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# 海外標案類型

#### Investment Analysis

- Identification of service need and priority
- Consideration of alternative options for meeting service need
- Development and approval of Business Case
- Independent of investment decision
- Consideration of range of alternative procurement models, including PPP
- Decision based on model likely to deliver best value for money
- Often preceded by market sounding
  - Open invitation, with details of the project
  - Selection of 2 or 3 bidders based on capability and experience
- Interest

Expressions of

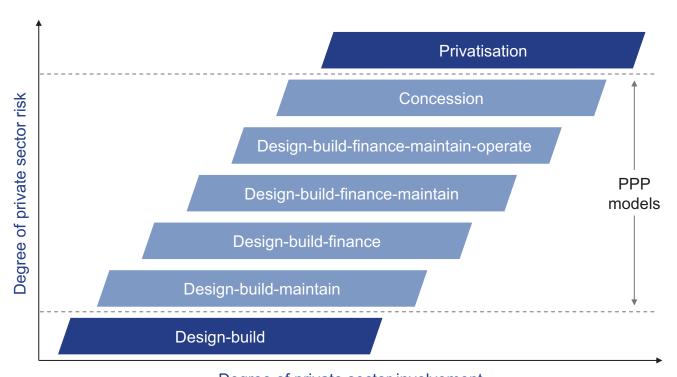
- Detailed output specification and well-developed draft PPP contract
- Request for Proposals
- Interactive tender process, facilitating two-way feedback

- Negotiations & Financial Close
- Fully-underwritten bids, evaluated on quality and overall VFM, not just price
- Can take 2 6 months, and involve minor refinements of proposal
- Financial close occurs very shortly after contractual close
- Close monitoring of final finance costs, including interest rate swap
- Implementation
- Strong public sector focus on contract management
- Payment deductions for unavailability of asset and poor service performance
- Ultimate sanction of early termination for very poor performance

# 招標方式

#### EU Legislation allows four procurement procedures

Open Procedure Restricted Procedure Negotiated Procedure Competitive Dialogue								
	Open Procedure	Restricted Procedure	Negotiated Procedure	Competitive Dialogue				
Possibility to limit number of bidders	No prequalification or pre-selection is permitted. Any interested company may submit a bid.	The number of bidders may be limited to no less than five in accordance with criteria specified in contract notice (prequalification and shortlisting permitted).	The number of bidders may be limited to no less than three in accordance with criteria specified in contract notice (prequalification and shortlisting permitted).	The number of bidders may be limited to no less than three in accordance with criteria specified in contract notice (prequalification and shortlisting permitted).				
Discussions during process	The specifications may not be changed during the bidding process, and no negotiations or dialogue may take place with bidders. Clarification is permitted.	The specifications may not be changed during the bidding process, and no negotiations or dialogue may take place with bidders. Clarification is permitted.	Negotiations permitted throughout process. Successive stages can be used to reduce the number of bidders (further shortlisting).	Dialogue with bidders permitted on all aspects (similar to negotiated procedure, including further short-listing). When dialogue is concluded, final complete bids must be requested based on the solution(s) presented during the dialogue phase.				
Discussions after final bid is submitted	No scope for negotiations with a bidder after bids are submitted.	No scope for negotiations with a bidder after bids are submitted.	Not relevant because the negotiations can continue until the contract is agreed. There need be no "final bid" per se.	Only permitted to clarify, fine tune or specify a bid. No changes permitted to basic features.				
Basis for award	Lowest price or most economically advantageous tender	Lowest price or most economically advantageous tender	Lowest price or most economically advantageous tender	Most economically advantageous tender				



Degree of private sector involvement

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# PPP契約類型與權責劃分

PPP agreements can be structured following different contractual models

The contractual model defines the roles of public and private sectors as well as how project risks are shared

O - Retained by Public Sector  ■ - Transferred to Private Sector	Design	Construction	O&M	Financing	Market / Utilization	Collection
Design Bid Build	0	•	0	0	0	0
Design Build	•	•	0	0	0	0
Design Build Finance	•	•	0	•	0	0
Design Build/Maintain	•	•	•	0	0	0
Design Build Finance Operate (Availability Payment)	•	•	•	•	0	0
Design Build Finance Operate (Shadow User Fee)	•	•	•	•	•	0
Design Build Finance Operate (Real User Fee)	•	•	•	•	•	•

# 標案風險評估

# PPP契約架構與風險分攤

This diagram denotes a simple concession contractual structure. The SPV is not highly capitalized and therefore it has to pass many of the key risks to other parties that are better able to manage them.

