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Analysing the Operational Performance of Renewable Assets in India

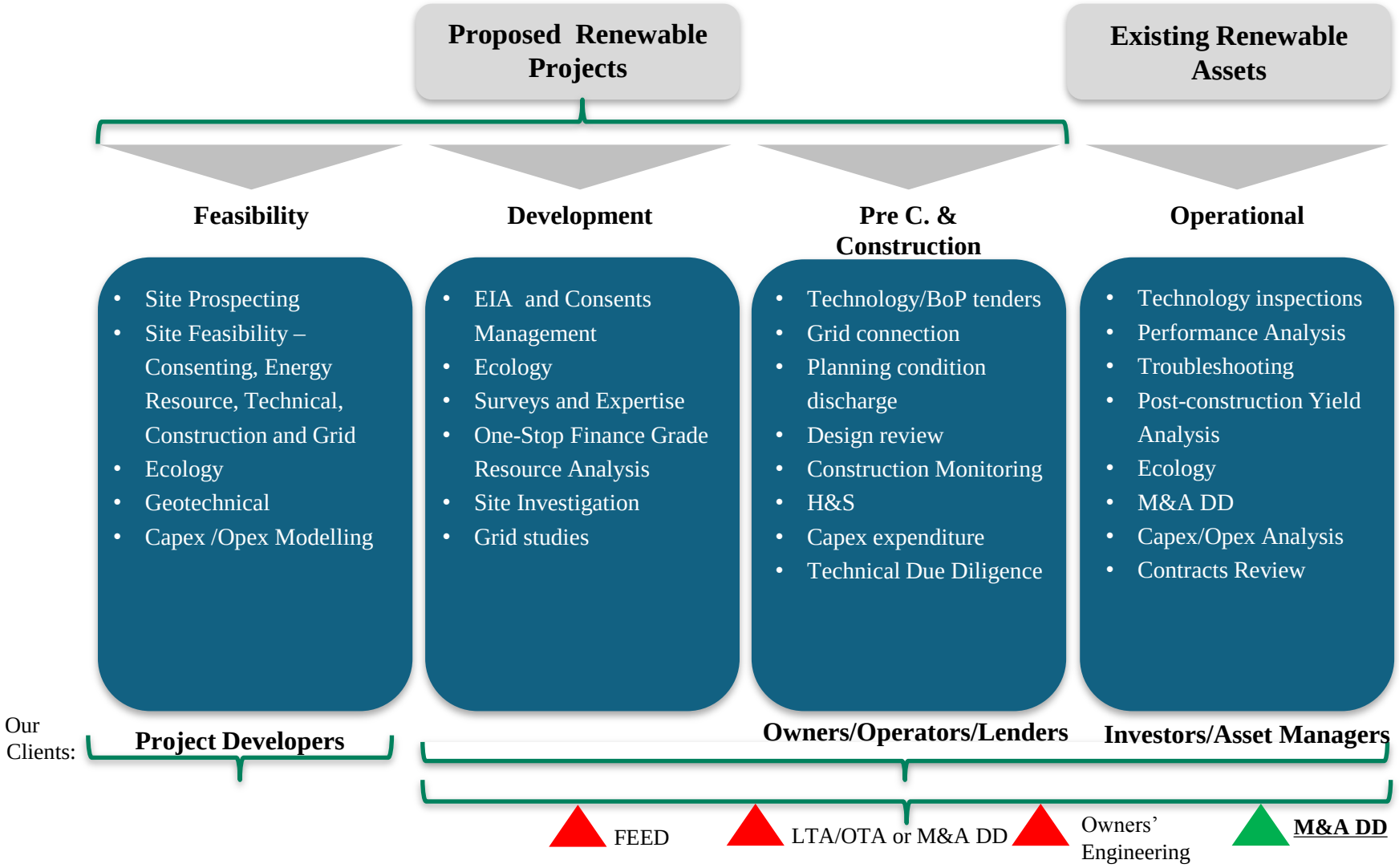




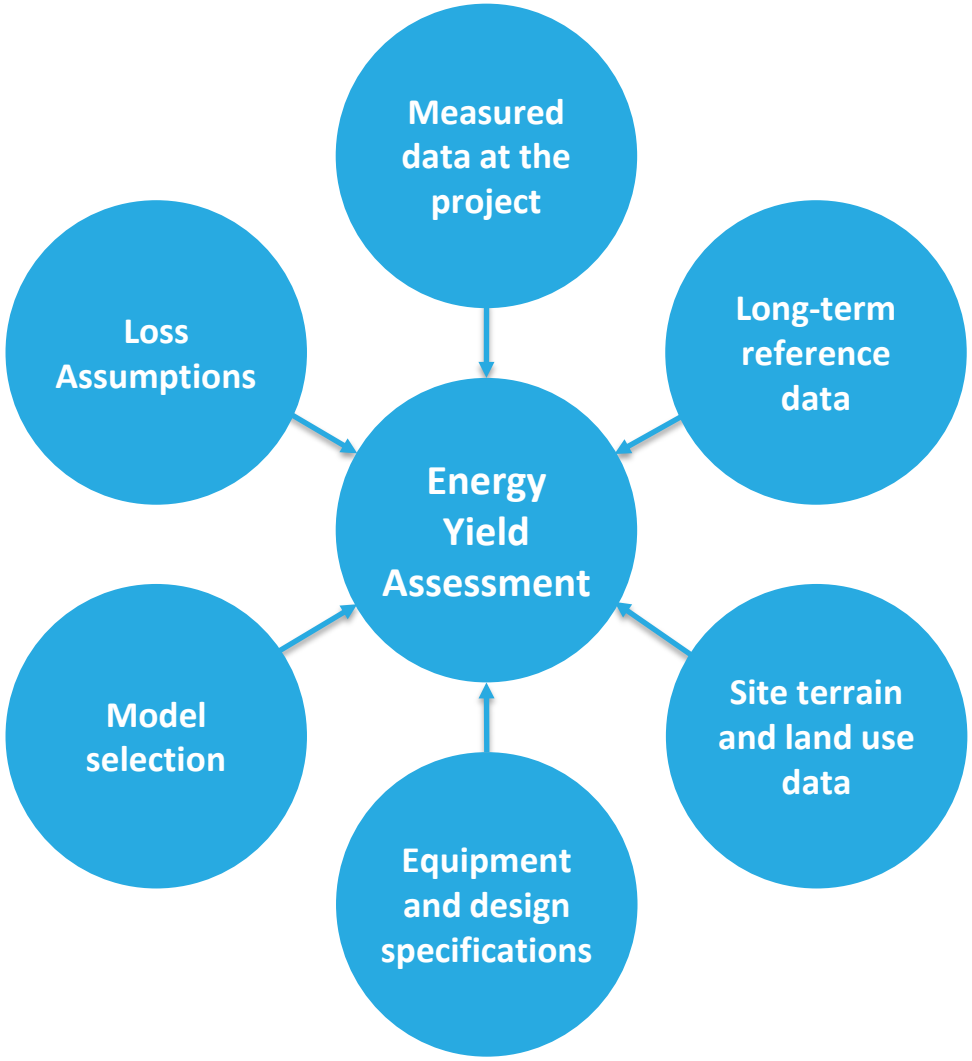
