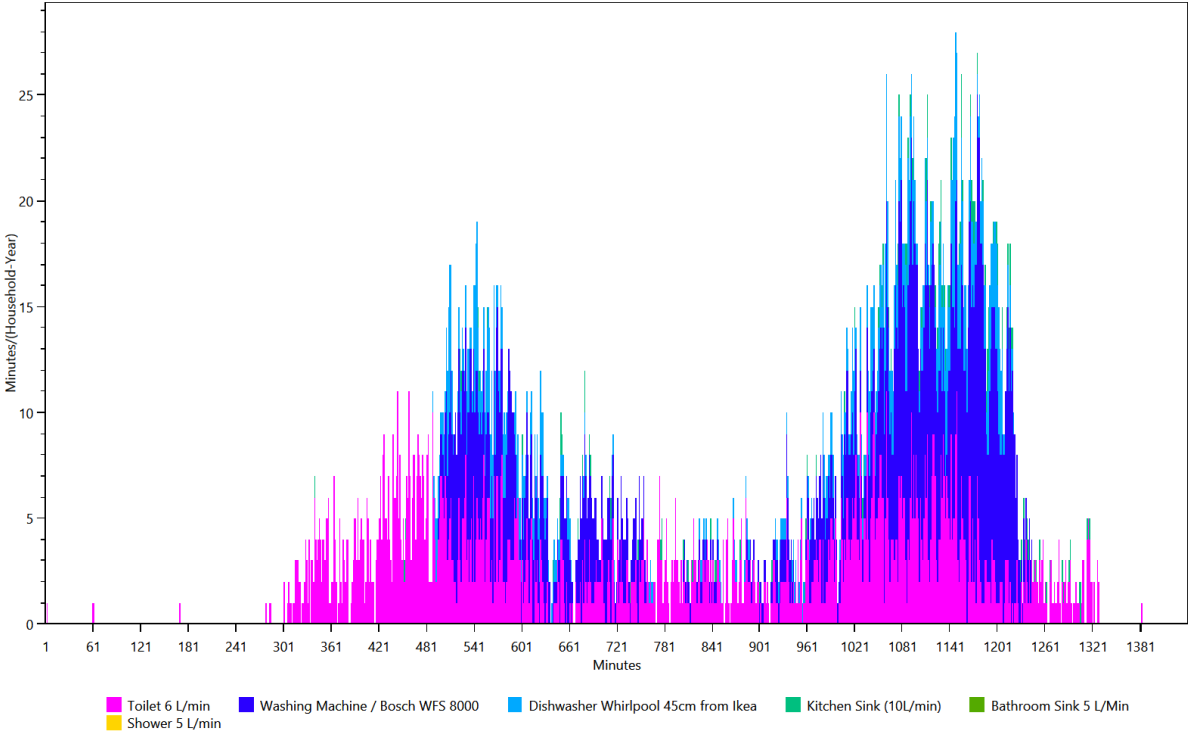


# Overview of the time of the use per load type per device

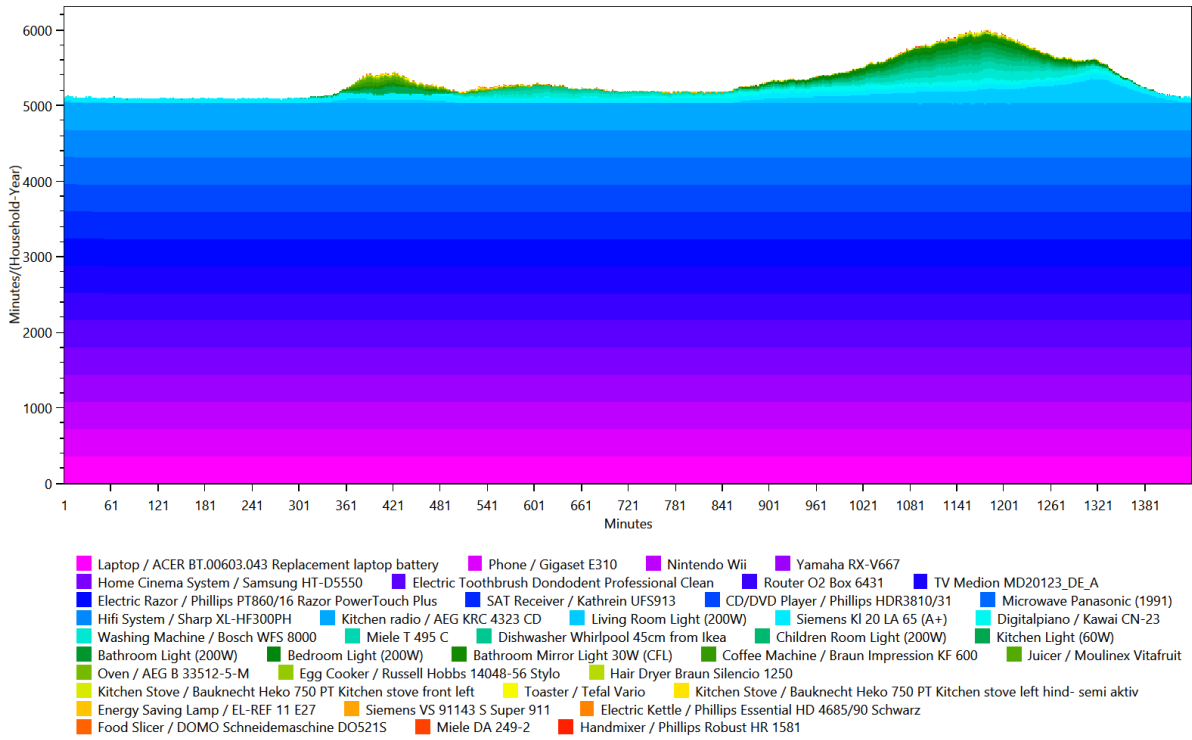
This is made from the files starting with: TimeOfUseEnergyProfiles

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

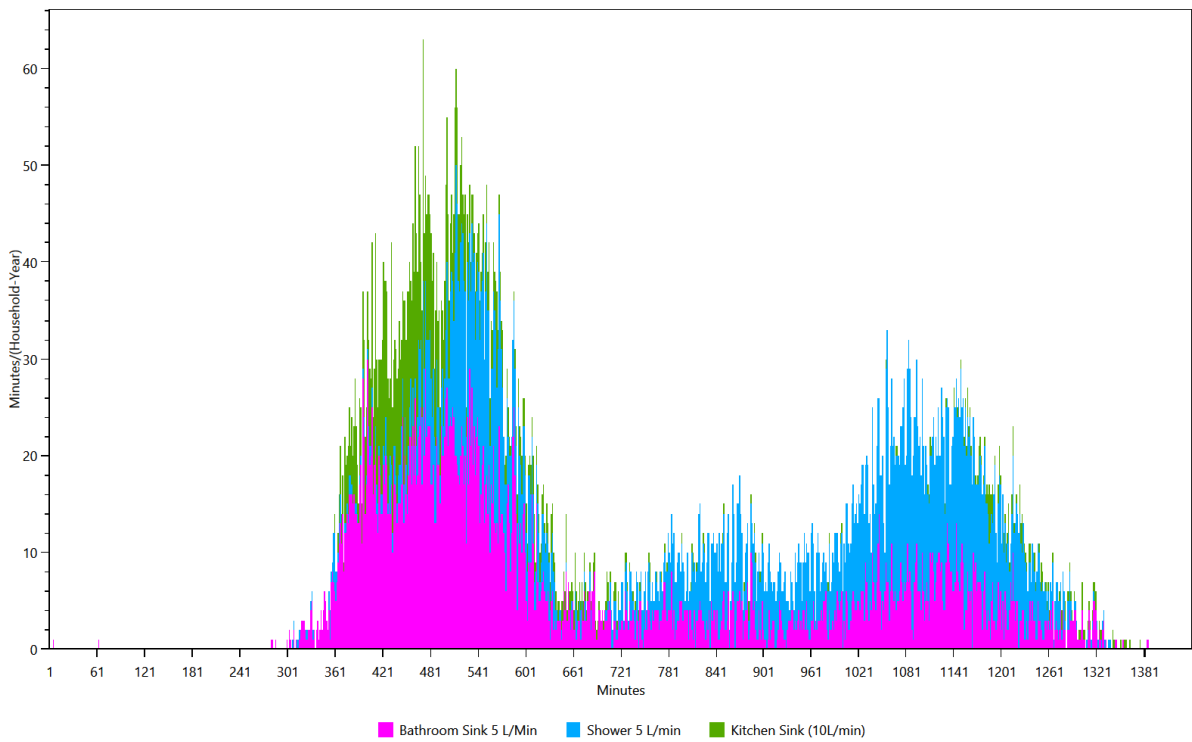
## Cold Water



## Electricity



## Warm Water

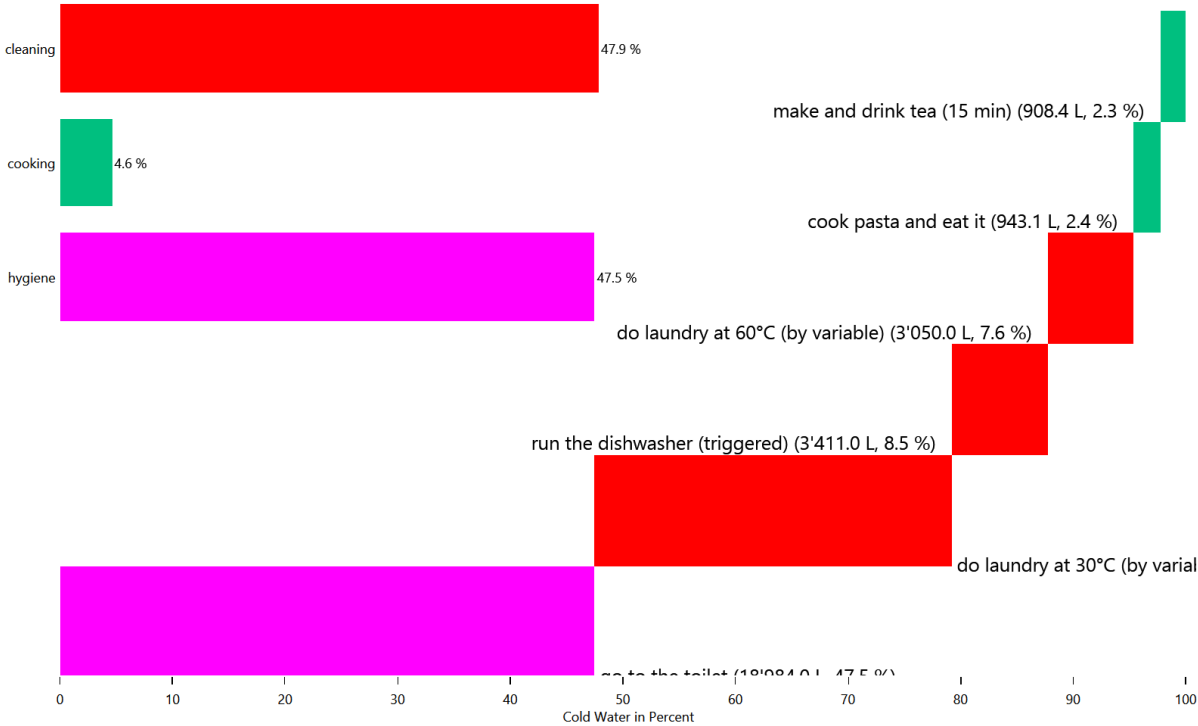


# Energy/Resource use distribution per load type per affordance

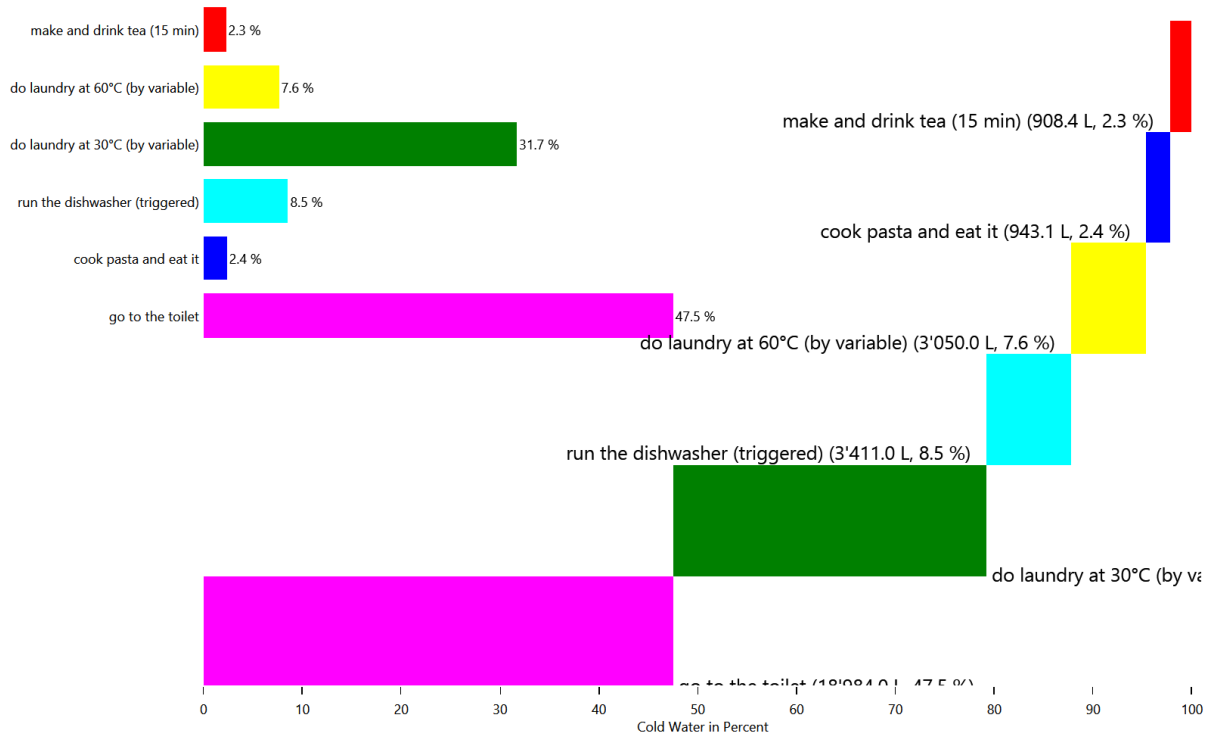
This is made from the files starting with: AffordanceEnergyUse

