

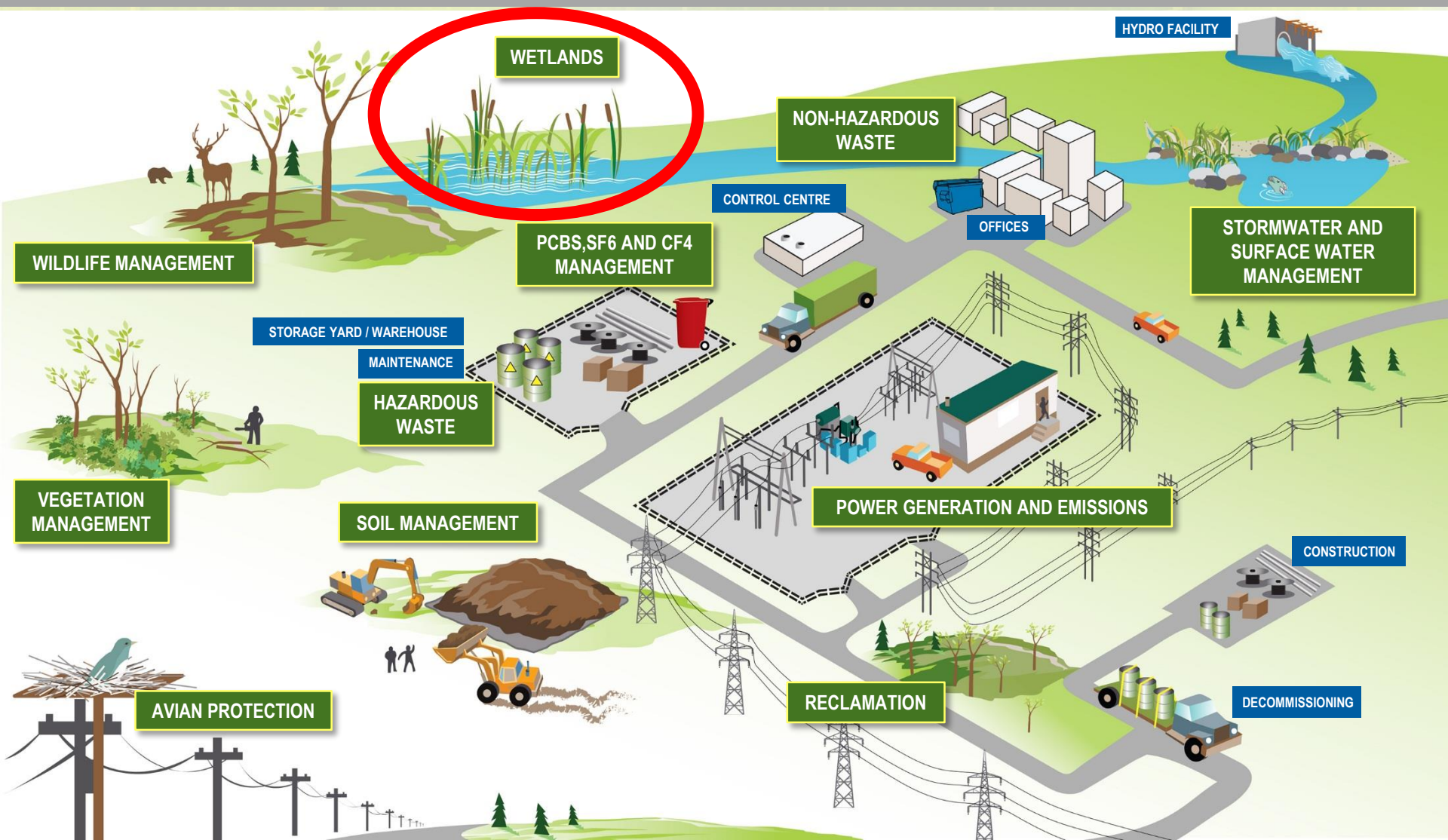
BALANCING WETLAND CONSERVATION AND DEVELOPMENT IN A REGULATED UTILITY

Presented by Erin Donovan– Manager, Environment

OUTLINE

- **Recognizing the Need for Internal Standards**
- **Objective of an Environmental Management System**
- **Challenges for a Regulated Utility**
- **Developing Procedures**
- **Implementing Procedures**
- **Employee Engagement**
- **Continuous Improvement**

