**BIOMASS ENERGY WORKSHEET**

E = 2.8 x TE x m

* E = energy output per day (kWh)
* TE = thermal energy (MJ/kg)
* m = mass of fuel burned per day (kg)

Efficiency = 30%

Actual Energy Output = E x 0.30

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **FEEDSTOCK** | **TE**  **(MJ/kg)** | **m**  **(kg)** | **E**  **(kWh PER DAY)** | **ACTUAL ENERGY OUTPUT**  **(kWh PER DAY)** |
| Corn | 17 | 3 |  |  |
| Grasses | 18 | 2 |  |  |
| Alfalfa | 17 | 2.5 |  |  |
| Wheat straw | 18 | 1.5 |  |  |
| Hardwood | 19 | 4 |  |  |
| Softwood | 10 | 3.5 |  |  |