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

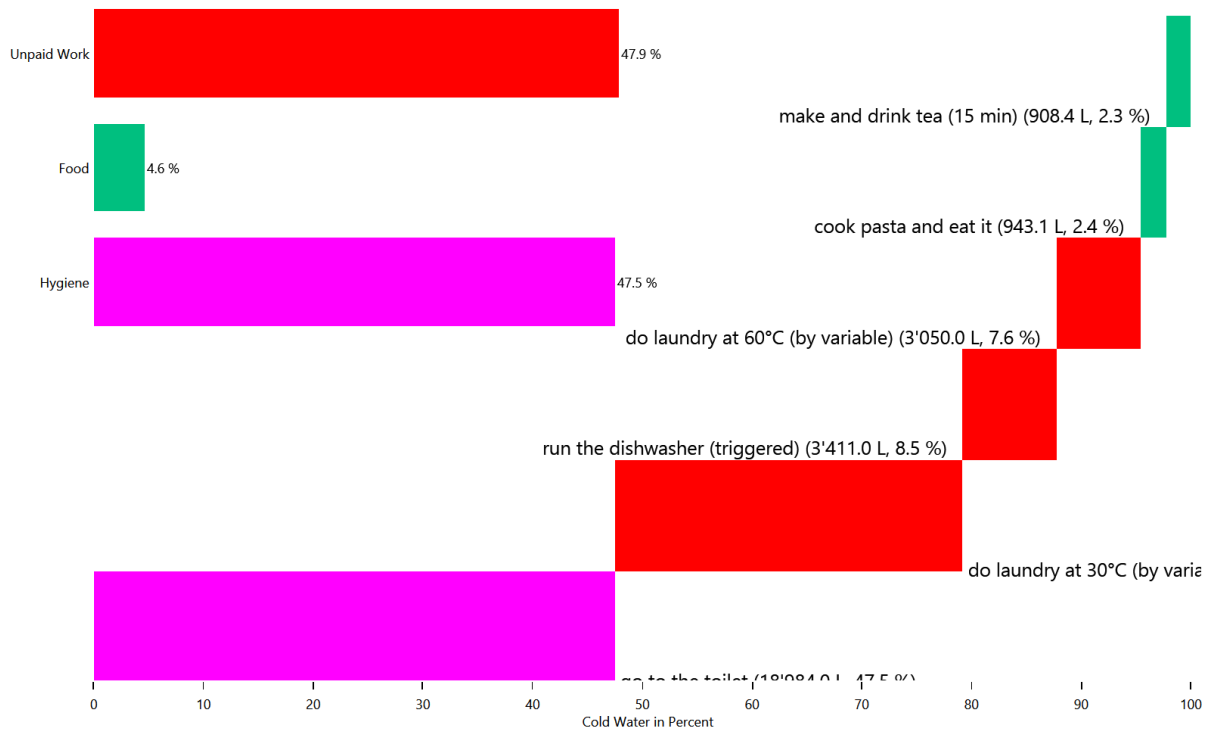
## HH0 - Cold Water



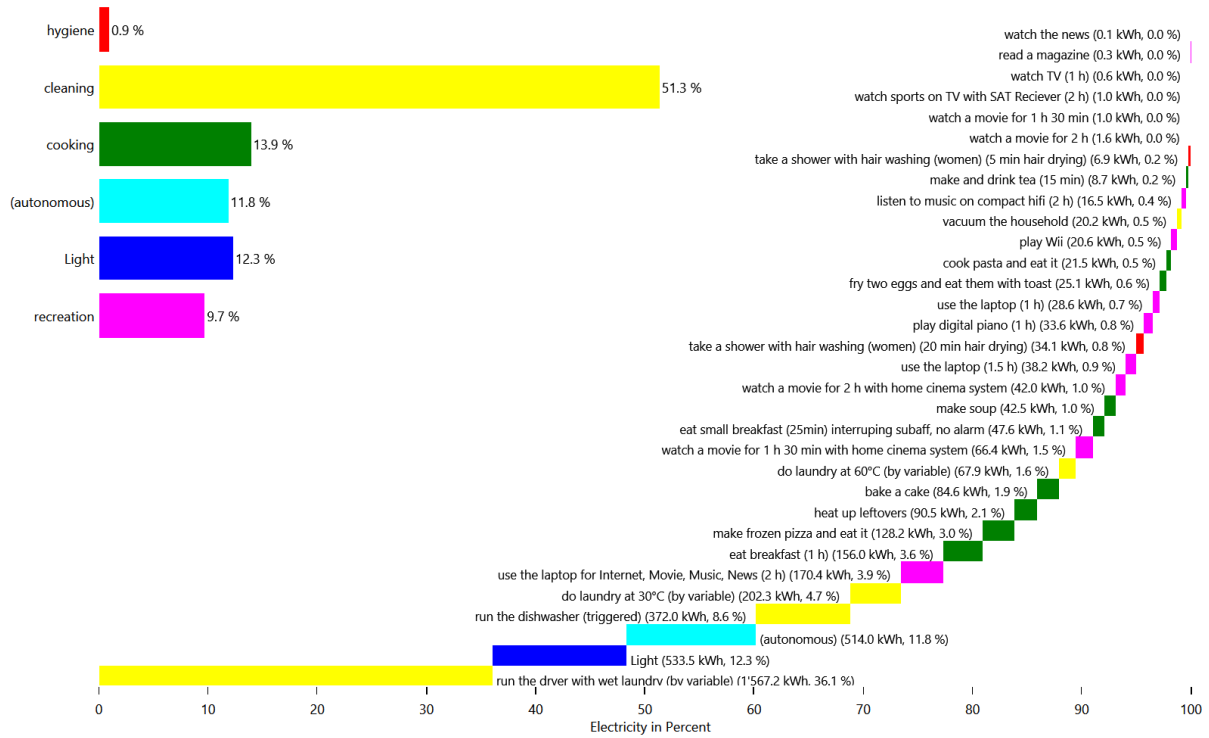
## HH0 - Cold Water



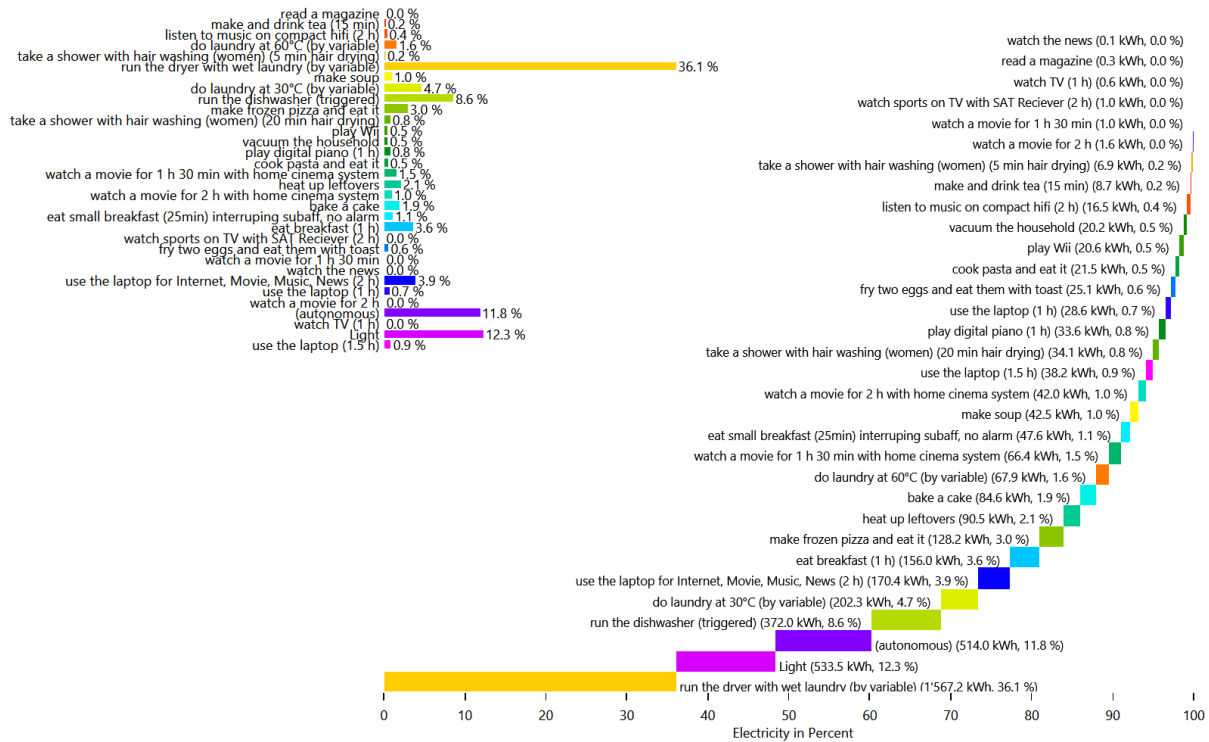
## HH0 - Cold Water



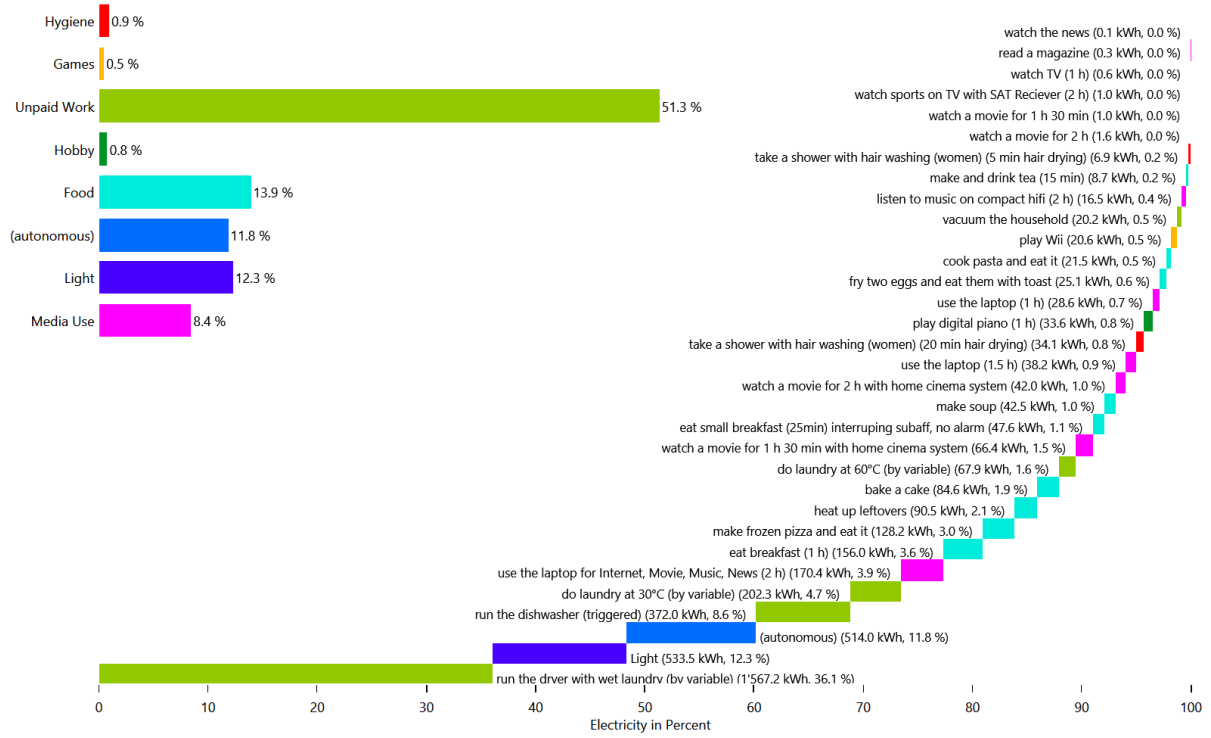
# HH0 - Electricity



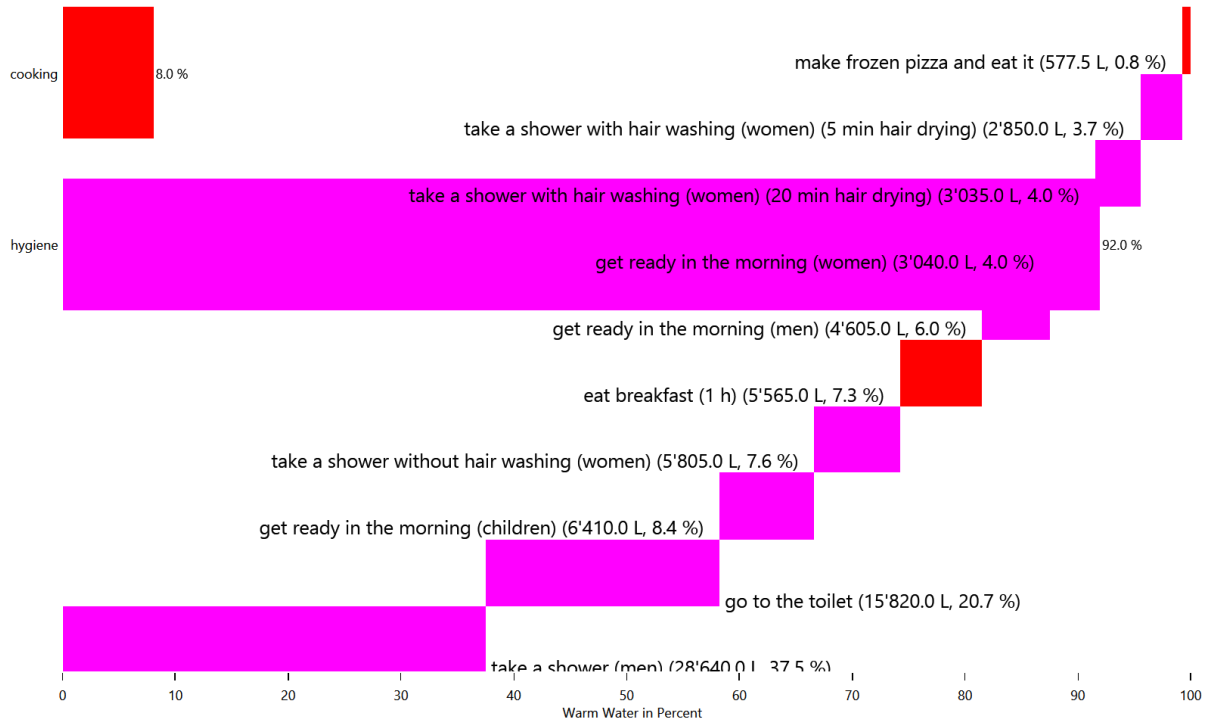
# HH0 - Electricity



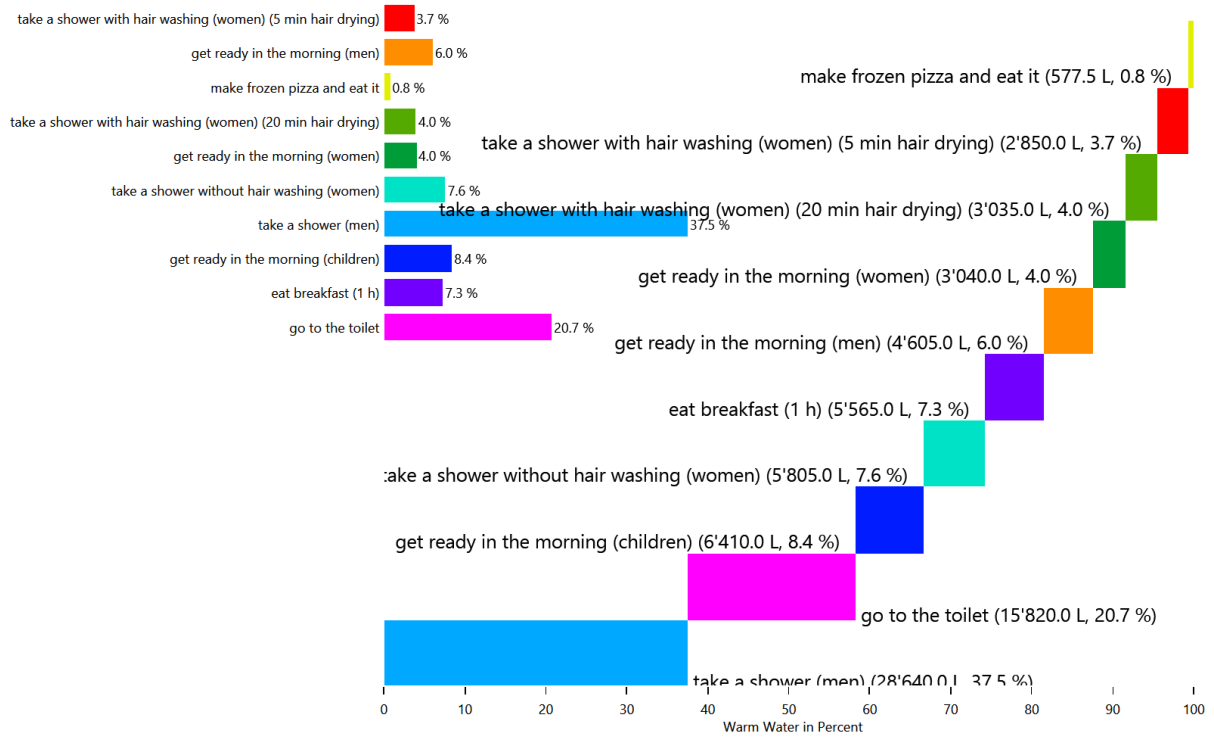
## HH0 - Electricity



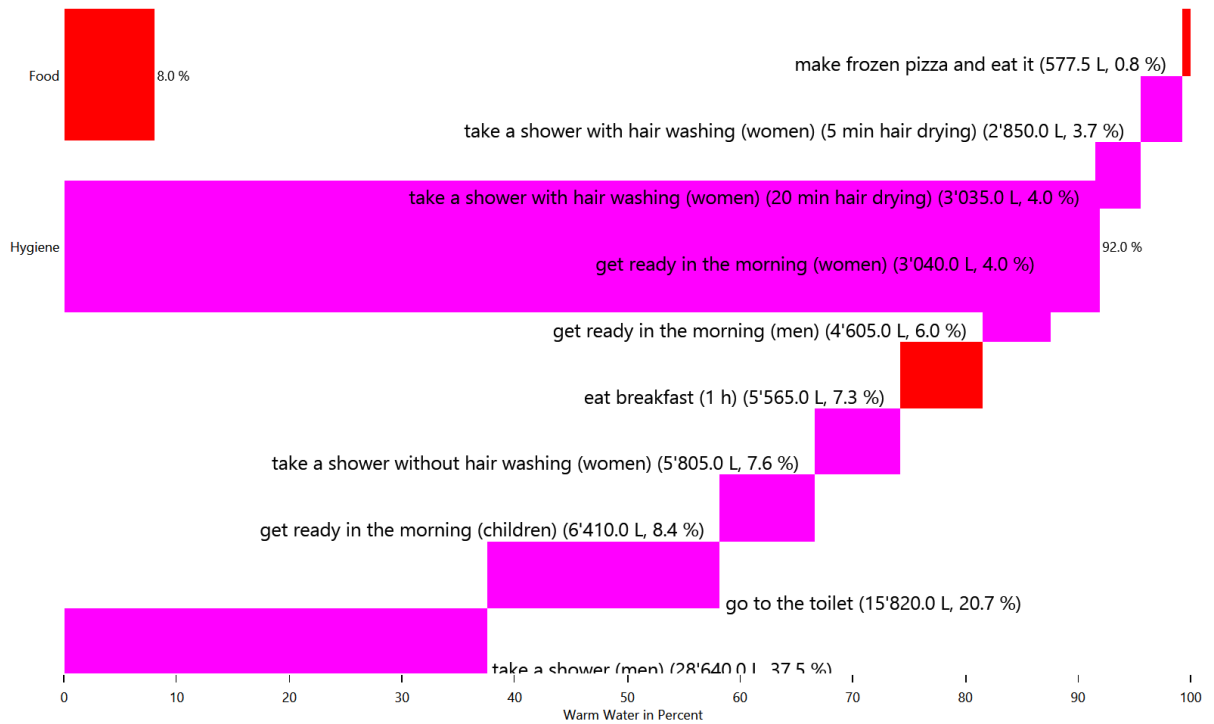
## HH0 - Warm Water



## HH0 - Warm Water



## HH0 - Warm Water



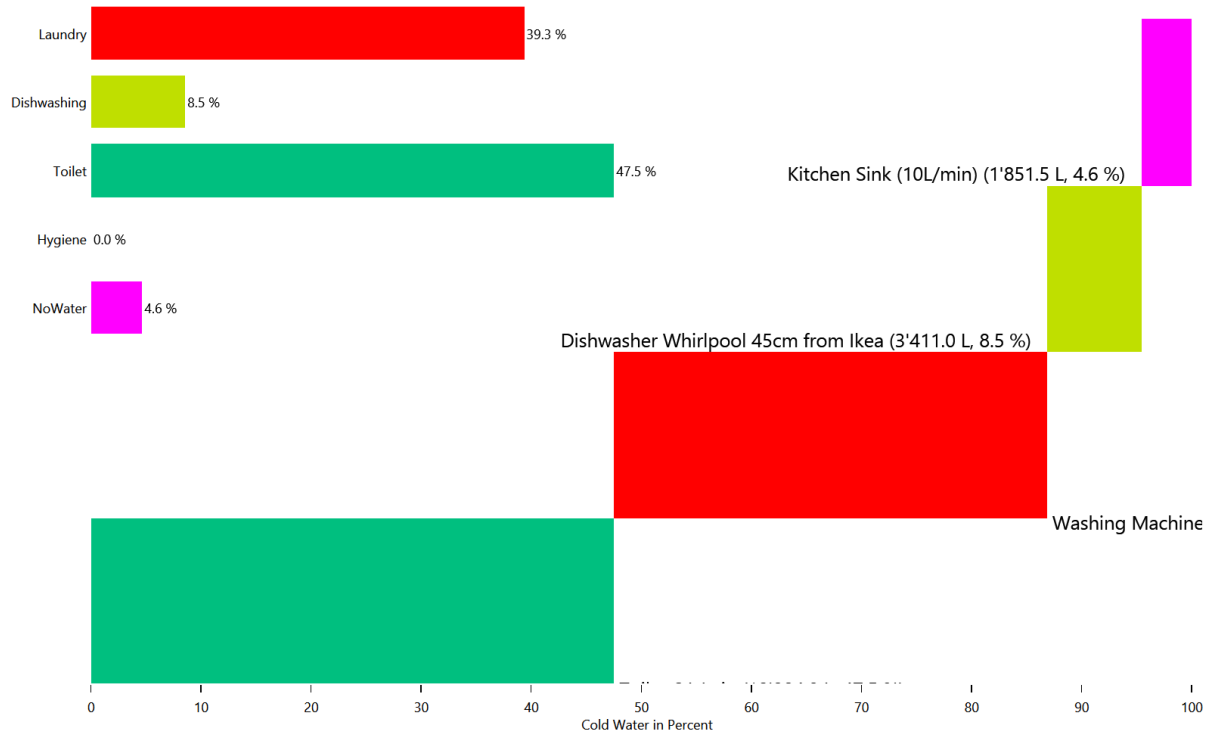


# Energy use for each load type for each device

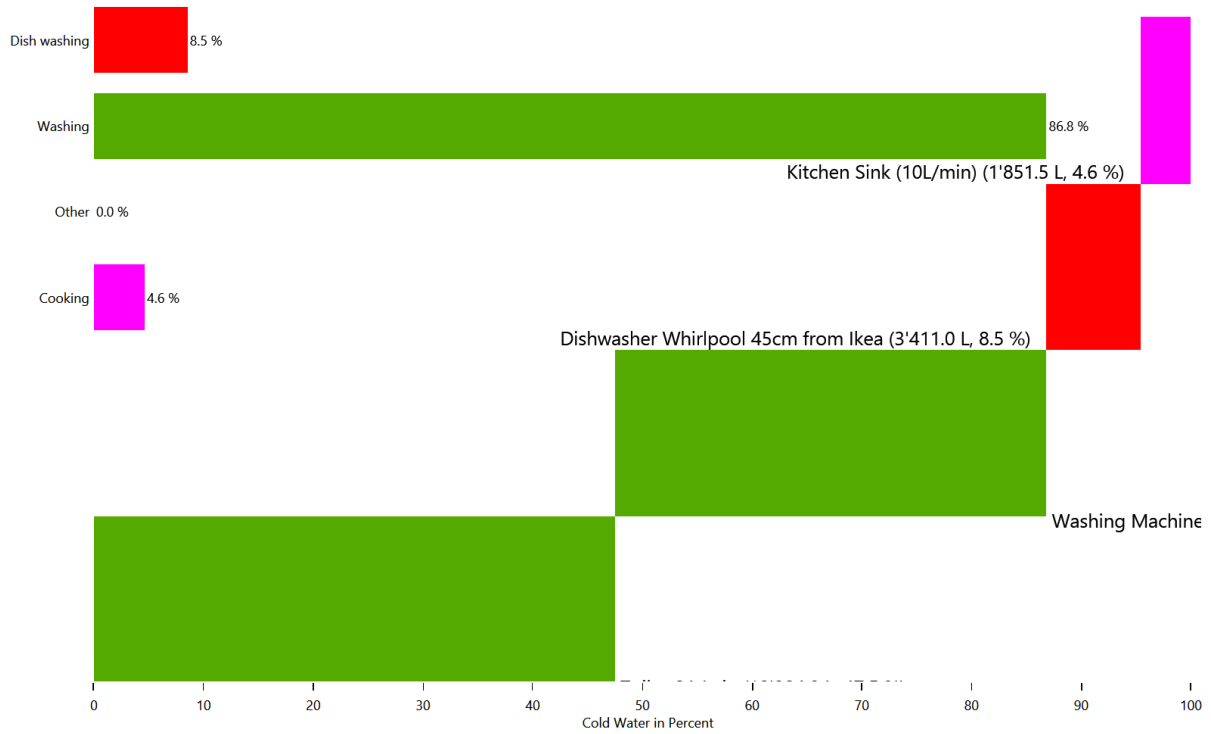
This is made from the files starting with: DeviceSums