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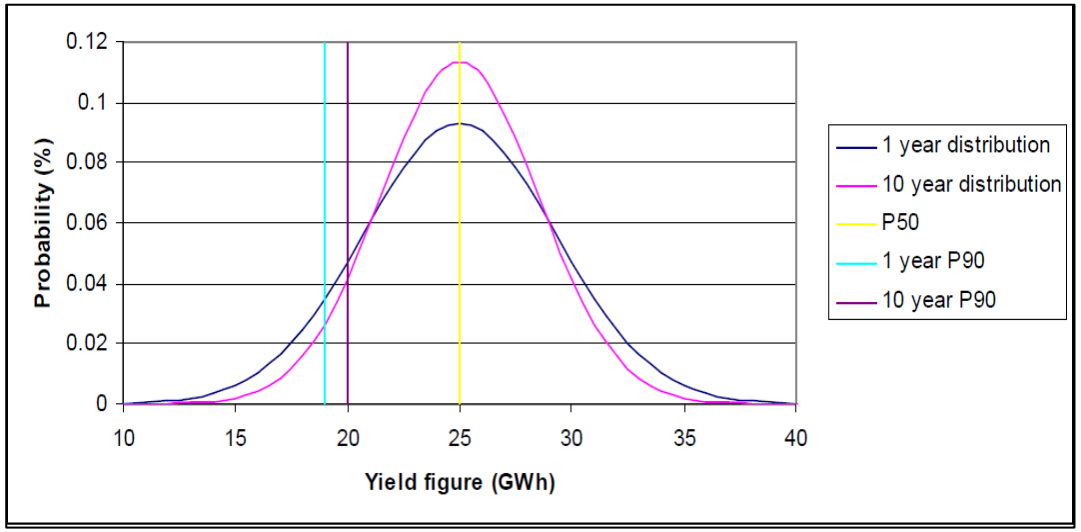
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Our Advisory Services

