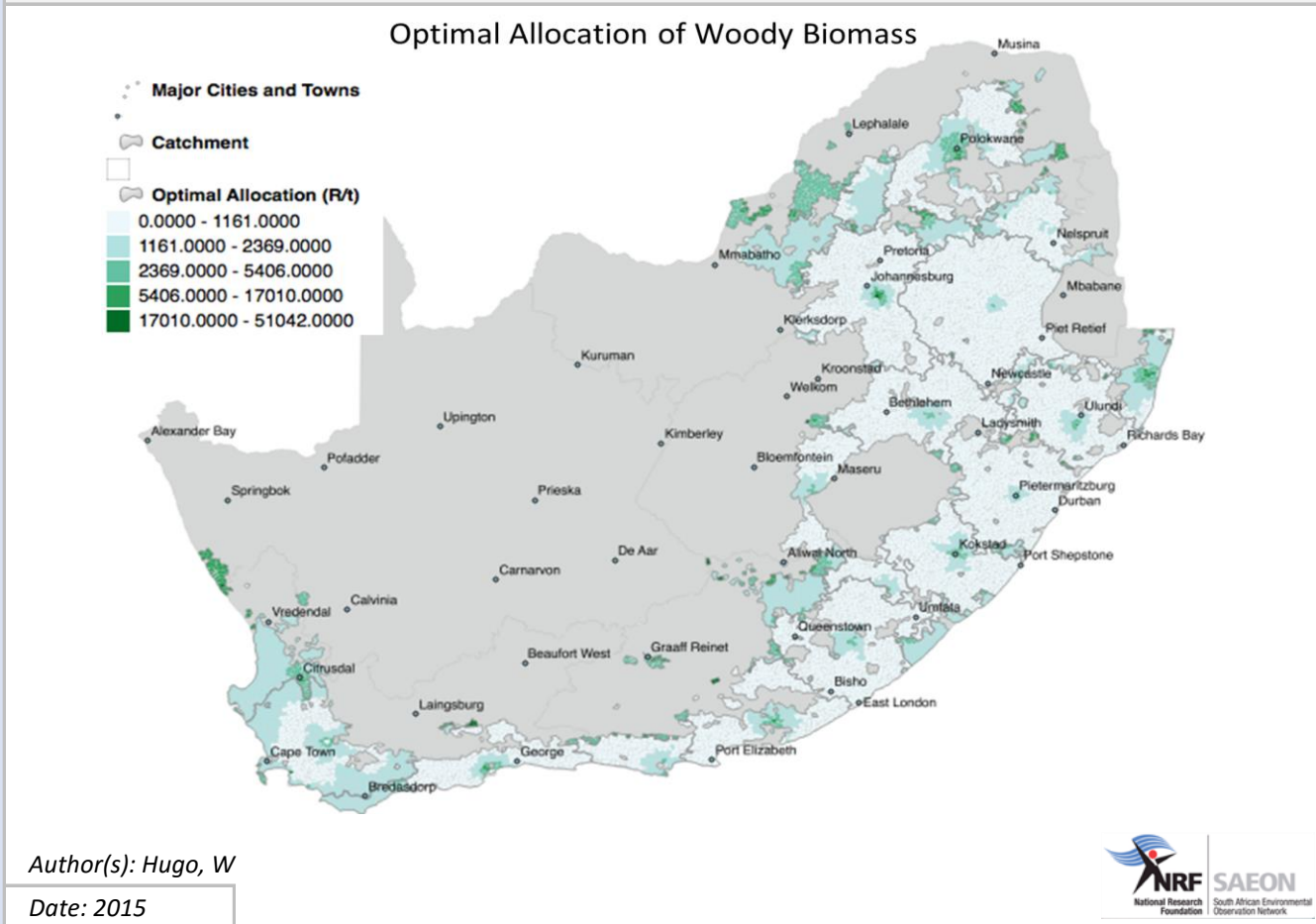


All Woody Biomass - Pelleting**Meta-Data**

Title	All Woody Biomass - Pelleting
File(s)	WP10_07_AWB_NOT_02.shp, WP10_07_AWB_NOT_02_catch.shp
Author(s)	Hugo, W
Publication Date	2015
Citation	Hugo, W. 2014. Feasibility of BioEnergy production in South Africa, BioEnergy Atlas for South Africa, DST/SAEON 2014, Section WP10_04
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Abstract	<p><i>* Technical Challenges -</i> Existing expertise and infrastructure in respect of 'Working for Water' programmes in respect of harvesting and eradication projects required for conversion to electricity. It may be simpler and less risky to generate new sources of renewable electricity rather than converting existing power stations to co-firing.</p> <p><i>* Cost Challenges -</i> There may be as many as 40 viable projects, all having a 20-year lifetime - with significant capital investment required.</p> <p><i>* Policy Challenges -</i> The projects are feasible and well aligned with existing expertise and infrastructure in respect of 'Working for Water' programmes. Integration with DEA 'Working for Energy' required and incorporation into IPP programmes needed.</p> <p><i>* Environmental Challenges -</i> The net impact on greenhouse gas emissions is large, despite land use change effects, given the significant reduction in GHG as CO₂ equivalents in comparison to coal</p>
Keywords	biomass, conversion technologies, feasibility, model outputs, pelleting, woody biomass
Caveats	http://bea.dirisa.org/resources/metadata-sheets/WP10_07_META_AWN.pdf
Web Meta-Data	
Web Resource	http://app01.saeon.ac.za:8086/geoserver/BEA/wms?service=WMS&version=1.1.0&request=GetMap&layers=BEA:WP10_07_AWB_NOT_02&styles=&bbox=16.451920000028533,-34.83416989569374,32.892531746697685,-22.125030000001036&width=512&height=395&srs=EPSG:4326&format=application/ope

Methodology/ Protocol

Processing/ Provenance	As described above
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Important Attributes

MESO_ID	Meso-zone ID
PRICOST	Optimal Allocation of Woody Biomass, R/ton
ALLOC	Catchment ID

References and Sources

[1]	Croezen, H and van Valkengoed, M. GHG Emissions due to deforestation, Delft, 2009 - http://www.ce.nl/fgo/3Dhome.downloadPub%26id%3D932%26file%3Dghg-emissions-due-to-deforesta.pdf
[2]	Von Maltitz, G. Estimates of Land Use Effects of Major Products and Feedstocks, Work Package 9, in BioEnergy Atlas for South Africa, W Hugo (ed), DST 2013
[3]	Witi, J and Stevens, L- Greenhouse Gas Inventory for South Africa, 2000-2010, Department of Environmental Affairs, 2013 - https://www.environment.gov.za/sites/default/files/docs/greenhousegas_invetorysouthafrica.pdf
[4]	US Environmental Protection Agency, Emission Factors for Greenhouse Gas Inventories, EPA, 2014 - http://www.epa.gov/climateleadership/documents/emission-factors.pdf
[5]	All Woody Biomass - Pelleting - Catchments: http://app01.saeon.ac.za:8085/geoserver/WP10/wms?service=WMS&version=1.1.0&request=GetMap&layers=WP10:WP10_07_AWB_NOT_02_catch&styles=&bbox=17.386870191252598,-34.83416989569374,32.892531746697685,-22.57108426430068&width=512&height=404&srs=EPSG:4326&format=application/openlayers