

Name: _____ Date: _____

Electricity Worksheet 2b



Supply & Demand Extension

Table 1

Time	Electricity demand (kWh)	Electricity supply (kWh)	Electricity demand – electricity supply
1am	20	0	$20 - 0 = 20$
2am	17.5	0	
3am	15	0	
4am	15	0	
5am	17.5	0	
6am	20	0	
7am	40	0	
8am	62.5	5	
9am	60	7.5	
10am	60	35	
5pm	75	7	
6pm	82.5	0	
7pm	82.5	0	
8pm	80	0	
9pm	80	0	
10pm	75	0	
11pm	50	0	
Midnight	30	0	
Total electricity that can't be generated using solar panels			kWh

Table 2

Time	Electricity demand (kWh)	Electricity supply (kWh)	Electricity supply – demand
11am	50	65	$65 - 50 = 15$
Midday	47.5	72	
1pm	50	75	
2pm	45	77	
3pm	47.5	68	
4pm	60	62	
Total electricity from solar panels that could be wasted			kWh



1. How much electricity would Banktown still need to generate for this day?

_____ kWh – _____ kWh = _____ kWh

2. The Banktown council decided to go with an energy mix, made up of solar panels and wind turbines.

Why is it important for different towns and countries to use an energy mix?