



Compliance and Enforcement of EsIA: Requirements, Commitments and Related Permits



Moderator: Tanya Fraizer, IAIA

Facilitator: Cheryl Wasserman, Environmental Governance Institute International,

IAIA Section Chair, Governance and Implementation Systems

IAIA's Webinar Series

- Effective Project Level Grievance Mechanisms in a Changing Landscape: An Interactive Tool
- Understanding Impact Assessment
- Species Environmental Assessment Guideline
- The IAIA Guide on Air Quality Impact Assessments
- Microplastics in Estuarine and Coastal Ecosystmes
- Disastery, Conflict and Impact Assessment: Making This Better Rather than Worse
- And many more...

Visit http://www.iaia.org/webinars.php

@IAIAnetwork

#iaiawebinar

Housekeeping

Recording?

√

Questions?

√

Slides available?





IAIA Governance and Implementation Systems Section Goals and Plan of Action

Themes:

- Reform of EsIA implementation systems for efficiency and effectiveness
- Compliance with and enforcement of EsIA requirements, commitments, permits

Webinars

- Environmental Permit and Review Reforms: El Salvador, March 2018
- Compliance and Enforcement of EsIA –with the International Network for Environmental Compliance and Enforcement (INECE), June 2020
- Cross hosting with INECE and other networks

Compilation of best practices

 Working draft on Compliance and Enforcement of EsIA Best Practices

Host Conference Sessions --- Plans for Seville 2020 to 2021



Relating EsIA process to compliance and enforcement framework

EsIA Process

- The requirement: Defining levels of environmental review: Categorization
 Permits, licenses, approved
 Environmental Management Plans
 for low and moderate impact actions.
- Scoping
- Terms of Reference/Guidelines
- Consultant credentials
- Public Participation
- Decision document
- Legally binding commitments for conditions for approval

Compliance and Enforcement Framework

- Clear identification of regulated community and priorities
- Clear requirements: who, what, where, why, when
- Compliance Promotion
- Compliance Monitoring: inspection, source self-monitoring/reporting, citizen monitoring, areal monitoring
- Enforcement response/consequences
- Clear roles and relationships
- Accountability and performance measures for results

Major Forces Challenge EsIA Programs

Investment and jobs **Information Access** Competitiveness Accountability/Transparency Investors Delays – Uncertainty Justice/Rule of Law Safeguards and standards Public Donors Competiveness/security Public health Migration Global environmental Culture, History, Values Government Resource protection Trade/Fair competition

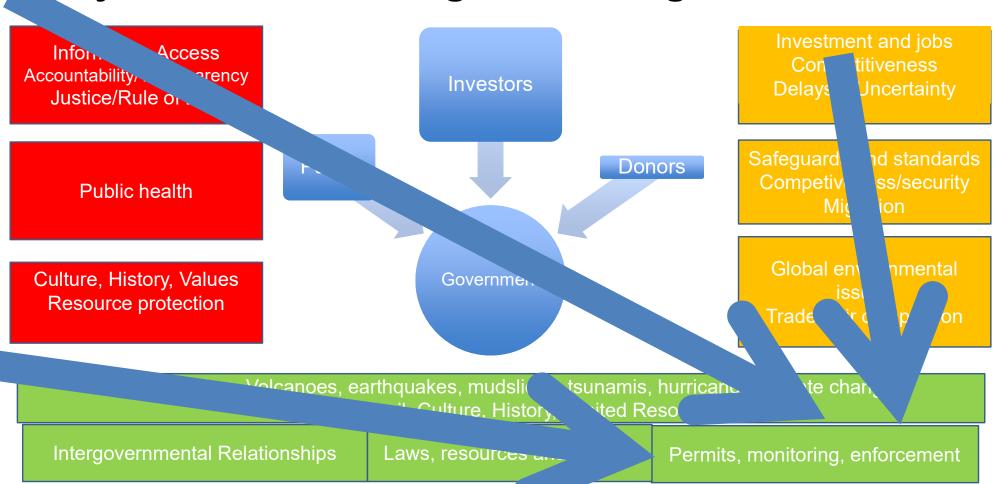
Natural Risks – Volcanoes, earthquakes, mudslides, tsunamis, hurricanes, climate change Political turmoil, Culture, History, Limited Resources

