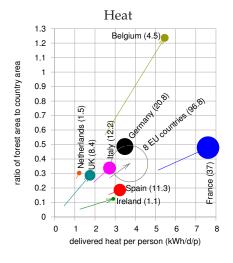
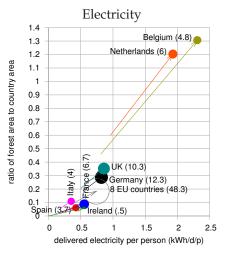
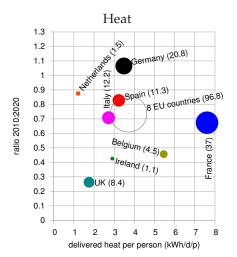
Solid-Biomass Plans of Eight European Countries David MacKay

This document shows graphs based on the Ecofys document which gives NREAP data for 2010 and 2020.







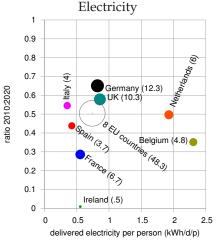
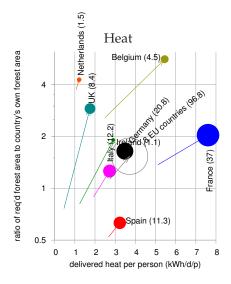


Figure 1. The "solid biomass" contributions for heat and for electricity are plotted as follows: horizontal axis: per-capita energy in kWh/d/p (for comparison, total European primary energy consumption is about 125 kWh/d/p, and typical electricity consumption is about 17 kWh/d/p). **point size:** mass of wood required per year (Modt/y). [This quantity is labelled alongside each point also.] vertical axis: the fraction of that country's land area that would be the size of forest to grow that much wood, assuming that only a fraction f = 0.3 of the total harvest (4 odt/ha/y) is eligible to be taken for the bioenergy use. **Assumptions:** calorific value = 5 kWh/kg; efficiencies, for heat and electricity production, of 100% and 40% respectively.

Figure 2. In this figure the vertical axis shows the ratio of the 2010 solid biomass energy contribution to the 2020 solid biomass energy contribution. The horizontal axis and point size are the same as in figure 1.



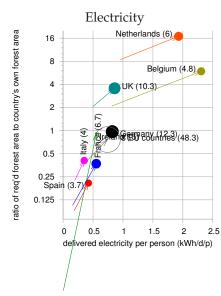


Figure 3. In this figure the vertical axis shows, on a logarithmic scale, the ratio of the required forest area, given the assumptions in figure 1, to each country's forest area available for wood supply (using 2010 data from Eurostat). The horizontal axis and point size are the same as in figure 1.