

Freedom To Create. Spirit To Achieve.

Alberta's Cumulative Effects Management System

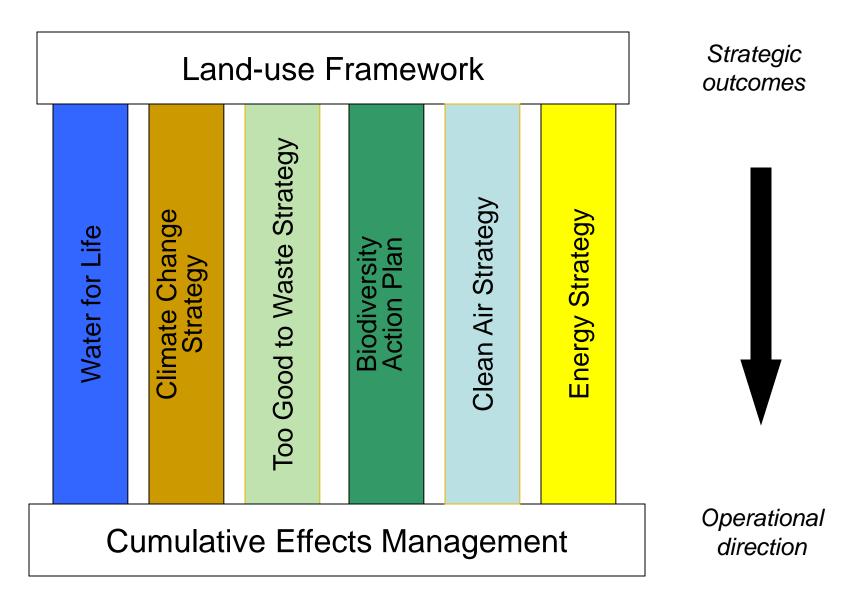
Air & Waste Management Association Beverly Yee 05 November 2010





- Minister's mandate letter
- Land-use Framework establishes regional planning
 - integration of environmental, economic and social objectives
 - cumulative effects management approach to manage implications of development on land, air, water and biodiversity
- Foundation established through Water for Life Strategy, new Clean Air Strategy builds on same concepts
- Continuous improvement, building on successes, addressing challenges for the future

Linkages and Alignment





Approach

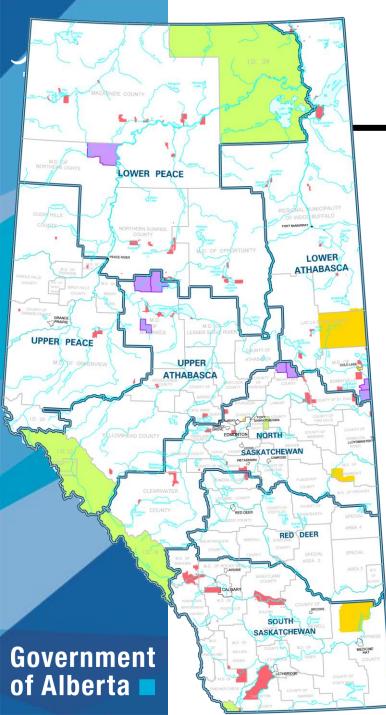
TODAY!

YESTERDAY:

- Paradigm of abundance;
- Project-by-project regulation / allocation according to incremental effect;
- Focus on preventing adverse effects;
- Cumulative effects assessment of major projects an add-on;
- Cumulative effects of smaller projects and non-regulated activity largely unaddressed;
- Existing system cannot keep up

TOMORROW:

- Paradigm of scarcity;
- Regulation / allocation in context of overall capacity;
- Focus on achieving desired outcomes;
- Considers all contributors to achieving desired outcome;
- Management action in response to where we are relative to desired outcomes.



LUF Strategies

- 1. Seven new land-use regions
- 2. Land-use Secretariat and Regional Advisory councils for each region
- 3. Cumulative effects management at the regional level
- 4. Strategy for conservation and stewardship on private and public lands
- 5. Efficient use of land
- 6. An information, monitoring and knowledge system
- 7. Inclusion of Aboriginal peoples in land-use planning



Regional Planning

- better balance between the economic, environmental and social values
- consider a planning horizon of at least 50 years
- articulate desired outcomes for the region
- set thresholds to manage cumulative effects, recognizing that airsheds, watersheds and landscapes are not limitless
- identify strategies and actions to achieve outcomes
- identify monitoring and reporting strategies



A new cumulative effects management system

- outcomes/results-based;
- risk-based; focusing greater resources and efforts on higher-risk environmental impacts;
- considers health, economics and social values;
- implemented /delivered using a place-based approach and a broader set of tools;
- collaborative, involving many parties and sectors;
- adaptive, with mechanisms built in to allow flexibility and assure achievement of outcomes.

