



2º Workshop Capital Natural

São Paulo, 15/12/2014

Ferramentas
WWF

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Finanças para
Sustentabilidade WWF



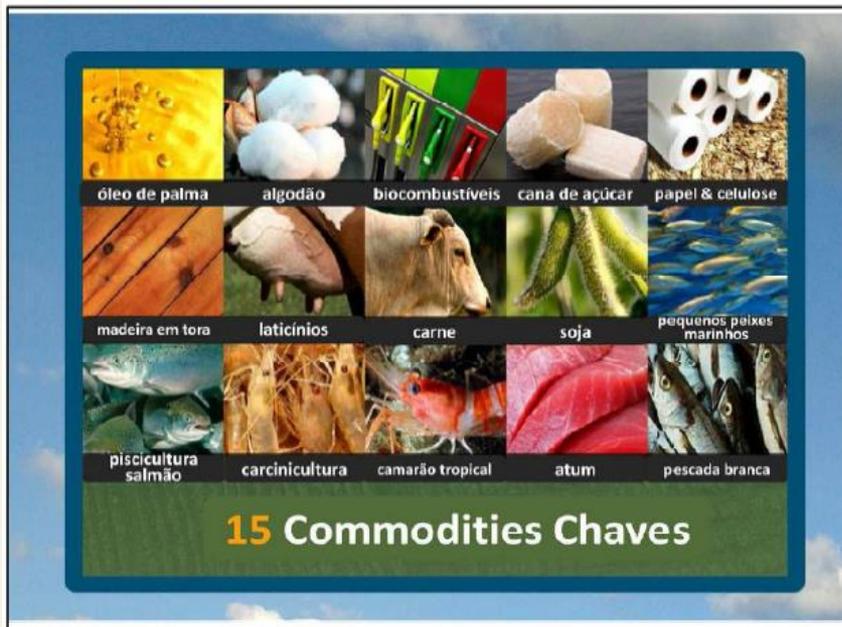
Pauta

- ❖ 2050 Criteria
- ❖ Guia de Integração ESG em Instituições Financeiras
- ❖ Water Risk Filter: Ferramenta de Risco Hídrico



2050 Criteria

Guia para investimento responsável em commodities agrícolas, florestais e marinhas



- ❖ > 50 parcerias industriais
- ❖ Parcerias com instituições financeiras



Visite

www.panda.org/2050criteria



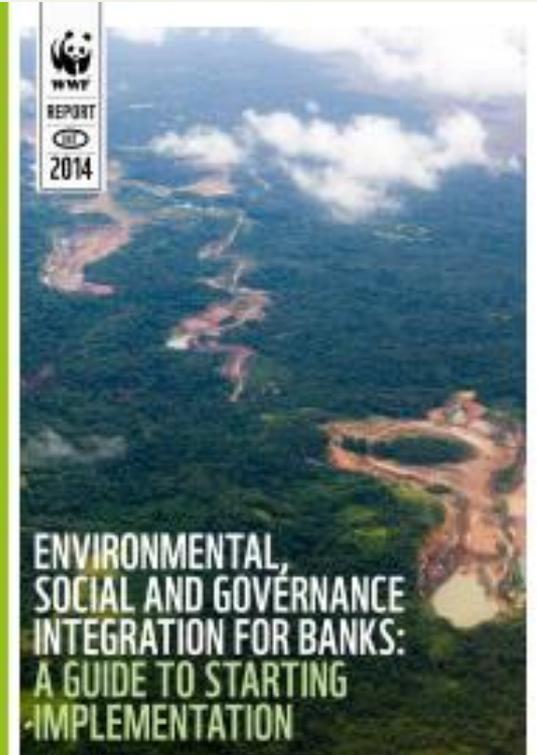
WWF Guia ESG para bancos: uma abordagem prática

Integração ESG no modelo de negócio dos bancos:

- Abordagem estruturada e sistemática (lógica e seqüencial)
- Processo contínuo, em evolução, que exige tempo e ajustes

