



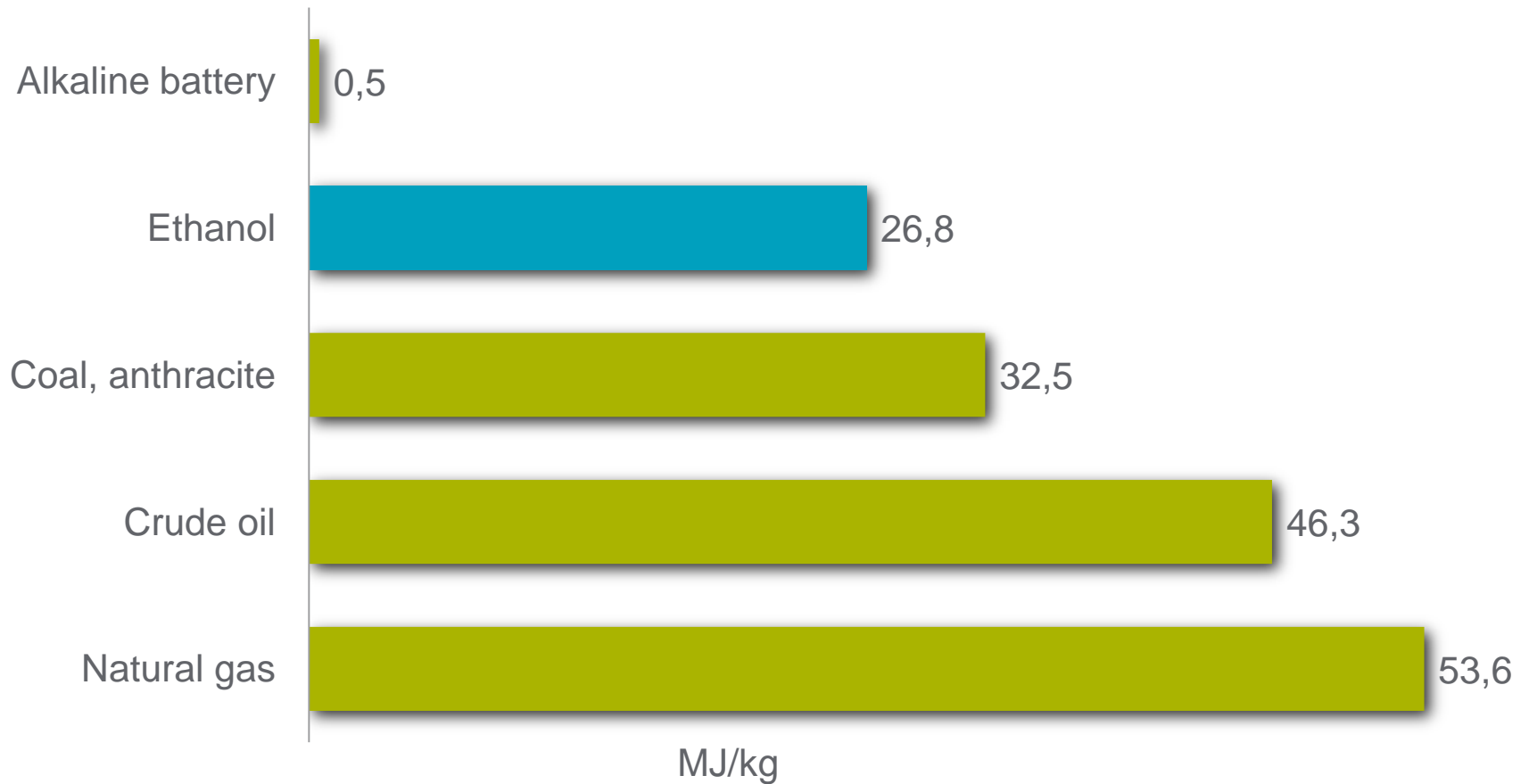
From low carbon to smart carbon

Robert Berendes

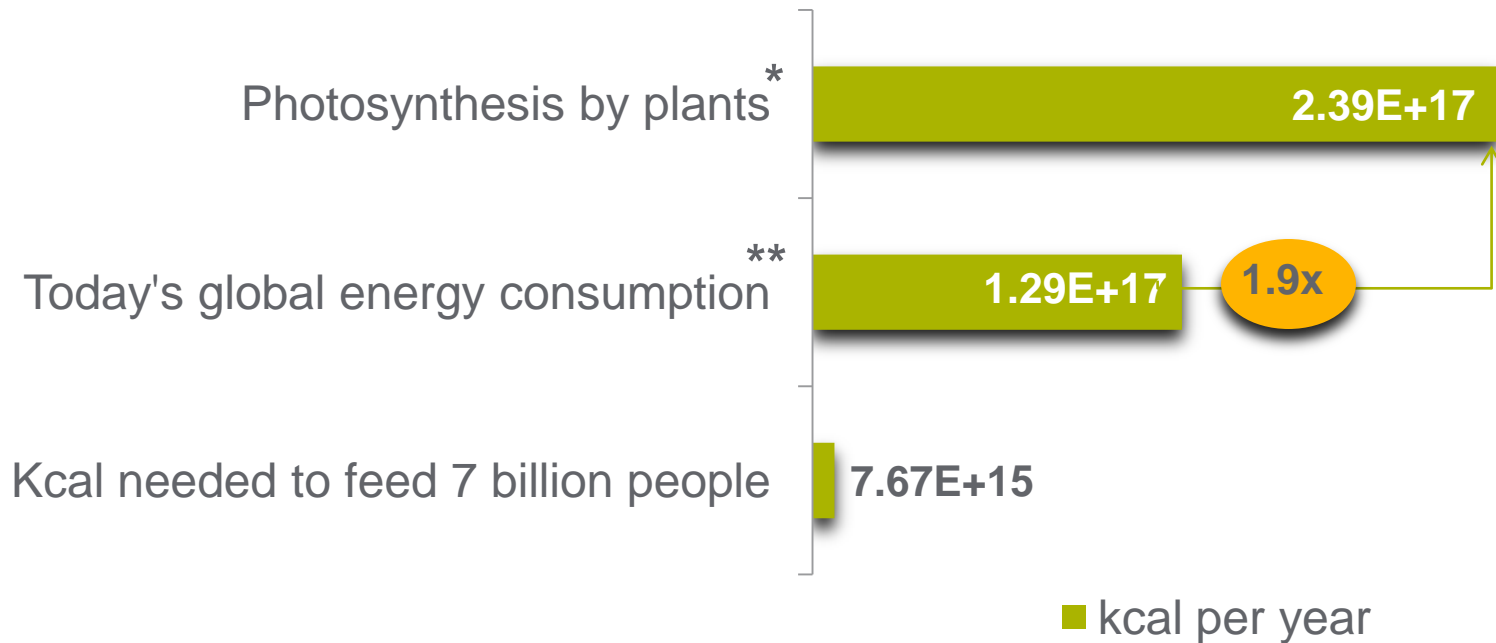
São Paulo, 07 June 2011

Classification: Public

Energy density of different sources



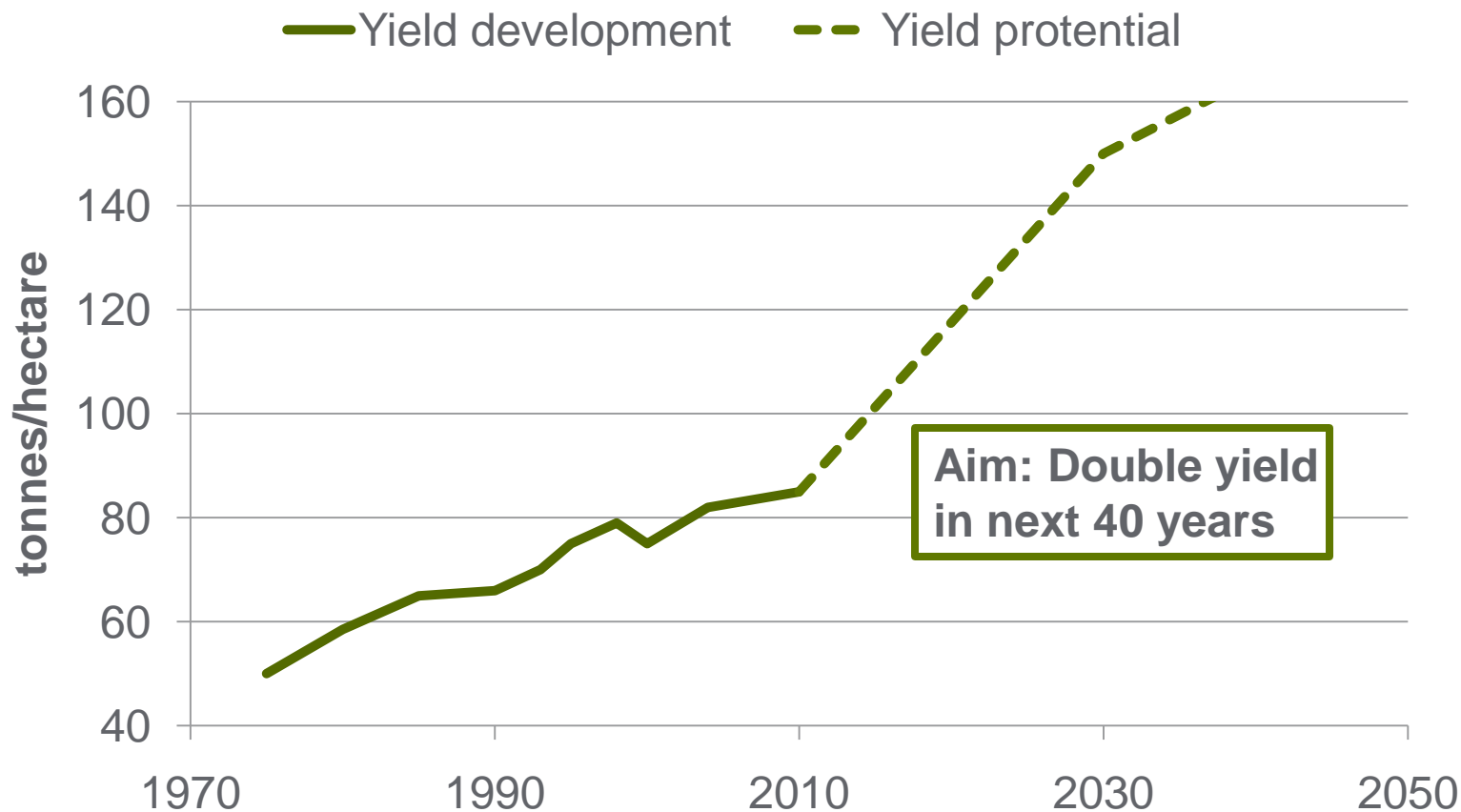
Can plants meet the world's energy needs?



Source: * University of the Sciences, Philadelphia, 2010

**US Energy Information Administration, 2010

Sugarcane: a smart carbon energy source



Sugarcane potential: How do we get there?



The future:

- Increase efficiency of planting
- Increase productivity
- Increase energy produced per plant
- Decrease inputs
- Accelerate growing cycle of plants

**Greater energy produced
per hectare per year**

Bringing plant potential to life