Intergovernmental Relationships

Laws, resources and staffing

Permits, monitoring, enforcement

Major Forces Challenge EsIA Programs







Compliance, Enforcement, Follow through is perhaps the biggest impediment to achieving positive results from the EsIA process.... and that touches on the EsIA process in its entirety!

IAIA-INECE Webinar on Enforcement of EsIA requirements, commitments, permits



Sebastian Elgueta, Director Intelligence, Superintendence for the Environment, Chile



Phil Seeto, Director,
Compliance, Enforcement and
Follow-Up, National
Programs, Impact
Assessment Agency of
Canada / Government of
Canada



Erica van den Honert
Director: Infrastructure
Management at the
Department of Planning
Industry and Environment in
New South Wales, Australia



Matthew Baird, Director, Asian Research Institute for Environmental Law

OUTLINE

| Welcome and Housekeeping | Tanya Frazier | IAIA Staff | | (5) |
|-----------------------------|-------------------------|---|---------------------|------|
| Introductions | Cheryl Wasserman | Chair IAIA Section on Governance and Implementation Systems | USA | (10) |
| Presenter | Sebastian Elgueta | Director, Intelligence, Superintendencia Ambiental, Chile | Chile | (15) |
| Panel 1 | Phil Seeto | Director, Compliance, Enforcement and Follow- Up, National Programs, Impact Assessment Agency of Canada | Canada | (10) |
| Panel 2 | Erica van den Honert | Director Infrastructure Management, Planning and Assessment, New South Wales | Australia | (10) |
| Panel 3 | Matthew Baird | Director, Asian Research Institute for Environmental Law | South- east Asia | (10) |
| Discussion | All | Cross Cutting Issues | | (20) |
| Participant Q &A | Cheryl and Tanya | Participant Chat Questions and Comments | | (15) |
| Wrap up/Next steps | Cheryl and Tanya | | | (5) |

Digital Transformation for Compliance of Environmental Impact Assessment Commitments in Chile





Sebastian Elgueta,

Director Intelligence, CIO, Superintendence for the Environment.





Sebastian Elgueta
Chief Information Officer
Superintendence for the Environment



Introduction



Chile





- South American country
- Area: 750.000 km²
- Population: 18 millions
- Main exports: copper, fish, fruits, paper pulp and wine









Environmental Institutionality in Chile

Since 2010

Ministry of Environment

MMA

Policies and regulation in environmental matters

Environmental Impact Assessment Service

SEA

Environmental Impact Assessment and Declarations (EIA & EID) Superintendence for the Environment

SMA

Environmental Enforcement and Compliance Environmental Courts

TA

Resolving environmental controversies



What SMA does

Superintendence for the Environment

Compliance and Enforcement of environmental regulations

- Monitoring
- Assistance
- Public information
- Sanctions and Penalties
 Closures
 Permit Revocation
 Fines up to USD 8 Millions







