

Maximising Funding Certainty

Nigel Aitchison
Head of Infrastructure



Foresight Group Overview

34 year

Investment track
record

£2.5bn

Assets under
management

7 offices

193 staff globally
7 in Sydney

£2.2bn

Invested in
energy
infrastructure

145

Current
Investments
5 in Australia

1.6GW

Renewable Energy
generation

Biomass and Waste to Energy Portfolio as at 31 March 2018

KEY

- Agricultural Residue
- MSW
- Wood
- Food



- 28 Assets – **c.£800M** Capital
- **Over 2 Million tonnes** per annum of processing capacity
- **c.150 MW** & Base Load Capacity
- **1st German investment** with acquisition of five AD plants completed in **June 18**
- **1st Italian biomass plant** completed **June 18**

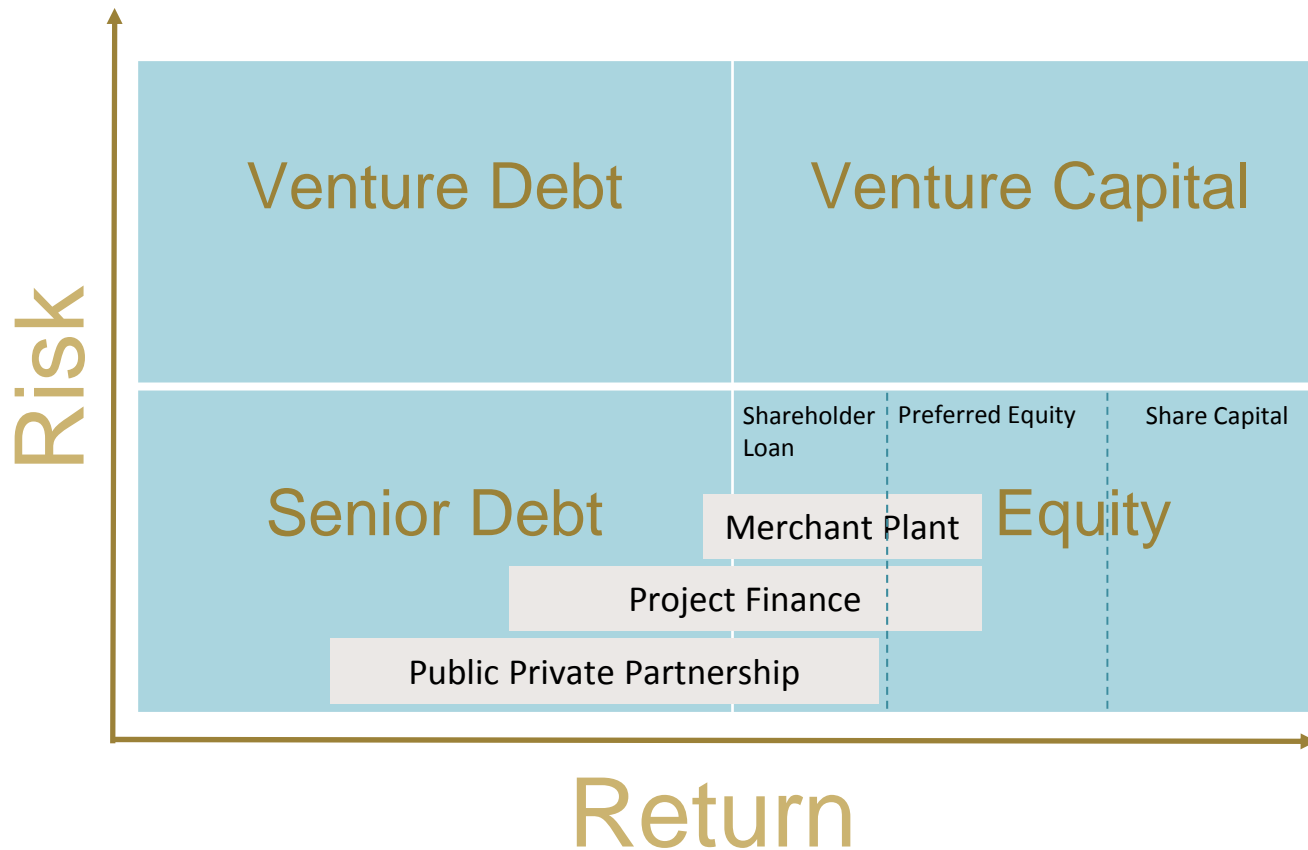
Technology and Feedstock

Utilise a range of proven and established technologies

		TECHNOLOGY		
		Combustion	Advanced Conversion Technology	Anaerobic Digestion
FEEDSTOCK	Municipal Solid Waste	✓	✓	X
	Commercial & Industrial	✓	✓	X
	Refuse Derived Fuel	✓	✓	X
	Waste Wood	✓	✓	X
	Virgin Wood	✓	X	X
	Sustainable Virgin Biomass	✓	X	X
	Source Segregated Food Waste	X	X	✓
	Agricultural Waste	✓	X	✓

- Inexperienced Developers
- Utilising wrong technology for wrong feedstock
- Residual Material
- High Environmental Standards

Risk Profiles Versus Funding Appetite



- Parallel Asset Classes
 - Solar
 - Wind
 - Geared IRRs 6-8%
- Technology Choice
- Delivery Model
 - EPC
 - O&M
- Contracted feedstock
- PPA arrangements
- Competition for funding