ATCO ELECTRIC ENVIRONMENTAL ASPECTS



RECOGNIZING THE NEED FOR A CHANGE

- In 2014, several legally reportable incidents were related to wetlands
- Recognized the need to raise awareness about the importance of wetlands
- Opportunity to create new procedures and standards for employees to follow



OBJECTIVES OF ENVIRONMENTAL MANAGEMENT SYSTEM

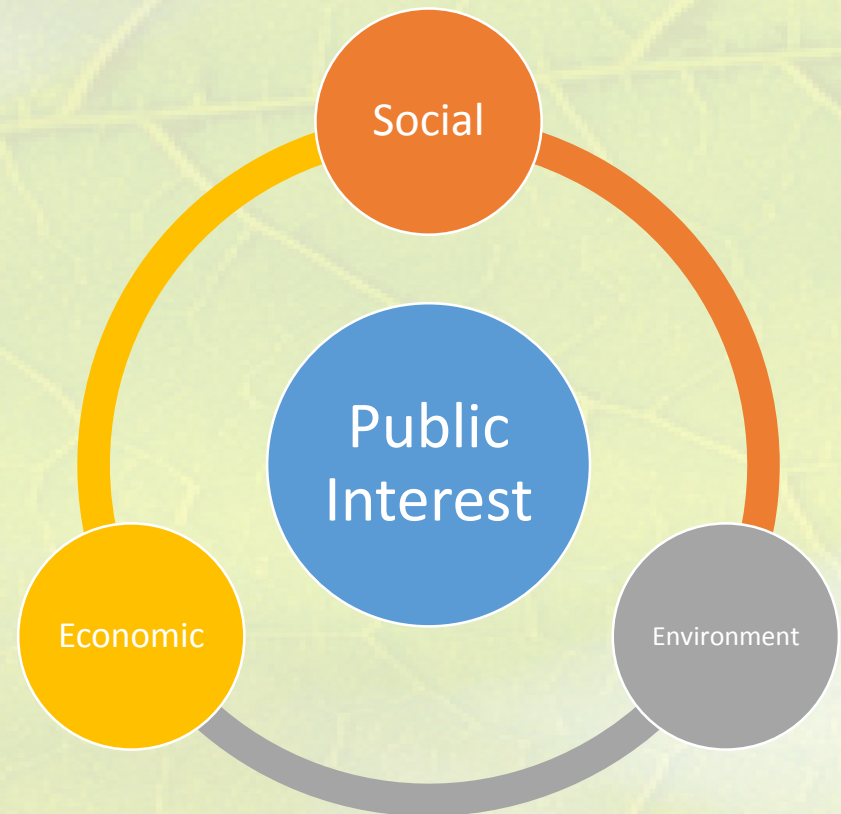
- **Meet environmental regulatory requirements**
- **Enhance ATCO Electric's environmental performance, compliance and competitiveness**
- **Increase environmental awareness**
- **An effective EMS is 'alive' and constantly measuring performance, making adjustments and looking for opportunities for continual improvement.**