Guia WWF ESG: orientações práticas para os bancos

- Como **entender e avaliar a exposição** do seu banco para riscos ESG
- Que medidas por em prática para **gerenciar e monitorar riscos**
- Como aproveitar as questões de ESG para a **criação de valor e de crescimento estratégico?**

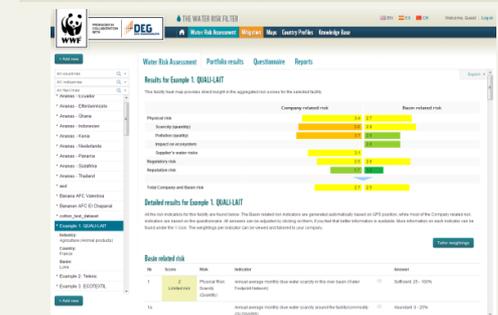




Water Risk Filter - Ferramenta de Risco Hídrico

- Ferramenta on line, navegação intuitiva, visual e gratuita
- Monitoramento de risco e estratégia de mitigação
- 193 países mapeados para análise local
- >200 opções de mitigação e 85 estudos de caso
- 140+ commodities agrícolas: avaliação de risco hídrico
- Forte conexão com Hub AWS e Water Action Hub
- Percebida como a ferramenta de referência para avaliar risco hídrico
 - > 35.000 instalações avaliadas
 - > 30.000 visitantes únicos de > 130 países
 - A maioria dos usuários não têm relação com o WWF

Novo





The Water Risk Filter cobre todos os aspectos relevantes de risco hídrico que pode ter um impacto financeiro

~30 risk indicators

~60 risk indicators

Basin related risk

Company related risk

Physical risk

Scarcity (quantity)

- (Monthly) scarcity
- Groundwater
- Climate change
- Floods
- Droughts

- Importance of and problems with water availability
- Water withdrawals (not consumption!)
- Water reuse/recycling

Pollution (quality)

- 9 pollution indicators

- Pollution by facility (incl. industry averages)
- Treatment requirements
- Quality measurements

Impact on Ecosystem

- Threat to freshwater biodiversity
- Vulnerability of water ecosystems
- Access to safe drinking water
- Access to improved sanitation

- Dependence on hydropower

Supplier's risks

- Water intensity of suppliers
- Water pollution by suppliers

Regulatory risk

- Local / national water strategy
- Sophistication of water regulation
- Enforcement of regulation

- Legal compliance
- Incidents / penalties

Reputational risk

- Local and global media coverage
- Cultural/religious value of water

- Local and global media coverage
- Stakeholder engagement
- Internal governance and monitoring



Basta fornecer a localização para obter resultados para todos os indicadores de risco da bacia relacionada

Risco: Bacia

Risco:

Commodity/Empresa

Eisco Físico

Escassez (quantidade)

- (Monthly)

- Importance of and problems with

‘Automático!’

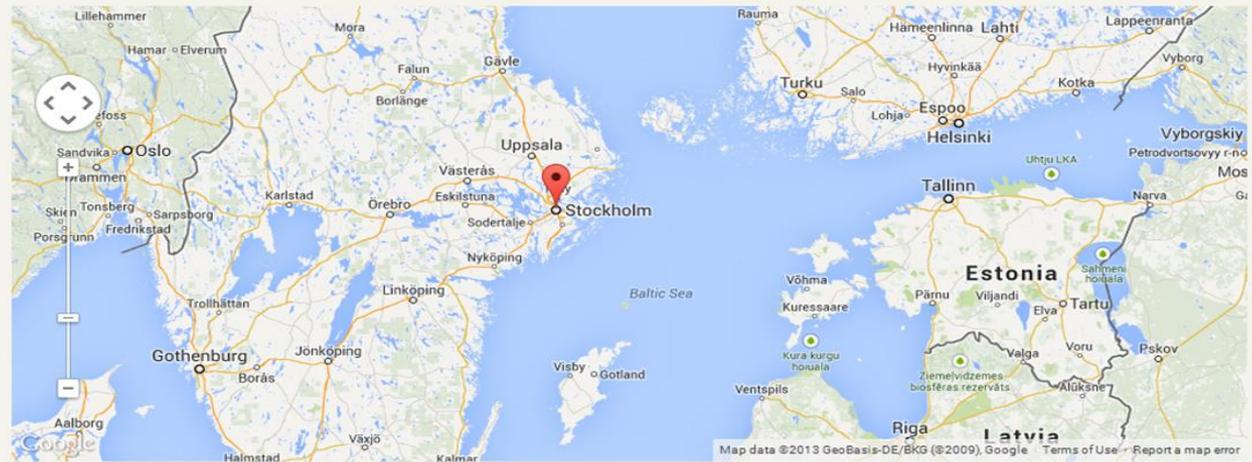
- Basta informar localização
- Upload de vários locais ao mesmo tempo