Environmental Regulations

Types



Environmental permits 15.975



Emission Standards 10



Decontamination Plans 17



Quality Standards



Compliance Programs



Green Tax Law



Extended producer responsibility



Facilities

More than 16.000



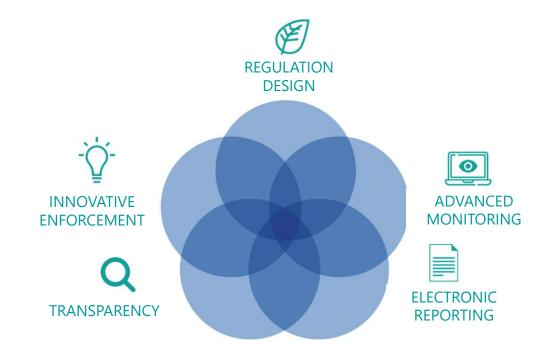






Environmental Compliance 2.0

Digital Transformation Strategy 2015-2019

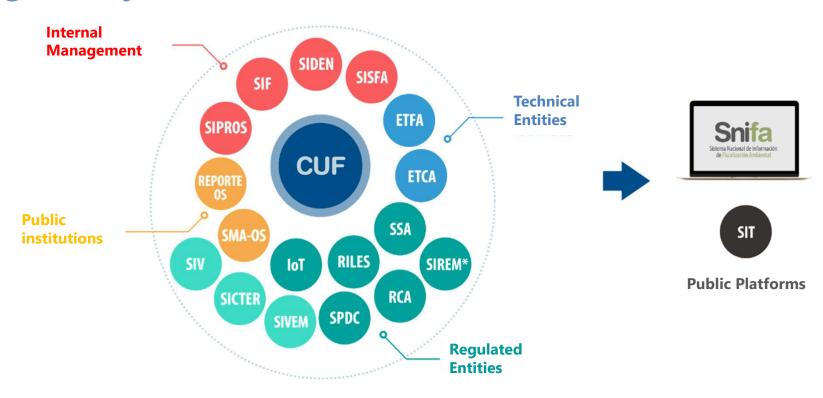


Inspired by Next Generation Compliance Approach (US EPA)



Electronic platform

Integrated systems



CUF (Facility Register Database) is the center



Better Public Information

SNIFA: Environmental Compliance National System



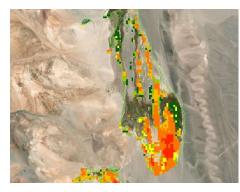
More than 1 million of visits per year



Advanced Monitoring

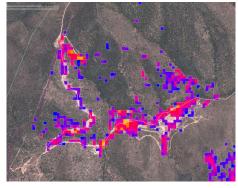
Remote sensing













Real Time Monitoring
Internet of Things

Satelitte Imagery
Optic and Radar

DronesThermal camera



Analytics Evolution

SMA's strategies



Environmental Compliance 2.0 2015-2019

Environmental Intelligence 2020-2023

How can we make

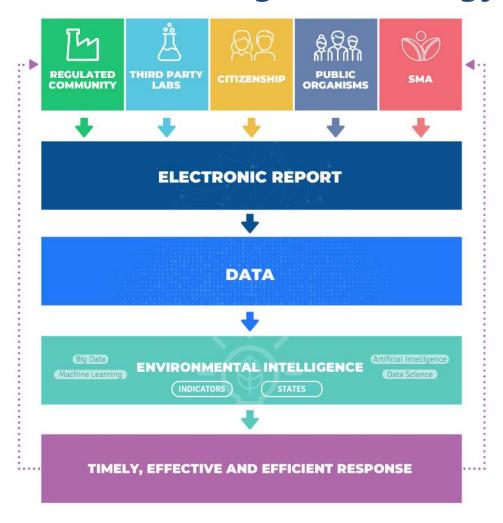
it happen?

