



# NUCLEAR

Nuclear fission boils water creating steam that turns turbines, generating electricity.

FLEXIBLE & RELIABLE

RELIABLE, NOT FLEXIBLE

RENEWABLE

NON-RENEWABLE

GREENHOUSE GAS EMISSIONS

VERY LOW

LAND USE

LOW

### WASTE PROFILE

HIGH (very special handling for different levels of radioactive waste)

TYPICAL COST PER KILOWATT:

10.1 cents/KW



# HYDRO

Flowing water turns turbines, generating electricity.

FLEXIBLE & RELIABLE

BOTH

(SOMEWHAT QUICKLY ADJUSTABLE)

RENEWABLE

RENEWABLE

GREENHOUSE GAS EMISSIONS

VERY LOW

LAND USE

LOW-MEDIUM

### WASTE PROFILE

LOW (100 year+ asset life)

TYPICAL COST PER KILOWATT:

6.1 cents/KW



# NATURAL GAS

Burning natural gas boils water creating steam that turns turbines, generating electricity.

FLEXIBLE & RELIABLE

BOTH

(QUICKLY ADJUSTABLE)

RENEWABLE

NON-RENEWABLE

GREENHOUSE GAS EMISSIONS

HIGH

LAND USE

LOW

### WASTE PROFILE

LOW (Not including emissions)

TYPICAL COST PER KILOWATT:

11.3 cents/KW



# WIND

Wind turns turbines, generating electricity.

FLEXIBLE & RELIABLE

NO

(WEATHER DEPENDENT)

RENEWABLE

RENEWABLE

GREENHOUSE GAS EMISSIONS

VERY LOW

LAND USE

MEDIUM-HIGH (Variable)

### WASTE PROFILE

MEDIUM (Repaired often, composite materials go to landfill)

TYPICAL COST PER KILOWATT:

15.4 cents/KW



# SOLAR

Sunlight reacts with materials in photovoltaic (PV) solar cells, generating electricity.

FLEXIBLE & RELIABLE

NO

(WEATHER DEPENDENT)

RENEWABLE

RENEWABLE

GREENHOUSE GAS EMISSIONS

LOW (~2x HYDRO)

LAND USE

MEDIUM-HIGH

### WASTE PROFILE

MEDIUM (Replaced often, small amount of toxins requires special handling)

TYPICAL COST PER KILOWATT:

50.2 cents/KW



# BIOMASS

Burning waste wood pellets boils water creating steam that turns turbines, generating electricity.

FLEXIBLE & RELIABLE

BOTH

(QUICKLY ADJUSTABLE)

RENEWABLE

RENEWABLE

GREENHOUSE GAS EMISSIONS

LOW (NET=0)

LAND USE

LOW-MEDIUM

### WASTE PROFILE

N/A (Maybe low)

TYPICAL COST PER KILOWATT:

25.8 cents/KW