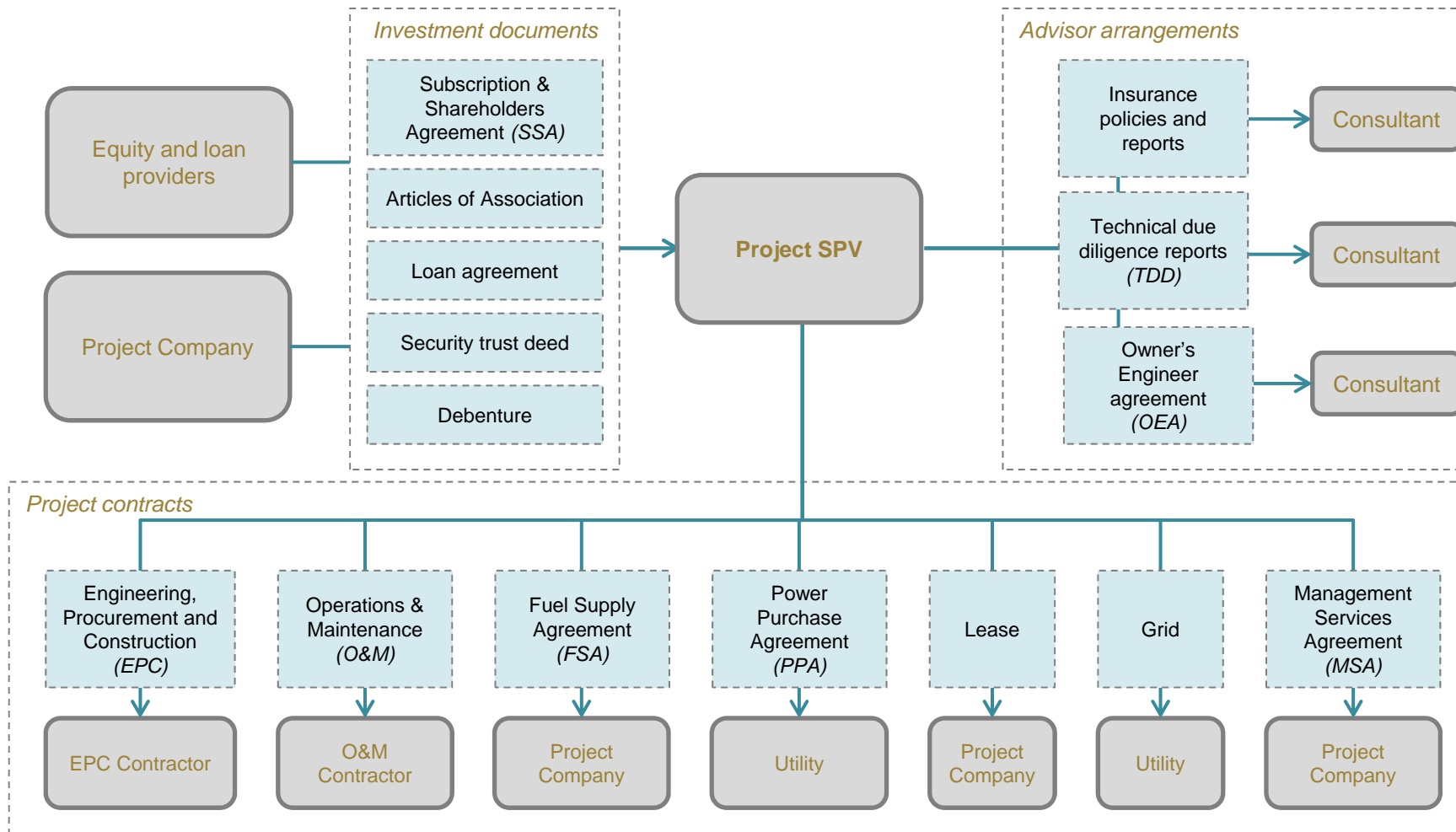
Fund Investment Considerations

Project fundamentals	EBITDA / cash generation	Capital intensity	Risk / reward
Strategy	Operations	Investment	Funding
<ul style="list-style-type: none"> • Vision, mission, strategy • Market opportunity • Competitors & competitive advantage • Management team • Key customers & relationships • Location 	<ul style="list-style-type: none"> • Volume assumptions • Price assumptions • Overhead & margin assumptions • Payment mechanism and terms • Variability and risk • Licenses / consents • Benchmarking • Project life 	<ul style="list-style-type: none"> • Capex • Working capital • Contingency • Fees • Sources & uses – construction and commissioning • Development, project and technology risks 	<ul style="list-style-type: none"> • Project return • Capital structure • Hurdles • Term • Long term ownership? • Funding to date and cash investment

Assessment of risks across the entire supply chain of the project – only as strong as the weakest link

Risk Mitigation through Contractual Structure

Through various contracts and arrangements, selected risks are removed from the Project SPV



Australian Bioenergy and Waste to Energy Market Opportunity

Generation of renewable energy from waste and biomass streams and the reduction of emissions from existing disposal routes are priorities for the Country



