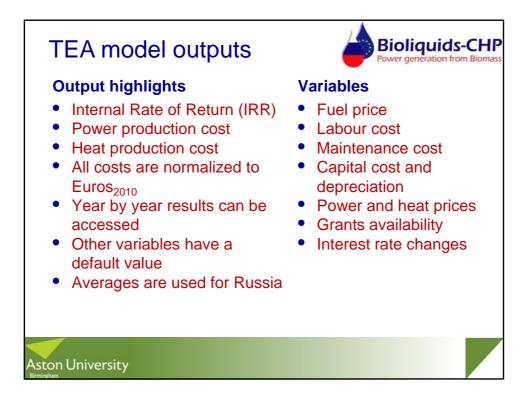
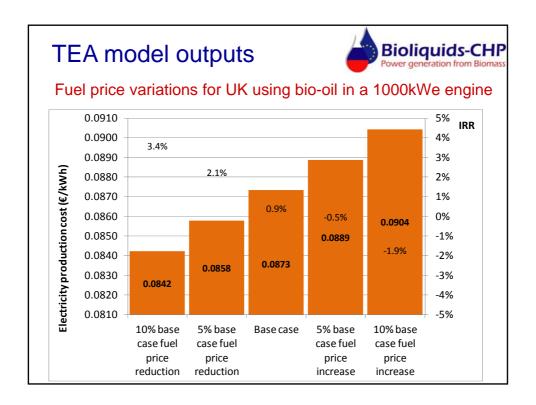
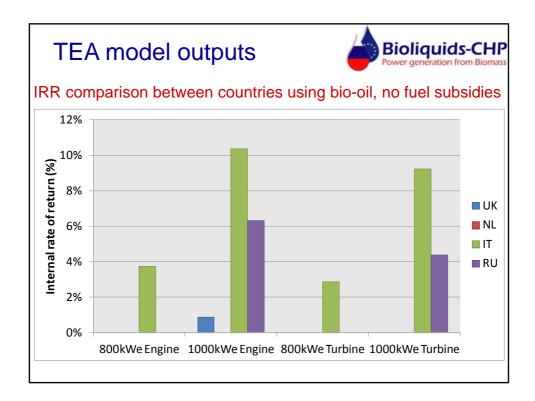


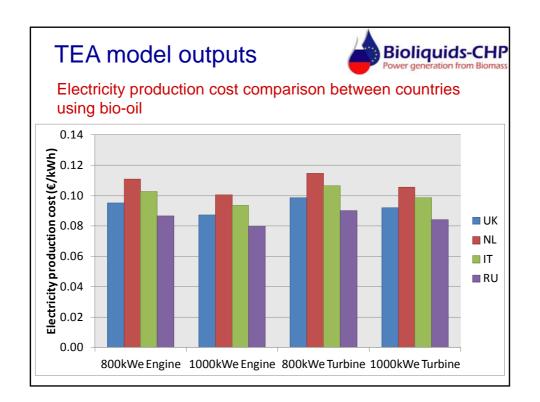
Location	United Kingdom					
Gross capacity (electric)		1000 kW	e	Drop-down options		
Prime mover	Engine 🦟	$\frown$		<ul> <li>Conditionals for</li> </ul>		
Fuel	Bio-Oil 🧹			limits		
CHP hours operation	Year	8	3000	• Error		
Power sold to grid		80%		messages		
Heat sold to others				<ul> <li>Macros: To</li> </ul>		
Proportion by shareholde	r: 30% 10 years			update scenarios		
Loan period			rs			
Interest rate		5%		charts		
Annual inflation		2%		<ul> <li>Variables are</li> </ul>		
Project lifetime	15 years		rs	on a separate		
Grants received		15%		tab		
	Update	all				



Base Case for ea		ici y		
	Italy	Netherlands	Russia	United Kingdom
Size (kWe)	1,000	1,000	1,000	1,000
Prime mover	Engine	Engine	Engine	Engine
Fuel	Bio-oil	Bio-oil	Bio-oil	Bio-oil
Fuel price ( <b>∉</b> tonne)	134.6	138.4	119.7	130.0
Power production cost (∉kWe)	0.0937	0.1005	0.0798	0.0873
IRR (%)	10.4	0.0	6.3	0.9







<ul> <li>GEMIS and BEAT V2</li> <li>BEAT V2 was selected assessment</li> <li>Savings of between 70</li> </ul>	SSESSMENT Bioliquids-CHP Power generation from Biomass are suitable alternatives to a full LCA d for environmental impact 0 to 92% are possible for bio-oil, p equivalent/kWh for light fuel oil in a
1MWe unit	
Bio-oil feedstock	Bio-oil specific greenhouse gas emissions (g CO <sub>2</sub> equivalent/kWh)
Forest residues	47.2
Industrial residues	45.8
Short rotation forest	88.3
Caraala	149.0
Cereals	149.0
Stalks	49.7

