

Corporates & Markets

Risk Management and Energy Crop Projects

- A Senior Lenders' Perspective







A presentation for the Biomass Conference at Queen's College, Cambridge – organised by RPA July 19, 2005



Senior Lenders' Perspective: What is classified as a "Main Risk" in a biomass project?

- → Sponsor / Equity Commitment
 - Experience, time of equity injection, stand-by equity
- → Construction Phase
 - EPC contract versus Multi Contracting, track record of EPC contractor
- → Operating Phase
 - Operator experience, technical issues, long term availability levels, maintenance
- → Offtake Arrangements
 - Financial strength of Offtaker, tenor, "remuneration" package
- → Fuel Supply Risk



Fuel Supply Risk – Due Diligence Process:

For which kind of questions do Senior Lenders need satisfying answers?

Quantity

- enough acreage available in a viable catchments area?
- is the crop grown only for fuel?
- do any external economic factors impact the suppliers motivation to plant the crop?
- market study available?

Logistics & Transport Costs

- Can the crop be easily sourced and transported to the plant site (road, ships, rail)?
- Are transport costs quantifiable for a long period?

Fuel Costs

If "established" fuel source, independent market study is must

 Lenders will have to run sensitivities to check on robustness of project assumptions

If no established fuel supply chain, case by case assessment



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Reliability of Suppliers

- Sophisticated enough to understand benefits of long term (supply) relationships?
- Substantial enough to be worth pursuing for breach of contract?

Alternative Fuels

- Technically feasible?
- Readily available in the catchments area?

Storage Risks

- Protection from moisture?
- Protection from arson?
- Accessibility of storage sites in adverse weather conditions?



Senior Lenders' Perspective:

A perfect solution to mitigate the Fuel Supply Risk could be a combination of the following:

- → Long term, fixed price fuel supply contract with
- → penalties for failure to supply contract quantity/quality but
- → <u>Incentives for suppliers</u> (shareholding?) for excellent performance
- → Focus on contracts with fewer/larger supplies
- → Availability of back-up fuel supply (via spot market)
- → <u>Certainty</u> of (and accurate calculations for) logistic costs in Financial Model



Senior Lenders' Perspective

- General Market Dynamics / Outlook:

- Excellent growth potential for Renewable Energy in Europe (high market liquidity)
- Some areas in the Renewable Energy Market are more mature than others (on-shore wind)
- Well structured biomass deals will attract liquidity / lenders (at appropriate margins)
- Difficult to see projects being financed if there is no
 established Fuel Supply Chain (but case by case decision)



MAKE IT HAPPEN

Biomass projects will be another piece in the puzzle to combat climate change!!

Thank You

Klaus Frietsch

Tel: +44 (0)207 573 8433

Mail: klaus.frietsch@hvbeurope.com

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