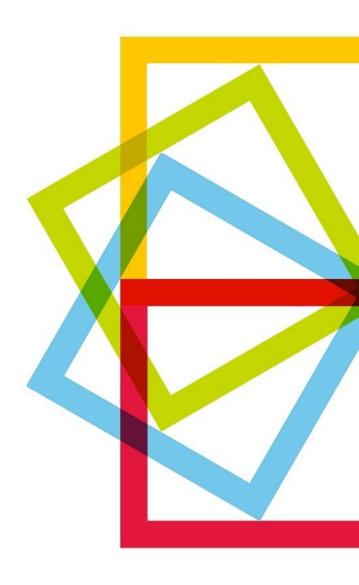


PROJECT FINANCE CRITERIA OVERVIEW

Trevor D'Olier-Lees Director

January 29, 2015



Agenda

Project Finance Criteria Details:

- Framework
- Construction
- Counterparty
- Operations
- Transaction Structure

Questions & Answers





Project Finance Criteria Cover Five Key Areas

PROJECT FINANCE RATINGS FRAMEWORK

Final Criteria: Sept. 16, 2014

Counterparty

Final Criteria: Dec. 20, 2011

Construction

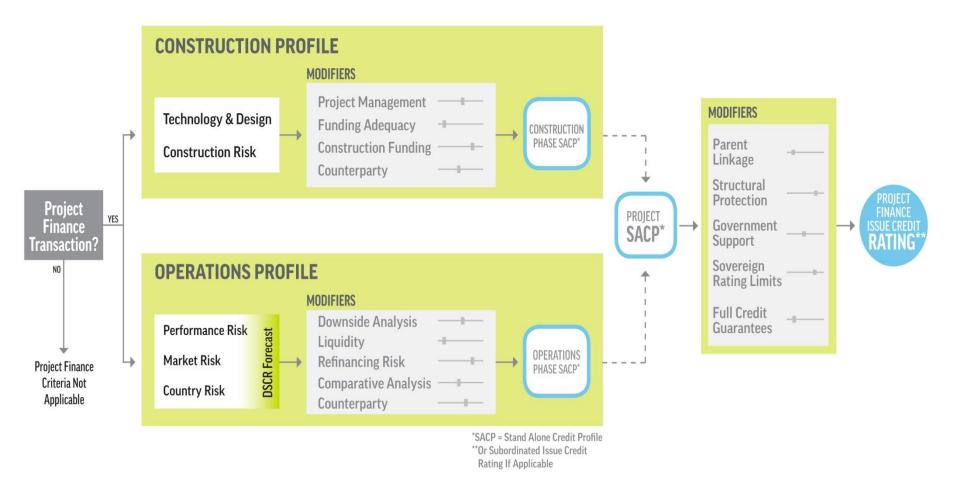
Final Criteria: Nov. 15, 2013 **Operations**

Final Criteria: Sept. 16, 2014 Transaction
Structure

Final Criteria: Sept. 16, 2014



Project Finance Ratings Framework







Step 1: Determine Whether Project Finance Criteria Can Be Applied

For project finance criteria to apply, the transaction must contain:

- Minimum transaction elements
- Limited or non-recourse to the sponsors/shareholders; lenders look only to project cash flows, assets, and contractual agreements
- Operating and revenue risk
- An asset that has a limited life, and restricted activities
- Covenants and controls for senior secured lenders
- Established responsibilities and risk allocation for project life

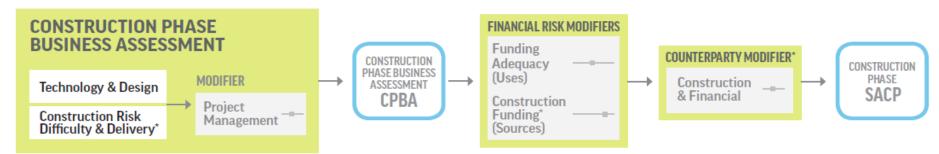
Project Finance Transaction?

If the features are not met, project finance criteria does not apply





Construction Phase Stand Alone Credit Profile



*Country risks are assessed / incorporated



Business Assessment:

Technology And Design Risk Score

Assess the likelihood that when built the project will perform as expected and no will not cost more than estimated.

