

Impact Analysis

Risks & Opportunities

Experience the Future. **NOW.**



Climate Risks & Opportunities

Model

Revenue	\$
Revenue	6,607,000,000

Risk Identifier	Type of Risk	Potential Financial Impact	Financial Impact / Revenue (A)	(% Impact)	Risk Measure (Financial Impact)	Risk Impact Status	Likelihood	Avg. Likelihood % (B)	Exposure (A*B)	Magnitude of Impact
Risk 1	Acute physical	\$ 1,269,910.41	0.0192%	Minor	Minor	Minor	Very likely	95.00%	0.0183%	Low
Risk 2	Emerging regulation	\$ 3,754,372.58	0.0568%	Minor	Moderate	Minor	Likely	83.00%	0.0472%	Low
Risk 3	Market	\$ 23,231,900.0 0	0.3516%	Moderate	Material	Moderate	Likely	83.00%	0.2918%	Medium-low

Matrices

	MATRIX 1: RISK IMPACT						
		Low			→ High		
Low	CASE 1	Minor	Moderate	Significant	Material		
	Minor	Minor	Minor	Minor	Minor		
1	Moderate	Minor	Moderate	Moderate	Moderate		
•	Significant	Minor	Moderate	Significant	Significant		
High	Material	Minor	Moderate	Significant	Material		

	MATRIX 2: RISK SEVERITY								
		Low —							
	PROBABILITY IMPACT	0.20%	0.40%	0.60%	0.80%	1.00%			
Low	0.50%	0.00%	0.00%	0.00%	0.00%	0.01%			
	5.00%	0.01%	0.02%	0.03%	0.04%	0.05%			
	16.50%	0.03%	0.07%	0.10%	0.13%	0.17%			
	49.50%	0.10%	0.20%	0.30%	0.40%	0.50%			
	75.00%	0.15%	0.30%	0.45%	0.60%	0.75%			
	83.00%	0.17%	0.33%	0.50%	0.66%	0.83%			
*	95.00%	0.19%	0.38%	0.57%	0.76%	0.95%			
High	99.50%	0.20%	0.40%	0.60%	0.80%	1.00%			

Legends

LEGEND 1: RISK IMPACT					
Range	Level				
0.75% - 1.00%	Material				
0.50% - 0.75%	Significant				
0.25% - 0.50%	Moderate				
0% - 0.25%	Minor				

LEGEND 2	2: LIKELIHOOD
Range	Likelihood
99%-100%	Virtually certain
90%-100%	Very likely
66%-100%	Likely
50%-100%	More likely than not
33%-66%	About as likely as not
0%-33%	Unlikely
0%-10%	Very unlikely
0-1%	Exceptionally unlikely

LEGEND 3: SEVERITY					
Range	Level				
1.00%	High				
0.80%	Medium-high				
0.60%	Medium				
0.40%	Medium-low				
0.20%	Low				

Risk Indicators

Material \geq 0.75% or USD 10 million on revenue, whichever is lower Significant > 0.50% but \leq 75% or USD 7.5 million on revenue, whichever is lower Moderate > 0.25% but \leq 50% or USD 5 million on revenue, whichever is lower Minor \leq 0.25% or < USD 2.5 million on revenue, whichever is lower