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

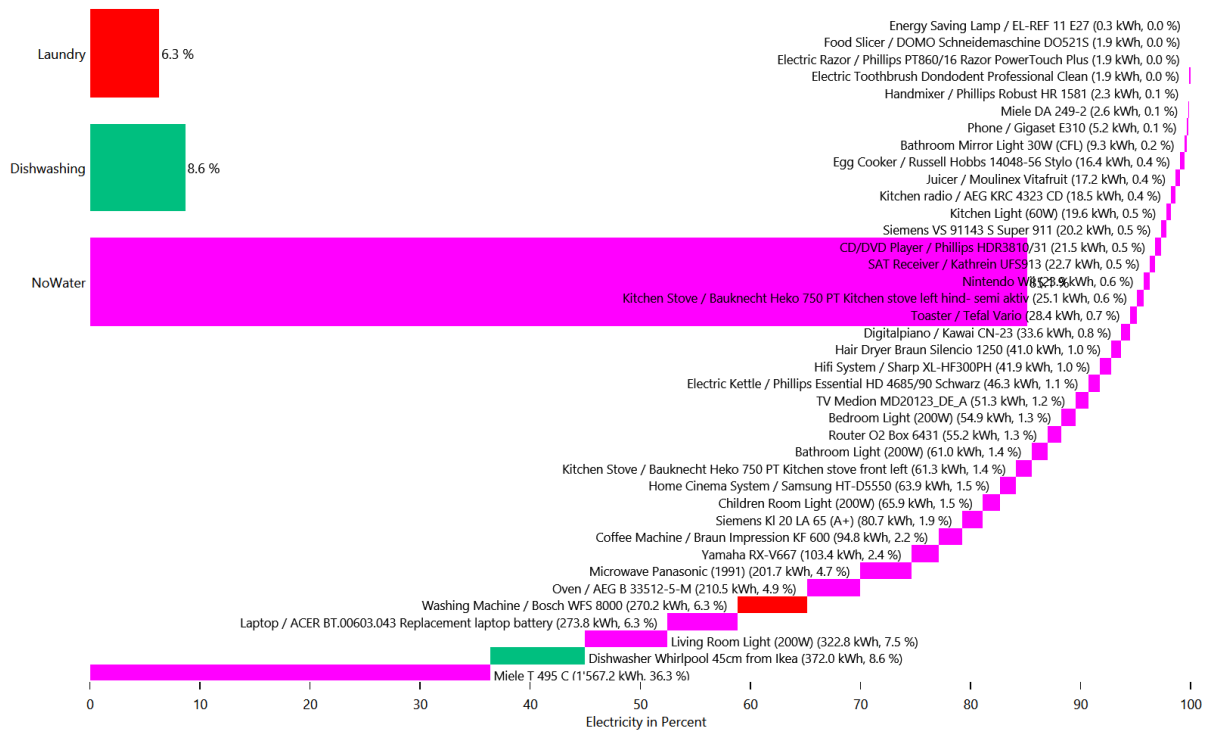
## Cold Water



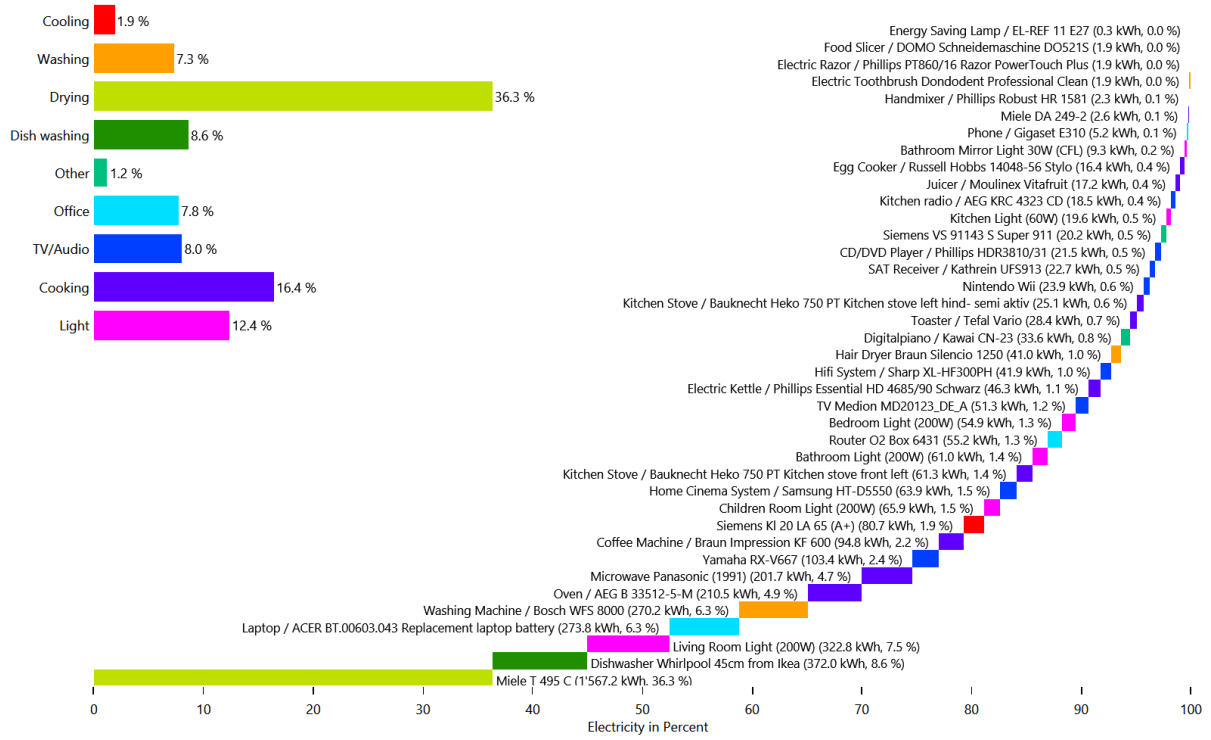
## Cold Water



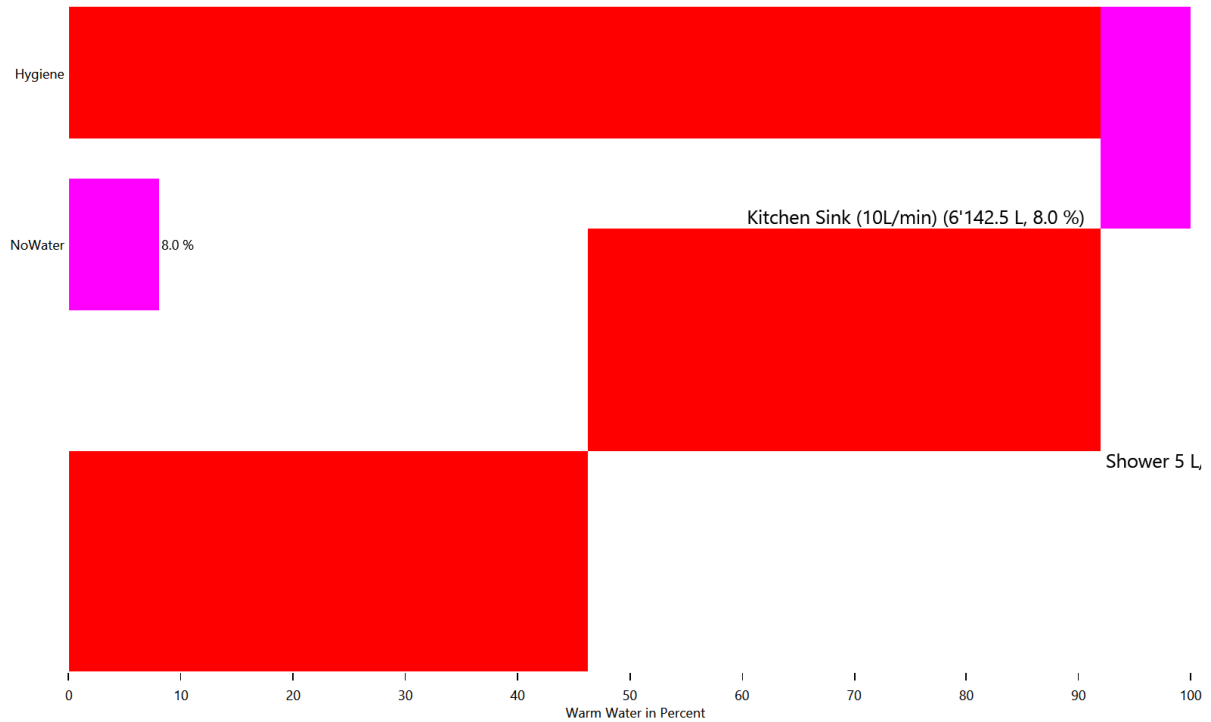
## Electricity



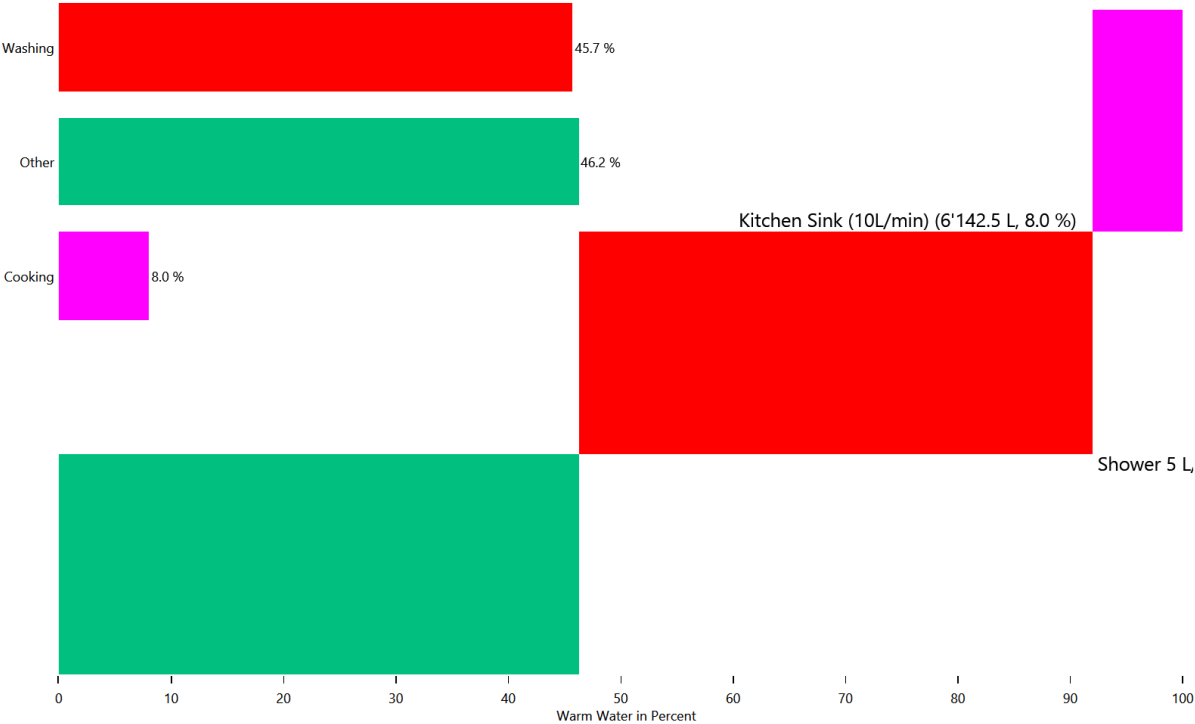
# Electricity



# Warm Water



# Warm Water

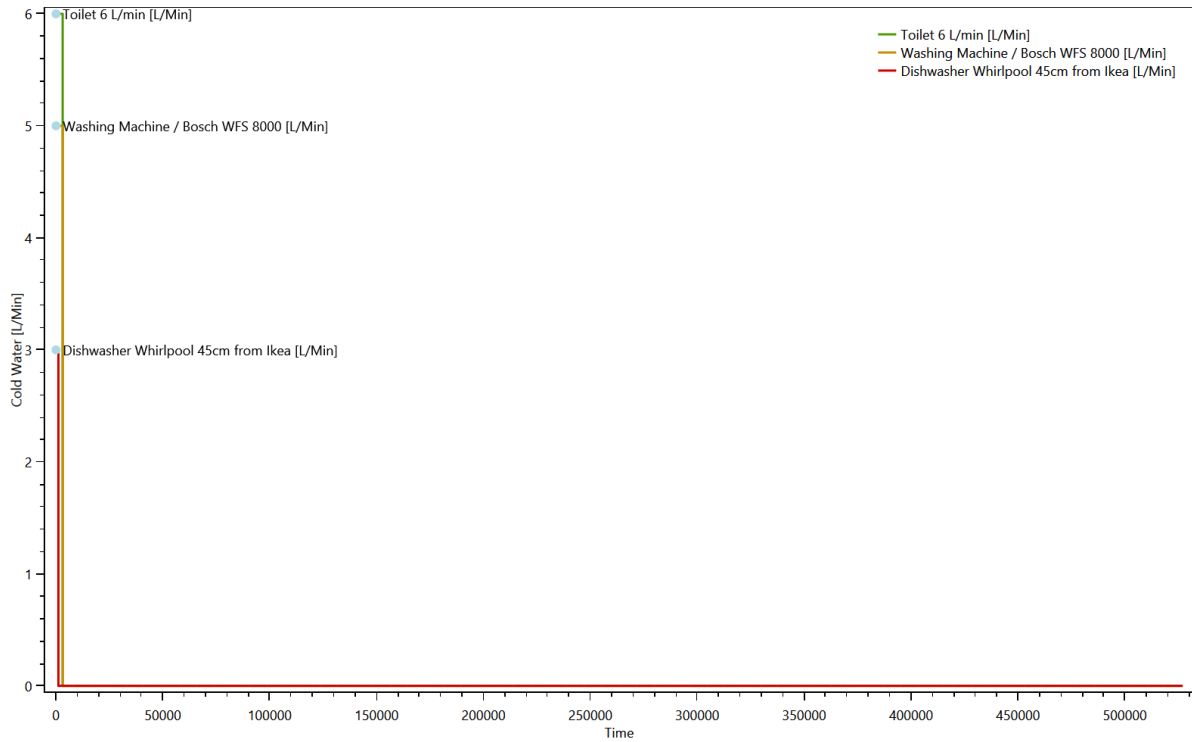


# Duration curve for each device for each load type

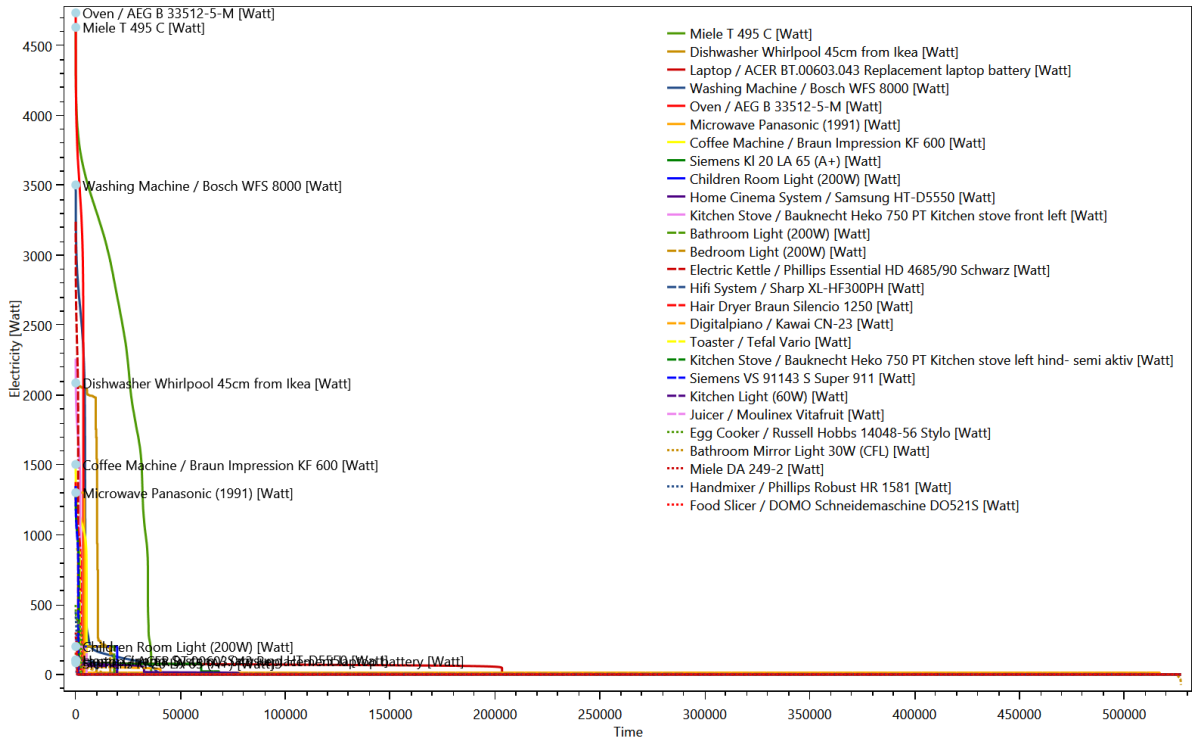
This is made from the files starting with: DeviceDurationCurves

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

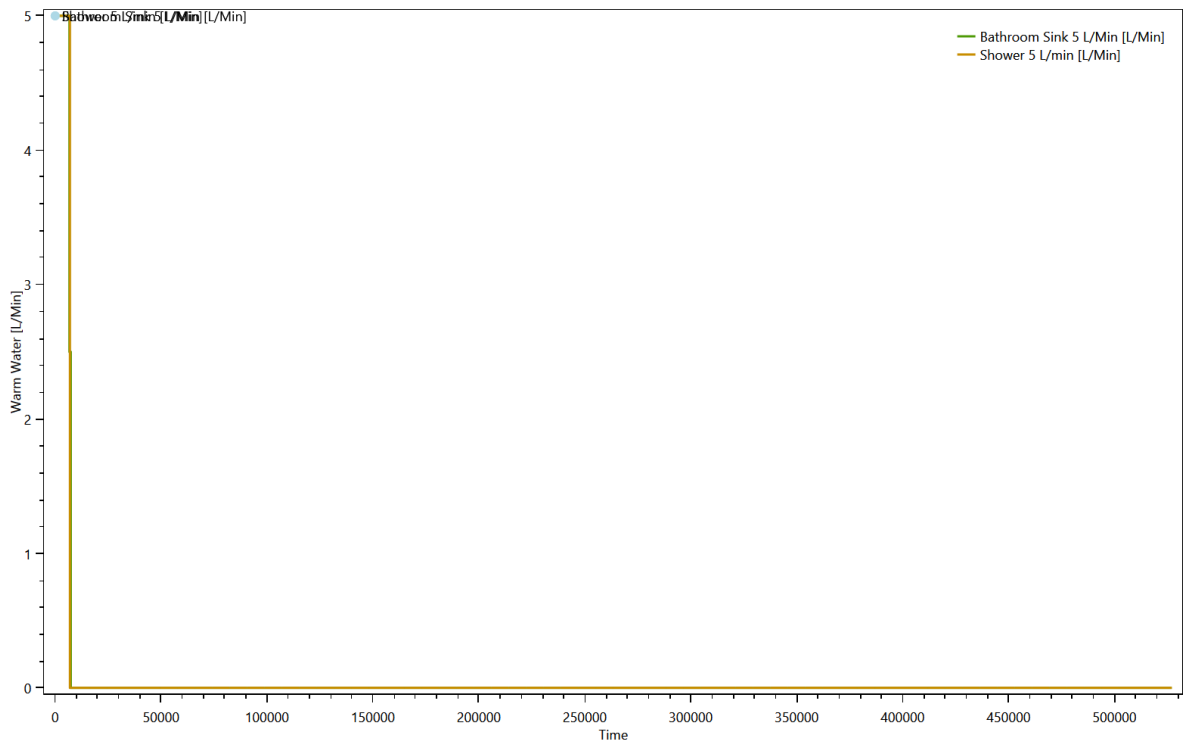
## Cold Water



## Electricity



## Warm Water

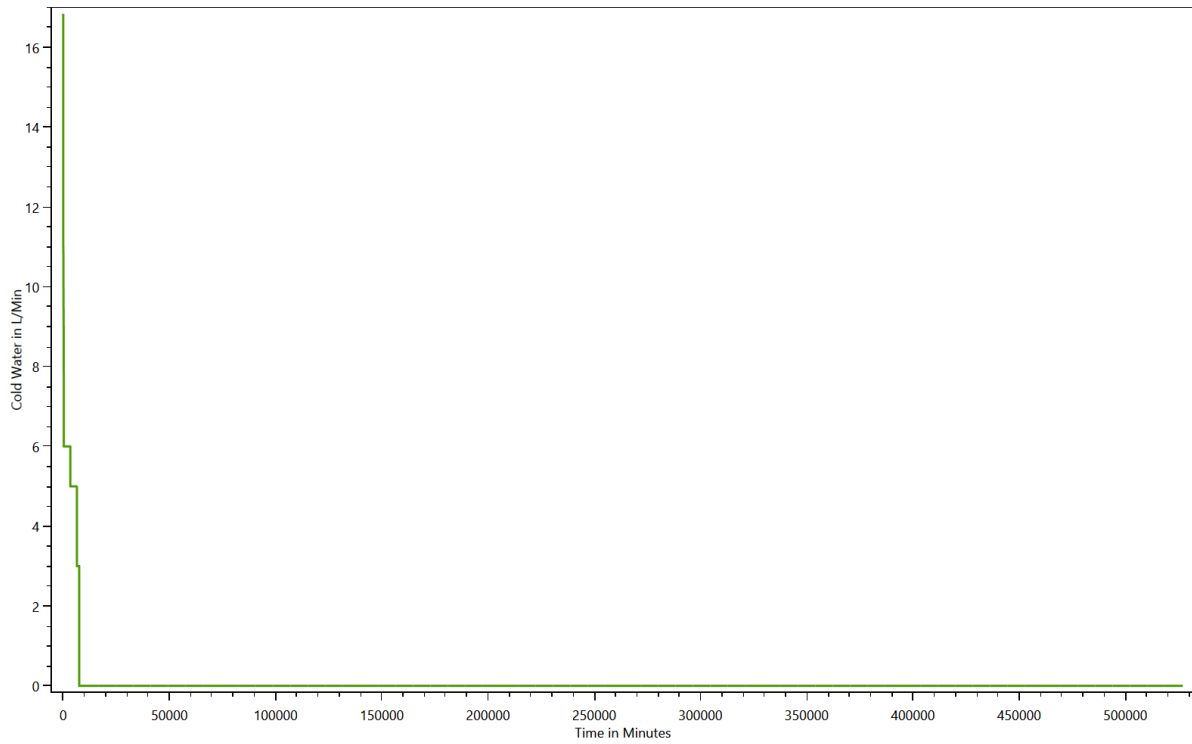


# Duration curve for each load type

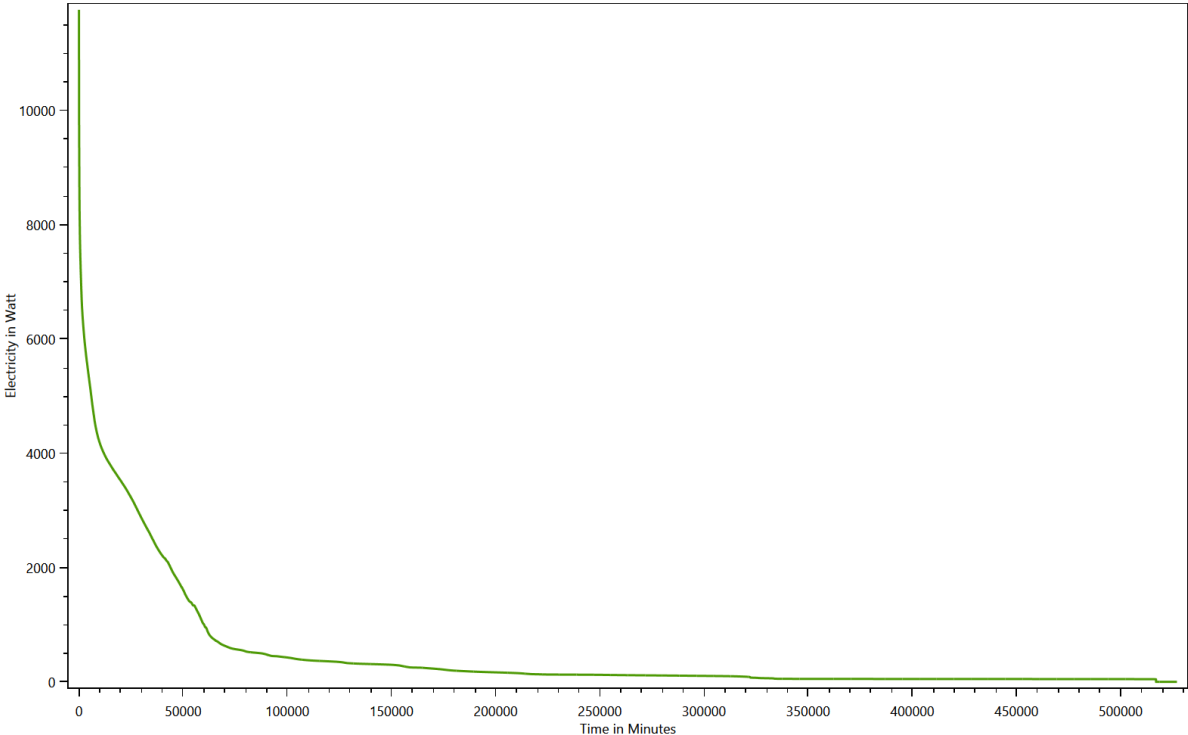
This is made from the files starting with: DurationCurve

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

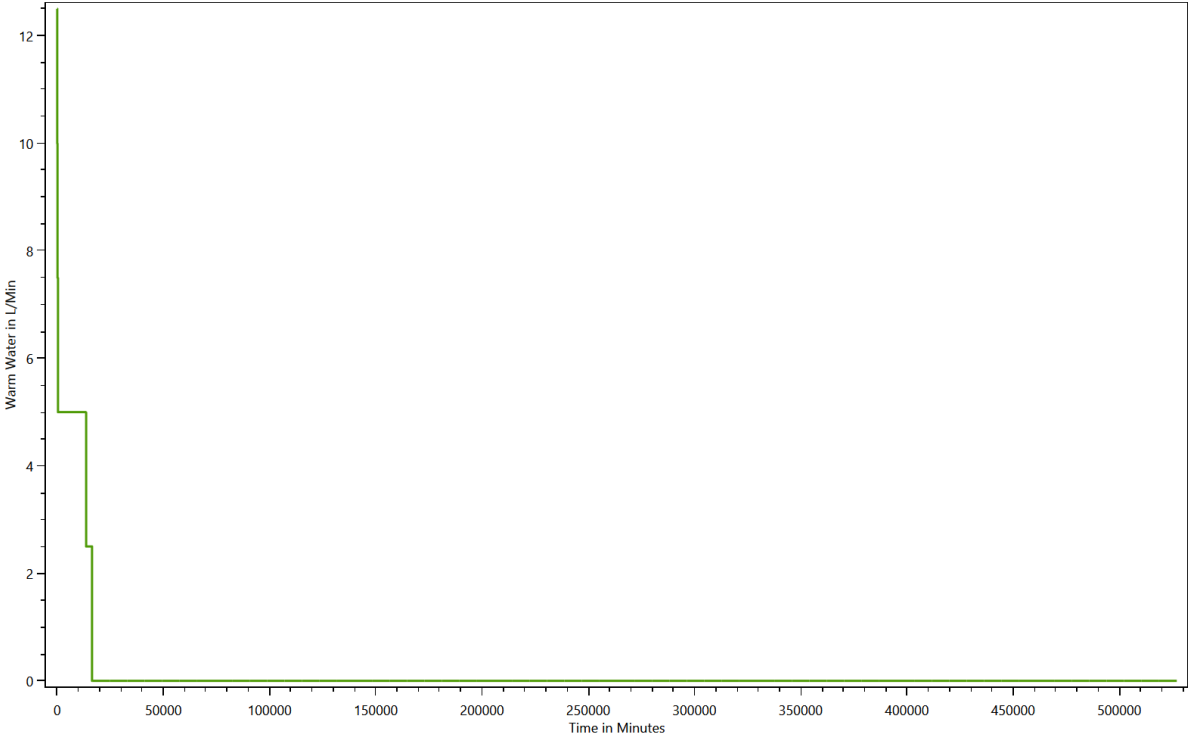
## Cold Water



# Electricity



# Warm Water



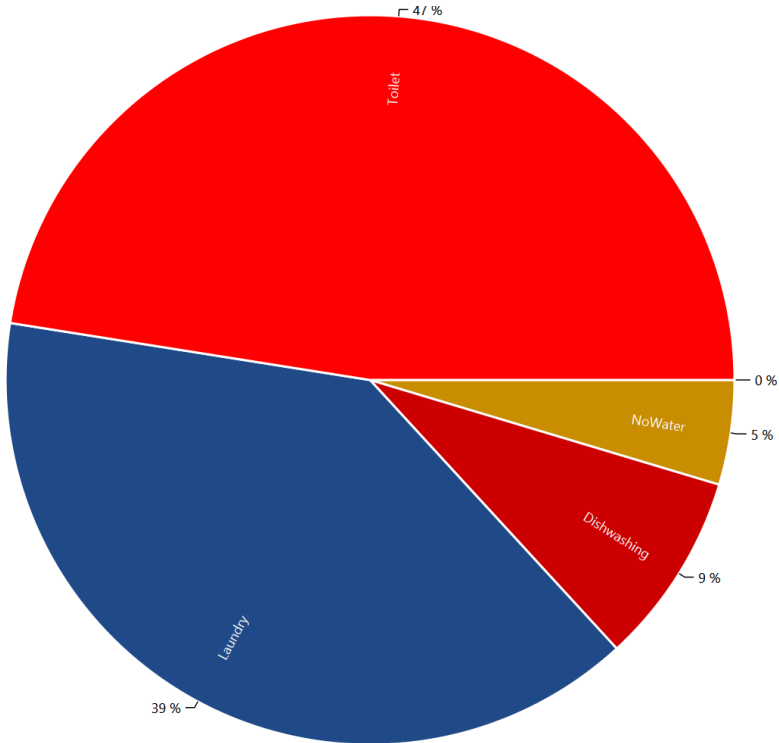


# Grouped energy use for each load type for each device

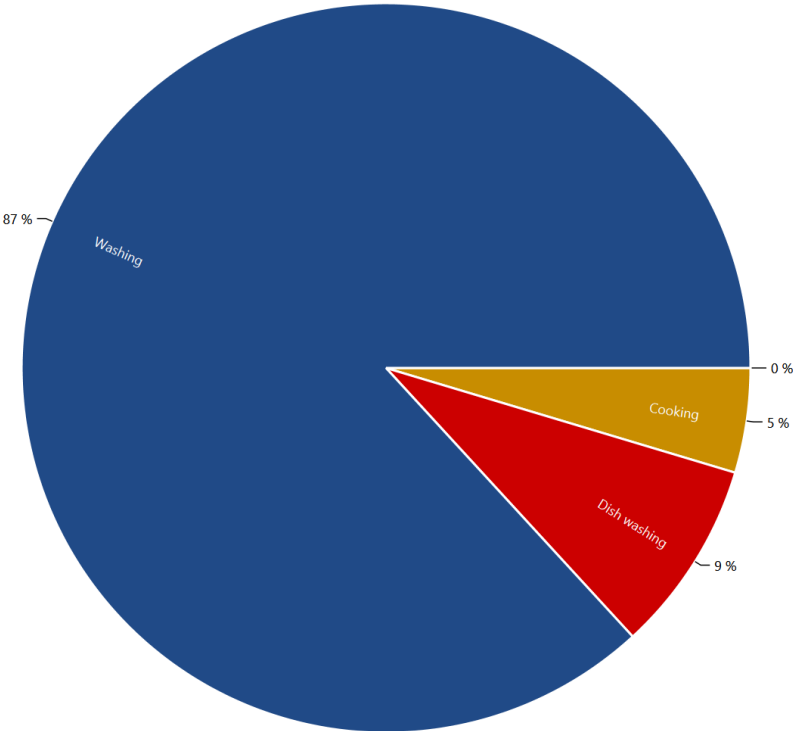
This is made from the files starting with: DeviceTaggingSet

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

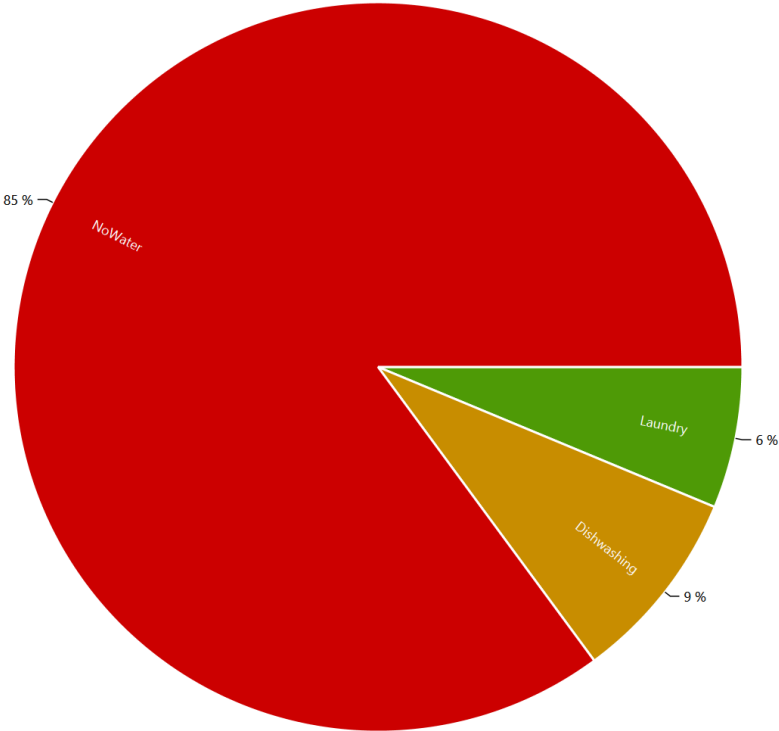
## HH0 - Destatis Water Usage Statistics - Cold Water



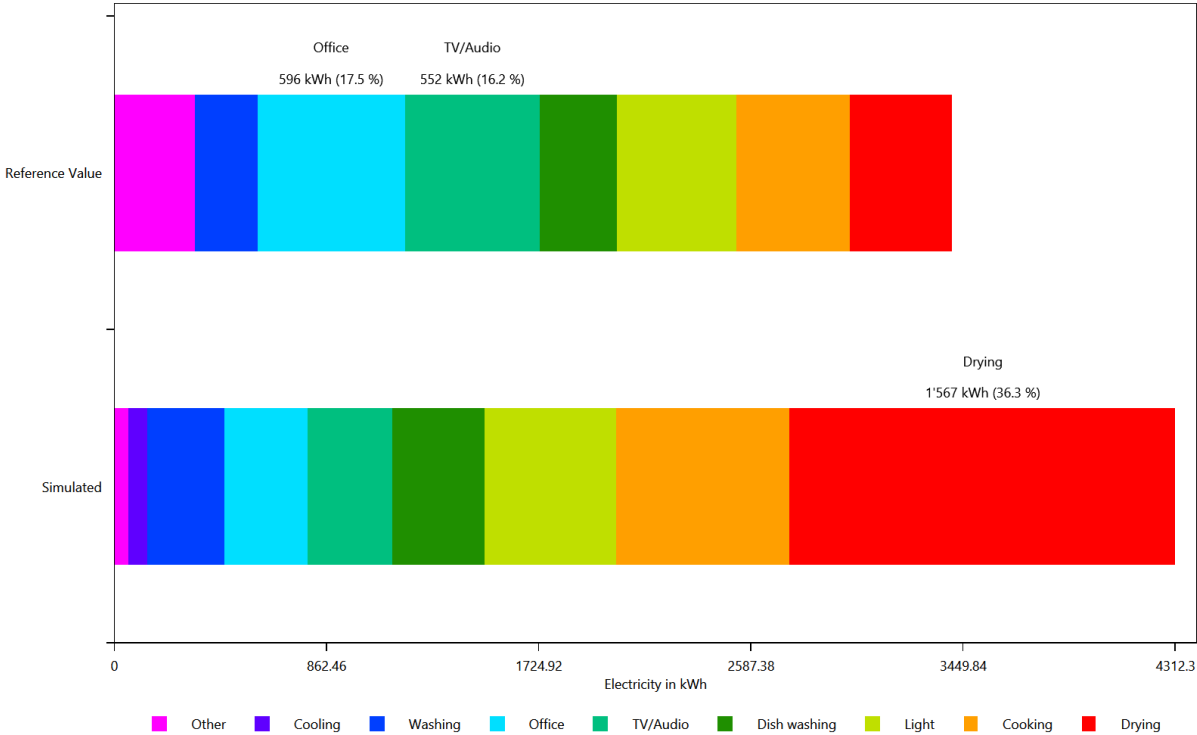
HH0 - Energieagentur - Cold Water



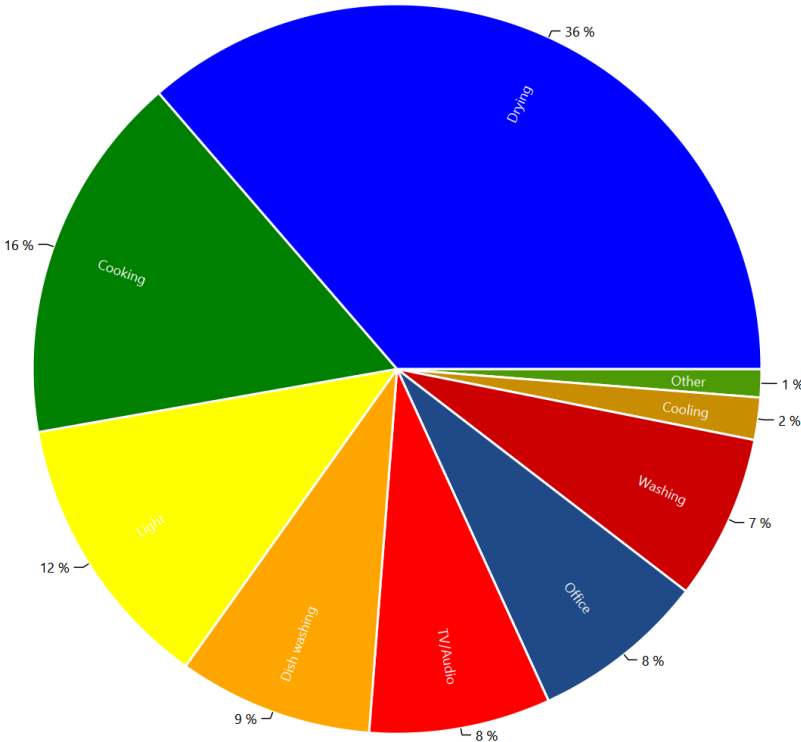
HH0 - Destatis Water Usage Statistics - Electricity