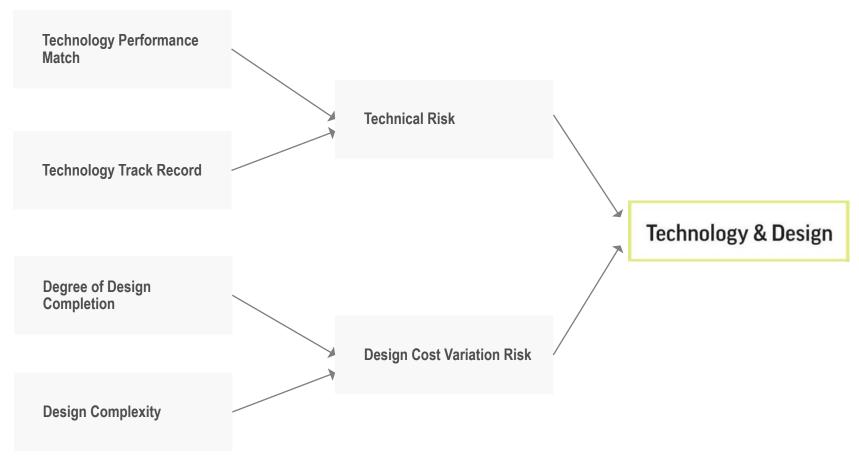




Table: Technology And Design Risk

Technology And Design Risk

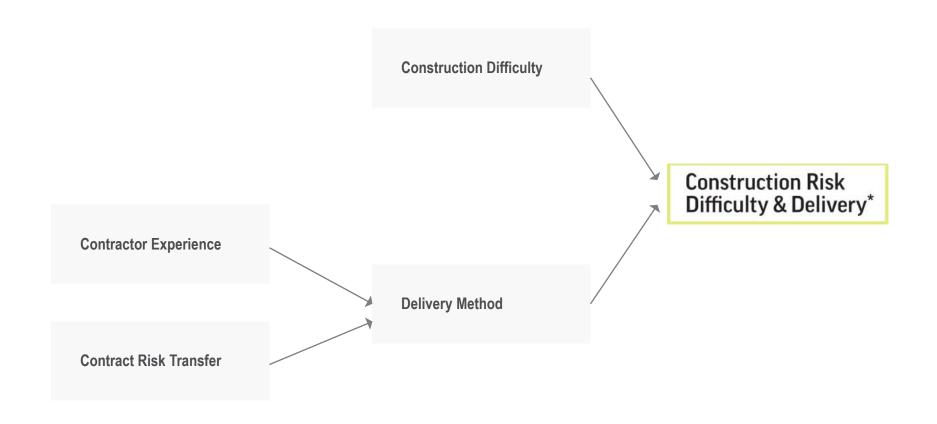
Technological risk

Design cost variation risk	Very strong	Strong	Adequate	Weak	Very weak
Very low	1	2	3	4	5
Low	2	2	3	4	5
Modest	2	3	4	5	5
Moderate	3	4	5	*	*
High	4	5	*	*	*

^{*}Construction phase business assessment is generally not assessed higher than 'b-' unless mitigated by recourse to compensating third-party financial support otherwise more typical of full recourse financings



Business Assessment: Construction Risk Scoring





Business Assessment: Construction Difficulty

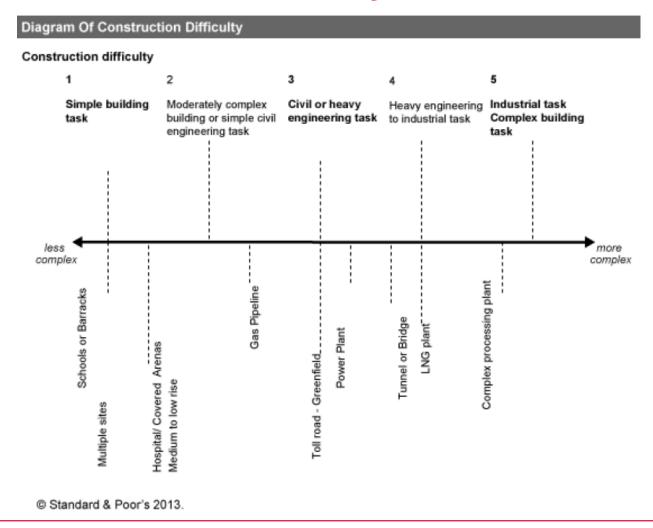




Table: Construction Risk

Construction Risk

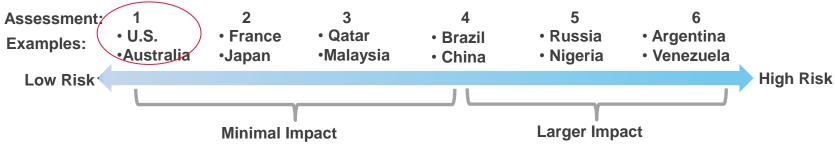
Construction difficulty

Delivery method	Simple building task	Moderately complex building or simple civil engineering task	Civil or heavy engineering task	Heavy engineering-to- industrial task	Industrial task complex building task
Very strong	1	1	1	2	3
Strong	1	2	3	4	4
Adequate	2	3	4	5	*
Weak	4	4	5	*	*
Very weak	5	5	*	*	*

^{*}Construction phase business assessment is generally not assessed higher than 'b-' unless mitigated by recourse to compensating third-party financial support otherwise more typical of full recourse financings.