Steps

- Step 1: The risks are categorized into various types on the basis of their occurence, i.e., Acute Physical, Regulatory etc.
- **Step 2:** The potential financial impact from the risk is then, calculated based on company metrics.
- Step 3: The metric (Financial Impact / Revenue) shows the % of financial impact on the company's revenue arising out of the risk.
- **Step 4:** Now, Risk Measure identifies the impact of risk based on 2 cases, i.e. the % impact of risk and the actual financial impact of risk on company's revenue, whichever is lower:
 - Risk Measure (% Impact) This signifies the avg. risk appetite of the organization w.r.t the provided risk in terms of % financial impact on its revenue.
 - Risk Measure (Financial Impact) This signifies the avg. threshold of a particular risk's financial impact value.
- **Step 5:** Based on the value of Risk measures, the Magnitude of Impact can be deduced through 'Matrix 1' which will decide the potential impact of the risk.
- **Step 6:** Based on the guidance provided by CDP on Climate Change, the risks are categorized on the basis of the likelihood of occurence for an organization, i.e., "Likely", "Very Likely" etc. along with their range of probabilities. An average of the range of probabilities is then, deduced to obtain the possibility of the likelihood of occurence of the risk.
- **Step 7:** Risk Exposure is a product of the Average likelihood of occurence and the % Impact on Revenue (Financial Impact/Revenue). Additionally, 'Matrix 2' shows a range of corresponding severities of these risks.
- **Step 8:** The severity of the risks is decided, based on historical analysis, to measure the consequences or impact of the same on the organization, i.e., "High", "Medium-high" etc. as can be seen from the legend 'Severity'.

Illustration

• If the annual revenue of an organization is USD 5,997.80 million and the potential financial impact from a risk is USD 0.13 million, then, the proportion of potential financial impact with respect to the annual revenue is 0.0022%

where, p = percentage loss on revenue

- On the basis of 'Risk Indicators', the Potential financial figure can be used to deduce the Risk Measure as well.
- Now, if the likelihood of occurence of this risk is "Very Likely" and it's corresponding probability of occurence is 95%, then, the Risk Measure can be calculated as

where, p = percentage loss on revenue

- We will compare this value to the Risk Severity matrix and categorize the risk in accordance with the Risk Indicators which states that 0.0021% is "Low risk" and is highlighted with the corresponding color.
- Similarly, this analysis may be performed for Potential financial impact on the Gross Profit or any other financial metrics of an organization.

Model

Dovonuo	\$
Revenue	6,607,000,000

Identifier	Type of Opportunity	Potential Financial impact		Opportunity Measure (% Impact)		Opportunity Impact Status	Likelihood	Avg. Likelihood % (B)	Realization (A*B)	Magnitude of Impact
Opp1	Energy source	\$ 692,364.18	0.0105%	Minor	Minor	Minor	Likely	83.00%	0.0087%	Low
Opp2	Products and services	ς .		Minor	Minor	Minor	Likely	83.00%	0.0207%	Low
ОррЗ	Resilience	\$ 4,000,000.0 0	0.0605%	Minor	Moderate	Moderate	Likely	83.00%	0.0502%	Low

Matrices

	MATRIX 1: OPPORTUNITY IMPACT						
		Low -		High			
Low	CASE 1	Minor	Moderate	Significant	Material		
	Minor	Minor	Moderate	Significant	Material		
	Moderate Moderate		Moderate	Significant	Material		
•	Significant	Significant	Significant	Significant	Material		
High	Material	Material	Material	Material	Material		

	MATRIX 2: OPPORTUNITY							
		Low				High		
	PROBABILITY	0.20%	0.40%	0.60%	0.80%	1.00%		
Low	0.50%	0.00%	0.00%	0.00%	0.00%	0.01%		
	5.00%	0.01%	0.02%	0.03%	0.04%	0.05%		
	16.50%	0.03%	0.07%	0.10%	0.13%	0.17%		
	49.50%	0.10%	0.20%	0.30%	0.40%	0.50%		
	75.00%	0.15%	0.30%	0.45%	0.60%	0.75%		
Ţ	83.00%	0.17%	0.33%	0.50%	0.66%	0.83%		
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High	99.50%	0.20%	0.40%	0.60%	0.80%	1.00%		

Legends

LEGEND 1: OPPORTUNITY IMPACT					
Range	Impact	Level			
0.75% - 1.00%	Material				
0.50% - 0.75%	Significant				
0.25% - 0.50%	Moderate				
0% - 0.25%	Minor				

LEGEND 2	: LIKELIHOOD
Range	Likelihood
99%-100%	Virtually certain
90%-100%	Very likely
66%-100%	Likely
50%-100%	More likely than not
33%-66%	About as likely as not
0%-33%	Unlikely
0%-10%	Very unlikely
0-1%	Exceptionally unlikely