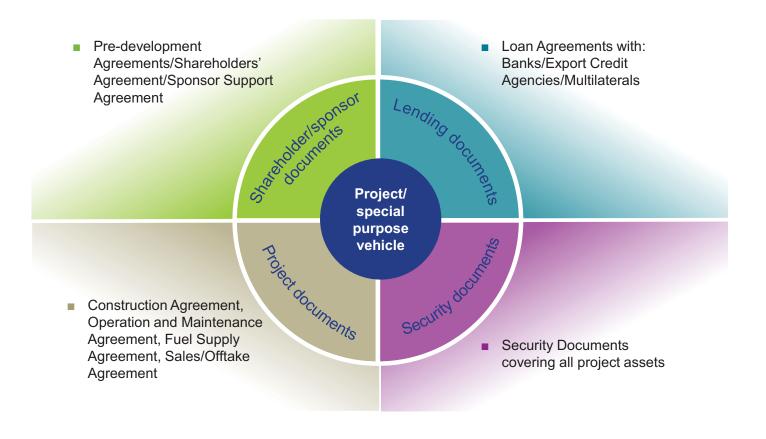
#### parties that are better able to manage them. Concession contract Equity Equity investment Revenue Cost increases over time Construction Tax Construction contract **Special Purpose** Contractor **Vehicle** Cost overruns Performance Delays guarantee Debt finance Design Interestand Performance Principal O & M / **Facilities** Lenders contract Residual risk after equity **Operating Contractor** O&M cost increases (shared)

**Public Sector** 

Environmental

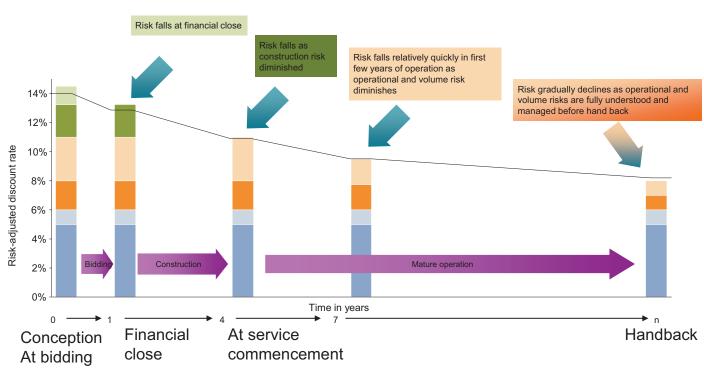
Delivery of O&M

#### PPP相關契約



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# PPP案件生命周期風險變化



Risk free Regulatory/Unforeseeable risk Volume risk premium Operational risk premium Construction/Financing risk premium Bid risk premium

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#### Design and build

- Planning/consents
- Design
- Technology
- Ground conditions
- Protestor action
- Construction price
- Construction programme
- Interface
- Performance/availability
- Utilities

#### **Operations**

- Operating cost
- Operating performance
- Maintenance cost/timing
- Raw material cost
- Insurance premiums/availability
- Vandalism

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# 總體經濟及市場需求風險

#### **Macroeconomic**

- Interest rates
- Inflation
- FX exposure
- Tax exposure

#### Revenue

- Output volume
- Usage
- Output price
- Toll levels
- Accidents
- Competition
- Force majeure

#### **Investment costs**

- High infrastructure costs
- Few international EPCs active in region
- High EPC wrap costs
- Forex denominated costs
- Long duration of closing projects

#### Availability and cost of finance

- Risk Rating (medium high)
- Political risks
- Sovereign risk
- Weak balance sheets or budget reserves
- Strings attached to capital releases
- Unfamiliar territory to international Project Finance banks