Business Assessment: Incorporating Country Risk



Country Risk Assessment						
Sources	Sovereign Criteria + Adjustments	Sovereign Criteria	BICRA Criteria	External Sources + S&P Analytics		
Country Risk subfactors	I. Economic Risk	II. Institutional & Governance Effectiveness Risk	III. Financial System Risk	IV. Payment Culture / Rule of Law Risk		
Preliminary country risk assessment	Average country-risk subfactors					
Rounding	Situation and factor based rounding					
Final country risk assessment	Individual Country Risk (established for > 90 countries)					

Our country risk assessments reflect the relative risks of operating in different countries

*When the country risk assessment is significant (assessment of 5 or 6), this limits our assessment of contract risk transfer



Business Assessment: Preliminary CPBA



Table 1. Preliminary Construction Phase Business Assessment

	Construction risk				
Technology and design risk	1	2	3	4	5
1	a+	а	a-	bbb+	bbb-
2	a	a-	bbb+	bbb	bb+
3	a-	bbb+	bbb	bbb-	bb
4	bbb+	bbb	bbb-	bb+	bb-
5	bbb-	bb+	bb	bb-	b+



Business Assessment: Project Management Modifier

Assessment of the following project management sub-factors may result in an adjustment to the CPBA:

Construction	Design	Permits and	Project	Planning and	Sunset date	Dispute
cash	approval	acquisition of	management	budgeting		resolution
management		right of way	expertise	execution risk		

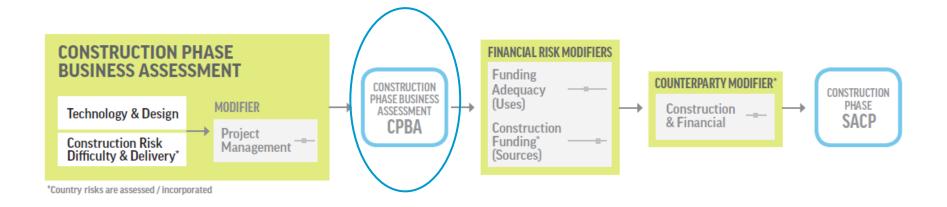
Each sub-factor is assessed at Positive, Negative or Very Negative

Determining The Overall Assessment For Project Management		Construction Phase Business Assessment		
Overall assessment of project Sub-factor (see table 8) management		Overall assessment of project management	Impact on preliminary construction phase business	
Strong	All of the sub-factors are positive.	(see table 9)	assessment	
Satisfactory	The majority of sub-factors are positive, with some negative assessments.	Strong	Plus 1 notch	
		Satisfactory	No change	
Fair	The majority of sub-factors are negative, or we view key aspects of project management as potentially harmful to the company's risk profile.	Fair	Minus 2 notches	
		Weak	Generally not assessed higher than 'b-' and at least minus two notches	
Weak	Any assessment is very negative.			



Construction Phase Business Assessment CPBA

CPBA = Preliminary CPBA + or - project management modifier





Financial Risk Adjustment



Funding
Adequacy
(Uses)

Construction costs

Working capital

Reserves

Interest

Construction
Funding*
(Sources)

Debt funding certainty

Equity certainty

Interest income during construction

Revenue

Third Party support

Contractor support

Financial Risk Adjustment <u>focuses on our base case and likely</u> <u>downside scenarios</u>. This adjustment cannot raise the CPBA

*A project's construction funding can be influenced by country-specific risks



Financial Risk Adjustment

Funding Adequacy (Uses Of Funds)						
	Downside need	Base need				
Construction costs and other project start-up costs	Funding meets or exceeds construction costs under Standard & Poor's downside scenario (see Appendix) or funding covers any early completion bonus payment under a fast-track scenario	Funding exceeds construction costs for base-case scenario, but not that of the downside scenario (see Appendix)				
Interest payable during construction (see Appendix)	Interest payments cover the downside case need	Interest payments funded until operations commence to cover interest under base case				
Working capital	Initial working capital fully funded	Initial working capital fully funded				
Reserve accounts	Fully funded	Fully funded				

Use Of Subfactor Assessments For Determining The Impact Of Funding Adequacy (Uses Of Funds)

The impact of funding adequacy	Subfactor assessment
Neutral	Funding is available for all costs under the downside scenario.
Marginally negative	Funds cover construction costs but are not sufficient to meet the combination of other uses, such as reserves funding adequacy. Reserve accounts can be less than needed in the downside case, but not less than needed in the base case.
Negative	A combination of the marginally negative conditions above plus any material conditions under the transaction documentation, which are assumed as having the potential to inhibit the timely drawing of a letter of credit (or similar instrument) used to support a reserve account in all downside requirements.
Insufficient	Funding is not sufficient to cover construction costs, interest, or working capital required to commence operations under our downside case. Total funding sources do not meet the sum of all downside requirements.