Digital Transformation Strategy

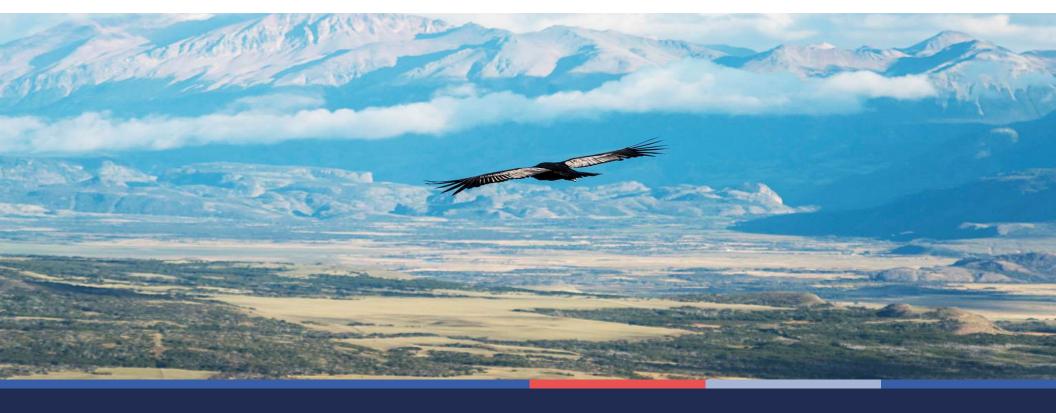
Artificial Intelligence Strategy



Environmental Intelligence Strategy 2020-2023



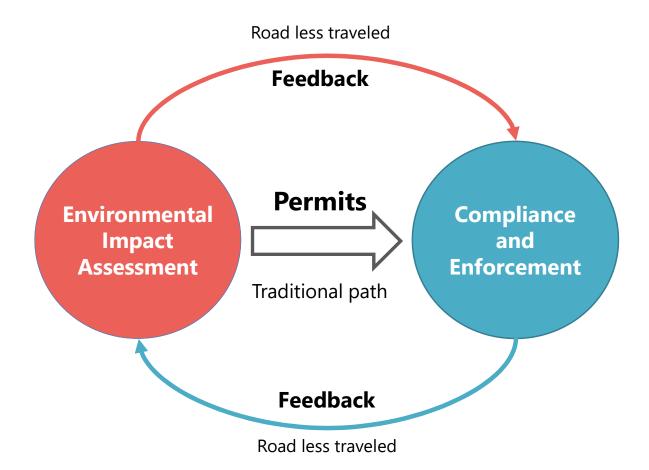




ENFORCING EIA REQUIREMENTS



Virtuous circle





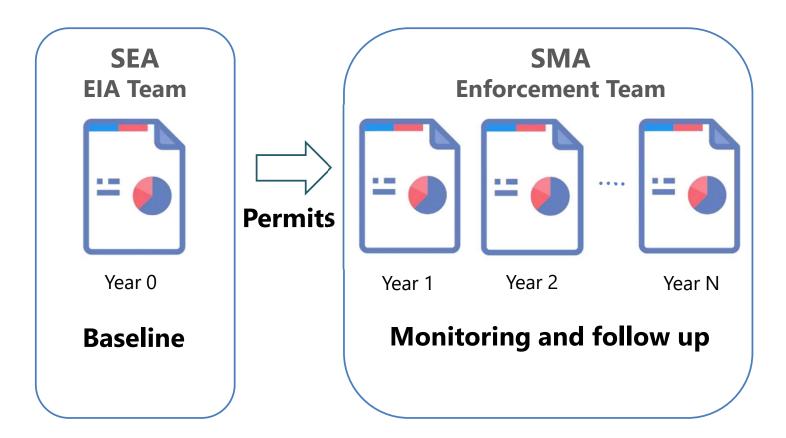
Difficulties for enforcing

EIA Requirements in Chile

- EIA Documents are too large
- EIA Documents with non-standard formats
- Requirements with non-standard formats
- Requirements beyond environmental matters
- Many Facilities with more than 1 permit
- It is not easy to update permits
- Limited staff and budget
- Information silos and lack of Data



Information Silos



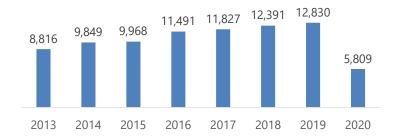
Different platforms, without disagregatted data

SMA's Current System

Electronic reporting

- Thousands of PDF reports that include millions of Data
- Only general data is collected
- Architecture not designed for cloud and big data

82.981 Reports received since 2013



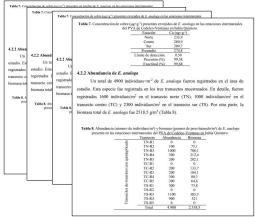


https://ssa.sma.gob.cl/

A typical report

Sand Crab Monitoring Study













Are EIA requirements and commitments being met?