#### Regulation and legal framework

- Lack of standardised risk allocation
- Planning consents
- Protracted approval processes
- Legislative constraints re asset ownership etc.
- Corruption
- Capacity of public sector to deliver projects

#### **Project funding**

- Not all investments economically viable on stand-alone basis
- Tariffs regulation below commercially acceptable levels
- Social political pressures

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Investment constraints

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# 風險評估

#### **Ratios**



Annual Debt Service Cover Ratio (ADSCR) – Cashflow available for debt service divided by annual debt service



Loan Life Cover Ratio (LLCR) – NPV of future cashflow available for debt service over tenor of the loan divided by debt outstanding



 $\label{eq:project_life} \textit{Project Life Cover Ratio (PLCR)} - \textit{as LLCR over whole life of contract/concession}$ 



Key covenants - minimum for base case/lock-up/default



Breakeven and sensitivities

# 風險移轉機制

Support packages	•	Construction Operation Equity bridge Standby equity
Contractual structure		Flow down Direct Agreement/step-in
Reserving mechanisms		Debt service/maintenance/change in law/insurance/tax
Hedging		Interest rates/foreign exchange/inflation

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# 標案財務評估

#### 以財務模組進行專案財務分析

Fundamental part of infrastructure development

- Sponsors detailed cost modelling
- Investors equity returns
- Debt Financiers project robustness

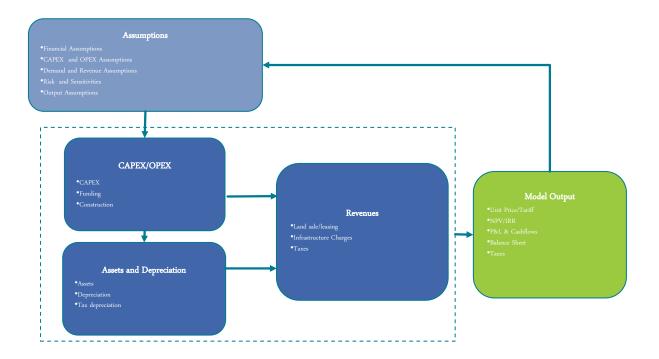
#### Form of financial model

- Exel model showing project cashflows
- Project finance standard monthly during construction, semi-annual during operation
- Needs to follow industry standard and best practice
- P&L/balance sheet necessary
  - P&L drives tax based on accounting treatment along with distributable reserves
  - Balance sheet useful to check model works ie balance sheet should balance!
- Cashflow waterfall

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# 財務模組架構



#### 財務模組主要參數與分析指標

# Main elements Revenue Operating and maintenance costs (routine and lifecycle) Tax Debt Financing Distributions to equity shareholders

**Key Metrics** 

**Project IRR** 

**Debt Cover Ratios** 

**Equity IRR** 

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# 收入與支出

#### Revenue

- Calculation will depend on nature of project
- Availability payments subject to deductions
- Usage risk forecast usage and pricing
- Inflation assumptions
- Either an input or output

#### Cost

- Sponsor cost model
- Representation of contract or assumptions
- Inflation relative to revenue inflation (differential indexation)
- Correlation to usage of asset
- Long term lifecycle forecast
- Management costs/fees

**Debt** 

- Term sheet contains pricing
- Interest rate LIBOR + credit margin
- Hedging costs Fixed rate LIBOR
- Fees Upfront fee, commitment fee and agency fee
- Base Case cover ratios need to be met debt sizing
- Repayment profile sculpting to tenor?

**Equity** 

Investment

- Shares or shareholder loans
- Timing and pricing of any support required ie Letter of Credit
- Fees to be included?

Returns

- Annual cashflow available post debt financing
- Target IRR

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# 稅務及會計處理

Key areas of financial modelling that need professional input

- Tax treatment is important in relation to capital investment ie capital allowances
- Interest deductibility
- Use of tax losses
- VAT needs to be considered in terms of timing differences

Accounting treatment

- Key to tax calculations
- Distributable reserves
- Balance sheet treatment

# **Equity IRR**

The internal rate of return of equity is the "rate of return" that makes the NPV of all cash flows (both positive and negative) from a particular investment equal to zero.

