



Company profile: Renewable Oils Corporation Pty Ltd.

ROC is a new Australian company established to develop pyrolysis projects in this region. It has an exclusive technology licensing agreement with Dynamotive Energy Systems Corporation of Canada, and works closely with Dynamotive and its partners.

ROC has been established in cooperation with [Enecon Pty Ltd](#), an award-winning Australian engineering company that has specialised in bioenergy technologies and projects since 1998. ROC's board includes personnel from Enecon and Dynamotive as well as experts in corporate governance and legal and financial issues. ROC is a private company funded by investors in Australia, Canada, and Europe.

ROC is the Australia/New Zealand partner for Canadian company Dynamotive, which has spent more than \$100 million over the past decade developing "fast pyrolysis" technology to convert wood into liquid fuels.

Further details are available at www.renoil.com.au

Personal profile: Colin Stucley

Colin has many years of experience in bioenergy and development and commercialisation of new energy technologies. He holds bachelors and masters degrees in chemical engineering from the University of Melbourne and has more than twenty-five years of experience with Australian and international consulting and construction companies. Prior to starting ROC he founded and managed Enecon Pty Ltd, an Australian company that has won multiple awards for its innovative bioenergy technology and project development.

Colin is experienced in feasibility studies, management of multidiscipline projects, business development and team building. He has led the development of ROC's pyrolysis business to date, including the selection of technologies and projects, commercial negotiations and team development.

Colin is a member of the management committee for Bioenergy Australia, the peak national body for bioenergy research, development and implementation in Australia. He is a member of the Bioenergy, Bioproducts and Energy R&D Advisory Committee for the federal government's Rural Industries R&D Corporation. He is a specialist member of the Co-operative Research Centre for Future Farm Industries. Colin presents regularly at national bioenergy conferences and at specialist industry workshops around Australia.

ROC Activities / presentation details:

Renewable Oil Corporation Pty Ltd (ROC) is developing a renewable energy business in Australia, based on innovative, commercially demonstrated pyrolysis technology. This new business will utilise wood residues and green waste to produce renewable liquid fuels, charcoal and chemicals.

Our pyrolysis plants will be built close to sources of biomass feed. The plants will produce fuels that may then be transported by road, rail or ship. This allows production of renewable energy remote from the source of biomass. Electricity and liquid fuels may therefore be focused on the needs and locations of users, not on the location of the biomass fuel. Using biomass from plantation forestry, sugar cane processing or municipal waste, we can provide flexible, continuous renewable energy.

Project size is based around modular pyrolysis plants. A pyrolysis plant module can process 65,000 dry tonnes (or approx. 110,000 green tonnes) of biomass each year. This allows us to utilise sources of feed that may be too small for other second generation fuel technologies.

ROC can build, own and operate the pyrolysis plants. Alternatively we can work in joint venture, or act as a technology provider to other parties.

Dynamotive has already taken its fast pyrolysis technology to commercial scale in Canada, with its largest plant sized to convert 130,000 green tonnes of wood per year into pyrolysis oil and charcoal.

Dynamotive has also developed technology to upgrade the pyrolysis liquid into “drop in” transport fuels. Dynamotive’s innovative upgrading technology is similar to standard oil industry processes and is currently being commercialised in collaboration with IFP Energies nouvelles, Europe’s most highly regarded fuel technology group. Their work has caught the attention of Virgin Australia, which has recently signed an agreement with ROC for collaborative development of renewable biofuels for aviation use in Australia.

ROC believes there are opportunities for this technology in New Zealand in the near future. “We can utilise residues created during harvesting and wood processing, and our plants are well sized to match the quantities of residues already available” says Stucley. ROC does not need an existing oil refinery to upgrade its fuels, raising the possibility of transport fuel production close to forestry centres such as Rotorua and Taupo.

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