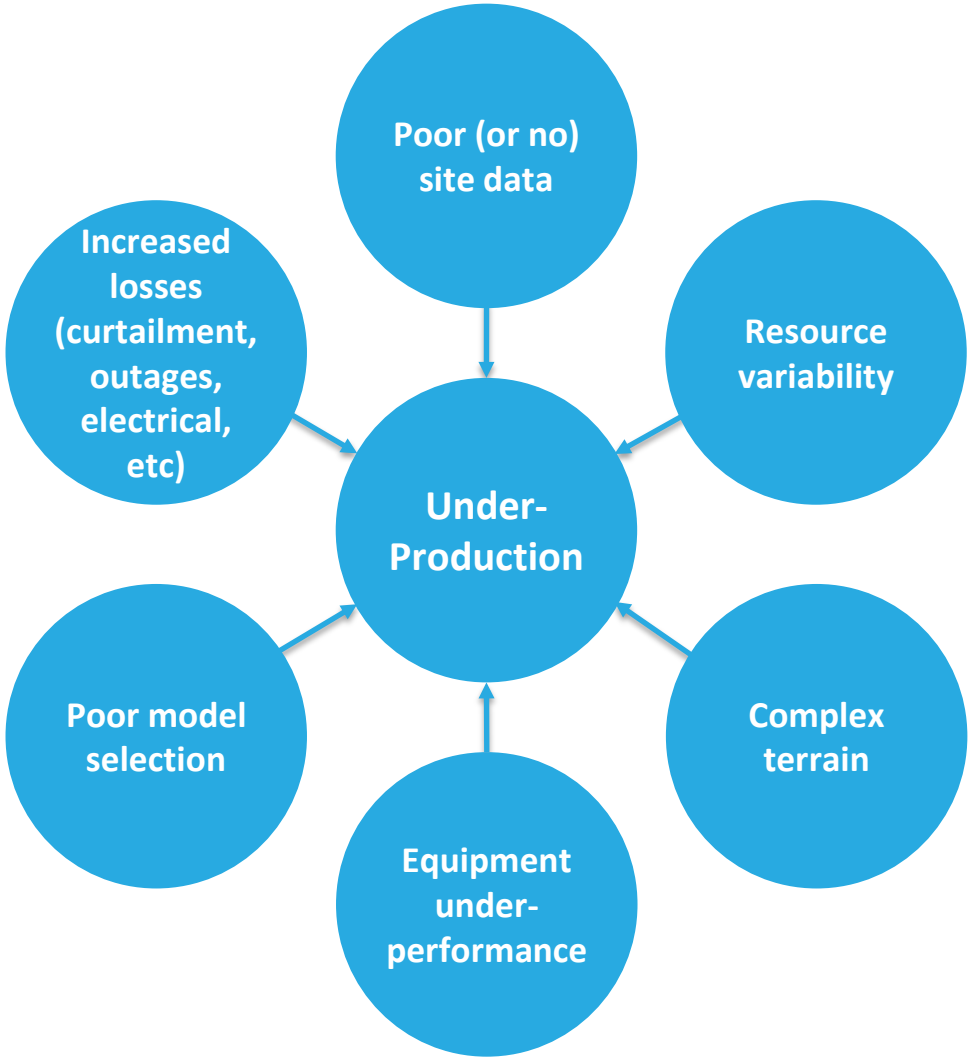


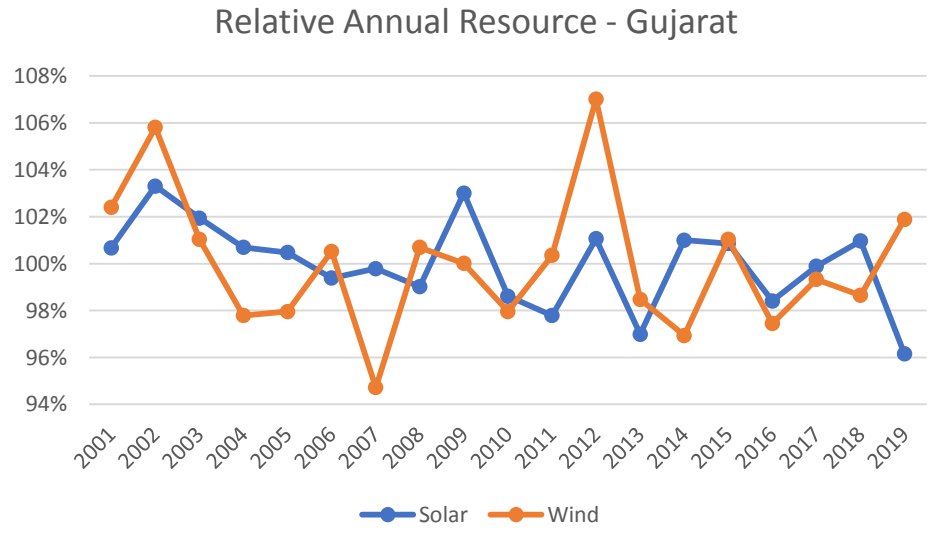
Industry Approach to Yield Assessment and Revenue Assumptions