In more specific terms, the IRR of an investment is the discount rate at which the NPV of investment (negative cash flows) equals the NPV of the cashflow received (positive cash flows) of the investment.

Typical equity IRRs in developed markets:

- PPP projects 12-15%
- Secondary PPP projects 7-8%
- Operational regulated airports/water industry 12-15% leveraged

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# **Project IRR**

The internal rate of return of a project is the "rate of return" that makes the NPV of all cash flows (both positive and negative) from a particular investment equal to zero.

In more specific terms, the IRR of an investment is the discount rate at which the NPV of costs (negative cash flows) of the investment equals the NPV of the benefits (positive cash flows) of the investment.

A company should, in theory, undertake all projects or investments available with IRRs that exceed their cost of capital.

Weighted Average Cost of Capital - WACC

$$WACC = (E/V) \times R_e + (D/V) \times R_d \times (1 - T_c)$$

In practice - Project IRR is the IRR (Revenues - Costs), hence is the pre-tax WACC

Why is the Project IRR of interest to infrastructure projects?

#### **Debt Cover Ratios**

# Annual Debt Service Cover Ratio (ADSCR):

means, in relation to any Calculation Date falling on or after the date which is 12 months after the Full Operations Commencement Date, the ratio of:

(a) the Net Cash Flow

to

(b) the Senior Debt Service Requirement

in each case during the 12 months period ending on that Calculation Date.

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#### **Debt Cover Ratios**

#### Loan Life Coverage Ratio LLCR

is a ratio commonly used in project finance.

The ratio is defined as: Net Present Value of Cashflow Available for Debt Service ("CFADS") / Outstanding Debt in the period.

Financial modelling of LLCR is now a standard metric calculated in a project finance model and has been standardized to a large extent but always needs to be aligned with local practice of the financiers as described in the transaction term sheet.

NPV(CFADS) is measured only up until the maturity of the debt tranche.

The ratio gives an estimate of the credit quality of the project from a lender's perspective.

Related ratios are: Project Life Coverage Ratio (PLCR) and Reserve Life Coverage Ratio (RLCR)

The ratio can range from 1.25 in a highly geared infrastructure investment to 2.5 or higher in an oil and gas transaction.

# 一般常見財務模組分析錯誤

- Most errors are not mathematical but incorrect assumptions
- Real and Nominal cashflows
- Discount rates
- Annual/Semi-annual calculations
- Tax errors
- Timing of cashflows working capital
- Missing costs and fees

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# 敏感性分析

- Revenue
  - % increase/reduction
  - performance deductions
- Costs
  - % increase /reduction
  - lifecycle and/or O&M
- Macroeconomic
  - RPI rate
  - FX rate
  - Tax rates
- Project delay
- Combined

