

Prime Square Fuelwood Cookstove Controlled Cooking Test Results – Cambodia

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| Stove Manufacturer | Prime Cookstoves |
| Stove Model | Prime Square Fuelwood Cookstove (second generation) |
| Testing Organisation | SNV Netherlands Development Organisation |
| Testing Location | Sustainable Green Fuel Enterprise (SGFE), Phnom Penh, Cambodia |
| Test Protocol | Controlled Cooking Test (CCT) protocol version 2.0 |
| Fuel Used | Average Cambodian Hardwood |
| Pot Used | Commonly used aluminum pots and pans |
| Number of Cooks | Three |
| Number of Dishes per Test | Three (Fried beef with ginger, Pork soup with zucchini, White rice) |
| Number of Tests per Stove | Nine |
| Test Dates | 2-5 February 2016 |

Controlled Cooking Test

| Specific Fuel Consumption (grams of fuel per kg of food consumed) | | | | | |
|---|-----------|-------------------|---------------------|-----------|---------------------|
| Stove Model | Fuel Size | Total Mean (g/kg) | Total St Dev (g/kg) | Total CoV | FUEL SAVINGS vs TLS |
| Prime Square Fuelwood | Small | 108 | 6 | 6% | 11.67% |
| Traditional Lao Stove* | Large | 123 | 7 | 6% | 0% |

* The most prominent baseline stove in Cambodia for wood is the Traditional Lao Stove (TLS) (~60% of wood users) based on a 2,100 household solid biomass fuel use survey commissioned by SNV in 2014. Therefore all stoves tested have been compared to the TLS in the summary table to determine fuel savings.

Fuel Size

| Fuel Size | Mean Weight per piece (g) | Mean Length per piece (cm) | Mean Width per piece (cm) | Mean Height per piece (cm) | Mean Diameter per piece (cm) (D=LxWxH) | Mean Moisture Content (%) |
|-----------|---------------------------|----------------------------|---------------------------|----------------------------|--|---------------------------|
| Small | 52.50 | 10.4 | 3.1 | 1.5 | 50.6 | 13.60 |
| Large | 166.33 | 37.3 | 3.3 | 2.0 | 242.3 | 14.19 |