

## Sourcing and Structuring Finance for AD

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### "Sourcing and Structuring Finance for AD"



## Global Renewable Investment



### Source: Global Trends in Renewable Energy Investment 2017

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## European Renewable Investment



### Source: Global Trends in Renewable Energy Investment 2017

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## Attractiveness of Ireland 2017



## Renewable Investment by Technology



### Source: Global Trends in Renewable Energy Investment 2017

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## Renewable Investment in Biomass (incl AD)



#### Source: Global Trends in Renewable Energy Investment 2017

KPMG



## Market Return Expectations

### **Unlevered Return**



### Source: KPMG Data



# Case Study

## Farm-Scale AD Plants

## Anaerobic Digestion Plant





## Anaerobic Digestion

- 0.5MW electrical output
- €2m €2.5m per asset
- Converts grass silage, slurries, food wastes into electricity & heat
- Proven technology, yet unfamiliar in Ireland



## Farm-Scale Anaerobic Digestion Funding





## Project Structuring

- Project finance-standard contracts
- Maximise economies of scale
- Standardisation
- Ideal Funding:
  - Flexible
  - Matched to project risk lifecycle



# Case Study

## Large-Scale AD Plants

## KPMG Large-Scale Biomass Transactions (2014 - 2016)





## Funding Options

- Secured Bank Debt / Promoter Equity
- Bank-led Project Finance / Promoter Equity
- Infrastructure Fund-led Project Finance



## Glenmore Generation - 4MW Donegal Gas Clean-up Plant





## Funding Structure

- Large-scale asset with economies of scale
- Sufficiently large to warrant project finance
- Medium-to-high technology risk
- Institutional debt with refinance flexibility





- AD funding remains challenging, but is achievable
- Don't cut corners in terms of contractual protections or contracting approaches
- Try and identify synergies if projects are individually sub-scale for project finance
- Don't assume debt is always required in a capital structure





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