Development of infrastructure to support this is not occurring naturally or as rapidly as is desired
Despite landfill levies already in existence or coming into being



Good recycling levels but poor diversion – so why?



Influencing Factors

- Cheap coal?
- Landfill costs
- Longevity and transparency of environmental policy
- Critical mass – waste volumes v plant scale
- Gas price spikes
- Limited project development expertise
- Low public sector leadership
- Operator inertia – catalyst for change v business as usual
- Increasing focus on ESG
- PPA Availability – corporates
- Historical failures have dampened future appetite
- Feedstock and technology mismatches
- Cost of technology transfer into country
- China's National Sword



Summary



Contact Details

Foresight
group

The Shard
32 London Bridge Street
London
SE1 9SG

Nigel Aitchison
Partner

naitchison@foresightgroup.eu

dd: +44(0)20 3667 8100
m: +44(0)7595 056200

Foresight
group

Level 35
One International Tower
100 Barangaroo Ave
Sydney NSW 2000

Gary Sofarelli
Director

gsfarelli@foresightgroupau.com

dd: +61 406 587 876

Foresight
group

Level 35
One International Tower
100 Barangaroo Ave
Sydney NSW 2000

Lily McManus
Investment Associate

lmcmamus@foresightgroupau.com

dd: +61 282 160 758