LEGEND 3: OPPORTUNITY						
Range	Level					
1.00%	High					
0.80%	Medium-high					
0.60%	Medium					
0.40%	Medium-low					
0.20%	Low					

Opportunity Indicators

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Material ≤ 0.25% or < USD 2.5 million on revenue, whichever is higher

Steps

- **Step 1:** The opportunities are categorized into various types on the basis of their occurence, i.e., Efficiency, Resilience etc.
- Step 2: The potential financial impact from the opportunity is then, calculated based on company metrics.
- **Step 3:** The metric (Financial Impact / Revenue) shows the % of financial impact on the company's revenue arising out of the opportunity.
- **Step 4:** Now, Opportunity Measure identifies the impact of the opportunity based on 2 cases, i.e. the % impact of opportunity and the actual financial impact of opportunity on the company's revenue, whichever is higher:
 - Opportunity Measure (% Impact) This signifies the avg. opportunity appetite of the organization w.r.t the provided opportunity in terms of % financial impact on its revenue.
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- **Step 5:** Based on the value of Opportunity measures, the Magnitude of Impact can be deduced through 'Matrix 1' which will decide the potential impact of the opportunity.
- **Step 6:** The opportunities are categorized on the basis of the likelihood of occurence for the organization, i.e., "Likely", "Very Likely" etc. along with their range of probabilities. An average of the range of probabilities is then, deduced to obtain a possibility of likelihood of realization of the opportunity.
- **Step 7:** Opportunity Realization is a product of the Average likelihood of occurence and the % Impact on Revenue (Financial Impact/Revenue). Additionally, 'Matrix 2' shows a range of corresponding severities of these opportunities.
- **Step 8:** The severity of the opportunities is decided, based on historical analysis, to measure the consequences or impact of the same on the organization, i.e., "High", "Medium-high" etc. as can be seen from the legend 'Severity'.

Illustration

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where, p = percentage gain on revenue

- On the basis of 'Opportunity Indicators', the Potential financial figure can be used to deduce the Opportunity Measure as well.
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where, p = percentage gain on revenue

- We will compare this value to the Opportunity matrix and categorize the opportunities in accordance with the Opportunity Indicators which states that 0.0021% is a Low Opportunity and is highlighted with the corresponding color.
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Water Risks & Opportunities

Model

Revenue	\$
Revenue	6,607,000,000

	DIRECT OPERATIONS										
Country /Area	River Basin	Type of Risk	Potential Financial Impact	Financial Impact / Revenue (A)	Risk Measure (% Impact)	Risk Measure (Financial Impact)	Risk Impact Status	Likelihood	Avg. Likelihood % (B)	Exposure (A*B)	Magnitude of Impact
India	Ganges - Brahmaput ra	Chronic physical	\$ 194,789.00	0.0029%	Minor	Minor	Minor	Very likely	95.00%	0.0028%	Low
India	Godavari	Chronic physical	\$ 238,248.04	0.0036%	Minor	Minor	Minor	Very likely	95.00%	0.0034%	Low
India	Krishna	Chronic physical	\$ 120,739.43	0.0018%	Minor	Minor	Minor	Very likely	95.00%	0.0017%	Low
India	Cauvery River	Acute physical	\$ 320,256.17	0.0048%	Minor	Minor	Minor	Very likely	95.00%	0.0046%	Low
India	Indus	Chronic physical	\$ 29,284.03	0.0004%	Minor	Minor	Minor	Very likely	95.00%	0.0004%	Low
Mexico	Verde	Acute physical	\$ 28,534.61	0.0004%	Minor	Minor	Minor	Very likely	95.00%	0.0004%	Low

	SUPPLY CHAIN												
Country Area	River Basin	Type of Risk	Potential Financial Impact (Min.)	Potential Financial Impact (Max.)	Potential Financial Impact (Avg.)	Financial Impact / Revenue (A)	Risk Measure (% Impact)	Risk Measure (Financial Impact)	Risk Impact Status	Likelihood	Avg. Likelihood % (B)	Exposure (A*B)	Magnitude of Impact
India	Godavari	Chronic physical	\$ 138,190.52	\$ 276,381.05	\$ 207,285.79	0.0031%	Minor	Minor		Very likely	95.00%	0.0030%	Low

