



arada
— stoves —

A GUIDE TO

wood burning

efficiency

An Arada stove can be three times more efficient than an open fire

Burning wood correctly could greatly reduce your fuel costs.

When sourcing wood, the most important factor to remember is moisture content. Damp firewood can have up to three times less output compared to seasoned wood.

The examples below demonstrate the comparative cost per kilowatt of energy depending on the moisture in the wood:

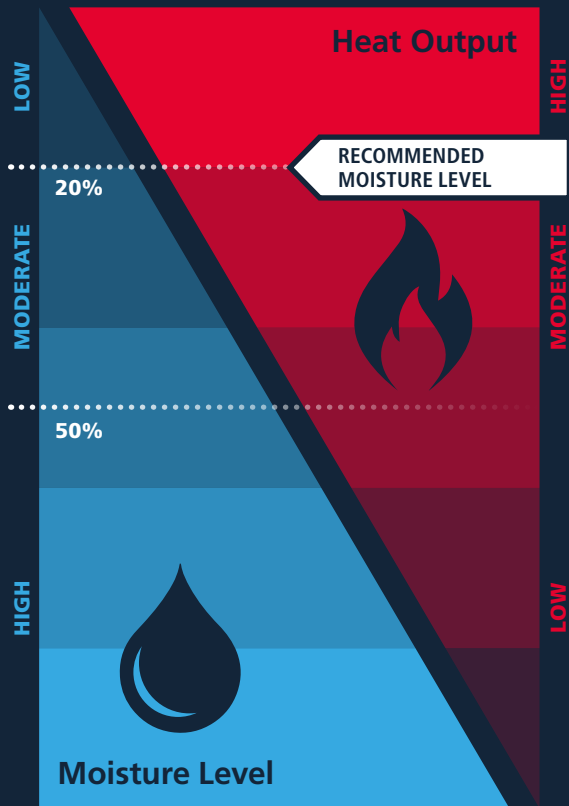
60-90% moisture = 1.0kW/h per kg

30-50% moisture = 3.0kW/h per kg

<20% moisture = 4.5kW/h per kg

tip damp wood causes blackened glass

tip less moisture = more heat



Moisture Level

Heat Output

USE *Seasoned* FIREWOOD

Reducing the moisture content of your firewood (seasoning) is essential for wood burning efficiency

Freshly harvested wood has a high water content and leads to poor heating output when burned. For best results, firewood should have a moisture content of 20% or less. To achieve this you can:

- 1. Purchase seasoned firewood**
- 2. Self-season your firewood**

We recommended you season your logs for up to two years. For the best results, keep your freshly chopped logs in a sheltered store and allow plenty of airflow around them.

We would always advise using seasoned hardwoods such as Ash, Beech or Oak, as opposed to softwoods such as Pine or Spruce. Hardwoods burn for longer and emit less smoke, but are more expensive than softwood.

tip an electronic moisture meter is your best way to check how well seasoned your firewood is



WOOD BURNING *tips*



BRING FIREWOOD INSIDE

Avoid burning all firewood straight from an outside store as the logs will have some surface moisture present. An easy fix is to bring logs into the house in the morning, so they are ready to burn that evening.



AIR FROM ABOVE

Air for combustion should be supplied from above a wood fire, not below. As much as 40% of the heat from burning wood comes from secondary combustion and this is severely hampered by air entering the fire box from below the fuel.



REFUEL ON HOT EMBERS

Wood should be burnt with a lively flame and you should refuel when this is burnt to a bed of hot embers.

important never burn anything other than seasoned wood or smokeless fuel in your stove



CLEAN GLASS WITH WOOD ASH

For sparkling clear glass, try dipping a damp cloth into wood ash and use this to remove any marks on the inside of the door glass.



wood

THE ECO-LOGICAL CHOICE

Whether wood is burnt or left to decompose, it releases the same amount of CO₂

Sustainably sourced wood is a carbon neutral fuel because the amount of carbon dioxide it will emit when burnt is only equal to the amount absorbed during the life of the tree. This means burning wood is far kinder to the environment than fossil fuels such as coal, gas or oil.



it's what you put into it...

We believe a stove is so much more than a black steel box...

aradastoves.com



It is the perfect excuse to get outside, grab your axe and split some logs. It is hard to beat the satisfaction of seeing all that wood neatly stacked, and the promise it holds of more firewarmed evenings in front of your Arada stove. If you prepare your stove and feed it with the finest wood, the fire will roar as you sit back, feeling content.