Poluição (qualidade)

SELECT LOCATION

Stockholm, Sweden

Search



Impacto em Ecossis

Risco de Fornecedo

Risco Regulatório

Risco Reputacional

- Cultural/religious value of water

- Stakeholder engagement
- Internal governance and monitoring



Preencha questionário para obter Risco: Commodity / Empresa

Risco: Bacia

Risco: Commodity / Empresa

Risco Físico

Escassez (quantidade)

- (Monthly) scarcity
- Groundwater
- Climate change
- Floods
- Droughts

Poluição (qualidade)

- 9 pollution indicators

Impacto em Ecossistema

- Threat to freshwater
- Vulnerability of water
- Access to safe drinki
- Access to improved s

Risco do Fornecedor

- Dependence on hydr

Risco Regulatório

- Local / national water
- Sophistication of wat
- Enforcement of regul

Risco Reputacional

- Local and global med
- Cultural/religious value of water

- Importance of
- Items with

Questionnaire Portfolio results Facility results Reports

Company related risk questionnaire

Physical Risk

Scarcity (Quantity)

1. Importance of having sufficient amounts of clean freshwater available for the production/ operational site's operations

Very Important / Vital for operations

2. Problems the company has/had withdrawing/obtaining the required amount of water for its operations

Yes, regularly

2a. If yes, please explain:

3. Total annual amount of freshwater withdrawn either directly from a water source or through the municipal supply (m3/year)

