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Energy and medically related products obtainable from *Eucalyptus* trees

Sustainably grown *eucalypts* have numerous potential applications. Native to Australia but established as exotic short-rotation plantations in tropical, subtropical, and even temperate regions of Africa, South America, Asia, Australia, Europe, and North America for a variety of timber products, eucalypts are the world's most valuable and widely planted hardwoods (18 million ha in 90 countries). India and Brazil have over 8.0 and 3.0 million ha of plantations, respectively. Using experience in Florida USA and similar locations, we describe eucalypts potential for maximizing productivity as short rotation woody crops, document their current energy applications, and assess their potential as short-term and likely long-term energy and related products as well as medically related products. Many conversion technologies are well understood, and several are being developed. Many products currently derived from petrochemicals can be produced from *Eucalyptus* biomass. *Eucalyptus* bio products, which may be classified as naturally occurring, generated by biochemical processes, or as the result of thermochemical processes, have a broad and exciting range of applications. Increased biomass productivity and quality, prospects for carbon trading, distributed energy systems and hydrogen, multiple products from bio refining, and government incentives should foster the use of fast growing *eucalyptus*.

Biography

Donald L Rockwood President of Florida FGT LLC, has over 35 years of experience on the development and use of *Eucalyptus amplifolia, E grandis, Corymbia torelliana, Populus deltoides*, Cypress, and Slash pine hybrids in Florida and elsewhere. Also as Professor Emeritus at the School of Forest Resources and Conservation, University of Florida, he is actively involved with the genetic improvement of several Short Rotation Woody Crop (SRWC) species, including the commercial release of *E grandis* cultivars, and with the development and utilization of SRWC systems using these species.

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