Financial Risk Adjustment

Construction Funding	Construction Funding (Sources Of Funds)					
Highly certain	Certain	Uncertain*				
	Debt funding ce	ertainty—				
	Equity certa	inty—				
	Interest income during	construction—				
R	Revenues from operations during construction—					
Third-party support—						
Contractor support—						

*No funds from uncertain sources are included in the analysis. §By "fatal" conditions we refer to the reasonable decision by lenders to prevent a drawdown when the project is on the brink of failing and has little prospect of recovery and being completed.



Financial Risk Adjustment: Incorporating Country Risk

Use Of Subfactor Assessments For Determining The Impact Of Construction Funding (Sources Of Funds)

The impact of construction funding	Country risk assessment 1-3	Country risk assessment 4
Neutral	Highly certain sources are sufficient to meet the minimum funding requirement of all the downside scenario needs.	Highly certain sources are sufficient to meet 101% of the minimum funding requirement of all the downside scenario needs.
Marginally negative	Sources are sufficient to meet minimum funding requirement of the downside scenario needs with debt funding being certain and all other sources assessed as highly certain or with debt funding and equity being highly certain and all other sources as certain.	Sources are sufficient to meet 101% of the minimum funding requirement of the downside scenario needs. With debt funding being certain and all other sources assessed as highly certain or with debt funding and equity being highly certain and all other sources as certain.
Negative	Exceeds the conditions necessary for uncertain but does not meet the conditions necessary for marginally negative.	Exceeds the conditions necessary for uncertain but does not meet the conditions necessary for marginally negative.
Uncertain	Sources are not sufficient to meet the minimum funding requirement of the downside scenario. The construction phase SACP for uncertain is generally not higher than 'b-'.	Sources are not sufficient to meet 101% of the minimum funding requirement of the downside scenario. The construction phase SACP for uncertain is generally not higher than 'b-'.

Note: Sources that have conditions on their use are only included where the conditionality means they can be used to complete construction. In jurisdictions with a country risk assessment of 4, additional funding cushion is required net of mitigants. In jurisdictions with a country risk assessment of 5 or 6, we will develop a country-specific construction downside scenario analysis because the country risk factors that impact construction are expected to be more predictable.



Financial Risk Adjustment: Preliminary CPBA

Financial Risk Adjustment	
How we express our analytical opinion (rankings and qualifiers)	Impact on the construction phase business assessment by a maximum*
Financial risk adjustment: Funding	adequacy (uses of funds) (see table 12)
Neutral	No change
Marginally negative	-1 notch
Negative	-2 to -3 notches
Insufficient	Generally not assessed higher than 'b-' and at least minus 2-3 notches
Financial risk adjustment: Constru	ction funding (source of funds) (see table 14)
Neutral	No change
Marginally negative	-1 notch
Negative	-2 to -3 notches
Uncertain	Generally not assessed higher than 'b-' and at least minus 2-3 notches

Note: Not generally rated higher than 'b-', then 'CCC' criteria applies (see "Criteria For Assigning 'CCC+', 'CCC', 'CCC-', And 'CC' Ratings," published Oct. 1, 2012). *The total impact on the construction phase business assessment is the sum of the funding adequacy and construction funding impacts. §Three notches are applied when the total funding or financing is closer to the base case than the downside case. In contrast, two notches would mean the funding and financing are less than the total downside but not significantly below that scenario.





Counterparty Adjustment & Others



Is the contractor counterparty replaceable or irreplaceable?

