FOR IMPROVED INVESTMENT DECISION

Valuation Financing

IN RENEWABLE ENERGY PROJECTS

Book coverage:

- **Financial Statements modeling (Quarterly vs Annually)**
- **Financing model (bank loan, shareholder loan and Equity)**
- **Valuation – deterministic vs probabilistic (IRR project vs IRR equity, NPV)**
- **Optimization – deterministic vs probabilistic (optimal electricity price vs IRR equity target)**

102 Pages/Hardcover/Oct 2020

KEY FEATURES

- Includes free version of SIPmath simulation Tools™
- includes Excel® spreadsheets (detailed cash flows and calculations) of all the examples
- assess the impact of uncertainty of capacity factor on the economics of renewable projects through easy-to-understand probabilistic analysis
- Determine the optimum electricity price to meet the target of equity rate of return based on deterministic and probabilistic modeling

by **Nuzulul Haq**

A practitioner in project economics for more than 20 years

MARKETING INFO:

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MODELING TECHNIQUE

Static Debt Size

- Develop module: Input, Timing, Operational, Capex & Funding (C&F)
- Develop module: Debt, Financial Statement, Deprecation & Tax, Equity, Financial Statement

Dynamic Debt Size

- Create VBA macro to mitigate circular reference
- Adding Debt Service Reserve Account (DSRA)
- Adding Shareholder Loan (SHL) as fixed number
- Develop Module: Valuation, Dashboard

Probabilistic and Optimization

- Introduction of SIPmath modeler tool
- Setting Input Assumption (capacity factor)
- Define Output target (IRR and $/MWh)
- Setting Shareholder Required of Return
- Creating VBA macro to determine optimum price
- Result summary – Deterministic vs Probabilistic

SIPmath™ 2.0 Certified

Probability Management.org