# 財務模組分析產出





# 140.00 120.00 100.00 80.00 40.00 20.00 DSCR—TIE — D/E%

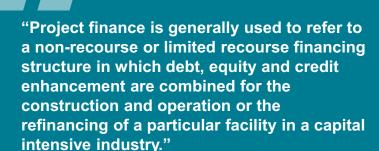
<b>票箱收入</b>															
經營比	60%	65%	70%	75%	80%	85%	90%	95%	100%	105%	110%	115%	120%	125%	130%
70%	0.75	0.82	0.88	0.94	1.01	1.07	1.13	1.20	1.26	1.32	1.38	1.45	1.51	1.57	1.64
75%	0.74	0.80	0.87	0.93	0.99	1.05	1.11	1.17	1.24	1.30	1.36	1.42	1.48	1.55	1.61
80%	0.73	0.79	0.85	0.91	0.97	1.03	1.09	1.16	1.22	1.28	1.34	1.40	1.46	1.52	1.58
85%	0.72	0.78	0.84	0.90	0.96	1.02	1.08	1.14	1.20	1.26	1.32	1.38	1.44	1.50	1.56
90%	0.71	0.77	0.82	0.88	0.94	1.00	1.06	1.12	1.18	1.24	1.29	1.35	1.41	1.47	1.53
95%	0.70	0.75	0.81	0.87	0.93	89.0	1.04	1.10	1.16	1.22	1.27	1.33	1.39	1.45	1.51
100%	0.68	0.74	0.80	0.86	0.91	0.97	1.03	1.08	1.14	1.20	1.25	1.31	1.37	1.43	1.48
105%	0.67	0.73	0.79	0.84	0.90	0.95	1.01	1.07	1.12	1.18	1.24	1.29	1.35	1.40	1.46
110%	0.66	0.72	0.77	0.83	0.88	0.94	1.00	1.05	1.11	1.16	1.22	1.27	1.33	1.38	1.44
115%	0.65	0.71	0.76	0.82	0.87	0.93	0.98	1.03	1.09	1.14	1.20	1.25	1.31	1.36	1.42
120%	0.64	0.70	0.75	0.81	0.86	0.91	0.97	1.02	1.07	1.13	1.18	1.23	1.29	1.34	1.40
125%	0.63	0.69	0.74	0.79	0.85	0.90	0.95	1.01	1.06	1.11	1.16	1.22	1.27	1.32	1.38
130%	0.63	0.68	0.73	0.78	0.83	0.89	0.94	0.99	1.04	1.09	1.15	1.20	1.25	1.30	1.36
135%	0.62	0.67	0.72	0.77	0.82	0.87	0.93	0.98	1.03	1.08	1.13	1.18	1.23	1.29	1.34
140%	0.61	0.66	0.71	0.76	0.81	0.86	0.91	0.96	1.01	1.06	1.12	1.17	1.22	1.27	1.32
14070	0.01	0.00	0.71	0.70	0.01	0.00	0.51	0.50	1.01	1.00	1.12	1.17	1.22	1.21	1.02

**Sensitivity Analysis** 

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專案融資

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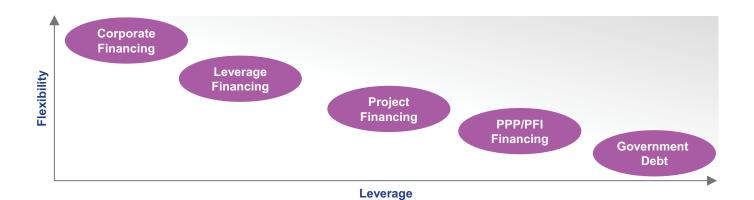


Introduction to Project Finance - By Andrew Fight

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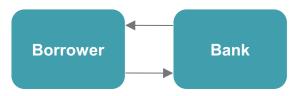
# 各種融資方式之特性



# Corporate Loan facilities and/or bonds issued to capital markets; on balance sheet with full recourse; simple structuring Debt on balance sheet with recourse; structuring can include senior, subordinated, and mezzanine tranches Key ratio is debt to EBITDA; traditional bullet repayment has been replaced with cash sweep/amortisation Project Project finance which can be on or off balance sheet with limited recourse Key ratio is loan to project life coverage; ring-fenced security with cash sweep/amortisation PPP/PFI Project finance whereby the underlying asset is underpinned by contracts between public and private entities