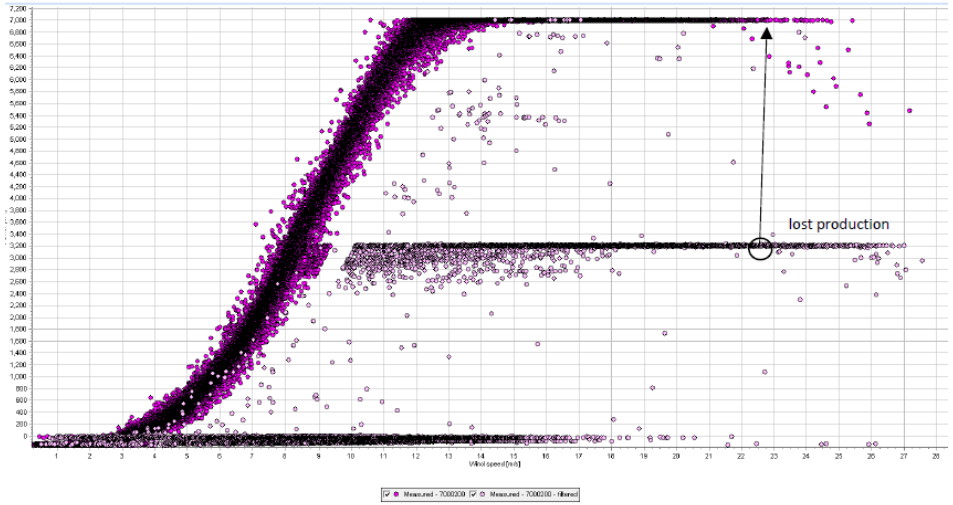




Performance Variation – What Can Go Wrong?

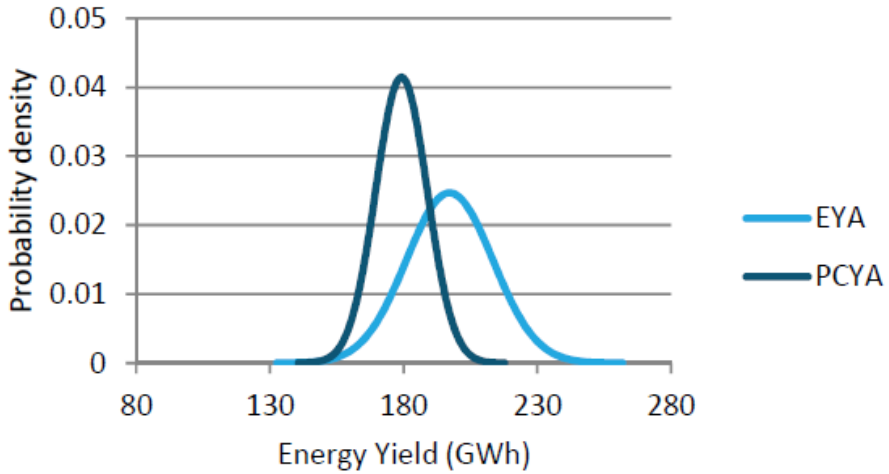






Understanding And Improving Site Performance

Issue	Mitigation pre-construction	Mitigation in operation
Recorded data	• Engage consultants to plan location of measurements. • Consider including LiDAR.	• De-risk measurement uncertainty by performing a Post-Construction Yield Assessment (PCYA).
Long term resource	• Ensure the suitability of reference data selected. • Understand the impact of variability of resource.	• Track relative resource during operation. • Use PCYA to correct short-term performance due to resource to long-term average.
Complex terrain	• Gather detailed data of elevations and usage. • Select correct model for the specifics of the site. • Engage with OEMs on product suitability.	• De-risk flow modelling uncertainty by performing a PCYA. • Potential performance enhancements to reduce complex flow.
Equipment performance	• Secure robust performance warranties backed up with damage payments. • Secure insurance packages.	• Detailed analysis of performance issues. • Use PCYA to establish baseline performance. • Explore performance enhancements.
Model selection	• Ensure use of latest industry learning and correct model selection.	• De-risk wake and flow modelling by performing a PCYA.
Loss assumptions	• Benchmark against operating fleet. • Understand specific project risks and be aware of optimism bias.	• Detailed analysis of losses. • Understand grid strengthening plans. • Contractual enforcement or enhancement through optimised maintenance.





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