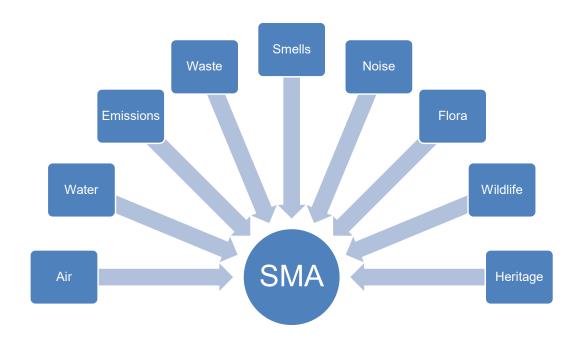
Does compliance ensure environmental protection?

We need Data
We need Analytics



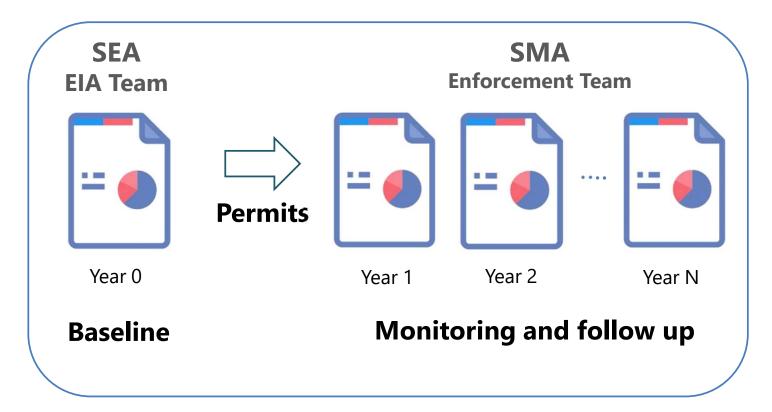


From PDF reports to Data reporting



Environmental baseline available for anyone Science, Public Institutions, Investors, Citizenship





Unique Plataform with disagreggated data

Current Project 2020-2021

- Register of requirements and commitments
- Standard report formats for each component
- Automated compliance verification
- Environmental indicators and predictive models
- Portal for Regulated Entities
- Portal for Citizenship, Open Data and APIs
- Reporting by APIs M2M

How are we developing this?

Agile Development (Minimum Viable Product)

Architecture oriented to Cloud and Big Data

Some of Data to be collected Component

Component

Coordinates

Dates

Parameters

Values

Units

Thresholds

Methodologies

Third Parties

Etc.

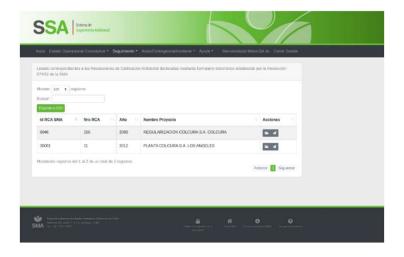


Current Project 2020-2021



May 2020: Report format published for Water component.

Coming soon formats for Biodiversity and so on.

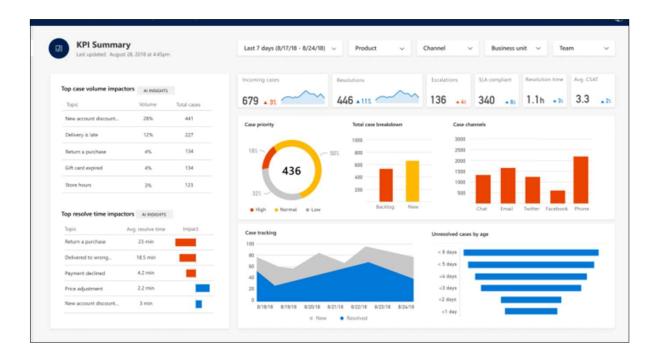


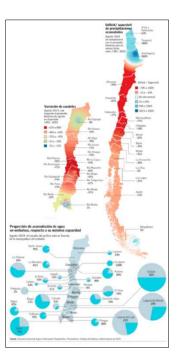
Aug 2020: Launch of new system. First version

