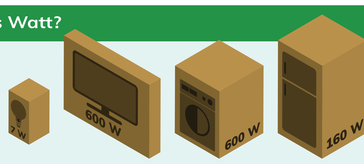
PHI SUEA
HOUSE
PROJECT

ENERGY
COMMON KNOWLEDGE

What is Watt?

Watt (W) = Unit of power

How much power an appliance requires to work

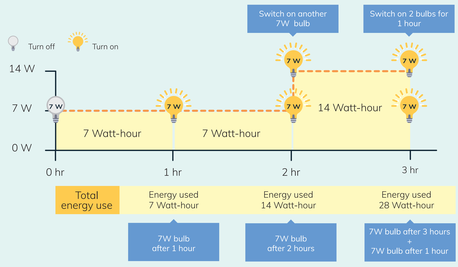


What is Watt-hour(Wh)?

Watt-hour(Wh) is

Unit of power when

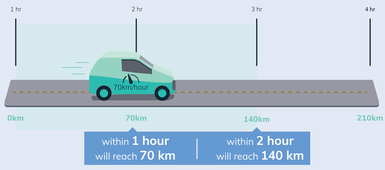
used for an hour



Another example to illustrate what is a Watt(W) and Watt-hour(Wh)

Flow rate = **rate of energy transfer = Watt(W)** **Which you can compare to speed**

Amount of energy in a period of time = Watt-hour(Wh) **Which you can compare to distance**



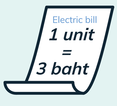
within **1 hour** will reach **70 km** | within **2 hour** will reach **140 km**

(if it keeps running at 70km/hour)

1,000 Wh = 1 kWh

Appliances and Energy Consumption

Watt (W)	7 W	160 W	400 W	600 W
Time	6 hour	24 hour	6 hour	1.5 hour
Wh (W x Hour)	42 Wh	3,840 Wh	2,400 Wh	900 Wh
kWh	0.042 kWh	3.84 kWh	2.4 kWh	0.9 kWh



In Thailand, our electric bill counts 1 kWh = 1Unit or 1 หน่วย

600 W ▶ 6 hour ▶ 3,600 Wh or 3.6 kWh ▶ ใช้เครื่องซักผ้า 600 W เป็นเวลา 6 ชั่วโมง ค่าไฟคิดเป็น 3.6x3 = 10.8 บาท