



Demo 2 – Wind project

Farm Technology	Onshore wind energy
Farm Size	15 MW
Currency	EUR
Operating duration	20 years
Location and Year	Ballincollig Hill
Device	Siemens SWT-2.3-93 (80m)
Energy Calculation	Curtailment: 1% Transmission loss: 3% Availability: 97% Power Law: 0.143 <i>Device Capacity Factor: 58.29%</i> <i>Farm Annual Delivered energy: 78947 MWh</i>
CAPEX	'Simple break down of total CAPEX' Device Cost: 1,111,111 €/MW Balance of Plant: 14,295 €/MW Cable/Piping: 150,097 €/MW Mooring/Foundation: 98,765 €/MW TOTAL: 1,374,268 €/MW
OPEX	'Yearly Input OPEX' 795,746 € (for 5 years) 1,177,948 € (for 10 years) 1,502,378 € (for 5 years)
Revenue Rates	Revenue-Basic Input – FIT included £65/MWh
Real discount rate	'Apply Cash Flow in Real Terms' 6%
Debt/Equity	80/20 Debt term: 10 years Borrowing rate: 3% Annual Loan Payments

Results

Net Present Value €	29,801,726
Levelised Cost of Energy (LCOE) £/MWh	34.71
Internal Rate of Return %	50.72%