Table 3. Maximum Contract CDA For A Replaceable Construction Counterparty (Project Finance Construction and Operations Counterparty Methodology)

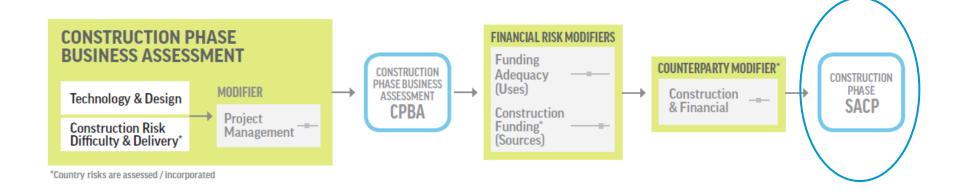
	Maximum effect to CDA on construction counterparty Type of construction		
Credit enhancement provided	Simple-to-moderately complex building	Civil or heavy engineering	
No credit enhancement	Builder's ICR or credit estimate	Builder's ICR or credit estimate	
Credit enhancement covers costs sufficient to cover replacement of main contractor	+2 notches	+1 notches	
Credit enhancement covers cost to replace main contractor and a minor subcontractor	+4 notches	+2 notches	
Credit enhancement covers costs sufficient to cover replacement of main contractor and a major subcontractor	+5 notches	+3 notches	
Credit enhancement covers 1.5x costs to replacement of main contractor and a major subcontractor	+6 notches (two categories)	+4 notches	

^{*}Industrial and more complex construction types do not qualify as replaceable. CDA—Counterparty Dependency Assessment. ICR—Issuer Credit Rating.



Construction Phase Stand Alone Credit Profile SACP

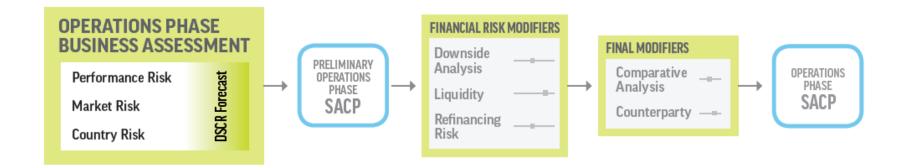
CP SACP = CPBA + or – Financial & Counterparty modifiers







Operations Phase Stand Alone Credit Profile





Operations Risk Profile: Performance Risk

Scored 1 (best) to 10 (highest risk)

Guidance On Asset Class Operations Stability Assessment Asset Class Operations Attributes Stability Assessment Very simple operating profile; typical building and maintenance 1-2 facilities: e.g., schools, hospitals, roads. More challenging building and maintenance facilities: e.g., large 3-4 span bridges, ports, pipelines. Moderately complex mechanical or electrical engineering based 5-6 assets: e.g., most power plants, LNG. Highly complex / specialized mechanical or electrical 7-8 engineering based assets: e.g., complex chemical plants, nuclear power plants. 9-10 Unusually complex assets; high risk of breakdown.



Operations Risk Profile: Performance Risk

Project-Specific Contractual Terms And Risk Attributes				
Performance redundancies	Tangibly above or below industry standard redundancy levels?			
Operating Leverage	Usually neutral, but could be positive / negative if materially different than peers.			
O&M management	Reflects our view of whether O&M risk is materially different than the asset class.			
Technological performance	Could technology issues cause a higher level of operational breakdowns?			
Other operational risk factors	Anything else.			



Operations Risk Profile: Performance Risk

Most commonly, a neutral factor.

Performance Standards				
Assessment	Characteristics	Adjustment to operations stability assessment		
Above Average	Project's operational performance in our base case exceeds minimum contract standards with a substantial cushion that is not typical in its industry. This is unusual.	-1		
Average	The most typical assessment: Project's operational performance in our base case exceeds minimum contract standards, and the contract terms are such that a loss of revenue for failing to meet a performance requirement is proportional to the level of underperformance requirement.	None		
Below Average	Project's operational performance in our base case only modestly exceeds minimum contract standards, and contract terms are such that the loss of revenue for failing to meet a performance requirement are proportionally much greater that the level of underperformance requirement.	+1		
Weak	Project is expected to fall short of minimum contracts standards and incur material performance penalties and even have the contract terminated. We expect that this would occur rarely.	OPBA of 11 0r 12		



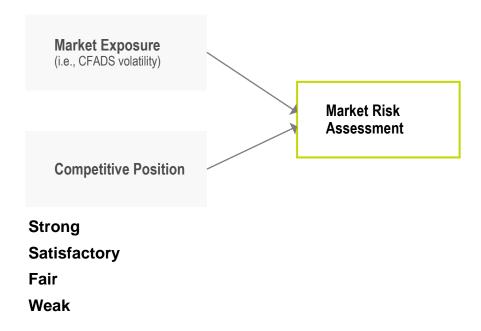
Operations Risk Profile: Performance Risk

Only applies in relevant cases: e.g., renewable projects, mining, etc.