Permanent deployment of new functionalities



2021: Portals and APIs





Data, Indicators and Predictions

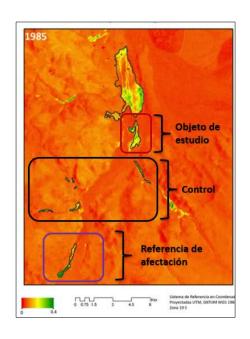


Other applications for enforcing EIA commitments

Impacts on Highland Wetlands

- Massive monitoring of 5.622 wetlands
- Automated break detection of Vegetation Index (NDVI and SAVI) using optical satellite images
- Time series of 30 years





Emblematic Case:

Maricunga Wetland (RAMSAR site)

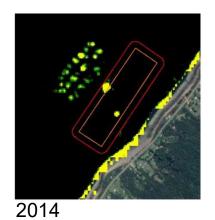
Affectation produced by groundwater pumps for gold mining. Sanctions: closure of pumps and monetary penalties

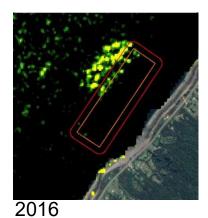


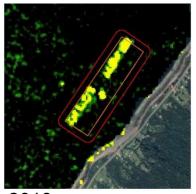
Other applications for enforcing EIA commitments Fish Farming Massive monitoring

- 1.436 Fish Farms monitored
- Automated algorithms to check permitted location using radar satellite images (SAR)
- Cloud computing
- Dissuasive effects









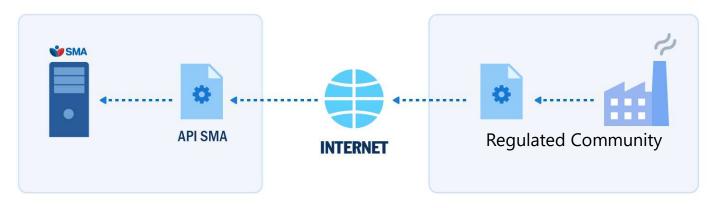
2019



Other applications for enforcing EIA commitments Real time monitoring

Many permits require continuous monitoring..... Let's connect!!

- CEMS Continuous Emission Monitoring Systems
- Air Quality Monitoring Stations
- Water Quality Monitoring Stations
- Operational variables



We will have thousands of facilities connected on 2021





IAAC, Canada



Phil Seeto

Director, Compliance, Enforcement and Follow-Up, National Programs, Impact Assessment Agency of Canada / Government of Canada

Impact Assessment in Canada

COMPLIANCE PROMOTION AND ENFORCEMENT UNDER THE IMPACT ASSESSMENT ACT, CANADA IAIA & INECE WEBINAR – JUNE 24, 2020





Post-Decision Phase



Changes

- Non-enforceability for projects where Life-Cycle Regulators adopt conditions into their permits, certificates, etc.
 - Removes duplication of processes
 - Allows for single point of contact for proponents following assessment
- Stronger tools in cases of non-compliance
 - Increased fines up to \$8,000,000
 - Immunity (whistleblower protection)
 - Publication powers
- 3. Creation of the Follow-Up Team
 - Verify effectiveness of mitigation measures and impact predictions
 - · Establish monitoring committees that allow for increased opportunities for participation
 - · Encourages and facilitates continuous improvements to assessments

