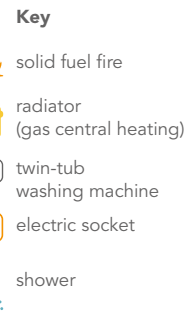






**Figure 1**  
**Changing infrastructures**  
Figure 1 shows the layout of a council house in Stevenage in 1960 and in 1983. It illustrates the spread of heating and electricity provision throughout the home, and shows how the use of space has changed.



1970s and more recently combi boilers. These technologies made different routines of bathing and showering possible. For example, interviewees reported changing from a daily 'campers wash' to a daily shower between 1970 and 1980 as instant hot water became more widely available.

Home appliances also had implications for weekly schedules. Figure 2 shows the steps involved in doing laundry with a twin-tub washing machine. As our interviewees explained, this took several hours. Since it was more efficient to do all the washing at once, working couples usually saved this task for the weekend.

Many working households still do laundry at the weekend, but since the arrival of automatic washing machines this is now something that can be slotted in alongside other tasks.

## Significance

As our research shows, institutions, energy infrastructures and domestic technologies combine to shape daily patterns of household occupancy and routine. Present arrangements are no exception. This is significant on two counts. First, the scheduling of home energy use is not something that can be changed by act of will: households are caught up in temporal rhythms and routines that extend beyond the home and that are also outcomes of how houses are designed and of the appliances and infrastructures they contain. Second, these arrangements are always changing. As a result, future domestic routines – and the details of when energy is used in the home – are unlikely to be the same as those of today.

<sup>1</sup> Gershuny, J. 2011, *Time Use Surveys and the Measurement of National Well Being*, Centre for Time Use Research, University of Oxford, <http://web.archive.nationalarchives.gov.uk/20160105160709/http://www.ons.gov.uk/ons/rel/environmental/time-use-surveys-and-the-measurement-of-national-well-being/article-by-jonathan-gershuny/index.html>



**Figure 2**  
**Washing with a twintub**  
Turning on the immersion heater  
Wheeling out the twintub  
Washing: filling with water – load 1, load 2 etc.  
Emptying the water  
Rinsing: filling with water – load 1, load 2 etc.  
Emptying  
Spin-drying: load 1, load 2 etc.  
Hanging out to dry.

## Implications

In the past, policies that have had a bearing on the opening hours and location of shops, schools and workplaces have directly influenced daily schedules, and the timing of energy consumption in the home. By implication there is scope for re-scheduling patterns of home and working life as part of broader strategies to reduce peak load or to improve the match between demand and supply, especially of renewable energy.

Energy policy tends to focus on the efficiency of domestic buildings and appliances. Our research shows that efficiency is not the only issue, and that homes, infrastructures and appliances (heating systems, washing machines, etc.) also have an impact on daily routines and therefore on when energy is used in the home. By implication, domestic technologies could be designed to re-configure the timing of energy demand through their impact on the scheduling of household practices.