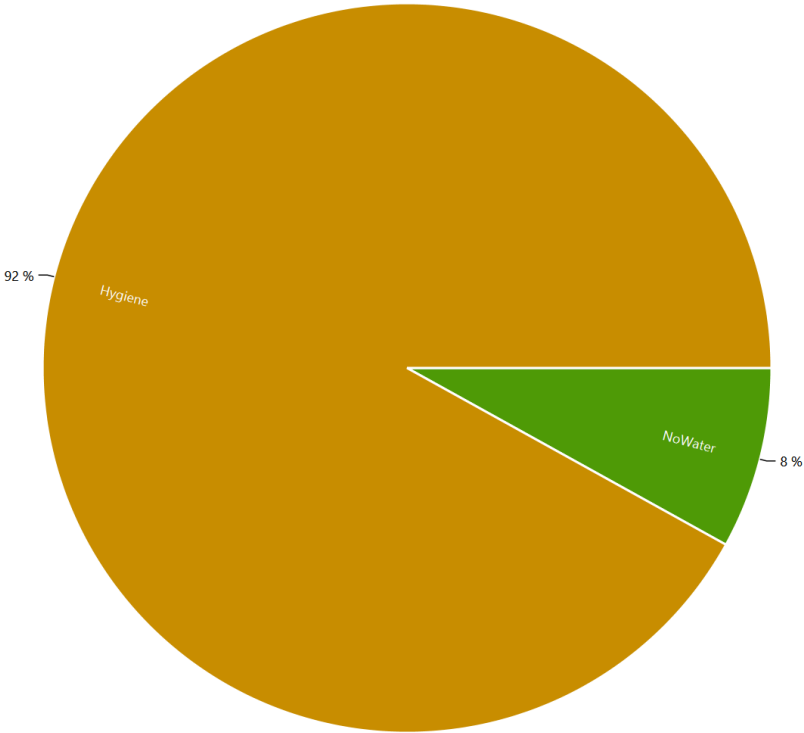
# HH0 - Energieagentur - Electricity



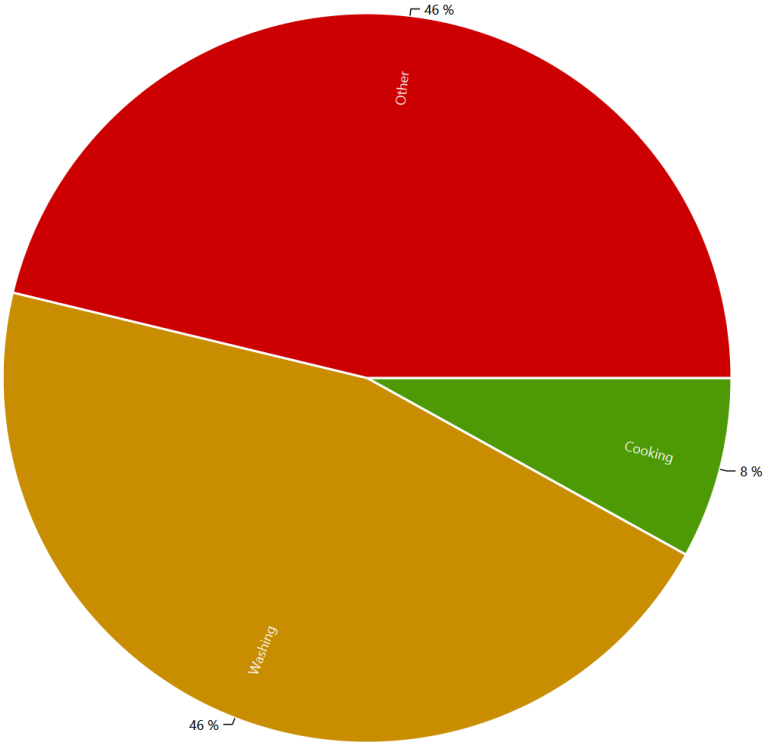
# HH0 - Energieagentur - Electricity



HH0 - Destatis Water Usage Statistics - Warm Water



HH0 - Energieagentur - Warm Water

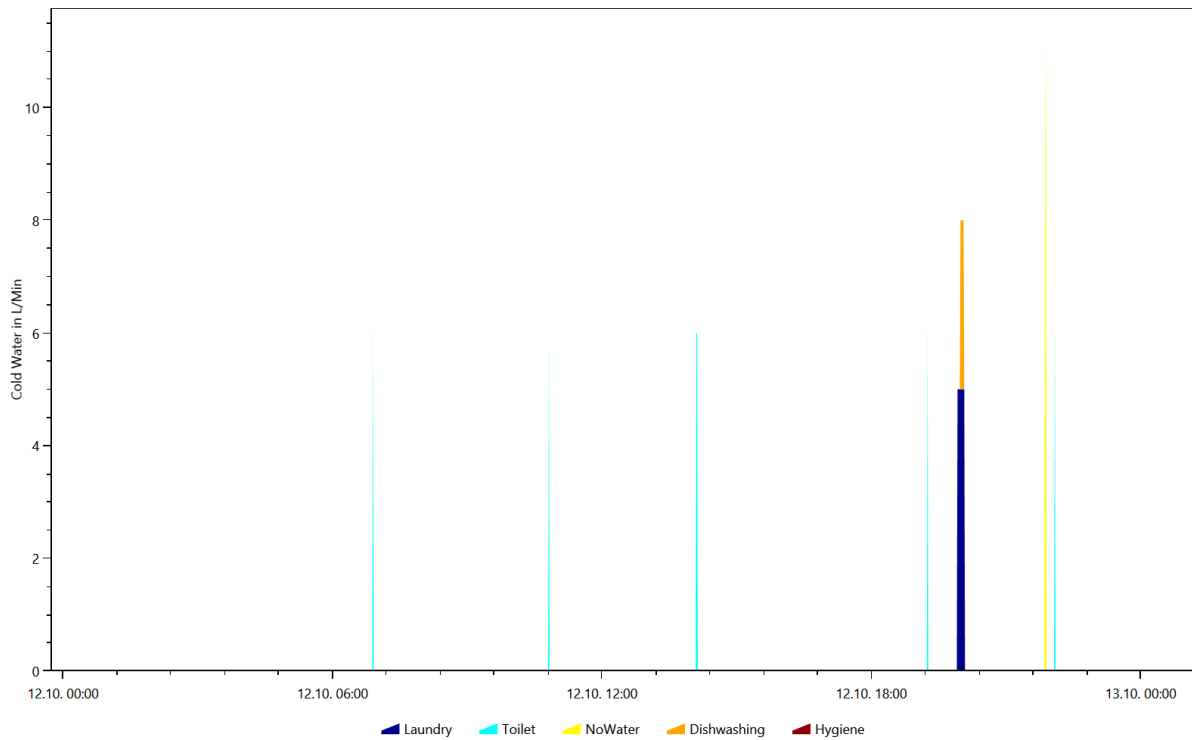


# Example of the device profiles for each load type

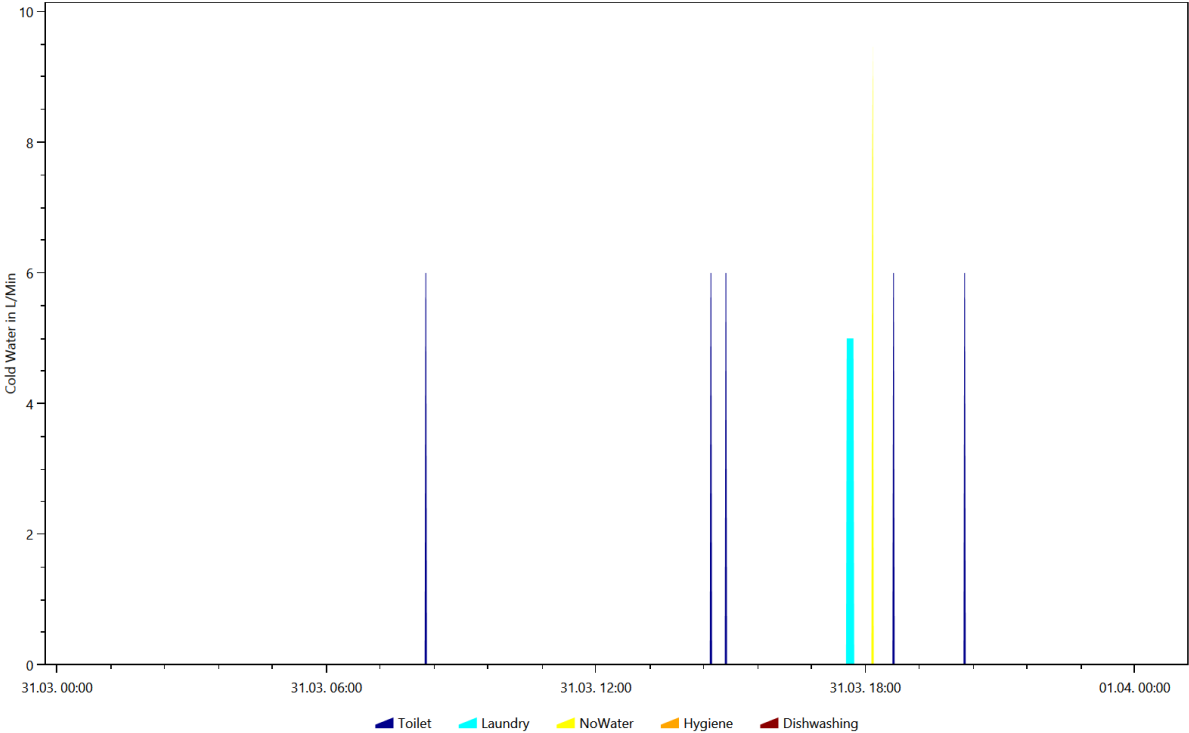
This is made from the files starting with: DeviceProfiles

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

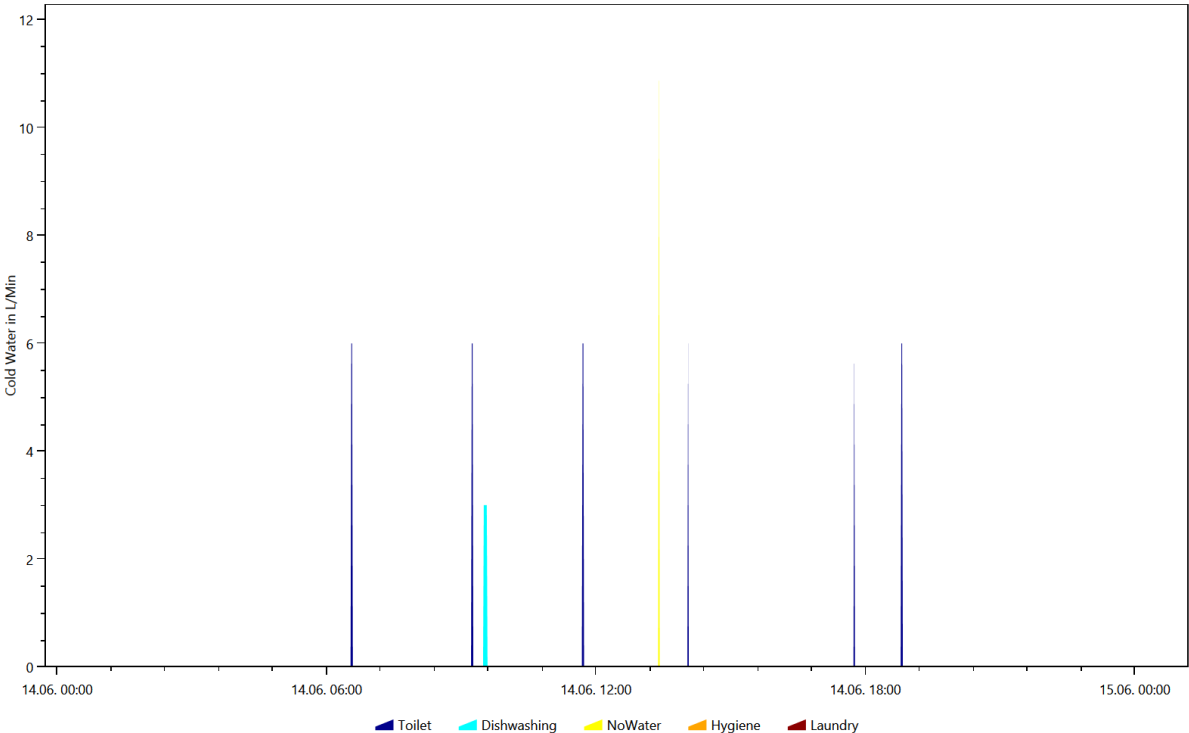
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.10.12



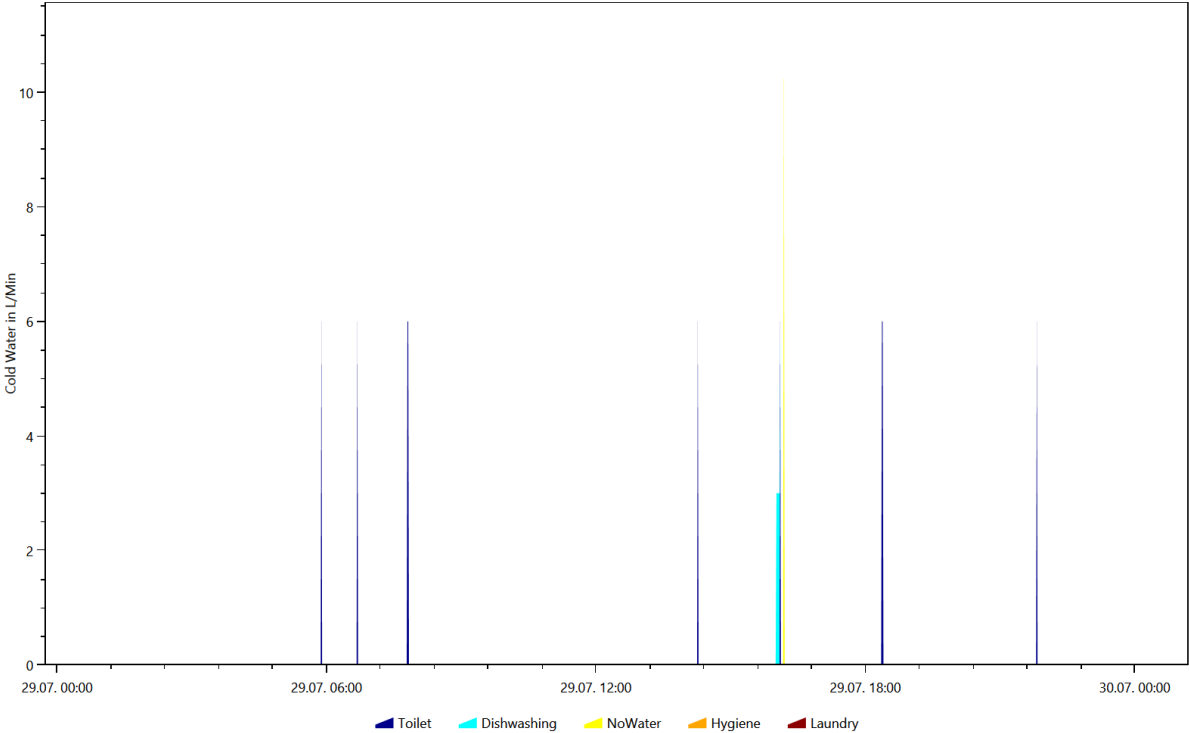
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.3.31



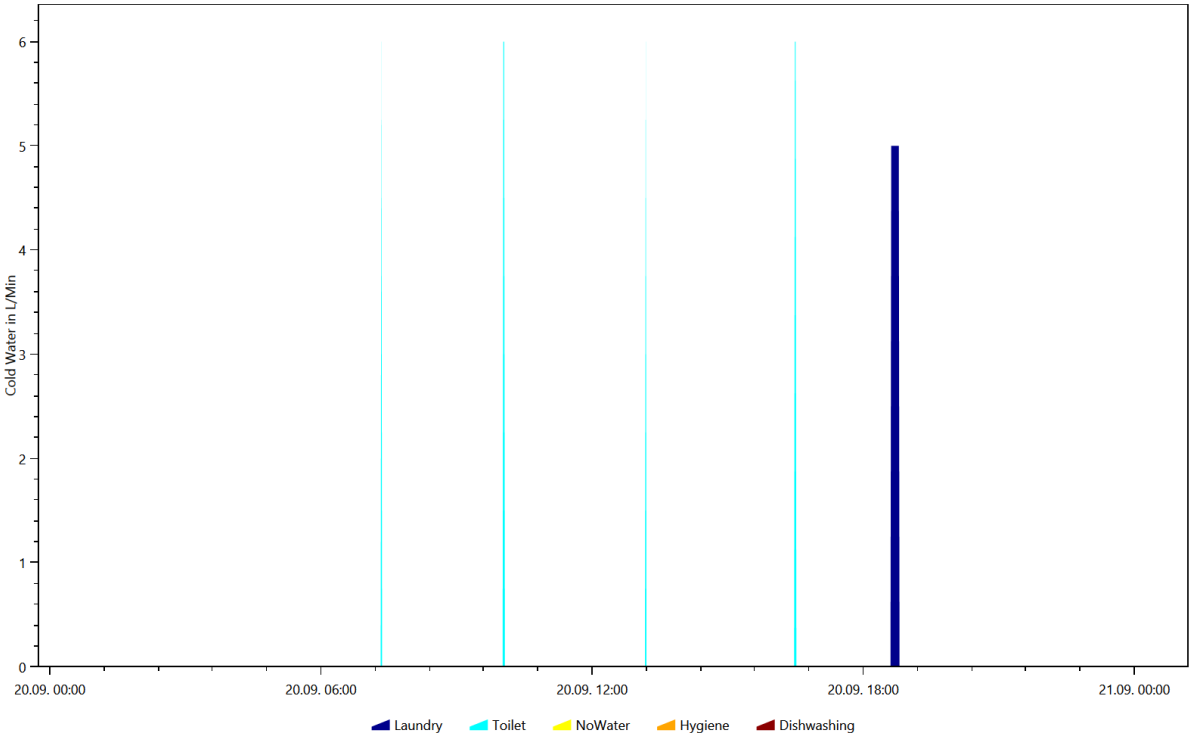
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.14



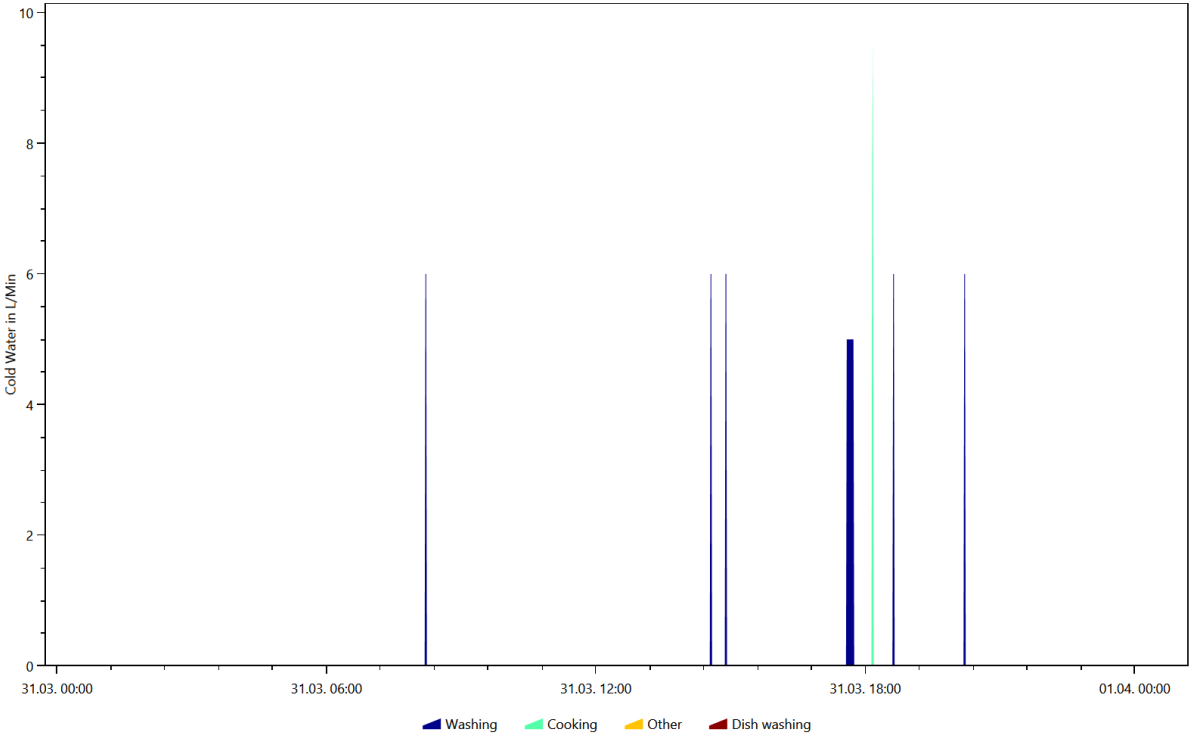
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.29



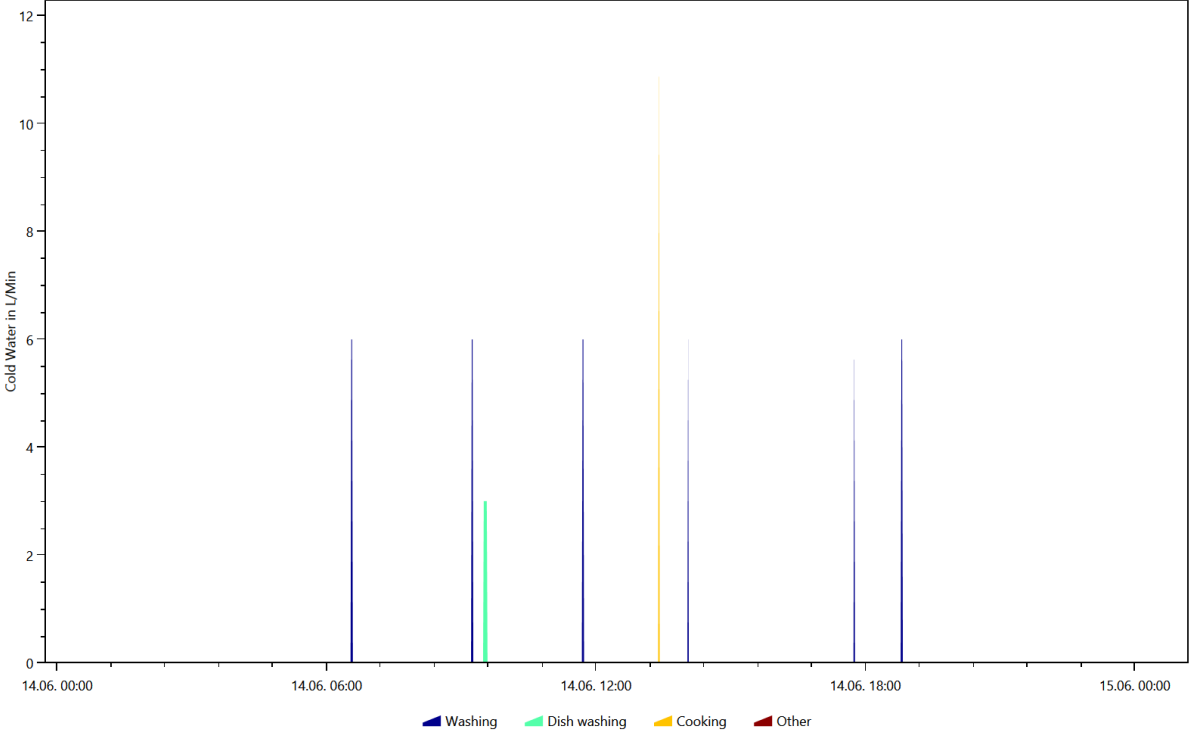
Cold Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.9.20



Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.3.31

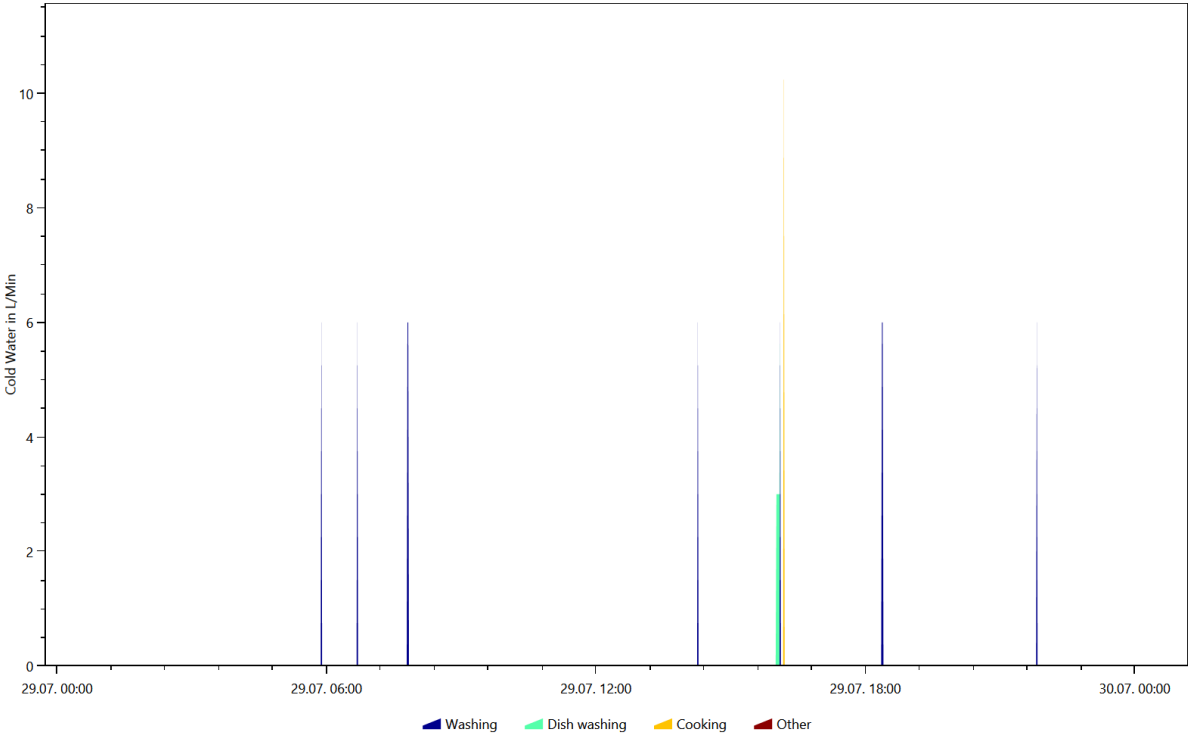


Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.14

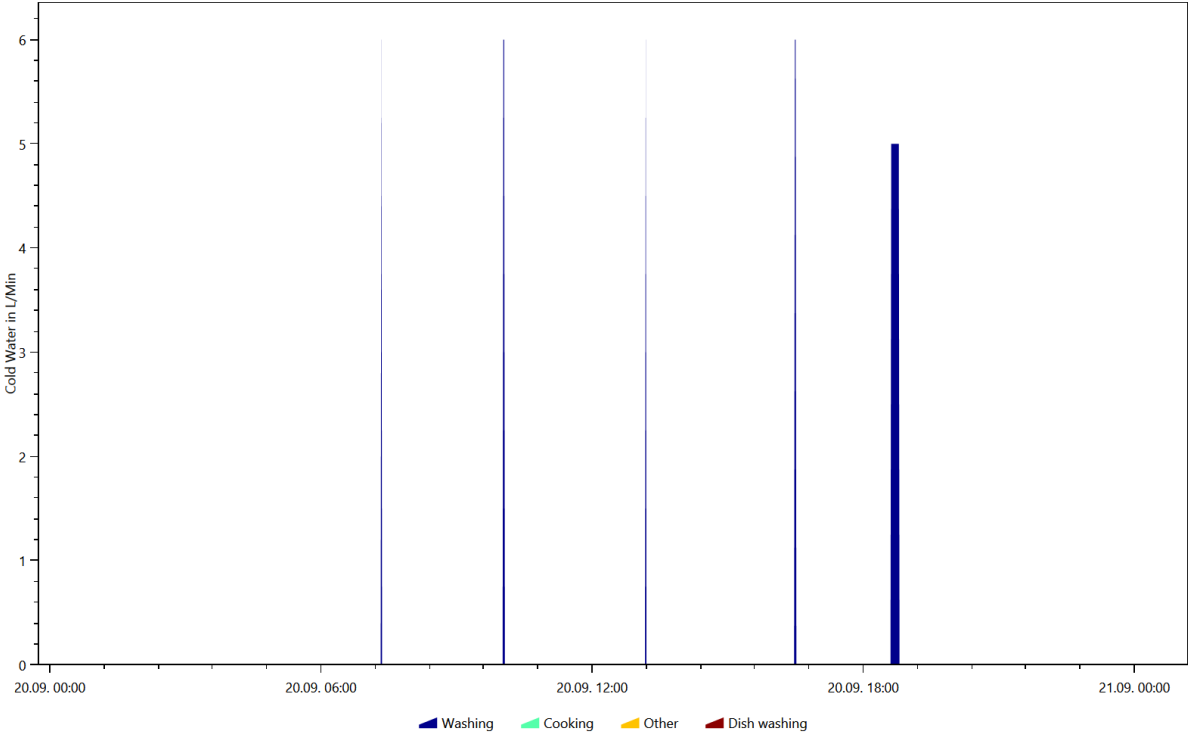




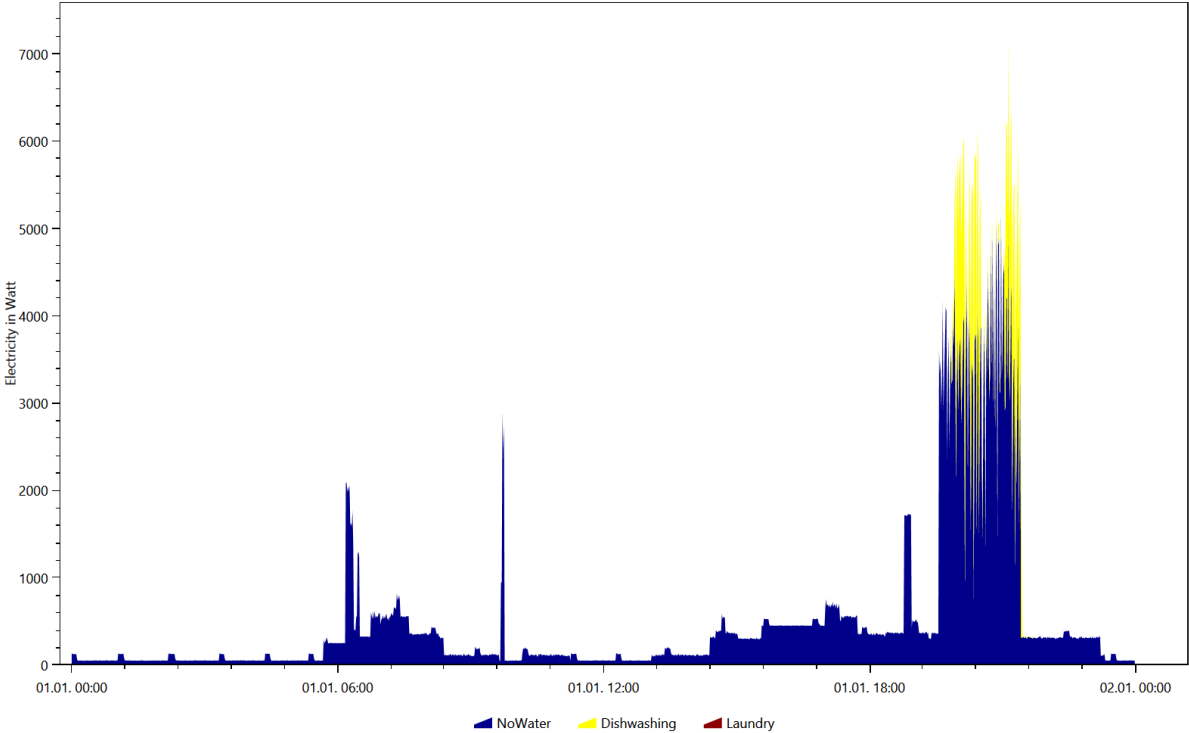
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.7.29



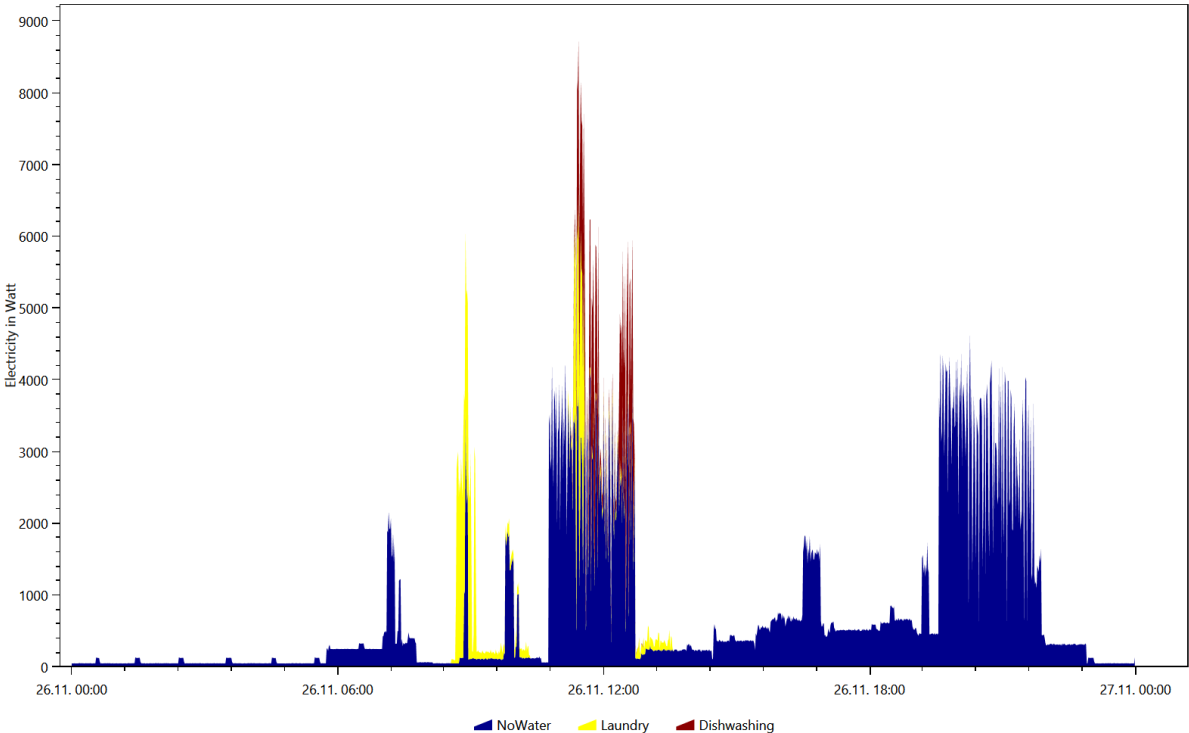
Cold Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.9.20



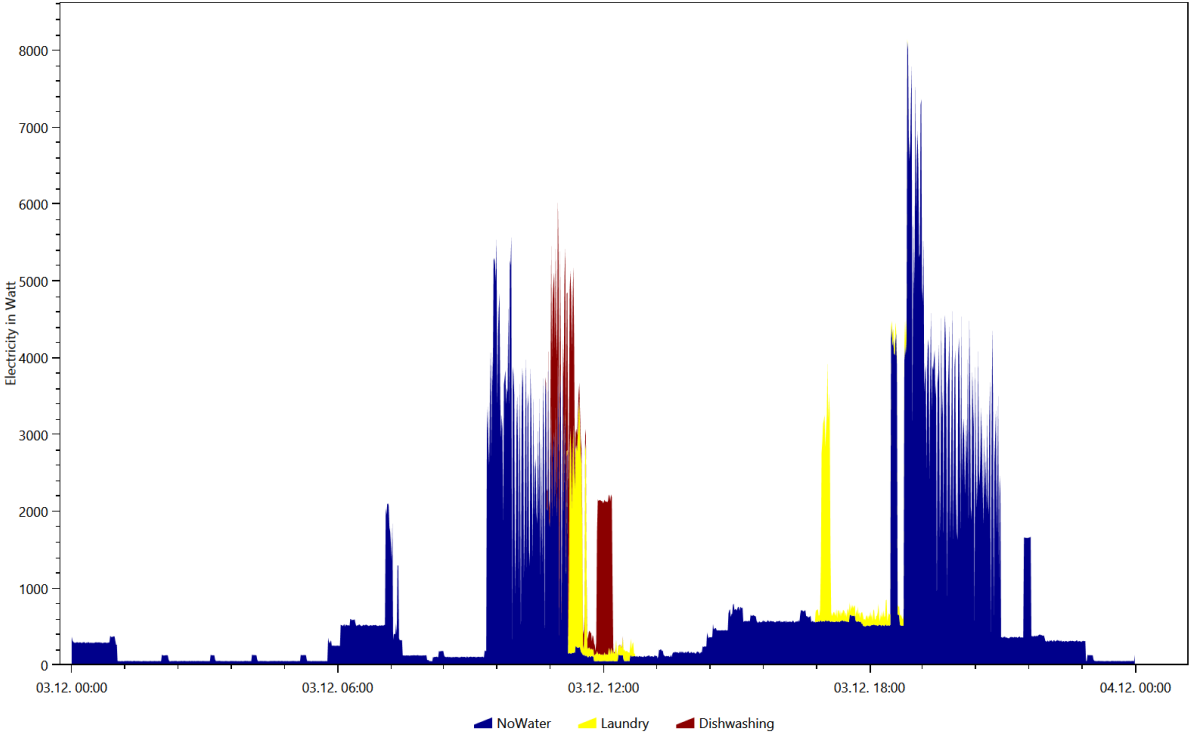
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.1.1



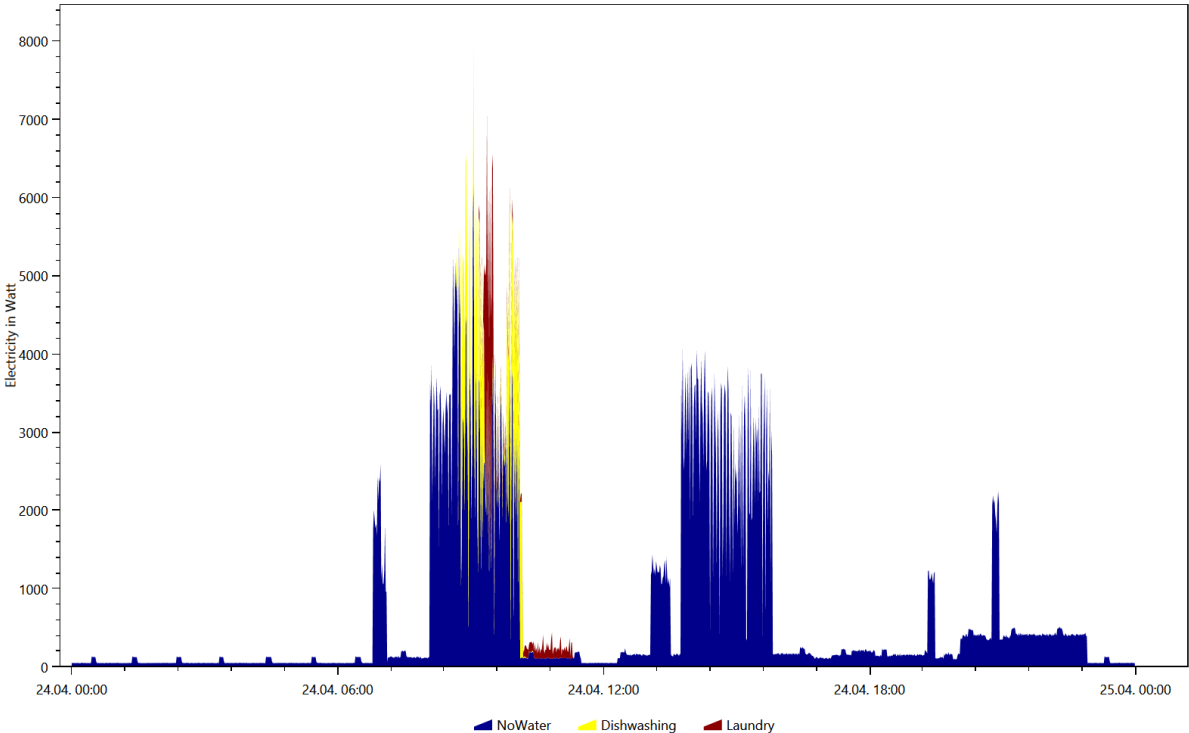
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.11.26



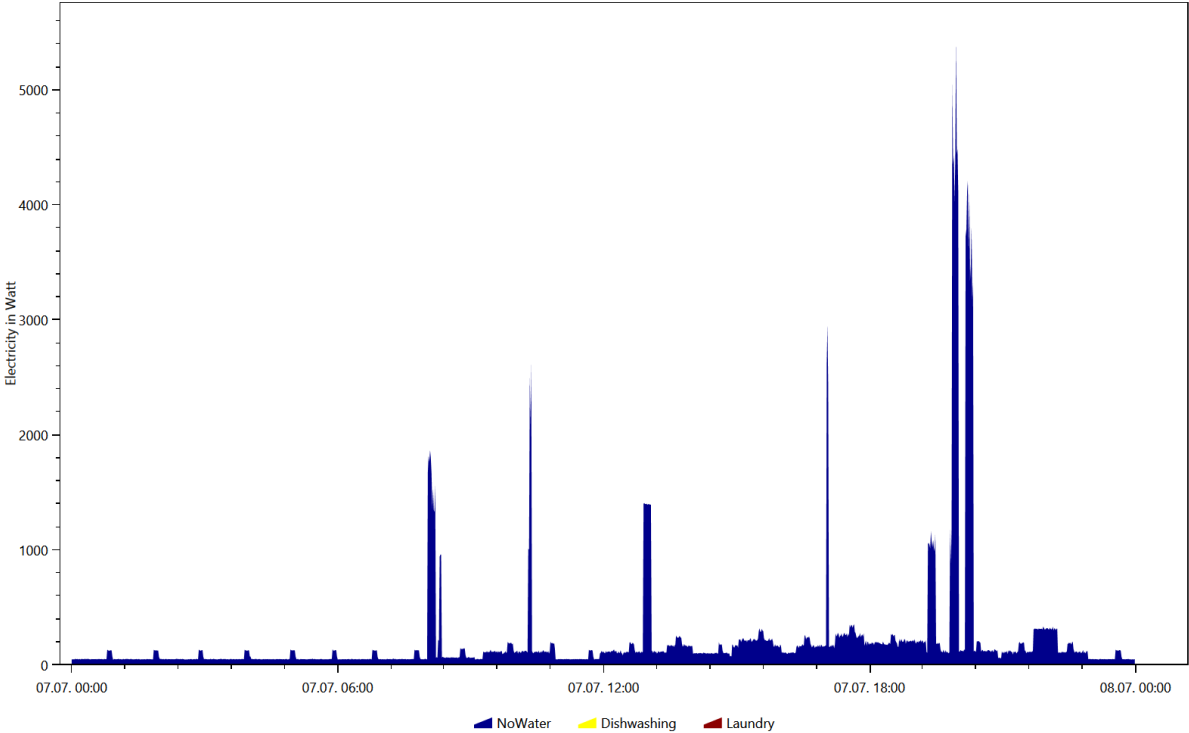
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.12.3



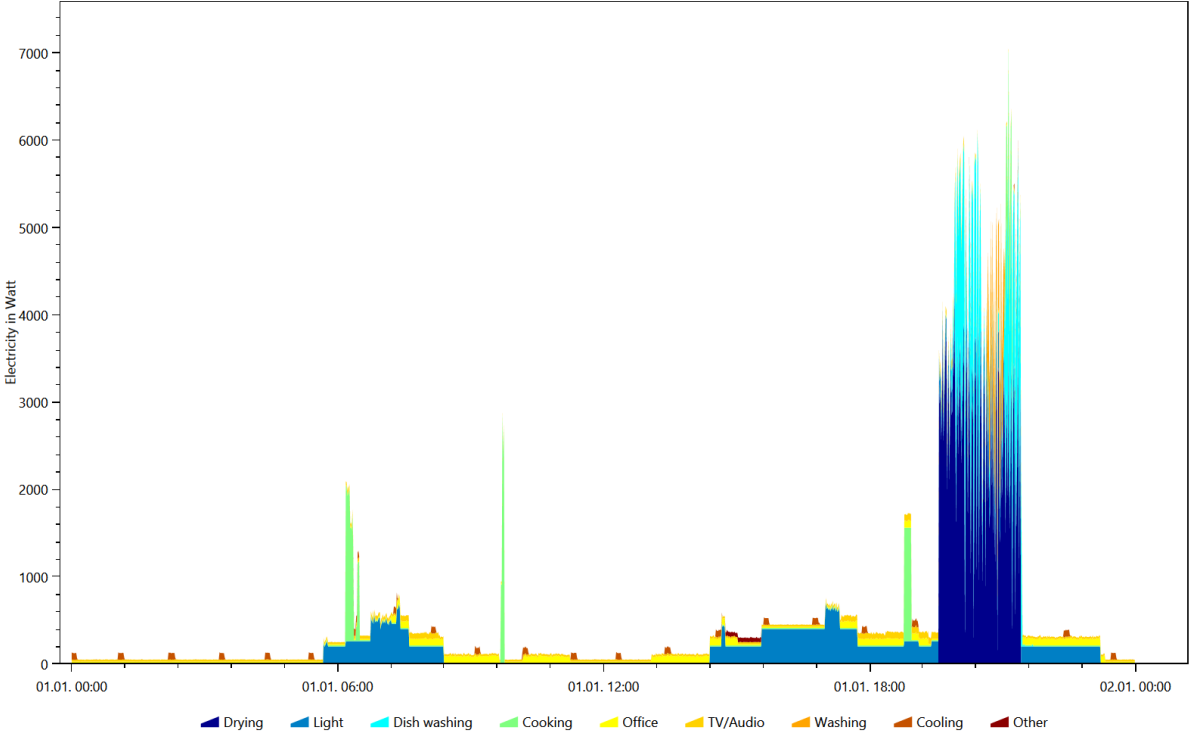
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.4.24



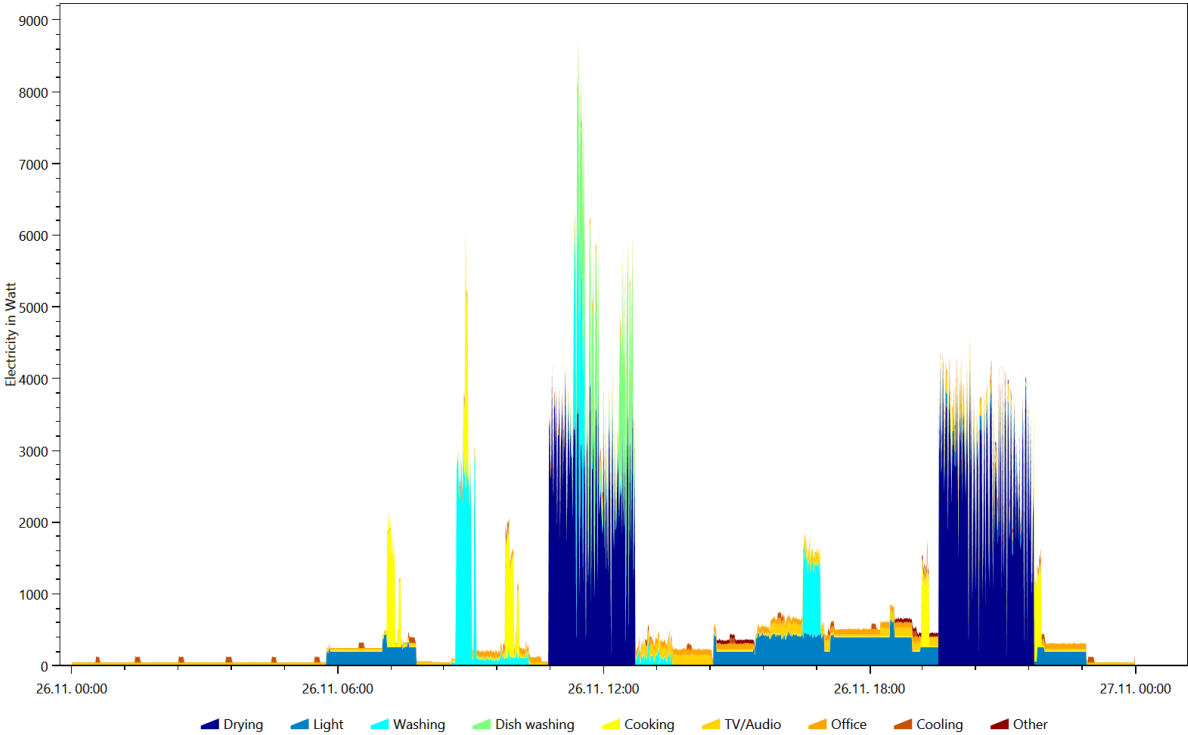
Electricity, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.7.7



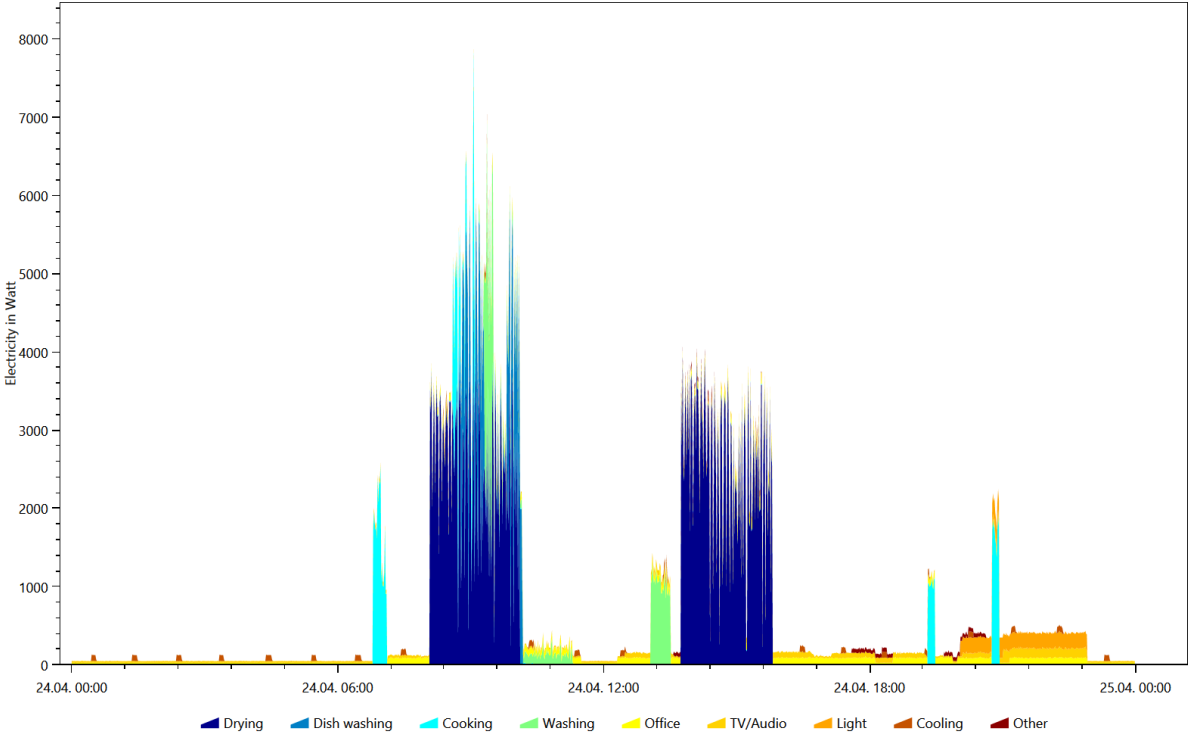
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.1.1