Goals

- These changes will:
 - Result in building productive, open relationships with proponents to encourage compliance and enable a timely return to compliance
 - Focus on compliance promotion and education, as a primary focus of the enforcement program
 - Ensures that enforcement actions are carried out in a fair and transparent manner
 - Create accountability in the impact assessment process

EIA to enforcement and back again New South Wales, Australia



Erica van den Honert

Director: Infrastructure
Management at the Department
of Planning Industry and
Environment in New South
Wales, Australia

Framework governing EIA and post approval

- The Department of Planning, Industry and Environment (DPIE) is responsible for EIA of projects of State significance
- Environmental Planning and Assessment Act (1979) (EP&A Act)
- Projects approved with conditions
- Compliance with conditions is enforced by DPIE's Compliance team
- NSW EPA responsible for enforcing compliance with Protection of the Environment Operations Act 1997 (POEO Act) (e.g. air quality, contaminated land, waste, noise, water)

The EIA process

Scoping

- Purpose -Identify the issues
- Product Scoping Report
- Outcome –
 Terms of reference for the EIS (SEARs)

EIS

- Purpose Assess the impacts, consult with stakeholders
- Product –
 Environmental
 Impact
 Statement (EIS)
- Outcome –
 Public exhibition of EIS

Response to **Submissions**

- Purpose –
 Respond to feedback on the EIS
- Product –
 Response to
 Submissions
- Outcome All documentation submitted to Department

Determination

- Purpose –
 Department's evaluation
- Product –
 Department's assessment report and conditions
- Outcome –
 Project approval or refusal

Post approval

- Purpose –
 outline how
 conditions will be
 met and
 monitored
- Outcome compliance with conditions

Some features of post approval

- Conditions of approval
- Environment Protection Licences for certain projects
- Compliance reporting self reporting against conditions and EIA commitments
- Independent auditing external audits of performance and compliance
- 2 regulatory bodies enforce compliance:
 - DPIE compliance with conditions of approval under EP&A Act
 - EPA adherence to the POEO Act and EPLs

Post approval guidance

https://www.planning.nsw.gov.au/Assess-and-Regulate/Development-Assessment/Planning-Approval-Pathways/State-Significant-Development

https://www.planning.nsw.gov.au/-/media/Files/DPE/Guidelines/ssi-standard-conditions-of-approval-linear-infrastructure-

2018-09.pdf?la=en.









Reflections on 20 years of EIA and enforcement

- Feedback loop between EIA and post approval / enforcement is critically important
- Conditions need to be unambiguous to improve compliance and enforcement
- Building flexibility is important to encourage innovation and improvement
- Ability to enforce compliance is essential
- Focusing on enforcement can discourage openness about what didn't work

Southeast Asia



Matthew Baird, Director, Asian Research Institute for Environmental Law, lawyer and consultant

Enforcement and Compliance: SE Asia Perspectives

Matthew Baird, Director

Asian Research Institute for Environmental Law

CLIMATE AND EMPLOYMENT PROOF OUR WORK

#CEPOW

Cambodia experience 2015-2018 Parallels Myanmar Experience

- Weakness in regulatory capacity
- Challenges in impartial enforcement
- ► Lack of experience by legal system
- ▶ No pollution permit system in place
- Regular visits to facility sites but challenges with independent verification and testing

How do we frame compliance and enforcement?

Self-regulation

- Self-Monitoring
- Self-Reporting
- Regulatory Follow-up

Compliance

- Administrative Orders
- Penalty Notices
- Suspension of Activities

Enforcement

- Civil Action
- Criminal Actions
- Loss of Permissions

Solutions proposed in the draft EIA Law and the draft Environmental Code for Cambodia

- Separate Title on Environmental Audits, Monitoring and Reporting
 - ▶ Provision for independent audit with power to make recommendations
 - Requirements for reporting for holders of permits and approvals
 - ▶ Public availability of information
 - ▶ Public participation with the finalizing of EMP for project EIA
- Provisions made for risk assessment and requirement for financial institutions
- ► Establishment of permit scheme for air pollution, water pollution, waste, hazardous substances and Pollutant Release and Transfer Register