Resource And Raw Material Risk				
Assessment	Characteristics	Adjustment to operations stability assessment		
Minimal or N/A	Resource and raw materials expected to be available at all times.	No change		
Modest	Resource and raw materials availability and quality are expected to be high.	+1		
Moderate	Resource and raw materials may not be available as expected in terms of volume and quality at all times. Example: Renewable energy projects where there is only a moderate level of confidence in resource estimation.	+2 or +3		
High	Resource and raw materials supply is uncertain, based on the lack of contracts, weak supply infrastructure, or exposure to force majeure conditions.	At least 4, and usually resulting in an OPBA of 11 or 12		



Operations Risk Profile: Market Risk





Operations Risk Profile: Market Exposure

The Market Downside Case is commensurate with a "BBB" stress per S&P's ratings definitions.

Calibrated to be a 1 in 20 year (or P95) event.

Market Exposure Assessment				
Projected decline in CFADS from the base case to a market downside case*	Assessment	Typical Examples		
< 5 %	Not applicable	Availability Projects		
5 – 15 %	Very low	Mature operating toll roads with traffic risk; projects with predominantly contracted revenues but a modest level of price or volume exposure		
15 – 30 %	Low	Certain volume-sensitive stadiums and hotels		
30 – 50 %	Moderate	Merchant power plants or gas processing plants with contracts covering a portion of expected product sales		
50 % <	High	Projects with full exposure to volatile commodity prices, such as mines, oil refiners, and merchant power plants in volatile markets (like the U.S.)		



Operations Risk Profile: Competitive Position

Weak

- Disadvantaged relative to competitors
- Weak profitability
- Cost position is broadly in line with commodity prices

Fair

- Somewhat weak comparative advantages
- Below average profitability
- Do not enjoy high barriers to entry

Satisfactory

- Above-average profitability
- Second-quartile cost position
- Advantaged geographic position

Strong

- Superior advantage over competitors
- First-quartile cost position
- Highly favorable geographic location



Operations Risk Profile: Country Risk



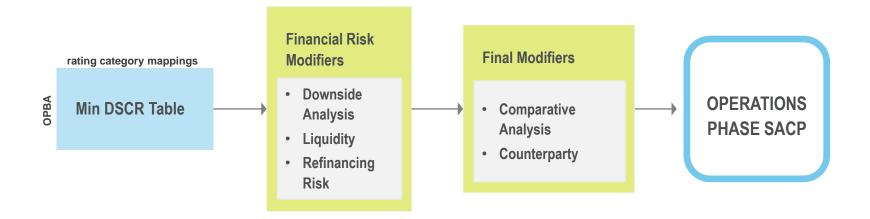
Performance Risk & Market Risk are combined into a Preliminary Operations Phase Business Assessment (OPBA).

We then overlay Country Risk* to arrive at the Final OPBA. Country Risk only has an impact when the country risk assessment if 4 or worse.

In project financing, we also consider whether traditional country risk considerations may be mitigated (e.g., exporting all products overseas and not having exposure to the city's banking system).



Financial Considerations And Arriving At The Operations SACP





Operations Risk Profile: Preliminary Operations Phase SACP

Adjustments to the Preliminary Operations Phase SACP are made for

- Atypical debt structures
- One-time lows
- Average DSCRs differing from minimums

Preliminary Operations Phase SACP Outcome Displayed in Column Headers (Minimum DSCR Ranges Shown in the Cells)*

	aa	a	bbb	bb	b
ОРВА					
1 – 2	> 1.75	1.75 – 1.20	1.20 – 1.10	<1.10**	<1.10**
3 – 4	n/a	> 1.40	1.40 – 1.20	1.20 – 1.10	< 1.10
5 – 6	n/a	> 2.00	2.00 – 1.40	1.40 – 1.20	< 1.20
7 – 8	n/a	> 2.50	2.50 – 1.75	1.75 – 1.40	< 1.40
9 – 10	n/a	> 5.00	5.00 – 2.50	2.50 – 1.50	< 1.50
11 – 12	n/a	n/a	n/a	> 3.00x	< 3.00

^{*} DSCR ranges include values at the lower but not upper bound. As an example, for a range of 1.20x-1.10x, a value of 1.20x is excluded while a value of 1.10x is included.

^{**} In determining the outcome in these cells, the key factors are typically the forecasted minimum DSCR, as well as relative breakeven performance and liquidity levels.



Operations Risk Profile: Financial Risk Modifiers

We run a single Downside
Case – commensurate
with 1 in 20 or "BBB"
stress conditions. The
likelihood of the project
surviving maps to the
Downside Case results.

The Downside case encompasses market, operational, and macroeconomic risks.