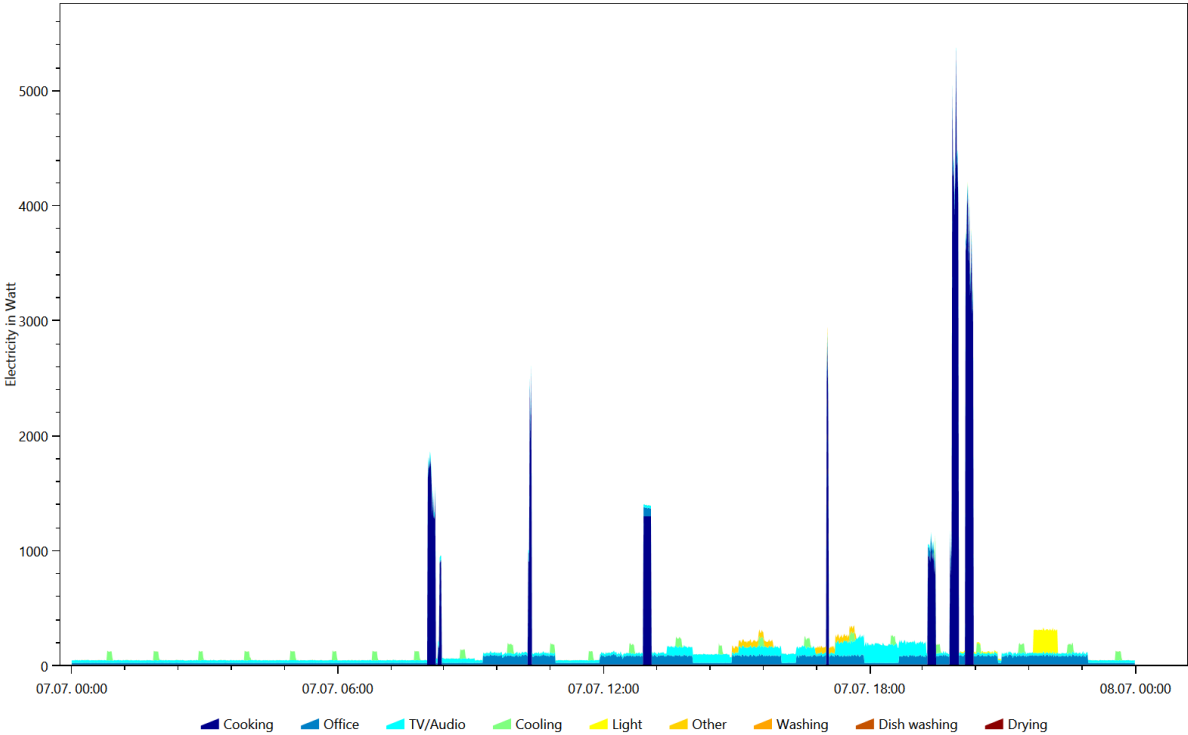
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.11.26



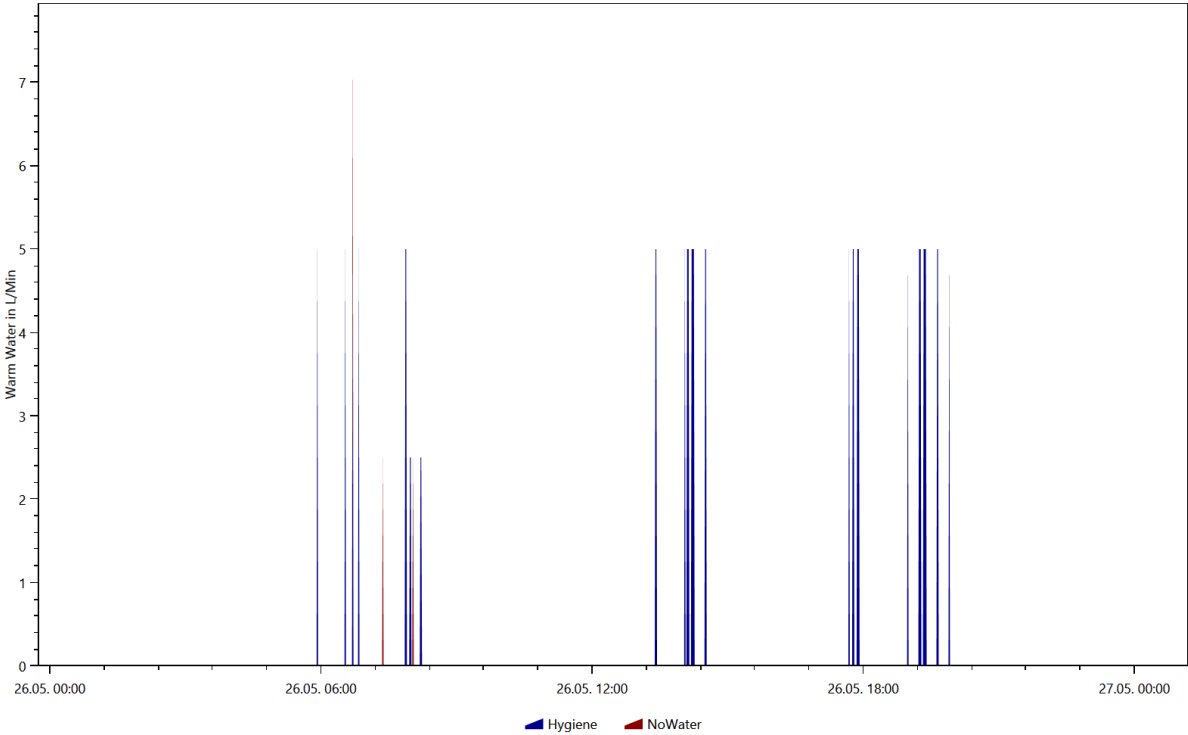
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.4.24



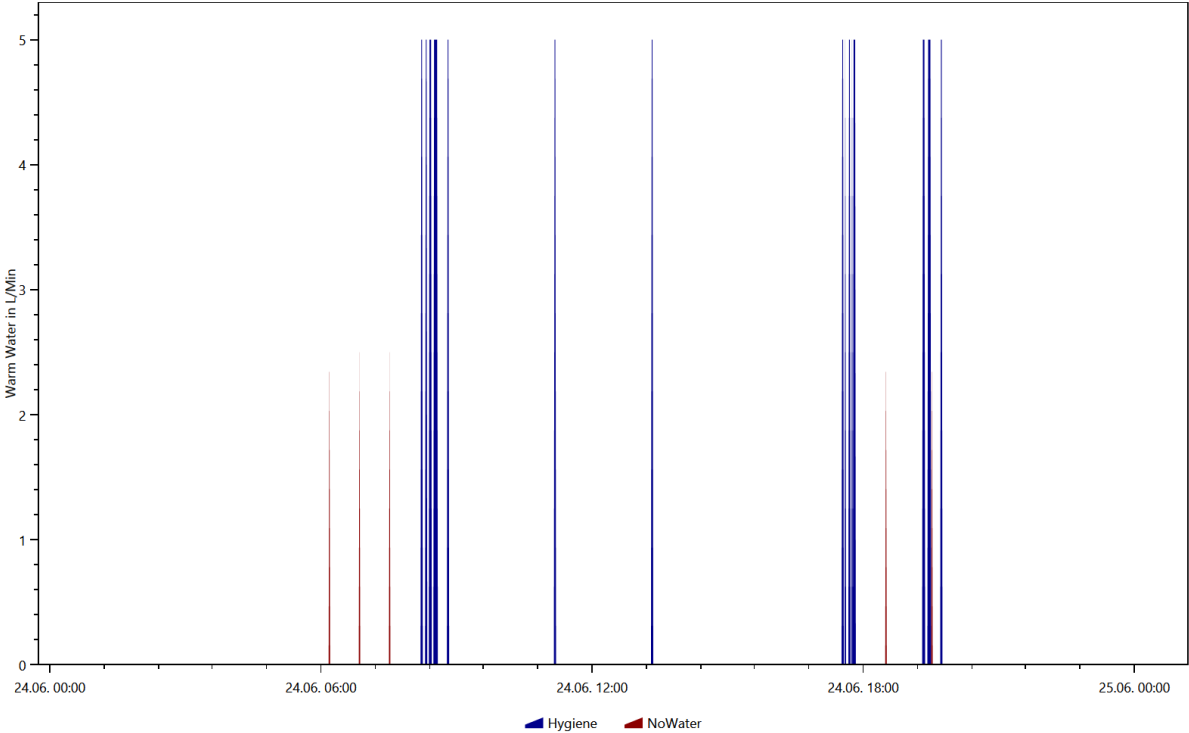
Electricity, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.7.7



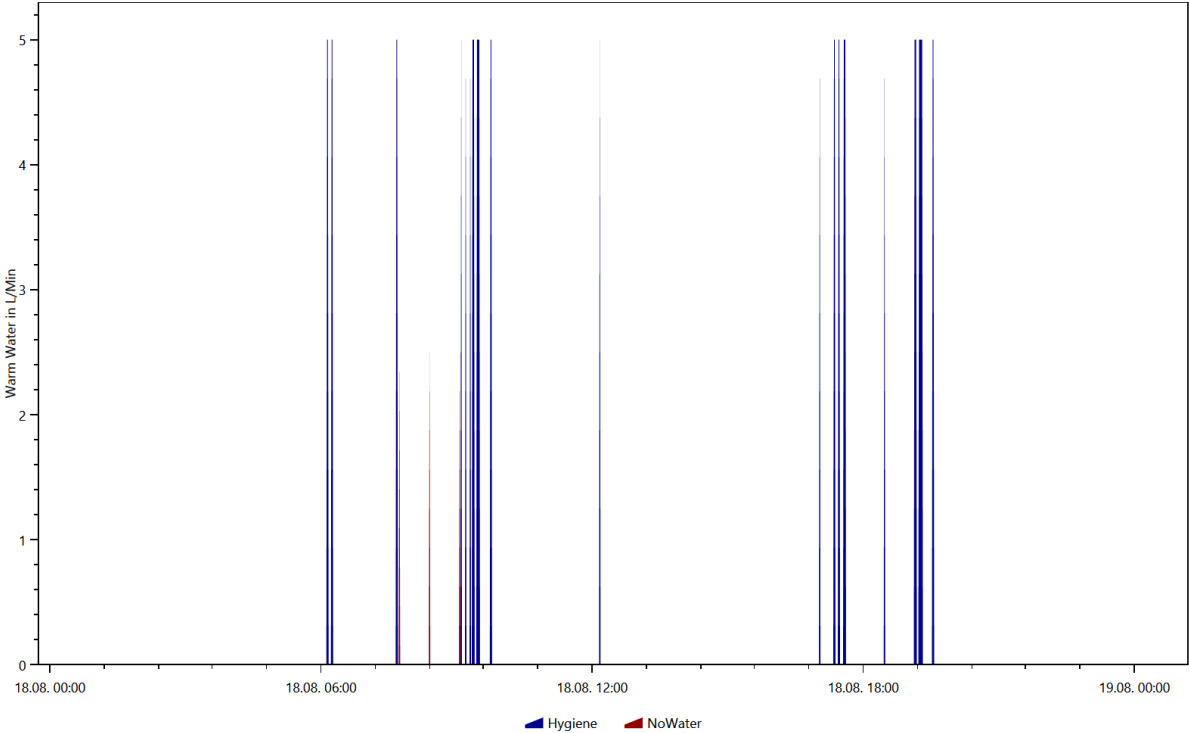
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.5.26



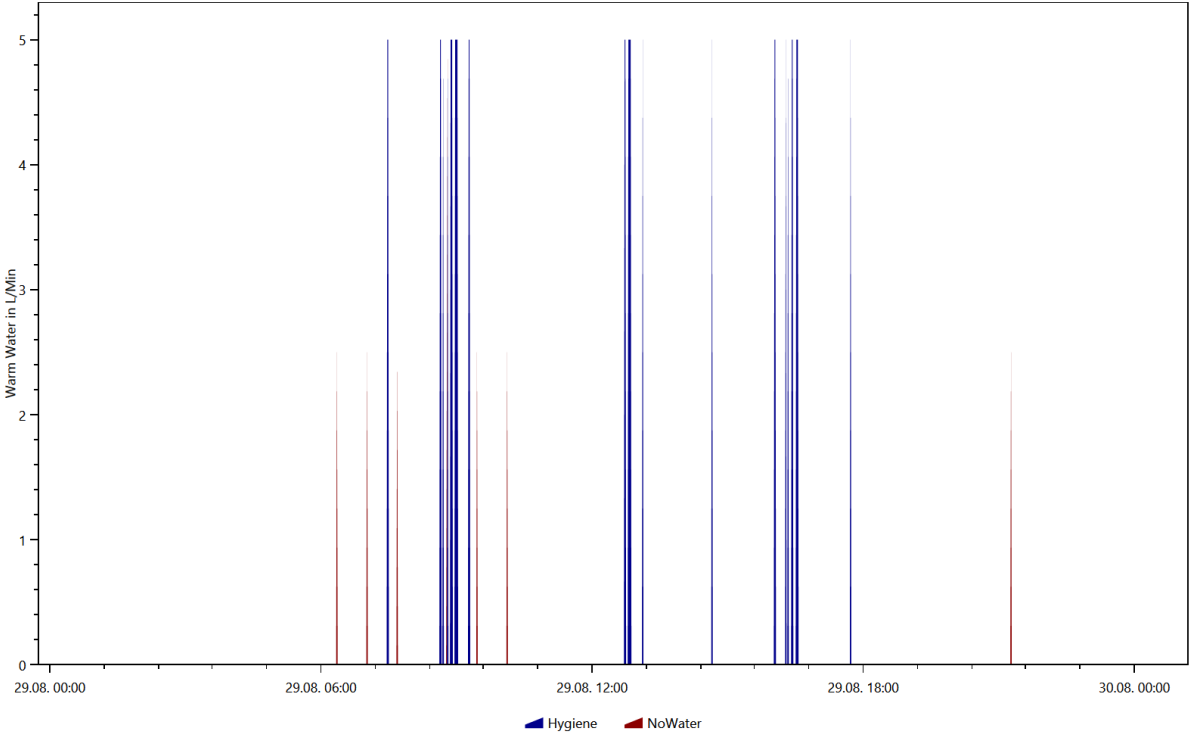
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.6.24



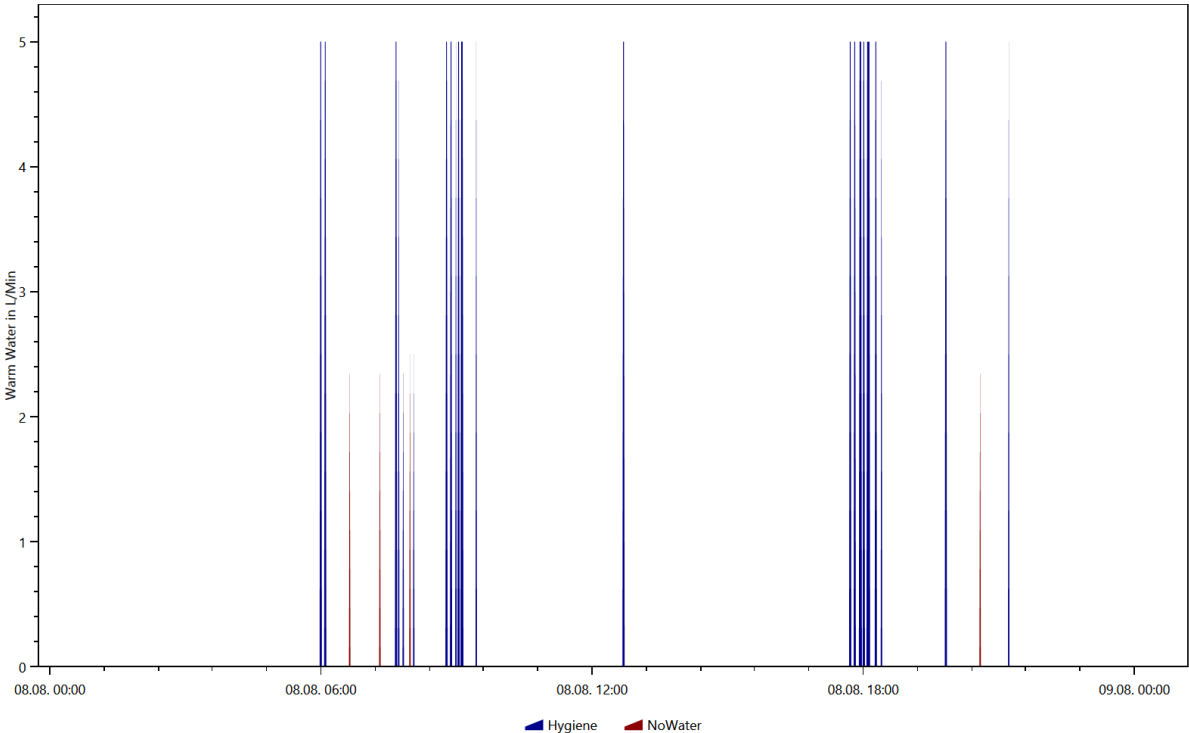
Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.18



Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.29

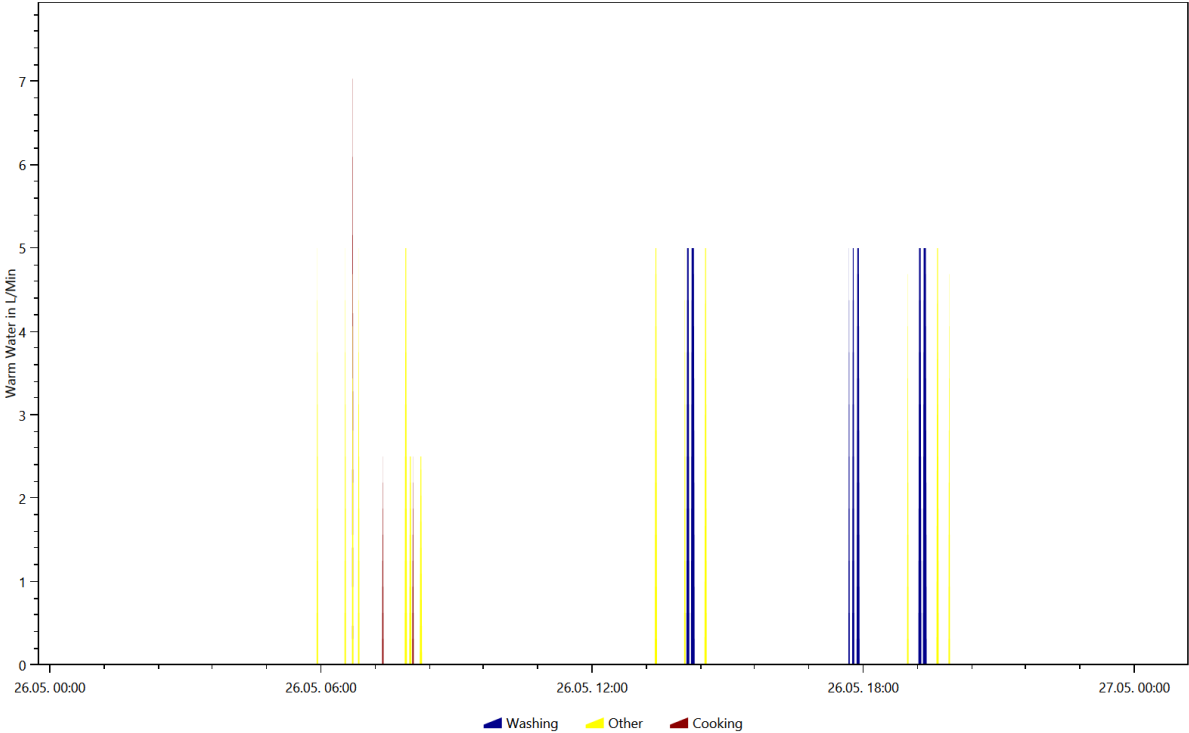


Warm Water, Coloring Scheme: Destatis Water Usage Statistics, Date 2016.8.8

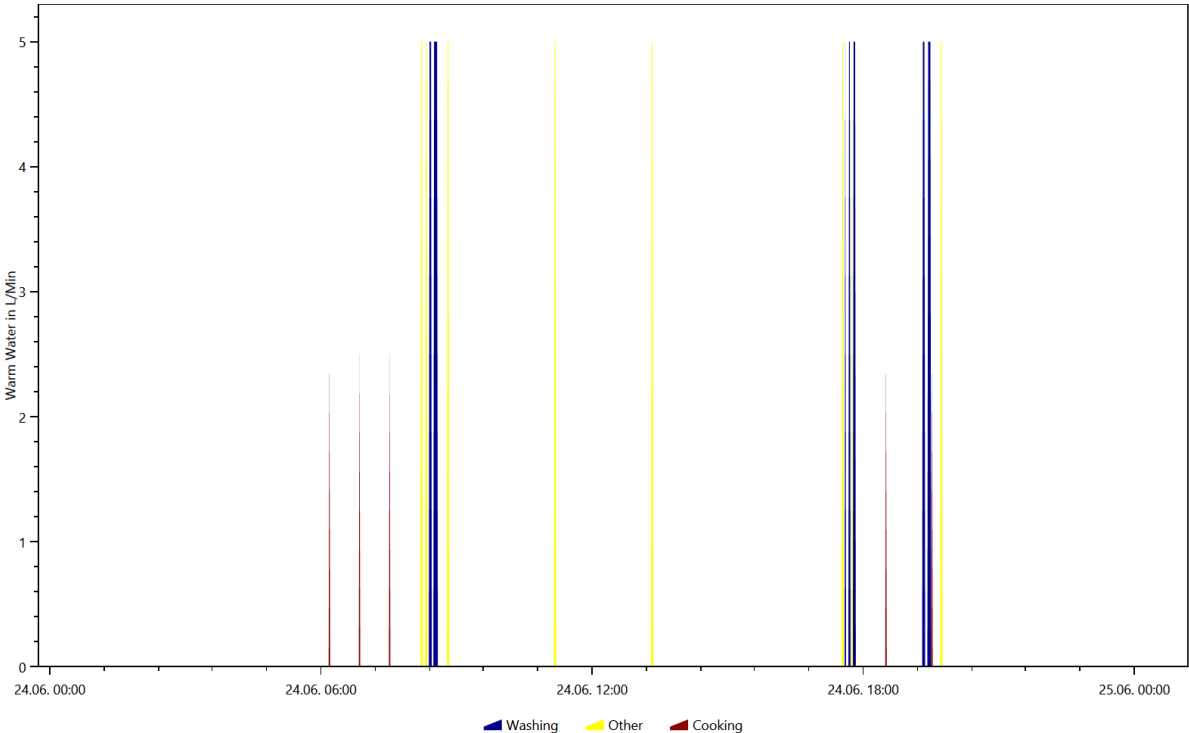




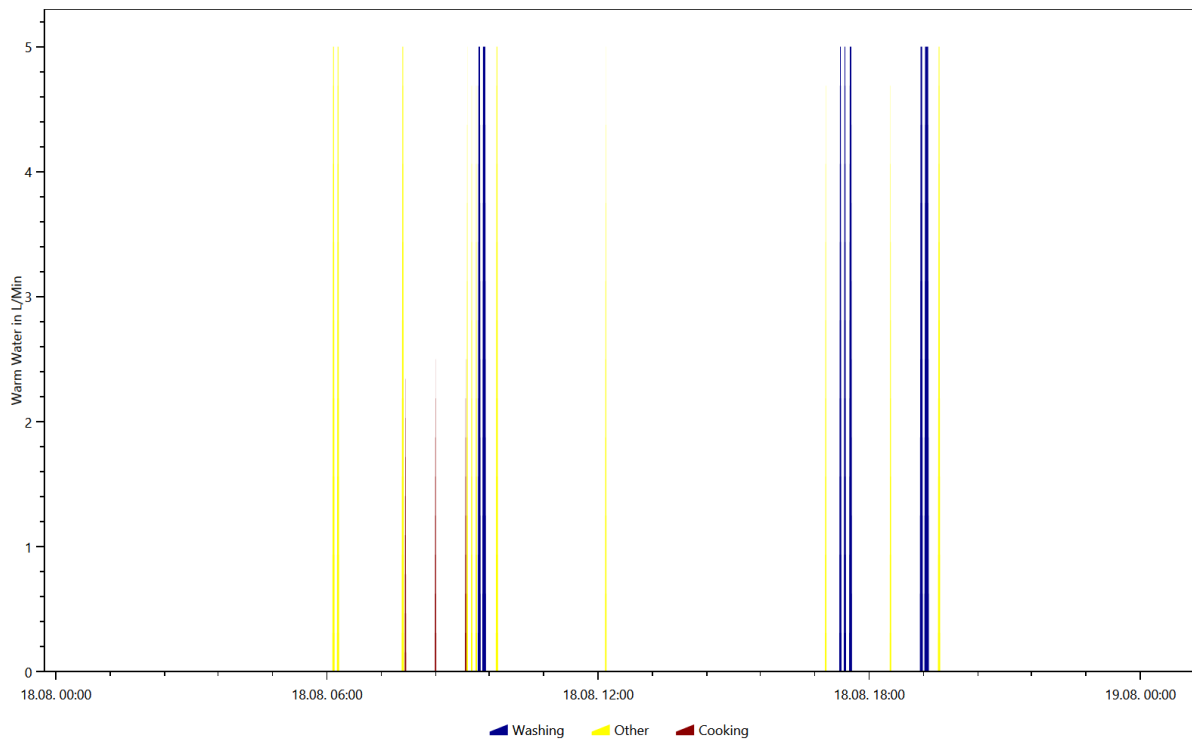
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.5.26



