

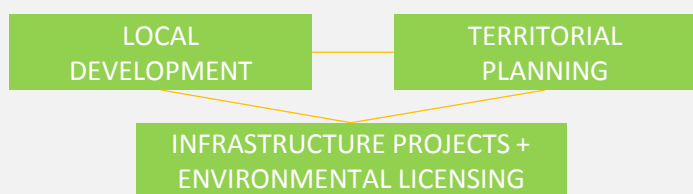
Translating Sustainability Standards and Guidelines into Business Practice

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GUIDING QUESTIONS: How to translate sustainability guidelines/standards into corporate policies and processes? What are the main drivers? What are the opportunities for improvement?

CASE 1 Infrastructure in the Brazilian Amazon

- **Belo Monte Hydroelectric Power Plant:** social control tool for observing compliance of environmental and social licensing



- **Guidelines for Public Policies and Corporate Practices on Sustainable Infrastructure in the Brazilian Amazon:** Self-regulatory and regulatory propositions; Multistakeholder voluntary initiative;

CASE 2 Sustainable Infrastructure in the Energy Sector: The Case of Biogas Plants (Mexico)

SUEMA COMPANY:

- Waste Treatment Plant installed by SUEMA in Mexico:

| | |
|--------------------|------------------------|
| Installed capacity | 50 tons of waste daily |
| Investment | \$2,222,222 USD |

Regulatory challenges in Mexico – adequate infrastructure to transform waste into energy

- Creation of adequate Mexican Official Standards to adapt the regulation to the new technology
- Promotion of public-private partnerships

CASE 3 Sustainable Infrastructure in the Energy Sector: Wind and Solar Energy (China, EU, USA)

How has each region added substantial renewable resources to their generation portfolios?

Increasing Clean Energy and Improving Air Quality (China)

- 2015: over 29GW of new wind and 16 GW new solar capacity installed
- Transmission lines: priority to existing thermal generation

Renewable Portfolio Standards (USA)

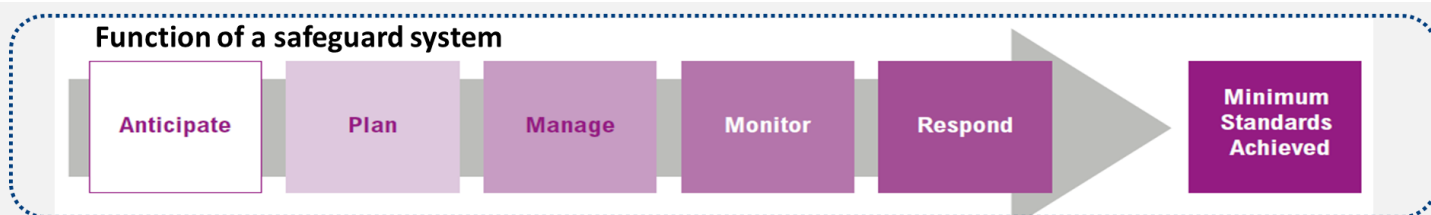
- RPS: 29 states + Columbia + Puerto Rico [California: legislation to increase RPS to 50% by 2030]
- RAP: 10 strategies → grid operators to integrate RE resources

Denmark Wind Integration Project (Agora Energiewende)

3 main challenges - Danish government:

- Ensuring that Wind production had value during windy periods
- Ensuring system reliability during periods of little or no wind
- System ability and capacity to balance wind production across transmission border areas

CASE 4 Sustainable Infrastructure and Policy Banks' Investments (China)



Factors affecting E&S framework evolution in Chinese NDBs



PRELIMINARY FINDINGS BASED ON 4 CASES - GUIDELINES AND STANDARDS FOR SUSTAINABLE INFRASTRUCTURE:

- 1 Fundamental for BAU AND Green Economy
- 2 Comparative case studies: contributions for improving overseas investments practices
- 3 Drivers: regulatory, market and voluntary initiatives
- 4 Top down + multistakeholder and bottom up approaches