Downside Case Expectations			
Expectations for adjusted operations phase SACP category	Performance expectations in the Downside Case		
aa	Exceptional debt service cushions		
а	Substantial debt service cushions		
bbb	Survives at least 5 years of downside conditions		
bb	Limited confidence in surviving a 5-year downside		
b	Likely to deplete liquidity quickly		



Operations Risk Profile: Financial Risk Modifiers

Neutral or Less than Adequate

If Less than Adequate, then a bb+ cap applies, usually because

- Project lacks industry-standard reserves
- There is an upcoming near-term refinancing



Example of a bullet maturity at year 15

Year 1

A LTA liquidity Assessment at this point if bond not refinanced.

Year 1

Bullet Maturity



Operations Risk Profile: Financial Risk Modifiers

General Approach: assume debt is refinanced, and look at DSCRs until end of life



Downside Case will also incorporate interest rate and credit spread risk, which can be significant

Refinance Risk Ratings Caps

Stability of Cash flows					
	High (OPBA 1-4)	Medium (OPBA 5-8)	Low (OPBA 9-12)		
Asset Coverage (PLCR)					
High (>3x)	None	None	None		
Medium (1.5x to 3.0x)	None	None	bb+ cap		
Low (1.1x to 1.5x)	None	None	bb+ cap		
Very Low (< 1.1x)	bb+ cap	b+ cap	b- cap		



Operations Risk Profile: Financial Risk Modifiers

Preliminary Operations Phase SACP Outcome Displayed in Column Headers (Minimum DSCR Ranges Shown in the Cells)*					
	aa	а	bbb	bb	b
ОРВА					
1 – 2	> 1.75	1.75 – 1.20	1.20 – 1.10	<1.10**	<1.10**
3 – 4	n/a	> 1.40	1.40 – 1.20	1.20 – 1.10	< 1.10
5 – 6	n/a	> 2.00	2.00 – 1.40	1.40 – 1.20	< 1.20
7 – 8	n/a	> 2.50	2.50 – 1.75	1.75 – 1.40	< 1.40
9 – 10	n/a	> 5.00	5.00 – 2.50	2.50 – 1.50	< 1.50
11 – 12	n/a	n/a	n/a	> 3.00x	< 3.00

- We then calculate the forecasted DSCR from year seven through year 22 (three years prior to the estimated end of the project's life). In the post-refinance period, the minimum DSCR is 1.5x.
- For purposes of the DSCR we use
 1.5x. Which implies 'bbb-'

- If a project has a 5 OPBA and has a 25year estimated life and is initially financed with a seven-year term loan.
 During the forecasted seven-year period, the minimum DSCR is 2x.
- Which implies a 'bbb+'

Preliminary Operations Phase SACP Outcome Displayed in Column Headers (Minimum DSCR Ranges Shown in the Cells)*

	aa	а	bbb	bb	b
ОРВА					
1 – 2	> 1.75	1.75 – 1.20	1.20 – 1.10	<1.10**	<1.10**
3 – 4	n/a	> 1.40	1.40 – 1.20	1.20 – 1.10	< 1.10
5 – 6	n/a	> 2.00	2.00 - 1.40	1.40 – 1.20	< 1.20
7 – 8	n/a	> 2.50	2.50 – 1.75	1.75 – 1.40	< 1.40
9 – 10	n/a	> 5.00	5.00 – 2.50	2.50 – 1.50	< 1.50
11 – 12	n/a	n/a	n/a	> 3.00x	< 3.00



Operations Risk Profile: Final Steps

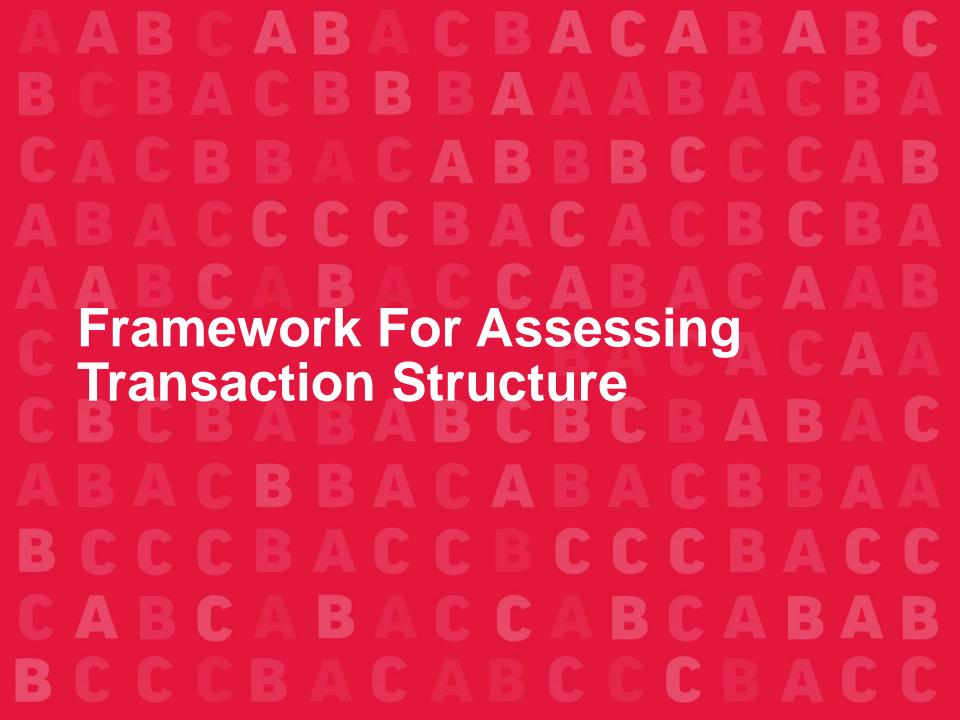
+ / - 1 notch based on a holistic view of the project