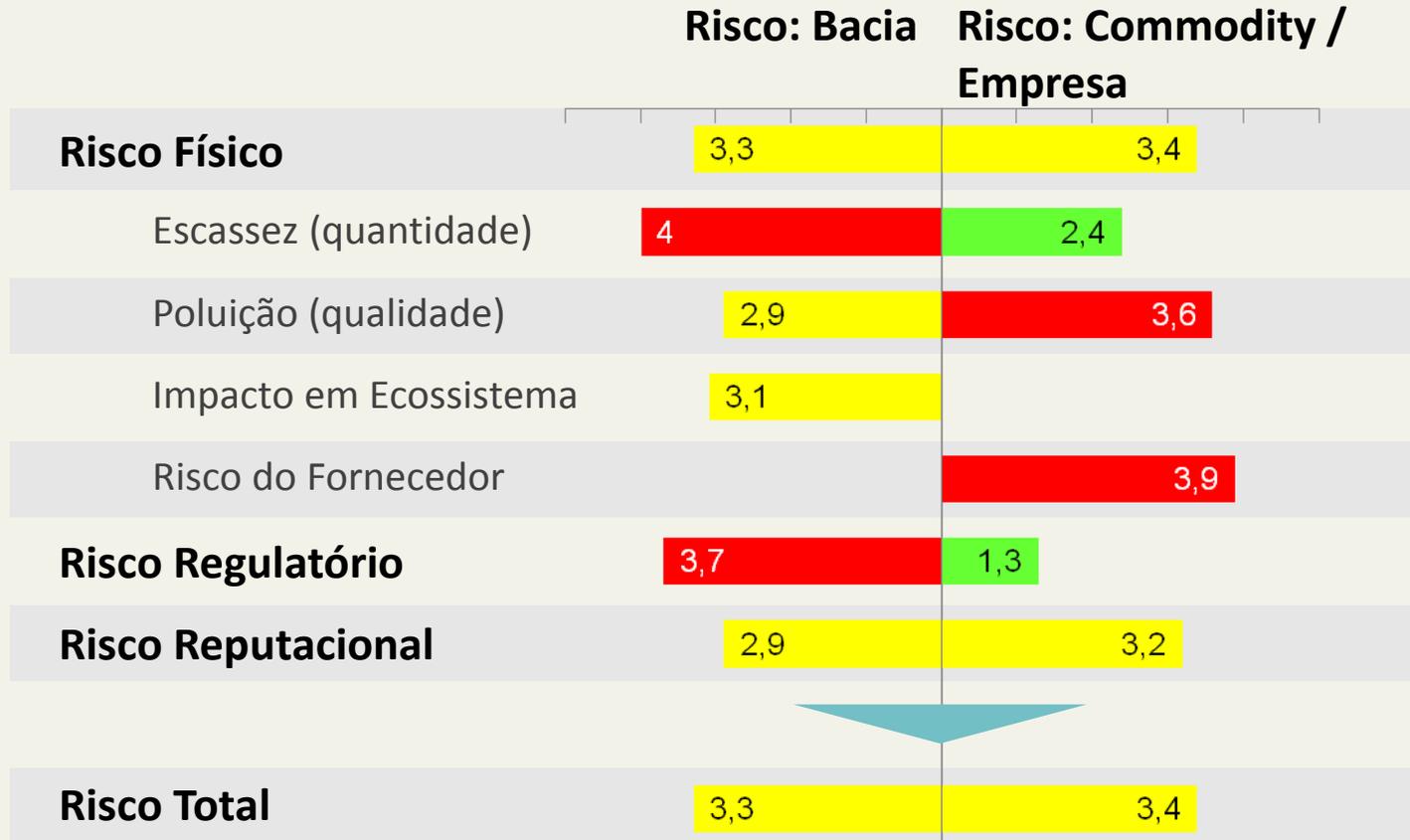
Please indicate the percentage of the total amount of freshwater that your company withdraws for its production/ operational site per water source:

	0	1-10%	11-50%	51-90%	91-100%
3a. Surface (e.g. River/ Lake)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
3b. Ground-water	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3c. Municipal Supply	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3d. Rainwater	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3e. Non-freshwater (e.g. saltwater)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3f. Unknown Source	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- Stakeholder engagement
- Internal governance and monitoring



Mapa de Aquecimento por commodity / planta industrial



Scores variam de 1 (baixo risco) a 5 (alto risco)



Matriz de Portfólios: usuário visualiza indicadores, fontes e explicações

[Tailor weightings](#)

Commodity / Company related risk

Nº	Score	Risk	Risk item	Indicator	Answer
1	3 Some risk	Physical	Scarcity (Quantity)	Importance of having sufficient amounts of clean freshwater available for the production/ operational site's operations	
2	2 Limited risk			Problems the company has/had withdrawing/obtaining the required amount of water for its operations	
3	2 Limited risk			Total annual amount of freshwater withdrawn either directly from a water source or through the municipal supply (m3/year)	
4	3 Some risk	Pollution (Quality)		Percentage of the total amount of withdrawn water that is recycled or reused (used more than once). Maximum answer for this indicator is 100%	
5	4 High risk			Typical level of water pollution caused by this industry	
6	5 Very high risk			Requirement of treatment/ purification of the water the company withdraws before use in operations	

