


<p>Company Name and Contact Details:</p>	
<p>Alternative Energy Solutions Ltd G L Hedley, Director & Manager 15 Nelson Street, Pukekohe, New Zealand +64 (9) 238 0683 or +64 (21) 740490 gavin@aesbioenergy.co.nz</p>	
<p>AES has <i>working</i> demonstration technology for bio-oil in New Zealand.</p> <p>We can practically demonstrate, using your feed stock, the manufacture both of bio-oil and biochar in an actual, commercially scaled plant.</p> <p>The New Zealand demonstration plant will turn one tonne of waste wood material into 600kg of bio-oil and 200kg of biochar, with the remainder given off as heat which will be used to run the plant. AES proposes building bio-oil plants near the forests where that waste wood is produced, drastically cutting down transport costs and providing distributed power for rural and provincial communities.</p> <p>We can present and discuss opportunities for these products and commercial considerations. We are on the leading edge of fast pyrolysis technology, and are able to present on the emerging industries of Green power generation, combustion applications, chemical separation and derived fuels.</p> <p>ABRItech/AES fast pyrolysis systems offer unique <i>continuous</i> biomass processing –typical conversion is 1 ton of feed stock produces Bio oil, Bio char, and Syn gas 60/20/20% in a plant that is portable, self powered, and demonstratable, <i>now</i>, in NZ.</p> <p>AES Relationships formed also mean we have access to power generation equipment, the technical skills and services to install and run distributed generation systems.</p> <p>The skills and engineering base to develop and supply large recip and turbine generators and the paths for development and advanced uses of bio-oil.</p>	<p>Core Skill(s):</p>
	<ul style="list-style-type: none"> • Technical Skills and marketing of Pyrolysis • Bioenergy technologies for forest and other residues recovery and utilization.
	<p>Biofuel Focus:</p>
	<ul style="list-style-type: none"> • Bio-oil
	<p>Core Product/Activity:</p>
	<ul style="list-style-type: none"> • Ankur Gasification representation <ul style="list-style-type: none"> ○ 10Kw to 2.2 Mw Electrical generation ○ 30Kw to 5.6 Mw Heat Energy. • ABRltech Bio oil/bio char systems - 1-100 TPD
	<p>Key Project Activities:</p>
	<ul style="list-style-type: none"> • Pukekohe plant - wood-to-bio-oil plant using a pyrolysis process
	<p>Leading Edge:</p>
	<p>AES has <i>working</i> demonstration technology for bio-oil in New Zealand.</p> <p>We can practically demonstrate, using your feed stock, the manufacture both of bio-oil and biochar in an actual, commercially scaled plant.</p>
<p>Investment Base:</p>	
<ul style="list-style-type: none"> • NZ and International 	
<p>Employees:</p>	
<p>Production Capacity</p>	