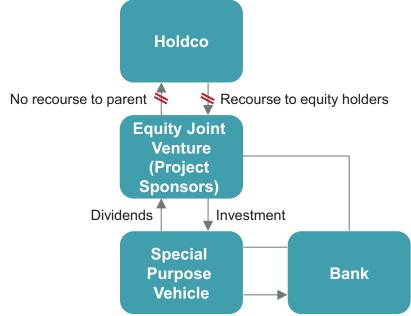
#### **Corporate lending example**

- On balance sheet
- Direct recourse to holding company



#### **Project financing example**

- Off balance sheet
- Non-recourse to holding company



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# 專案融資與一般企業融資差異比較

	Features									
	Project Finance	Corporate Finance								
Financing	<ul> <li>Financiers look at cash flows of a single asset (the project) for repayment</li> </ul>	■ Financiers look to the overall strength of a company's balance sheet and projections, which is usually derived not from a single asset but a range of assets and businesses								
Security	<ul> <li>No/limited guarantees for project finance debt</li> <li>Project contracts are usually the main security for lenders; project companies' physical assets are likely to be worth much &lt; the debt</li> </ul>	<ul> <li>All assets of the company can be used for security</li> <li>Has access to whole cash flow from spread of business as security, thus even if project fails, corporate lenders can be repaid</li> </ul>								
Duration	Project has a finite life as such the debt must be repaid by the end of this life	Company assumed to remain in business for an indefinite period and losses can be rolled over.								
Control	<ul> <li>Lenders exercise close control over activities of Project Company to ensure value of project is not jeopardise</li> </ul>	Leaves management of company to run business as they see fit								

**Bank Debt** 

**Capital Markets** 

**Investment Funds** 

Government

**Multilateral Agencies** 

**Islamic Financing** 

**Subordinated Debt** 

**Mezzanine Debt** 

**Reserve Facilities** 

**Equity Bridge** 



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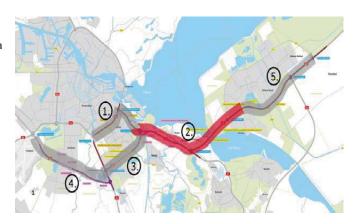
專案融資案例分析 荷蘭A1/A6 Diemen Interchange - Almere Havendreef專案融資

#### The project

- The A1/A6 Project comprises the design, construction, financing and maintenance of the A1/A6 road Diemen- Almere Havendreef through a Public Private Partnership ("PPP")
- The objective of the Project expanding road capacity to ensure the region remains accessible while taking into account livability, nature and the environment
- Beside the capacity expansion, the project involves inter alia two bridges, one aqueduct and fauna passes.
- The Contracting authority is the "Rijkswaterstaat", the Dutch agency for roads, traffic and water.

#### **Key investment features**

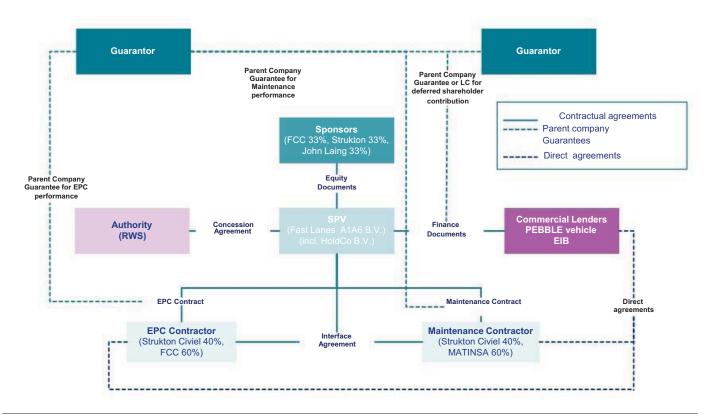
- A funding requirement of approximately 800 million.
- Availability payment based Dutch government infrastructure PPP project, therefore the project does not bear any traffic/demand risk. The main project risks will be transferred back-to-back to subcontractors, subject to relevant liability caps.
- The concession term is 25 years, consisting of 5 years construction plus a fixed 25 years operational phase following the availability date.
- The asset will remain legal and economic property of the authority with no residual value risk to the SPV.
- Consortia had to provide one preferred funding solution and could provide a variant bid with an alternative funding solution
- Fastlanes "choose" to use the PEBBLE structure as developed by ING.
- The PEBBLE vehicle will provide a long term facility to the a1a6 project pari passu with the short term bank facilities and the EIB Facility.