Avoid → Minimize → Reduce

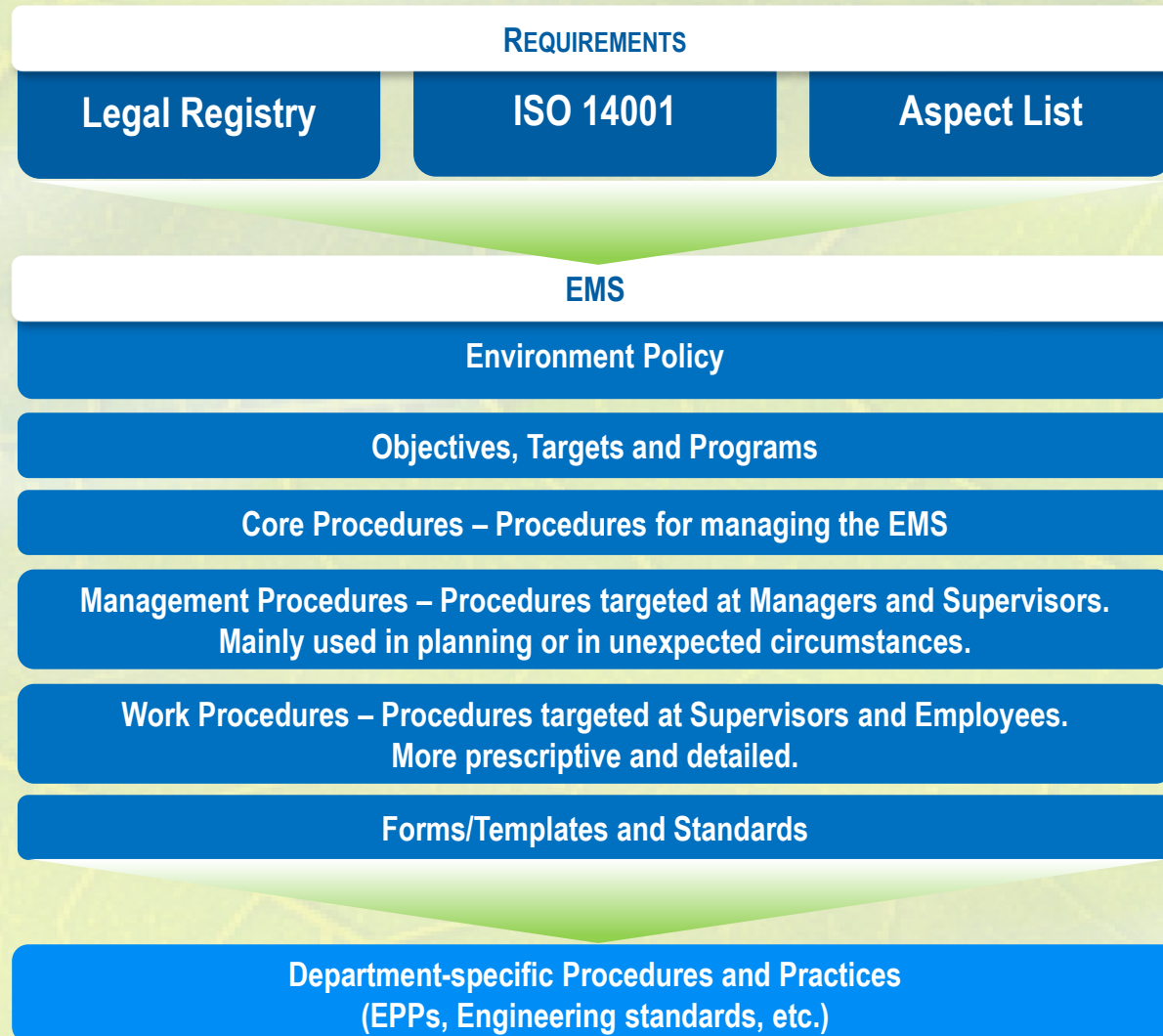
CHALLENGES FOR A REGULATED UTILITY

- **Multiple stakeholders with different perspectives**

- Rate payers = reduce cost
- Provincial and federal regulators = follow regulations
- Landowners = individual interests
- NGOs = conservation



DEVELOPING PROCEDURES



OUR VISION STATEMENT

“ATCO Electric Transmission minimizes our environmental impact through a commitment to innovation, integrity and continuous improvement to achieve environmental stewardship.”

DEVELOPING PROCEDURES

- **What preventative or mitigative measures reduce impacts on wetlands?**
- **Considerations**
 - Are there regulatory approvals, notifications, licenses?
 - Scheduling, seasonality (wet/thawed conditions)
 - Prevent disturbance to shores
 - Ditches are common path to water (re: spills)
 - Preserve water quality and quantity



DEVELOPING PROCEDURES

- **Avoid**
 - Structure/access placement, alternate routes, timing windows, demarcate avoidance areas
- **Minimize**
 - Duration of in-water work, erosion control
 - Retain riparian vegetation
 - Fueling and dewatering 60 m away from riparian areas
 - Wash equipment 100 m away from riparian areas
 - Stockpiles at least 30 m away from waterbodies
- **Reduce**
 - Monitor mitigation measures
 - Finance research projects to improve mitigation
- **Compensate**
 - Replace or provide substitute resources as per with regulatory directions