Solutions proposed in the draft EIA Law and the draft Environmental Code for Cambodia

- Enforcement
 - Administrative Orders
 - ► Establishment of Environment and Natural Resources Mediation Committee at local, provincial and national level
 - ► Establishment of specialized Environment and Natural Resources Court (civil and criminal jurisdiction)
 - ▶ Broad standing any person to bring complaints
- Focus on public engagement for reporting offences and incidents
- Breach of permits, approvals etc can lead to suspension of the project or cancellation of the permits
- Establishment of process for restoration and compensation for environmental harm

Myanmar's approach to compliance for EIA through use of Environmental Compliance Certificates

- Environmental Compliance Certificates (ECC)
 - Issued by Ministry of Natural Resources and Environmental Conservation under EIA Procedure 2015
- Currently no process for issuing pollution permits except through ECC
- ECC conditions include the following requirements
 - Annual reporting
 - ► Insurance requirements, bonds, financial guarantees
 - Community Consultation Committees
 - Project Grievance Redress Mechanism (GRM)
 - Independent Environmental Audit
 - ▶ Focus on self-monitoring with mandatory notifications of breaches
- System still being implemented.

Discussion

- Unenforceable commitments: Drafting who how why when
- Moving Target problem --Modifications to proposal after approval
- Legal form of commitments Permits/licenses, Decision documents, EsIA
- Timeframe and stages: Site prep, construction, operation, closure
- Monitoring
- Citizen role and grievance procedures
- Government, self certification and reporting, third parties
- Consequences for non-compliance
- Intergovernmental relationships



BOTTOM LINE: What would be your top take away messages and lessons?

What would be your top take away messages and lessons?

Questions





What else does IAIA have to offer?

Visit www.iaia.org

- Webinars On Demand
- Online Professional Development Program with mentorship
- Annual IAIA conference (with pre-conference training courses)
- Online Symposiam in October 2020
- Best Practice Principles, IA FasTips, and more



Thank you!



Next webinar:

Related resources:

https://iaia.org/webinars.php

www.inece.org/webinars with IADB: https://inece.org/events/show/EventItem-449

| INECE/IADB-2018 | Speakers from |
|--|---|
| ESIA and Enforcement at the National Level | Inter-American Development Bank and INECE |
| ESIA and Enforcement in Transboundary and Regional Contexts | Asian Environmental Compliance and Enforcement Network; Brazilian Institute of Environment and Renewable Natural Resources (IBAMA) |
| ESIAs, Public Participation, and Environmental Compliance | Inter-American Development Bank; Head of Secretariat, Asian Environmental Compliance and Enforcement Network |
| ESIA and the World Bank's New Environmental and Social Framework: Challenges and Opportunities | Environmental and Social Safeguards, World Bank |
| IADB/REDLAFICA/INECE, May - July 2020 | Speakers from |
| Virtual Stakeholder Consultation in During COVID-19 | Interamerican Development Bank (IADB), Chile Environmental Evaluaction Service (SEA), Guyana EPA, Canada |
| Ensuring Socioenvironmental Compliance from a Social Distance | National Environmental Licensing Authority (ANLA), Colombia, , Environmental Evaluation and Enforcement Organism (OEFA), Peru Interamerican Development Bank (IADB), National Enforcement Investigations Center, US EPA |
| Enforcement and Licensing Discretion in Moments of Crisis | Interamerican Development Bank (IADB), Office Enforcement and Compliance Assurance, U.S. Environmental Protection Agency (USEPA), Superintendence of the Environment (SMA), Chile, Environment and Climate Change, (EC), Canada, Chamber of Industry of Guatemala |
| Institutionalizing Lessons Learned from Emergencies | To be Determined |
| Interacting with Indigenous Peoples | To be Determined |