




Charcoal Production in Developing Countries



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World Charcoal Production (2005)

- **Africa** **22,924,955 tonnes**
- **Asia** **4,492,692 tonnes**
- **Europe** **459,724 tonnes**
- **Latin America +** **16,534,252 tonnes**
- **Caribbean**

- **Source: FAOSTAT (2007)**

Traditional Charcoal Production

- PIT India 16-21 % d.w.y.
- Philippines 20-25 %
- MOUND
- tradional India 15-26 %
- Tanzania 2-17 %
- Somalia 39-42 %
- small circular India 23 %
- long Mozambique 10-15 %

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Improved Rural Technologies

- **Casamance** **Mozambique** **25-30 % d.w.y.**
- **Senegal** **25-30 %**
- **Mark V** **Ivory Coast** **20-35 %**
- **Tanzania** **10-18 %**
- **Liberia** **10-18 %**
- **TPI** **7 countries** **19-32 %**
- **OIL DRUM**
- **Mini-Cusab** **Fiji** **23 %**
- **Tongan** **Fiji** **23 %**

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Fig. 1. Improved rural charcoal production using a metal kiln, Senegal

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Traditional Industrial

- **BRICK**
- **Beehive** **Brazil** **33 % d.w.y.**
- **Garage** **South Africa** **12-24 %**
- **Half orange** **Argentina** **26 %**
- **Nilgiri** **India** **21 %**

- **CONCRETE**
- **Missouri** **US** **25 %**

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P. GIRARD

Fig. 2. Traditional industrial charcoal production: a Brazilian-type brick kiln in Cuba

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Modern Industrial

- **Lambiotte retort** **France** **28-32 % d.w.y.**
- **Carbo CG 2000** **Netherl.** **30-33 %**

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Fig. 3. Modern industrial retort (Carbo B.V., The Netherlands)