Explicações e link para a fonte

Basin related risk

Nº	Score	Risk	Risk item	Indicator	Explanation
1	3 Some risk	Physical	Scarcity (Quantity)	Annual average monthly water scarcity in this basin	Source: Water Footprint Network (WFN) Explanation: Maximum monthly blue water scarcity value in the year. Blue water scarcity is defined as the ratio of blue water footprint to blue water availability – where the latter is taken as natural runoff minus environmental flow. Blue water resources are surface water and ground water. 1996-2005.
2	5 Very high risk			Number of months per year with water scarcity exceeding 100%	00 - 150%
3	5 Very high risk			Blue water scarcity in the month in which blue water scarcity is the highest in this river basin	Severe: > 200%
4	2 Limited risk	Pollution (Quality)		Forecasted impact of climate change	Vulnerability Index: 2 of 4: Limited impact
5	2 Limited risk			Estimated occurrence of droughts	<10% of the country affected by a severe drought in the last 3 years
6	3 Some risk			Estimated occurrence of floods	Moderate risk of flooding
7	4 High risk			General situation of water pollution around the facility	High risk of surface water contamination

Estes scores têm pesos específicos do setor produtivo / commodity, mas podem ser calibrados



Três Relatórios Automáticos

Três relatórios podem ser obtidos (Word e PDF)

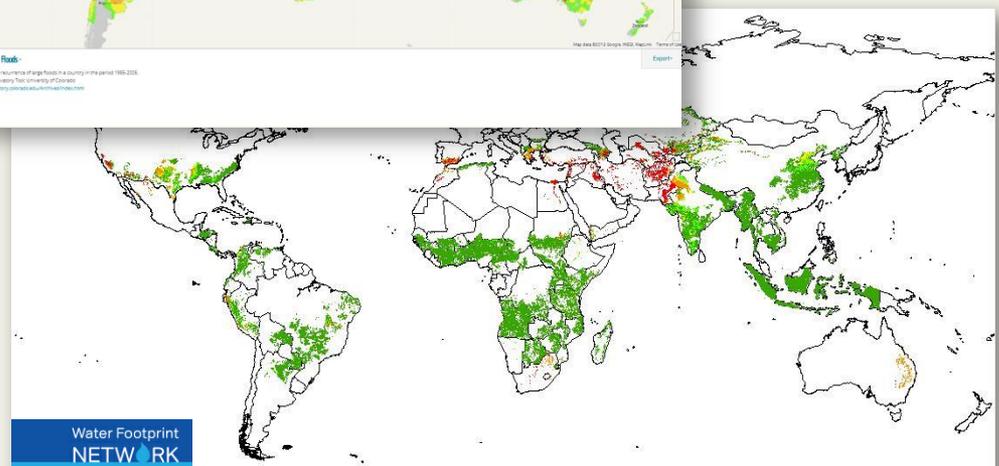
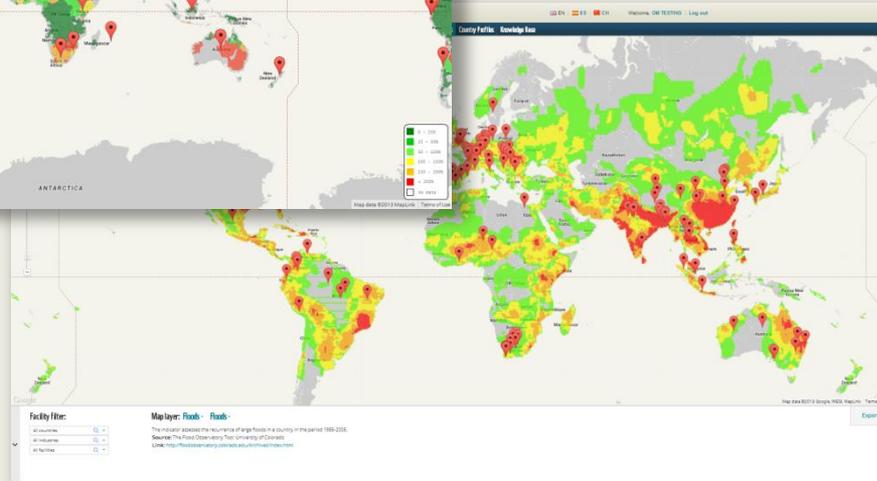
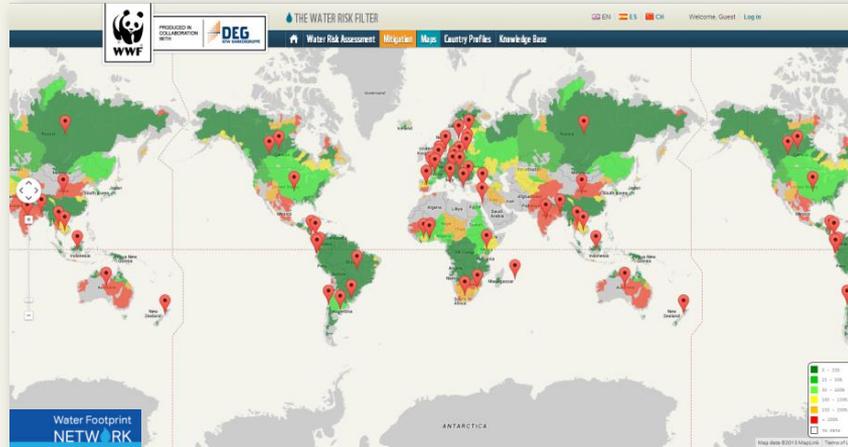
1. Relatório de “**Nível Portfolio**”, com visão geral de todas as instalações avaliadas da empresa, incluindo mapas
2. Relatório de “**Nível commodity / Empresa**”, com descrição detalhada de todas as informações disponíveis de água da instalação, incluindo mapas e respostas fundamentais de mitigação
3. **CDP Report** - WWF trabalhou com CDP para produzir automaticamente um relatório no mesmo formato que o Carbon Disclosure Project Água Questionnaire.

