

Monitored total demand profile

Stage 1:

Rule HW1

Preliminary set of possible ON and OFF events

Rule HW2

Rule HW3

Rule HW4

$\text{Score}_{(\text{rule HW2})}$

$\text{Score}_{(\text{rule HW3})}$

$\text{Score}_{(\text{rule HW4})}$

W

W

W

$\text{Score}_{(\text{rule HW2})}^*$

$\text{Score}_{(\text{rule HW3})}^*$

$\text{Score}_{(\text{rule HW4})}^*$

$\text{Score}_{\text{AGGREGATE}}$

Rule HW5

Stage 2:

Final set of possible events

Rule HW6

Rule HW7

Rule HW8

Estimated load duration

Stage 3:

Eq. (1)

Estimated DHW energy use