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#### 契約架構



#### 資金來源與用途

Sources and uses during construction							
Sources		Uses					
Equity bridge facility drawdowns	9%	SPC upfront		1%			
Milestone bridge facility drawdowns	16%	Capex		79%			
EIB Milestone bridge facility drawdowns	10%	Opex during construction		2%			
Net availability payment during construction	6%	Operational SPC costs during construction		1%			
EIB loan facility drawdowns	29%	Financing expenses		14%			
Share capital investments	0%	Addition to debt service reserve account		3%			
Revolving credit facility drawdowns	29%						
Interest earnings during construction	0%						
Total	100%		Total	100%			

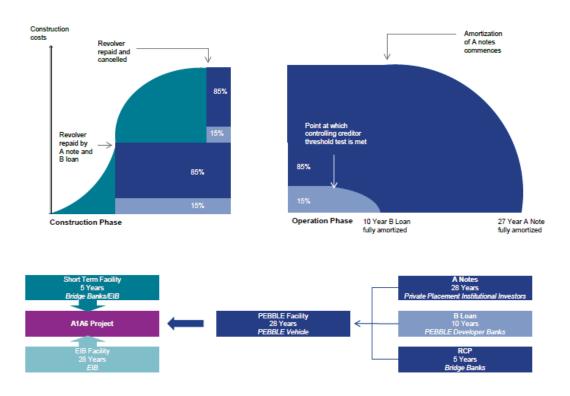
#### **Funding**

- 20% Gross Availability Fees until Availability Date
- A Completion Milestone of EUR 200m, bridged by both commercial lenders and EIB
- Long-term funding by means of EIB Senior Debt and PEBBLE structure
- PEBBLE stands for Pan European Bank to Bond Loan Equitisation and was originally developed by ING. It comprises:
  - A-notes (85%) and B-loans (15%) that are issued at fixed intervals in amounts of c. EUR 35m combined
  - The pre-set issuance of A-notes (and B-loans) are bridged by a Revolving Credit Facility ("RCF")
  - A-notes are taken up by institutional investors. B-loans remain with PEBBLE developers
  - In event of delay the RCF and B-loans will be deferred, but A-notes are issued and the proceeds held on a pledged account

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# 融資規劃



#### **Security Package**

- Parent company guarantee or a Letter of Credit by the Sponsors capped to the liability caps of the EPC Contractor and Maintenance Contractor EPC Contractor
- Liability caps proposed at BAFO:
  - All events: max [30]% of the total EPC contract price; Stepping down to [25%] after completion for a period of 2 years.
- Performance bond of [10%] of EPC contract price until Completion Date, stepping down to [2.5%] after the completion date for a period of two years

#### **O&M Contractor**

- Liability caps Maintenance contract proposed at BAFO :
  - The aggregate of the liability cap of the M subcontractor is to [240%] of the average annual routine and heavy maintenance payments.
  - If the aggregate liability exceeds [45%] of the average annual fee in any year, the cap available would be reduced by the excess.
     This part of the cap would be refreshed each year such that the sum available would not be eroded by deductions made under the payment mechanism and passed through.
  - At termination, the cap would increase by [140%] of the average annual routine and heavy maintenance payments to [380%] in total
    and the only the Availability and Performance Deductions imposed in the year of termination would be included within the cap.

#### Other

- To obtain an investment grade rating the liability caps would likely have to be increased to 40% and performance bonding to levels of 10% liquid plus 15-20% adjudication bond
- Fitch applies a 25% discount for the use of adjudication bonds

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# 專案信用評等

#### Rating process

- Although a credit rating was initially not required, ING proposed to progress at their cost
- Fitch was appointed as rating agency and initial discussions were held
- Later in the process one institutional investor required investment grade rating, with the others following suit
- Surprisingly Fitch atribituted no credit enhancement value to either the B-loans or the RCF
  - Has ING sufficiently tested the structure with the rating agencies?
- No rating was obtained before BAFO

# 專案融資

# 建議與結語

- 投標前應先釐清標案契約涉及之權利義務與風險承擔,並將相關風險成本反應在財務評估
- 標案財務規劃需從專案計畫、投資股東、 融資機構的角度進行評估, 同時滿足三方的財務規劃 才是具有財務可行性的標案
- 運用財務模組進行標案財務分析需驗證假設參數之合理性,尤其對於因地制宜之參數如會計處 理與稅務規範應諮詢當地專業機構意見進行檢核
- 專案融資係以標案未來營運之現金流量作為融資擔保與還款來源,融資方為確保融資風險通常 會要求借款方提出標案之信用評等或第三方擔保之信用增強機制,因此財務成本需將衍生之信 用增強成本納入考量





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