Comparative Analysis

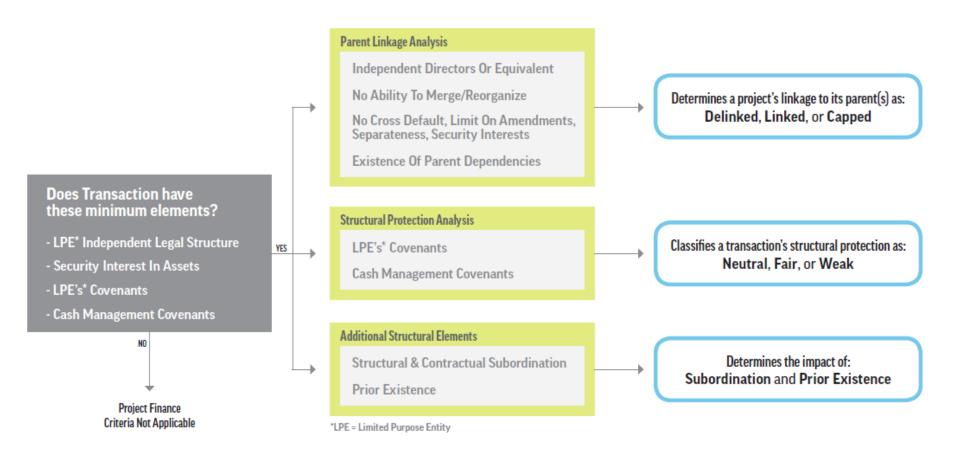
Counterparty

Ensures that a contract can only improve a project's rating if the counterparty rating is sufficiently high





Framework For Assessing Transaction Structure



A Multi-Step Approach



Transaction Structure: Classification of Structural Protections

We classify the project's structural protection package as neutral, fair, or weak depending on the assessment of the LPE's covenants and the cash management covenants

If we assess fewer than two of the covenants as neutral, then we would not rate the transaction under these proposed criteria

Structural Protection Analysis					
Neutral	All the covenants are neutral				
Fair	 At least four of the covenants are neutral and cash flow protection and waterfall is one of the four. 				
Weak	At least two covenants are neutral				



Transaction Structure: Determining The Project SACP

Determining The Project SACP

-- Structural Protection --

Linkage to Parent	Neutral	Fair	Weak
De-Linked	The project SACP is not modified	The project SACP is modified to be equal to the project SACP minus 1 notch	The project SACP is modified to be equal to the project SACP minus two notches
Linked	The project SACP is modified to be equal to the lower of: 1) Project SACP, or 2) Parent(s)' creditworthiness* plus three notches	The project SACP is modified to be equal to the lower of: 1) Project SACP minus one notch, or 2) Parent(s)' creditworthiness plus three notches	The project SACP is modified to be equal to the lower of: 1) Project SACP minus two notches or 2) Parent(s)' creditworthiness plus three notches
Capped	The project SACP is modified to be equal to the lower of: 1) Project SACP, or 2) Parent(s)' creditworthiness	The project SACP is modified to be equal to the lower of: 1) Project SACP minus one notch, or 2) Parent(s)' creditworthiness	The project SACP is modified to be equal to the lower of: 1) Project SACP minus two notches or 2) Parent(s)' creditworthiness

^{*} Parent(s)' creditworthiness is based on Standard & Poor's issuer credit rating on the parent, or, if the parent is not rated, on Standard & Poor's credit estimate on the parent.







Thank You

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