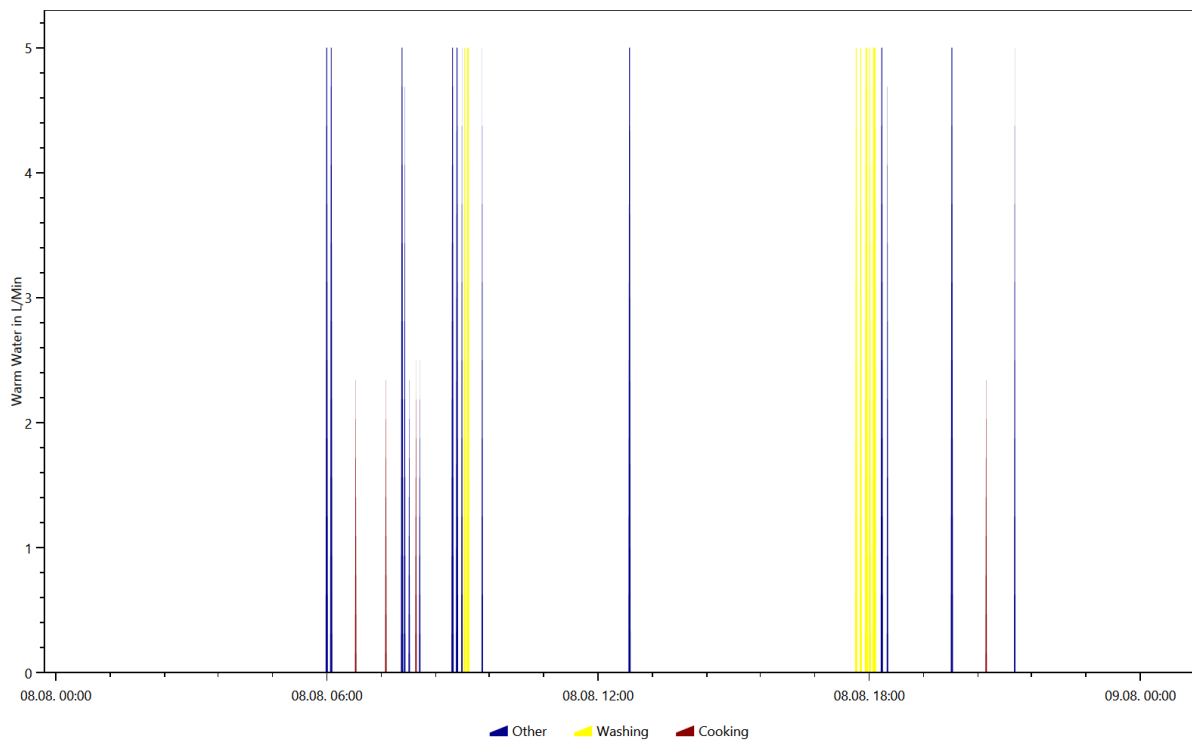
Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.6.24



## Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.18



## Warm Water, Coloring Scheme: Energieagentur.NRW Tags, Date 2016.8.8

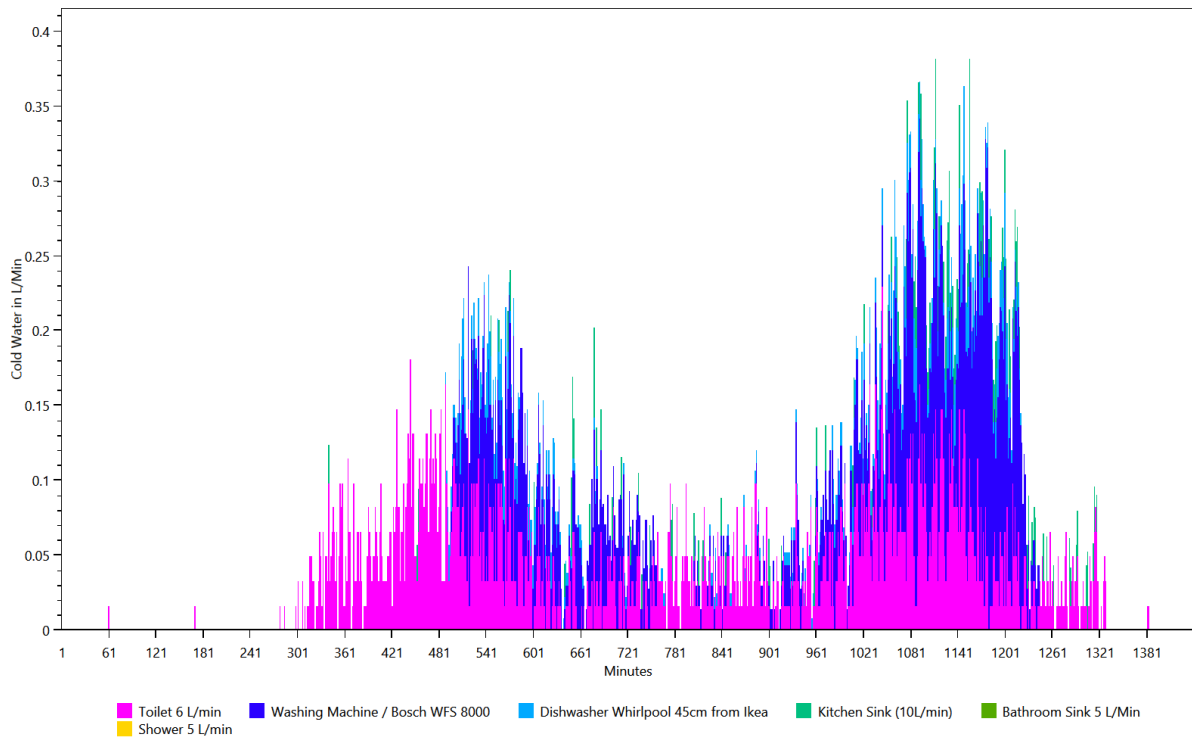


# Overview of the time and power of the use per load type per device

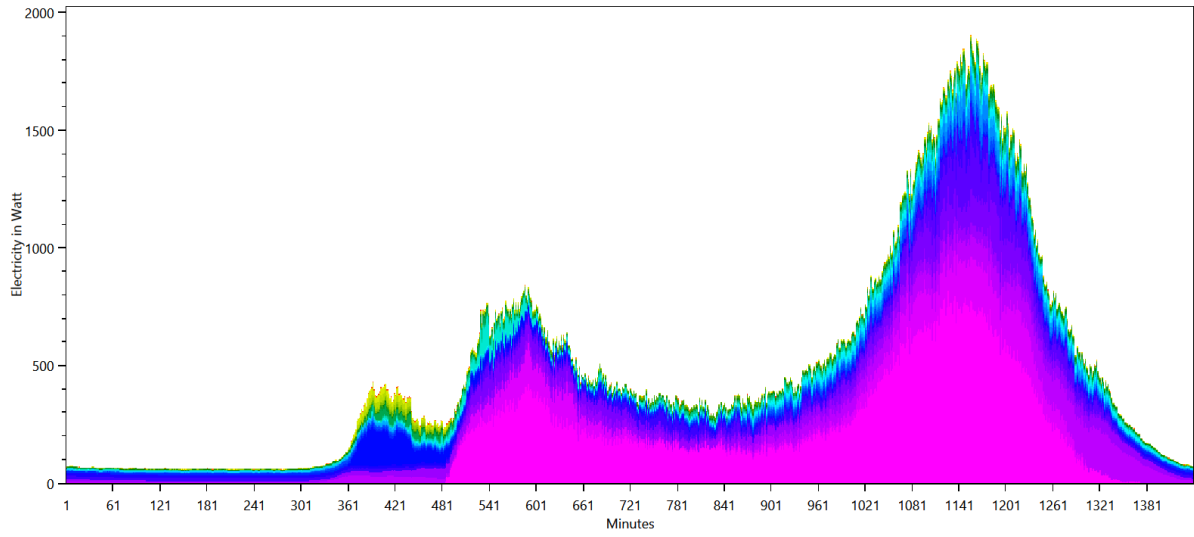
This is made from the files starting with: **TimeOfUseEnergyProfiles**

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

## Cold Water

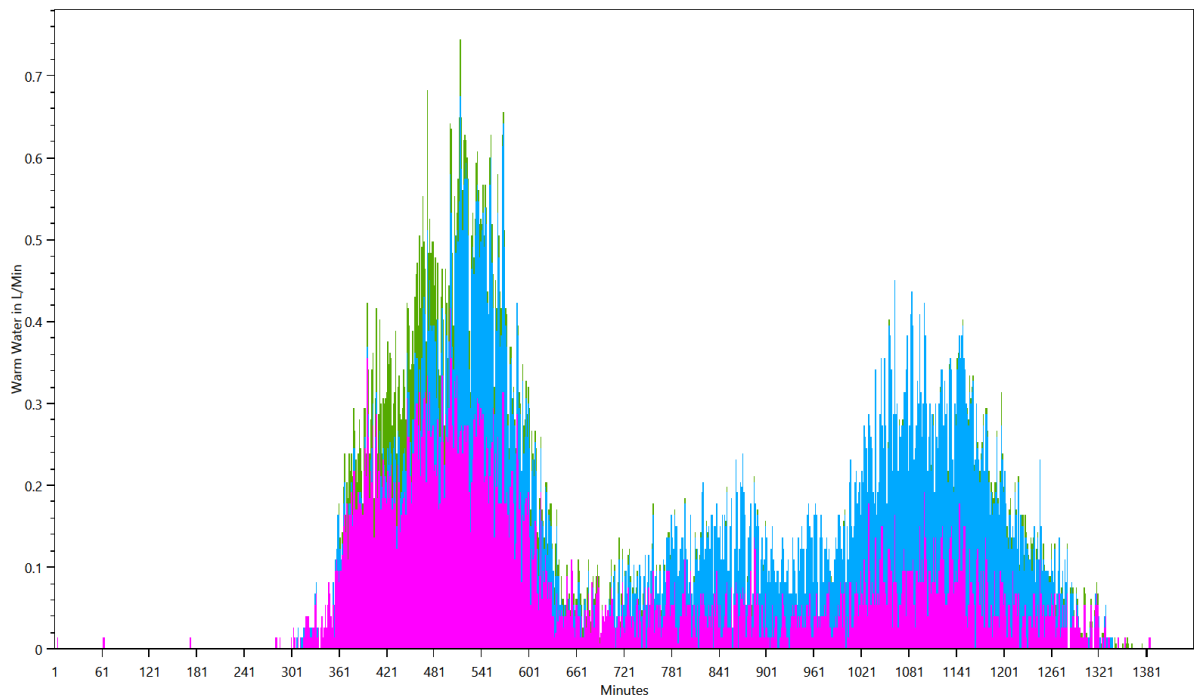


## Electricity



- Miele T 495 C
- Dishwasher Whirlpool 45cm from Ikea
- Living Room Light (200W)
- Laptop / ACER BT.00603.043 Replacement laptop battery
- Washing Machine / Bosch WFS 8000
- Oven / AEG B 33512-5-M
- Microwave Panasonic (1991)
- Yamaha RX-V667
- Coffee Machine / Braun Impression KF 600
- Siemens KI 20 LA 65 (A+)
- Children Room Light (200W)
- Home Cinema System / Samsung HT-D5550
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove front left
- Bathroom Light (200W)
- Router O2 Box 6431
- Bedroom Light (200W)
- TV Medion MD20123\_DE\_A
- Electric Kettle / Phillips Essential HD 4685/90 Schwarz
- Hifi System / Sharp XL-HF300PH
- Hair Dryer Braun Silencio 1250
- Digitalpiano / Kawai CN-23
- Toaster / Tefal Vario
- Kitchen Stove / Bauknecht Heko 750 PT Kitchen stove left hind- semi aktiv
- Nintendo Wii
- SAT Receiver / Kathrein UFS913
- CD/DVD Player / Philips HDR3810/31
- Siemens VS 91143 S Super 911
- Kitchen Light (60W)
- Kitchen radio / AEG KRC 4323 CD
- Juicer / Moulinex Vitafruit
- Egg Cooker / Russell Hobbs 14048-56 Stylo
- Bathroom Mirror Light 30W (CFL)
- Phone / Gigaset E310
- Miele DA 249-2
- Handmixer / Phillips Robust HR 1581
- Electric Toothbrush Dondodent Professional Clean
- Electric Razor / Phillips PT860/16 Razor PowerTouch Plus
- Food Slicer / DOMO Schneidemaschine DO521S
- Energy Saving Lamp / EL-REF 11 E27

## Warm Water



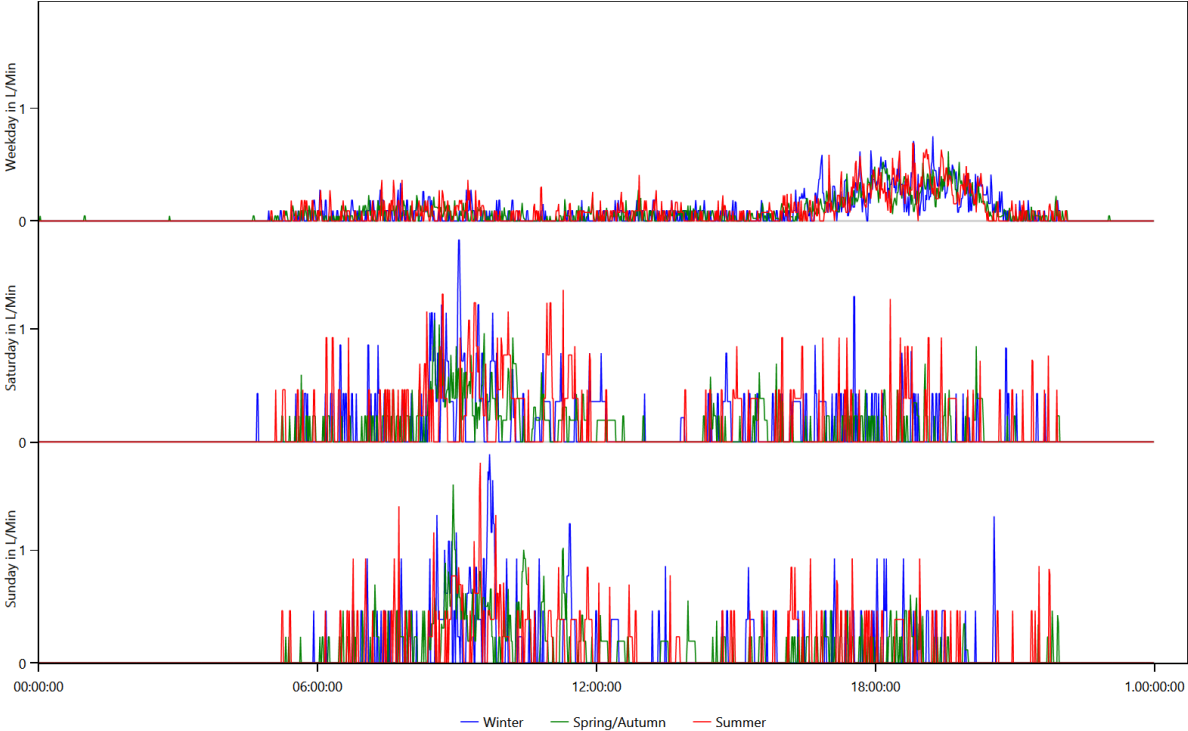
- Bathroom Sink 5 L/Min
- Shower 5 L/min
- Kitchen Sink (10L/min)

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

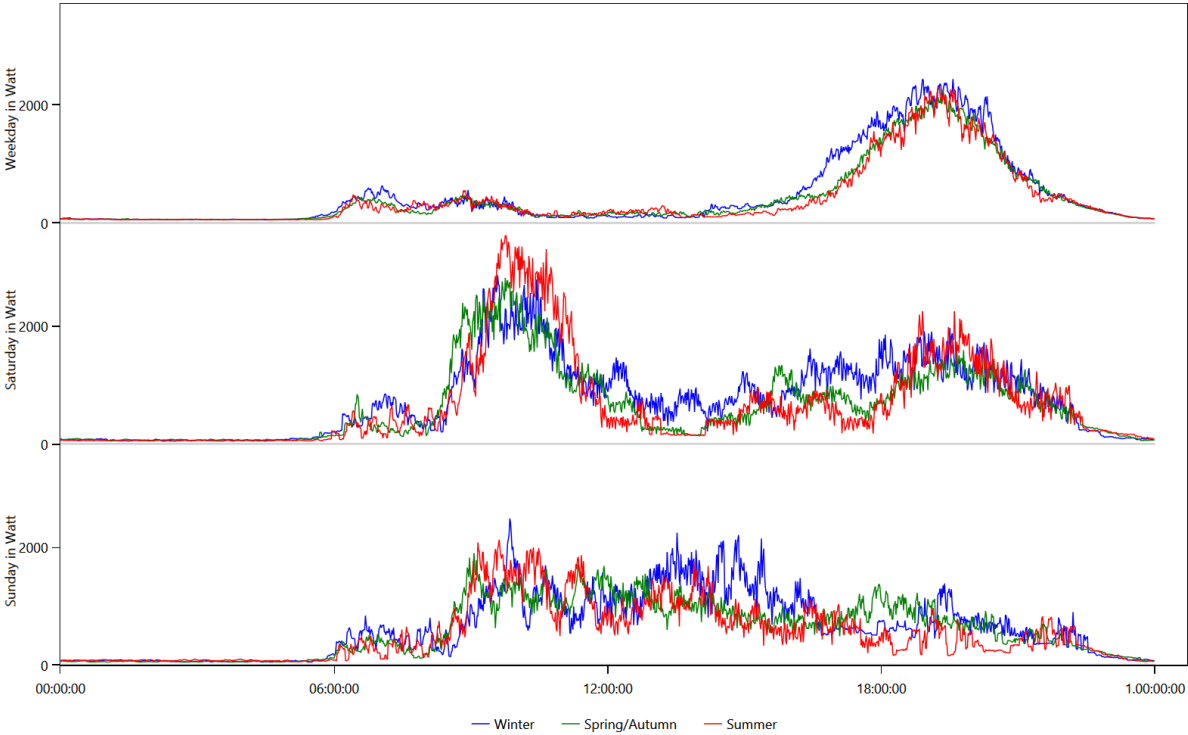
This is made from the files starting with: WeekdayProfiles

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

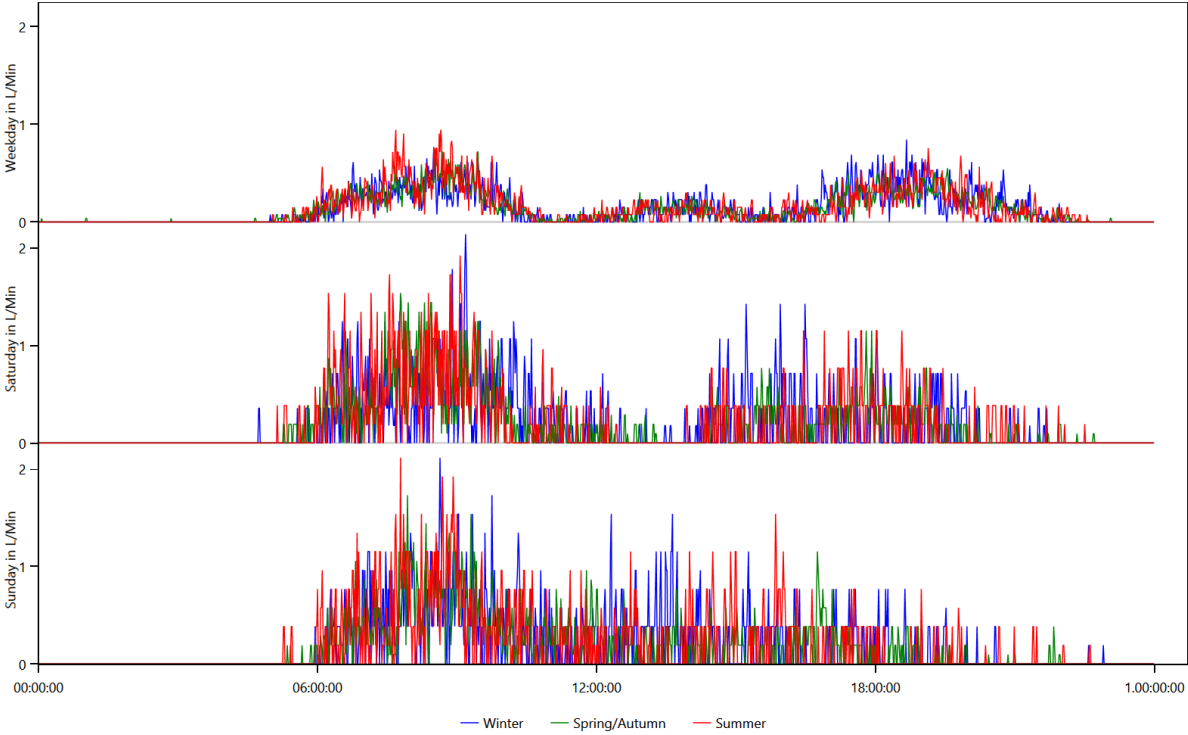
## Cold Water



# Electricity



# Warm Water

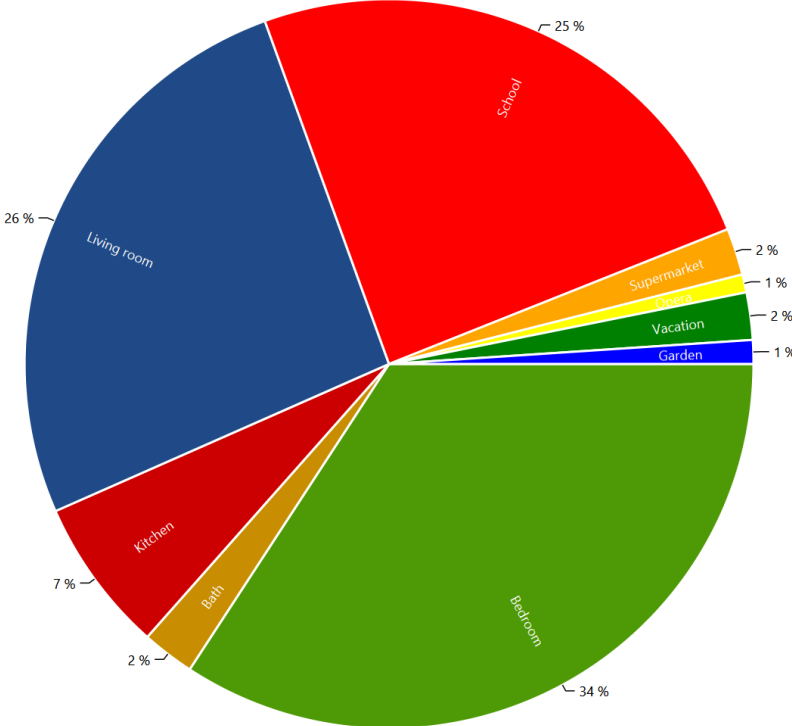


# Location Distribution per Person

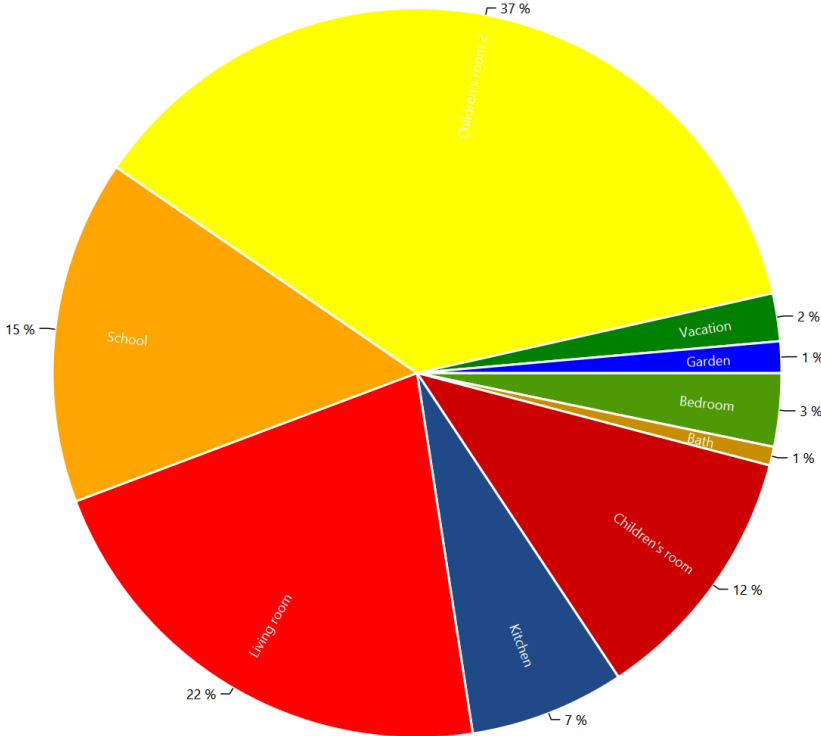
This is made from the files starting with: LocationStatistics

These charts show where the persons spend their time.

