


Company Name and Contact Details:	
Renewable Oil Corporation Pty Ltd Colin Stucley, Managing Director www.renoil.com.au cstucley@renoil.com.au +61 3 9895 1200	
<p>Renewable Oil Corporation (ROC) is a private company that has been established to develop commercial scale liquid fuels plants in Australia, New Zealand and the Pacific region.</p> <p>ROC is promoting fast pyrolysis technology developed by Dynamotive in Canada. Dynamotive have developed their patented technology over more than ten years, and large commercial plants have been built and operated successfully in Canada. At 200 tonne per day of wood feed (dry basis), their most modern plant, near Toronto, is also the largest fast pyrolysis plant in the world. It is sized at a point that offers significant economy of scale but can still work with feed available from logging and wood processing operations.</p> <p>Our pyrolysis process has been successfully trialed on more than 70 types of biomass, converting as much as 70% of the dry wood feed into pyrolysis oil. Up to 20% of the feed is also converted to charcoal. Trials with the charcoal have shown it to be a very useful soil additive (commonly called “biochar”). The third product is a combustible gas, which is used to drive the pyrolysis reaction.</p> <p>Unlike some pyrolysis oils, the Dynamotive oil is very stable. It can be stored for extended periods, and used as fuel in boilers and furnaces. Dynamotive is also a world leader in the generation of electricity from this renewable fuel, having run a suitably modified 2.5 MWe industrial gas turbine on pyrolysis oil at one of its Canadian facilities.</p> <p>Pyrolysis oil is not a practical fuel for engines. Dynamotive has therefore developed additional technology to upgrade the pyrolysis oil to hydrocarbon liquids that are targeted as “drop in” additions to, or replacements for, diesel and other transport fuels. Yields are impressive, with each dry tonne of wood feed producing some 300 litres of fuel with an energy content similar to diesel. This work is now being scaled up via collaboration with the French group IFP, one of the world’s leading fuel technology companies.</p> <p>Dynamotive also has a long term collaboration with Tecna, an international engineering company that can assist with design, construction and commissioning of plants to oil & gas industry standards.</p> <p>ROC has worked closely with Dynamotive for several years. Dynamotive is an investor in ROC and Dynamotive’s CEO sits on the ROC board.</p> <p>Working with Dynamotive, Tecna and other engineering consultants, ROC has examined the economics of operating a large scale fast pyrolysis plant together with fuel upgrading facilities, and believes that this technology can be developed into commercial applications around Australia and New Zealand. We seek collaboration with feed suppliers and fuel customers to achieve this.</p>	Core Skill(s):
	Project development and plant operation using world-leading 2nd generation biofuel technology.
	Biofuel Focus:
	Hydrocarbon fuels from wood, to replace diesel and petrol in transport and power generation.
	Core Product/Activity:
	Fast pyrolysis and fuel upgrading technologies.
	Key Project Activities:
	Developing commercial opportunities for large scale production of hydrocarbon fuels in Australia and New Zealand.
Leading Edge:	
An experienced, international team that leads the world in liquid fuels from wood via pyrolysis, with commercial pyrolysis technology, upgrading to hydrocarbon fuels, and engineering resources to build efficient commercial plants.	
Investment Base:	
Australia, Americas, Europe	
Employees:	
Production Capacity:	
No plants built in New Zealand yet	