東南アジアと南アジアに関して

第2回石炭火力発電輸出への公的支援に関する有識者ファクト検討会

Miho Kurosaki

April 21, 2020

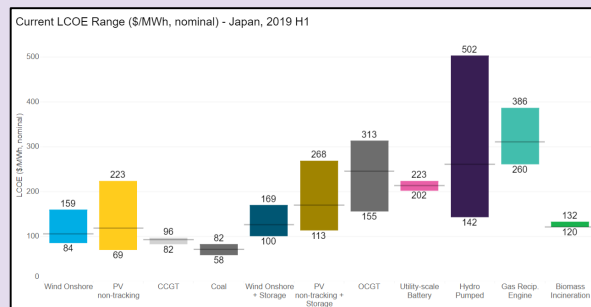BloombergNEF

LCOE方法論

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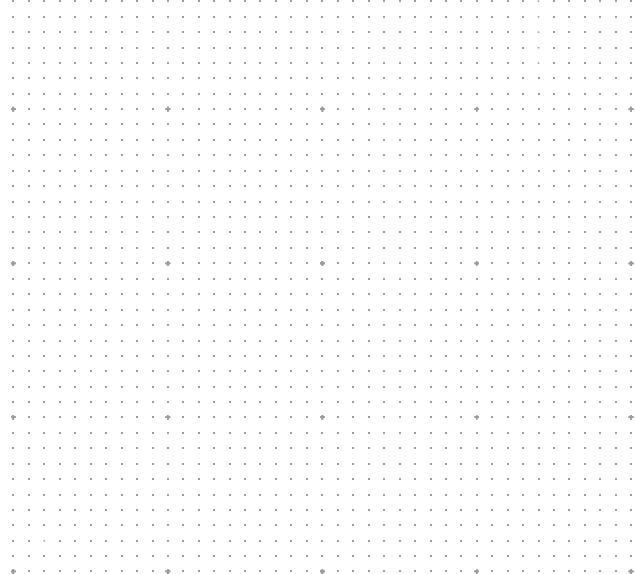
BNEF LCOE Methodology

- Data sourcing

- LCOE ranges driven by regional variations

- Incorporates:
  - Development cost
  - Construction cost
  - Financing cost
  - O&M cost
  - Interest and tax
  - Fuel cost, etc.

Definition of LCOE:
The long-term offtake price required to achieve a required equity hurdle rate for the project

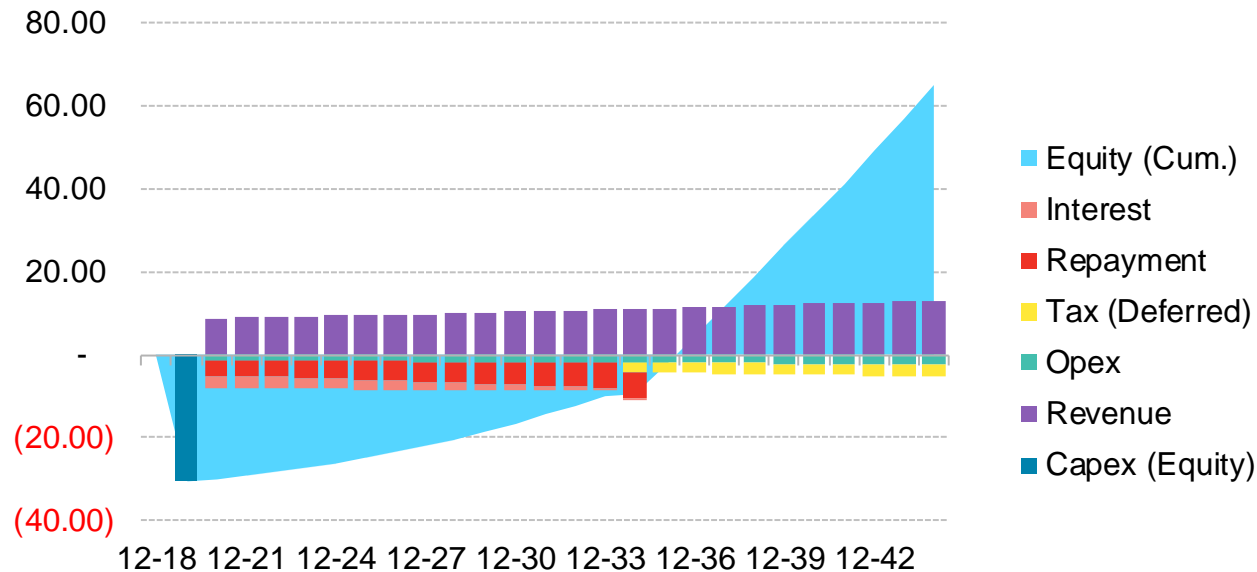Current LCOE Range ($/MWh, nominal) - Japan, 2019 H1