As informações disponíveis no Water Risk Filter preenche > 80% do questionário CDP.

CARBON DISCLOSURE PROJECT



Insira sua localização em uma infinidade de sobreposição de mapas temáticos (escassez, inundações, matérias primas)



Algodão: Pegada hídrica e dependência



>200 respostas de mitigação e 80 estudos de caso – unindo GAP de risco à ação!



WATER RISK FILTER

PRODUCED IN COLLABORATION WITH WWF, DEG, LOW CARBON ECONOMY

Quick View | Full Assessment | Maps | Mitigation | Knowledge Base

EN | SP | Guest | Sign in

Export to: | Print

Mitigation Case Studies

Water recycling at Lafarge's Cauldon Works (UK)

Location

- Lafarge Cement UK, Cauldon Works, Staffordshire, United Kingdom

Sector

- Extractives 3 (Cement, natural gas, other industrial minerals)

Company/Organization

- Lafarge Cement UK

AIM

- Recycle water with a closed loop system and reduce pollution risks

Brief description

Between 2006 and 2008, Lafarge has reduced its abstraction of water from the nearby River Hamps to by nearly 90 per cent, from nearly 200,000 to 15,000 m3 of water. This water saving has been achieved by transforming a former shale quarry at Cauldon Works into a storage lake for recycled water. The lake now forms the 'hub' of the gravity drainage system and a new floating pumps have been installed to pump the water that the works needs for cooling. Additionally, this system has reduced the flood risk to property in nearby Waterhouses Village, as well as pollution risks to the river (as it can be isolated), and it has provided an attractive public amenity and wildlife habitat (particularly for bird species)

Since

- 2006

Learned lessons

- Understanding internal water demand and geological/ topographical features of an area may lead to an optimum solution which brings benefits not only to the company, but also to the community which is related to the factory. Innovative solutions can result in reduced costs (savings and avoided potential risks) for the company

Associated economic savings (annual)

- By changing to this system, Lafarge also saves around 714,000 per year in energy costs and has significantly reduced ongoing maintenance requirements by decreasing the number of pumps by five.



Por que não ?

❖ **Resolução CMN 4.327**

❖ **Crise Hídrica**

Próximos Passos

- Tradução ferramenta para português
- Contínua atualização de base de dados

Visite

www.waterriskfilter.org



Obrigada

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