Cumulative Effects Management System

Management Actions

EVALUATE & REPORT PERFORMANCE

- Environmental indicators and their implications
- Effectiveness of strategies and their delivery

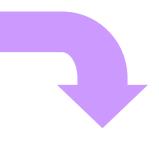


STRATEGIC DIRECTION

- Legislation
- GoA and Ministry Business Plans
- Provincial Level Strategic
 Policies

DELIVERY

Tools: EIAs, Authorizations, Compliance Assurance, Non-Regulatory
Monitoring, Data Management,
Emergency Services



DEVELOP & REFINE OUTCOMES & STRATEGIES

- Regional Strategic
 Assessment
- Place-Based Planning
- Indicator Selection
- Operational Policy/Strategy
- Management Frameworks





What will change?

- integration with regional planning (LUF)
 - regional strategic assessment
 - management frameworks
- enhanced and aligned regulatory system
 - streamlined, integrated, efficient
 - more consistent decision-making
- non-regulatory mechanisms
 - market-based/economic instruments
 - incentives
 - collaborative management agreements
- integrated monitoring, evaluation and reporting



Management Frameworks

- Collaborative approach to establish desired outcomes and objectives
- Progressive action based on conditions found in the environment; trigger points
- Identified integrated management actions at trigger points
- Full range of information, incentive, and regulatory tools for implementation
- Intensity of management actions increases to respond to the state of conditions and levels of risk

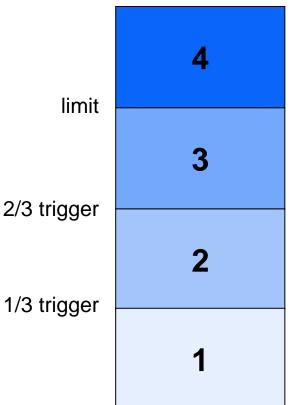


Government

of Alberta

Draft Lower Athabasca Region Air Quality Management Framework

- Based on ambient concentrations
- Initial focus on NO₂ and (SO₂)
- Limit and trigger levels are based on Alberta's Ambient Air Quality Objectives (annual and 1 hour metrics used)



- Exceeding AAAQO
 - Emission reductions
- Below but approaching AAAQO
 - Management / planning
- Ambient below AAAQO
 - Surveillance, assessment
- Ambient well below AAAQO
 - No further action



Environmental Legislation

1970 – 1990Manage air & water releases:≻ Manage pollutants

1990 – 2010 Manage facilities/operations:

Manage impacts of <u>single operations</u>

Future

Outcomes focused:

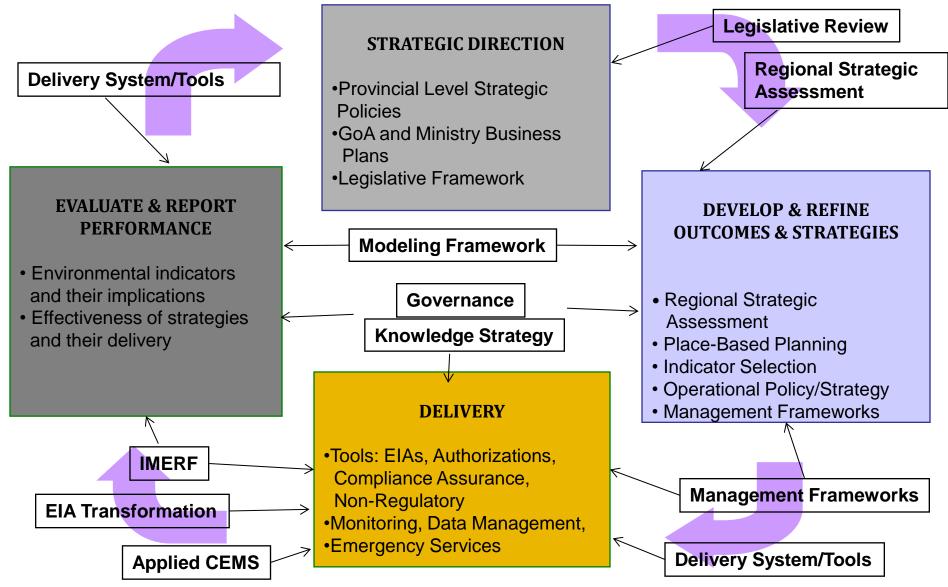
- Manage <u>cumulative effects</u> of current, new and expanding operations
- Manage <u>multiple parties</u>, <u>multiple</u> <u>activities</u>



Alberta Environment's Focus

- Regional Plans
- Strategy Alignment
- Knowledge and Performance
 Management Program
- Delivery Program
 - Regulatory & Non-Regulatory
- Organizational Design

Cumulative Effects Management System



<u>CEMS Fundamentals:</u> Outcomes Based; Place Based; Performance Management Based; Collaborative; Comprehensive Implementation.



Freedom To Create. Spirit To Achieve.

Questions, Comments, Discussion