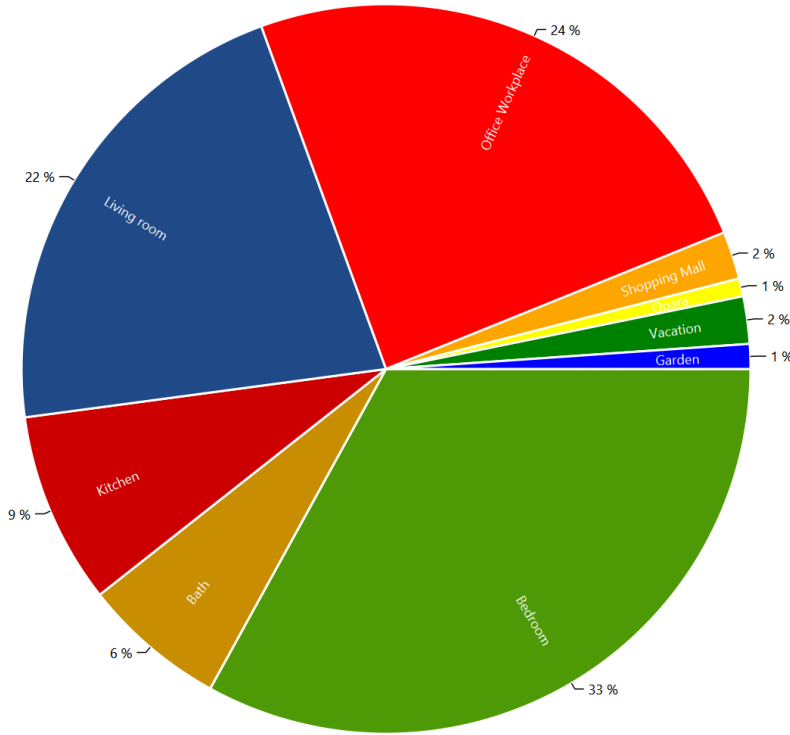
CHR27 Emil (43 Male)



CHR27 Laura (9 Female)

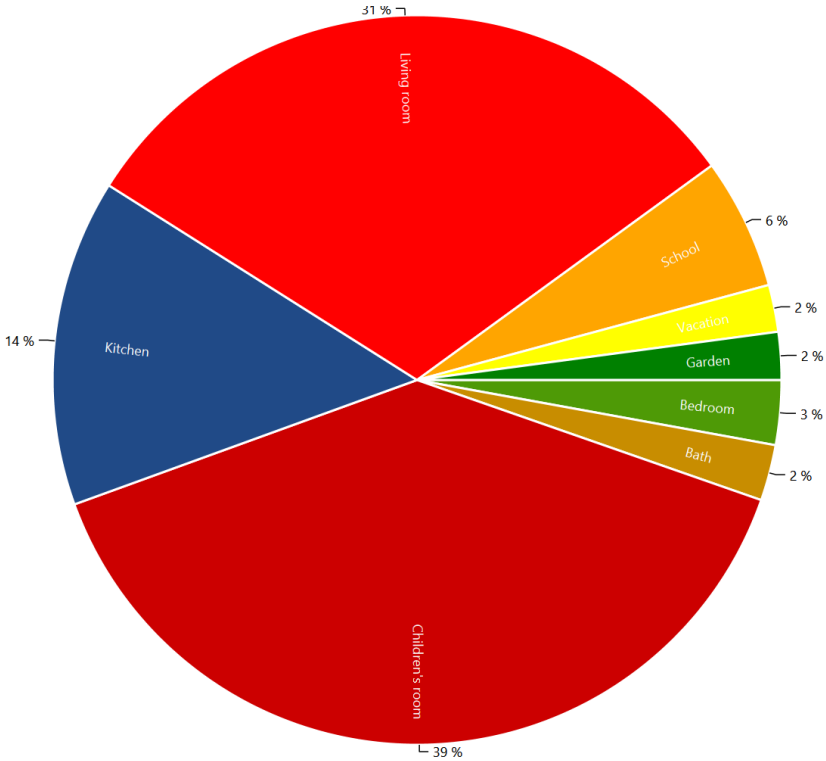


CHR27 Melanie (39 Female)





CHR27 Tobias (13 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

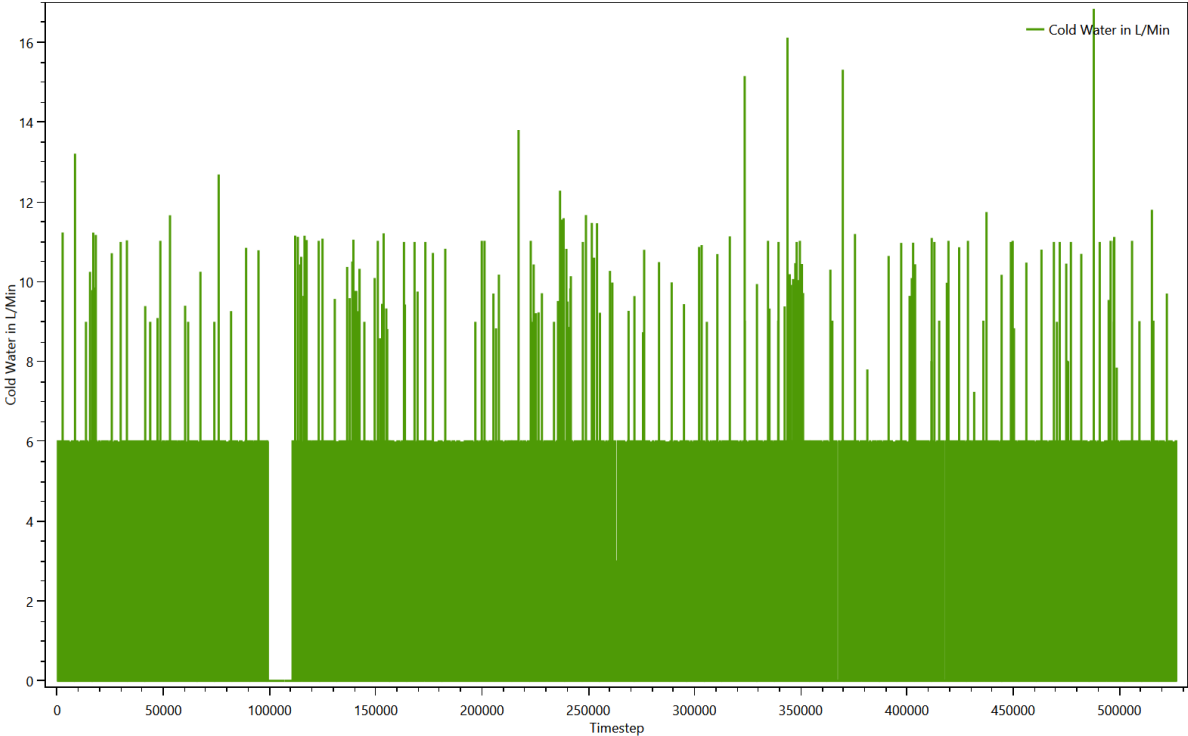
```
Time step;Calendertime;Person;Selected affordance;Affordance Category;Is Sick
0;01.01.2016 00:00;CHR27 Emil (43/Male);sleep bed 08 (08 h);sleep;False;
0;01.01.2016 00:00;CHR27 Laura (9/Female);sleep bed 04 (10 h) Child;sleep;False;
0;01.01.2016 00:00;CHR27 Melanie (39/Female);sleep bed 02 (08 h);sleep;False;
0;01.01.2016 00:00;CHR27 Tobias (13/Male);sleep bed 03 (12 h) Child;sleep;False;
341;01.01.2016 05:41;CHR27 Laura (9/Female);go to the toilet;hygiene;False;
347;01.01.2016 05:47;CHR27 Laura (9/Female);play with toys (2 h);Offline Entertainment;False;
371;01.01.2016 06:11;CHR27 Emil (43/Male);eat breakfast (1 h);cooking;False;
382;01.01.2016 06:22;CHR27 Laura (9/Female);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;False;
382;01.01.2016 06:22;CHR27 Tobias (13/Male);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;False;
405;01.01.2016 06:45;CHR27 Melanie (39/Female);get ready in the morning (women);hygiene;False;
427;01.01.2016 07:07;CHR27 Melanie (39/Female);go to the toilet;hygiene;False;
433;01.01.2016 07:13;CHR27 Melanie (39/Female);use the laptop for Internet, Movie, Music, News (2
h);Active Entertainment (Computer, Internet etc);False;
436;01.01.2016 07:16;CHR27 Melanie (39/Female);eat a cooked meal (interrupting) (eat breakfast (1
h));cooking;False;
440;01.01.2016 07:20;CHR27 Emil (43/Male);go to the toilet;hygiene;False;
440;01.01.2016 07:20;CHR27 Laura (9/Female);play with toys (2 h);Offline Entertainment;False;
440;01.01.2016 07:20;CHR27 Melanie (39/Female);use the laptop for Internet, Movie, Music, News (2
h);Active Entertainment (Computer, Internet etc);False;
440;01.01.2016 07:20;CHR27 Tobias (13/Male);sleep bed 03 (12 h) Child;sleep;False;
445;01.01.2016 07:25;CHR27 Emil (43/Male);play Wii;Passive Entertainment (TV etc.);False;
457;01.01.2016 07:37;CHR27 Laura (9/Female);go to primary school ;school;False;
```

# Sum Profiles

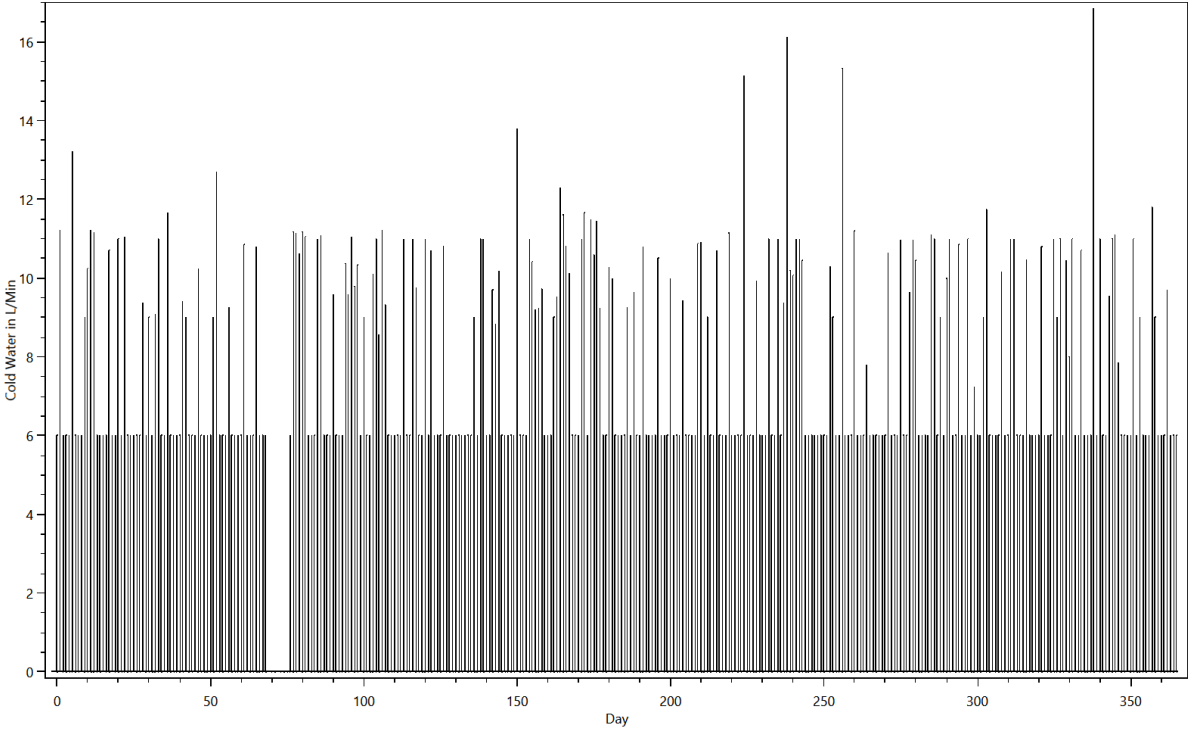
This is made from the files starting with: SumProfiles

This shows the energy use during the simulation.

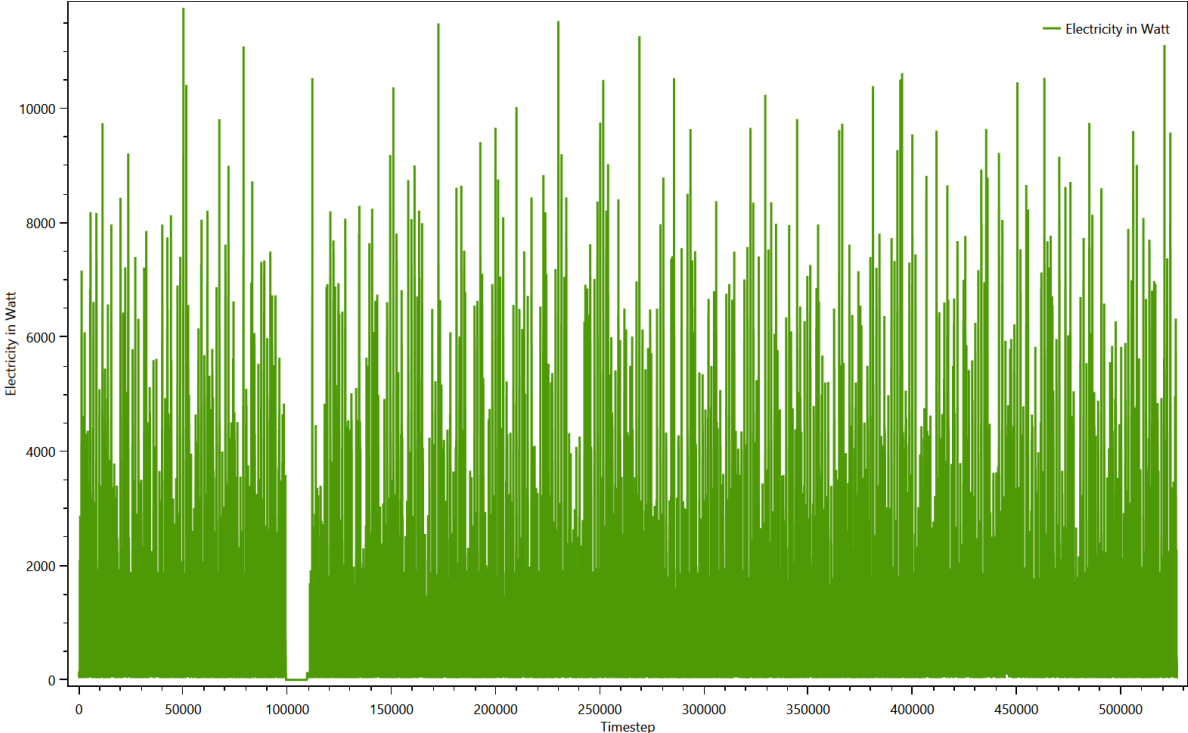
[Summed up curve for Cold Water from SumProfiles.Cold Water.png](#)



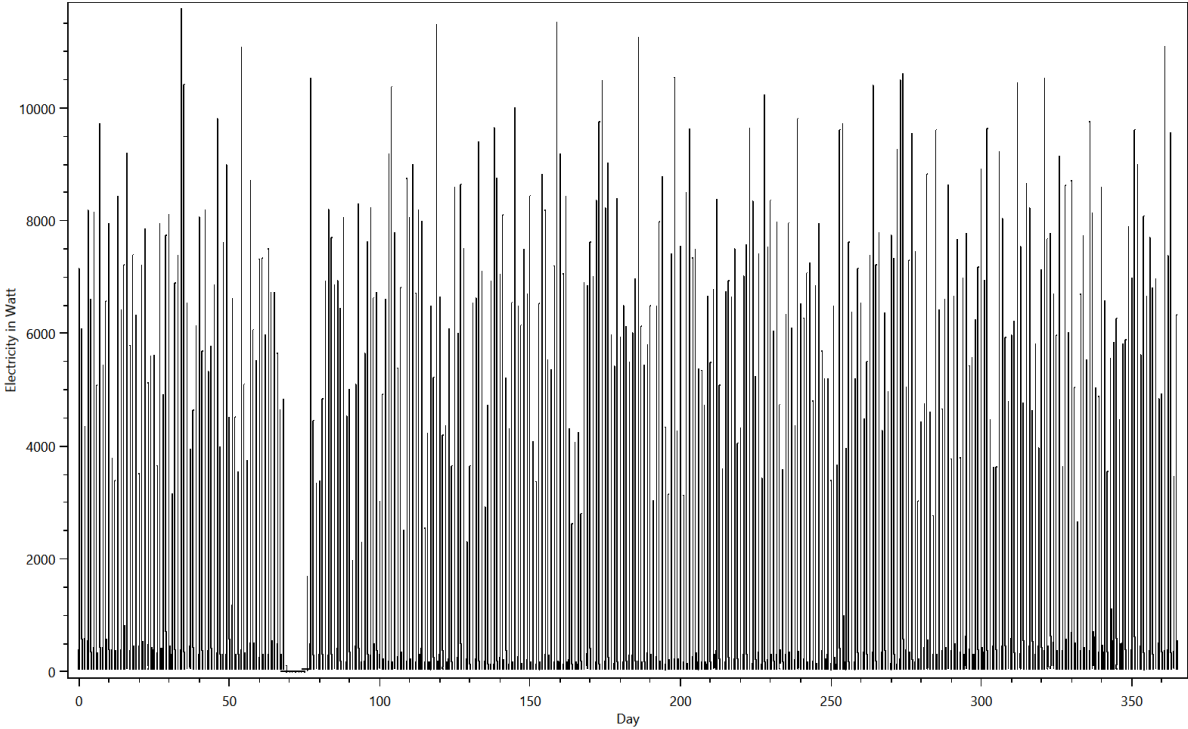
Summed up curve for Cold WaterMinMax from SumProfiles.Cold WaterMinMax.png



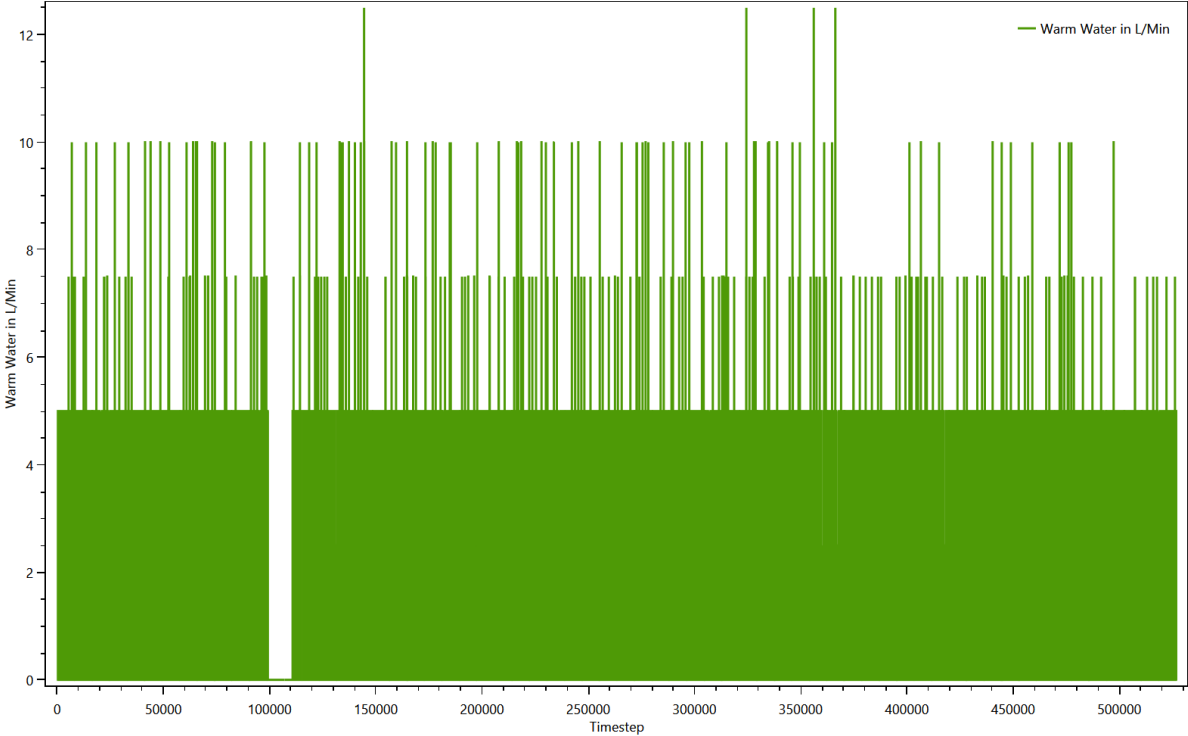
Summed up curve for Electricity from SumProfiles.Electricity.png



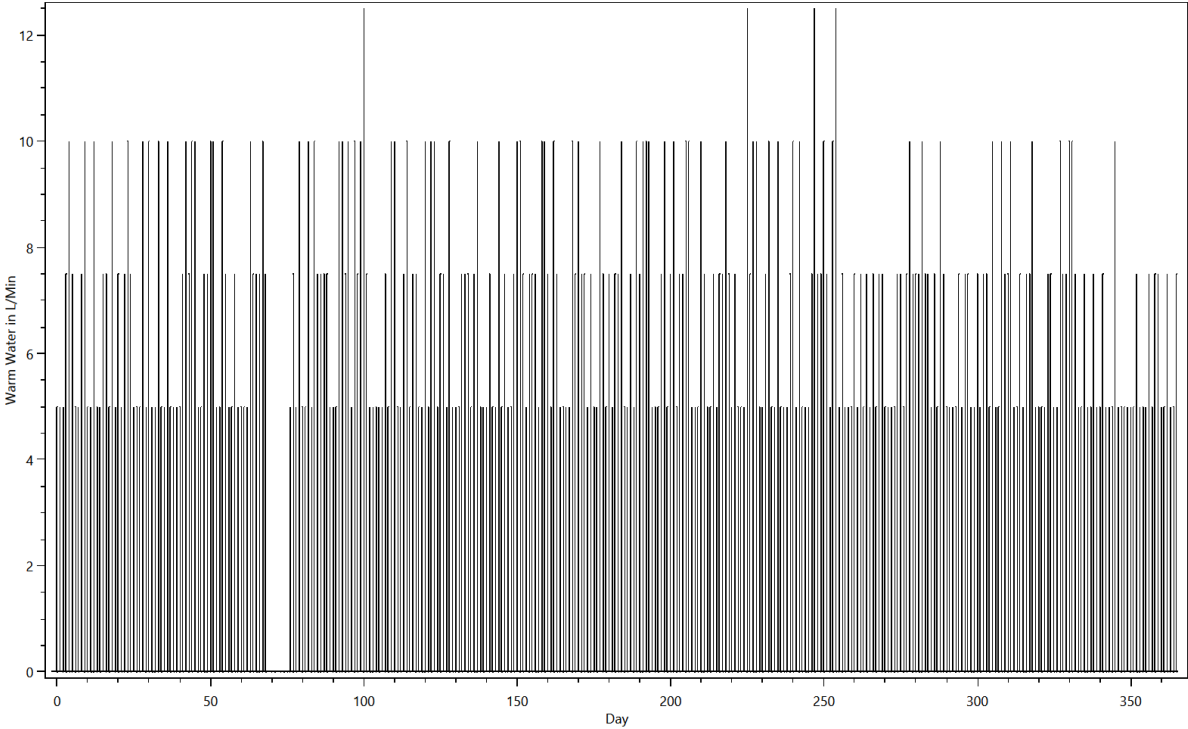
Summed up curve for ElectricityMinMax from SumProfiles.ElectricityMinMax..png



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.CHR27 Family both at work, 2 children 0.txt

Device;Load Type;Profile;Number of Activations

Bathroom Light (200W);Electricity;Bath - light [Synthetic for Light Device];1077

Bathroom Mirror Light 30W (CFL);Electricity;Bath - light [Synthetic for Light Device];1077

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 100% [Synthetic];4495

Bathroom Sink 5 L/Min;Warm Water;0 h 01 min 50% [Synthetic];400

Bed 2;None;08 h 0 min 100% [Synthetic];361

Bed 3 (Children);None;12h 0 min 100% [Synthetic];361

Bed 4;None;10 h 0 min 100% [Synthetic];361

Bed 8;None;08 h 0 min 100% [Synthetic];359

Bedroom Light (200W);Electricity;Bedroom - light [Synthetic for Light Device];164

Board Games;None;01 h 0 min 100% [Synthetic];339

Book;None;01 h 0 min 100% [Synthetic];19

CD/DVD Player / Phillips HDR3810/31;Electricity;01 h 30 min 100% [Synthetic];378

CD/DVD Player / Phillips HDR3810/31;Electricity;02 h 0 min 100% [Synthetic];13

CD/DVD Player / Phillips HDR3810/31;Electricity;Standby TV / Receiver 1 h 0 min 3% [Synthetic];8605

Children Room Light (200W);Electricity;Children's room - light [Synthetic for Light Device];281

Cleanser;None;01 h 0 min 100% [Synthetic];84

Coffee Machine / Braun Impression KF 600;Electricity;0 h 10 min 100% [Synthetic];492

Couch;None;01 h 0 min 100% [Synthetic];242

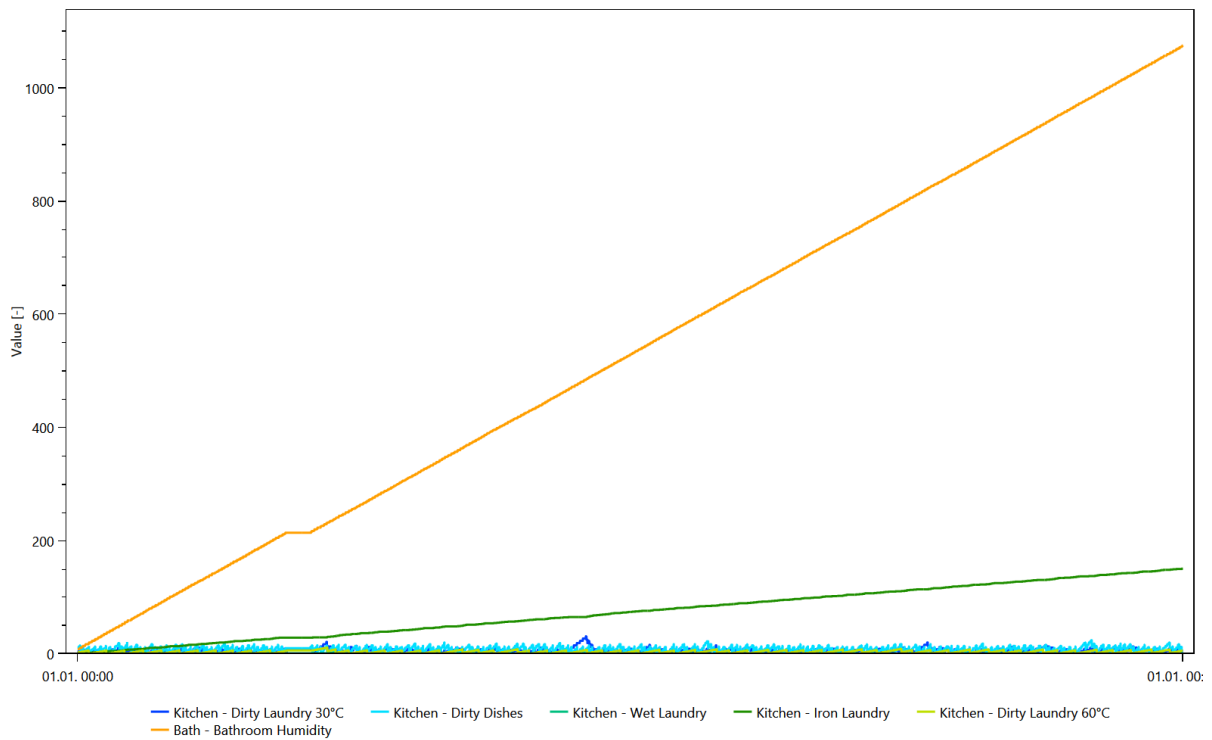
Couch;None;02 h 0 min 100% [Synthetic];930

# 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