- Use of debt
  - Leveraging
  - Base rate
  - Swap rate
  - Lender's margin
  - Term loan condition

- Macroeconomics and universal assumptions

Source: BloombergNEF

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サンプルプロジェクト

Project Cash Flows (USDm)

Legend:
- Equity (Cum.)
- Interest
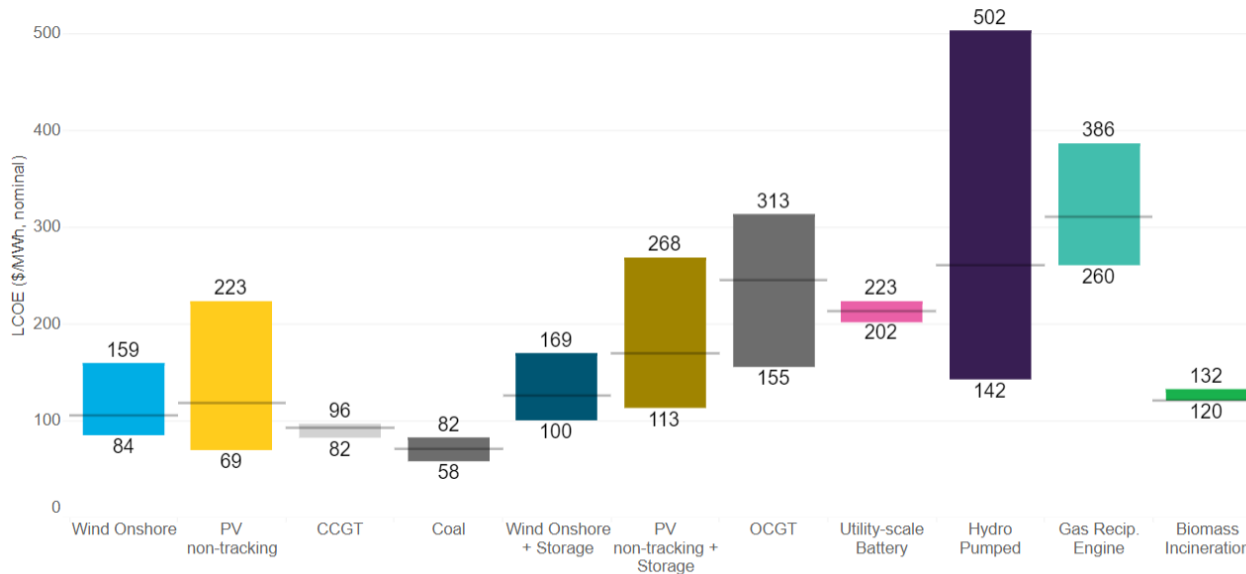- Repayment
- Tax (Deferred)
- Opex
- Revenue
- Capex (Equity)

Source: BloombergNEF

BloombergNEF

Similar analysis is done for all major generation technologies

Current LCOE Range ($/MWh, nominal) - Japan, 2019 H1

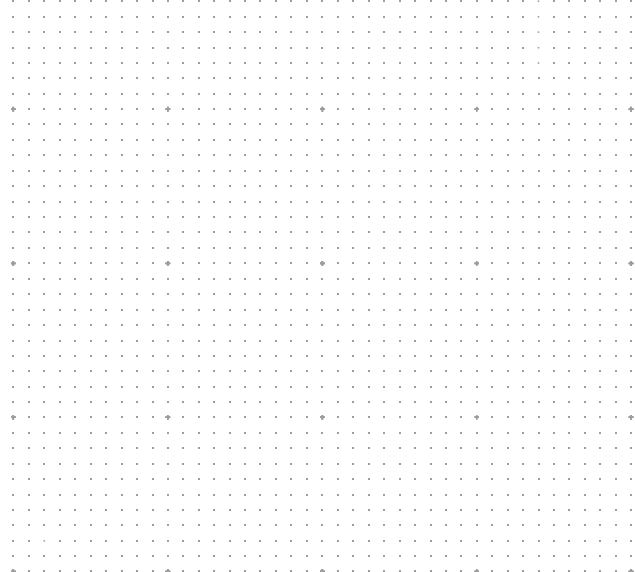*Source: BloombergNEF*

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東南アジア

マレーシア
フィリピン

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南アジア

バングラデシュ
パキスタン

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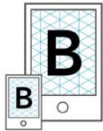
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