Low

High

Matrices

MATRIX 1: RISK IMPACT								
Low High								
CASE 1	Minor	Moderate	Significant	Material				
Minor	Minor	Minor	Minor	Minor				
Moderate	Minor	Moderate	Moderate	Moderate				
Significant	Minor	Moderate	Significant	Significant				
Material	Minor	Moderate	Significant	Material				

	MATRIX 2: RISK SEVERITY									
		Low —								
	PROBABILITY IMPACT	0.20%	0.40%	0.60%	0.80%	1.00%				
Low	0.50%	0.00%	0.00%	0.00%	0.00%	0.01%				
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	75.00%	0.15%	0.30%	0.45%	0.60%	0.75%				
	83.00%	0.17%	0.33%	0.50%	0.66%	0.83%				
•	95.00%	0.19%	0.38%	0.57%	0.76%	0.95%				
High	99.50%	0.20%	0.40%	0.60%	0.80%	1.00%				

Legends

LEGENI	PACT	
Range	Impact	Level
0.75% - 1.00%	Material	
0.50% - 0.75%	Significant	
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0%-10%	Very unlikely					
0-1%	Exceptionally unlikely					

LE	TY	
Range	Level	
1.00%	High	
0.80%	Medium-high	
0.60%	Medium	
0.40%	Medium-low	
0.20%	Low	

Risk Indicators

Material ≥ 0.75% or USD 10M on revenue, whichever is lower

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Illustration

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where, p = percentage loss on revenue

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Model

Dovemus	\$
Revenue	6,607,000,000

Type of opportunity	Potential financial impact	Financial Impact / Revenue (A)	Opportunity Measure (% Impact)	Opportunity Measure (Financial Impact)	Opportunity Impact Status		Avg. Likelihood % (B)	Realization (A*B)	Magnitude of Impact
Efficiency	\$ 61,265.46	0.0009%	Minor	Minor	Minor	Very likely	95.00%	0.0009%	Low
Efficiency	\$ 358,352.42	0.0054%	Minor	Minor	Minor	Very likely	95.00%	0.0052%	Low
Products and services	\$ 36,509.68	0.0006%	Minor	Minor	Minor	Very likely	95.00%	0.0005%	Low

Matrices

	MATRIX 1: OPPORTUNITY IMPACT					
		High				
Low	CASE 1	Minor	Moderate	Significant	Material	
	Minor	Minor	Moderate	Significant	Material	
↓	Moderate	Moderate	Moderate	Significant	Material	
	Significant	Significant	Significant	Significant	Material	
High	Material	Material	Material	Material	Material	

	MATRIX 2: OPPORTUNITY					
	Low —			→ High		
	PROBABILITY	0.20%	0.40%	0.60%	0.80%	1.00%
Low	0.50%	0.00%	0.00%	0.00%	0.00%	0.01%
	5.00%	0.01%	0.02%	0.03%	0.04%	0.05%
	16.50%	0.03%	0.07%	0.10%	0.13%	0.17%
	49.50%	0.10%	0.20%	0.30%	0.40%	0.50%
	75.00%	0.15%	0.30%	0.45%	0.60%	0.75%
	83.00%	0.17%	0.33%	0.50%	0.66%	0.83%
	95.00%	0.19%	0.38%	0.57%	0.76%	0.95%
High	99.50%	0.20%	0.40%	0.60%	0.80%	1.00%

Legends

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Range	Impact	Level		
0.75% - 1.00%	Material			
0.50% - 0.75%	Significant			
0.25% - 0.50%	Moderate			
0% - 0.25%	Minor			

LEGEND 2: LIKELIHOOD		
Range	Likelihood	
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Range	Impact	Level	
1.00%	High		
0.80%	Medium-high		
0.60%	Medium		
0.40%	Medium-low		
0.20%	Low		

Opportunity Indicators

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Thank You

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