MANAGEMENT PROCEDURE CONTENT

Introduction

- Purpose
- Scope/application
- Background

Procedures

- Legal Requirements
- Evaluation of Risk
- Controls and Mitigation Measures
- Training and Communications
- Monitoring and Maintenance
- Incident Reporting

Responsibilities

- Each Org Group

Related Documents

- EMS and Other

Records

- EMS and Other


	Dust Management	REVISION 0
		2015-OCT-06
ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)		

TABLE OF CONTENTS

1.0	INTRODUCTION.....	4
1.1	Purpose.....	4
1.2	Scope/Application.....	4
1.3	Background.....	4
2.0	PROCEDURES.....	5
2.1	Legal Requirements.....	5
2.2	Evaluation of Risk.....	5
2.3	Controls and Mitigation Measures.....	6
2.4	Training and Communications.....	6
2.5	Monitoring and Maintenance.....	6
2.6	Incident Reporting.....	6
3.0	RESPONSIBILITIES.....	7
3.1	Manager.....	7
3.2	Supervisor.....	7
3.3	Contractor's Designated Representative (if Applicable).....	8
3.4	Employees/Contractors.....	8
3.5	SMEs.....	8
3.6	Environment Department.....	9
4.0	RELATED DOCUMENTS.....	9
4.1	EMS Documents.....	9
4.2	Other Documents.....	10
5.0	RECORDS.....	10
5.1	EMS Records.....	10
5.2	Other Records.....	10
	END OF DOCUMENT.....	10
6.0	APPENDIX 1: PROCEDURE FLOWCHART.....	11

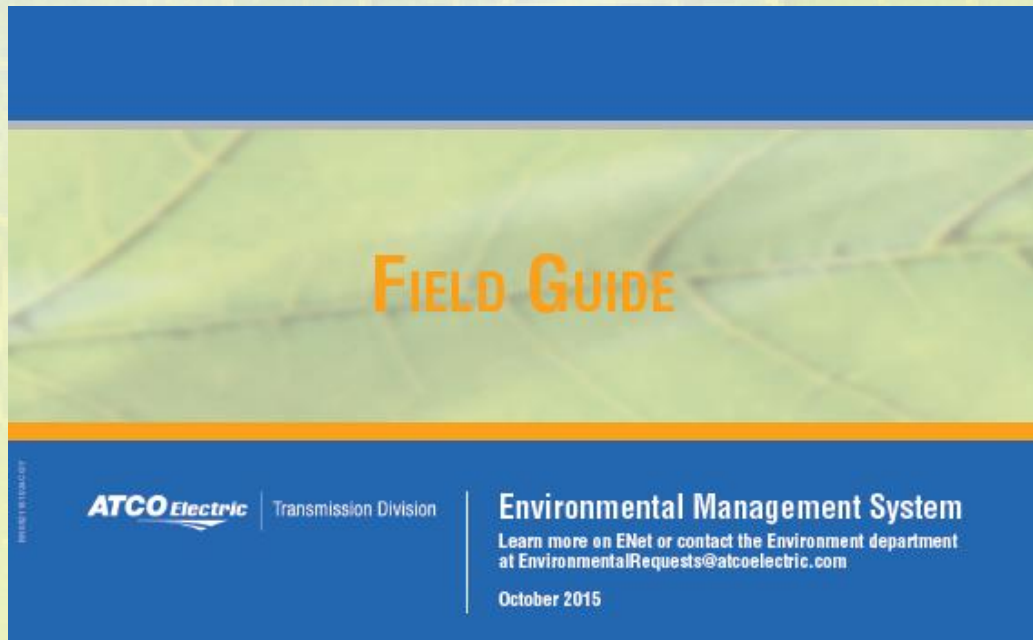
EMPLOYEE ENGAGEMENT

- **Mechanisms used to raise awareness**
 - Branded wetlands as a symbol of the EMS
 - Donated \$1 per ATCO Electric Transmission Employee to Ducks Unlimited to celebrate launch of environmental vision
 - Environment Group designed a wetland as part of the internal 2015 CANstruction Competition for the Food Bank

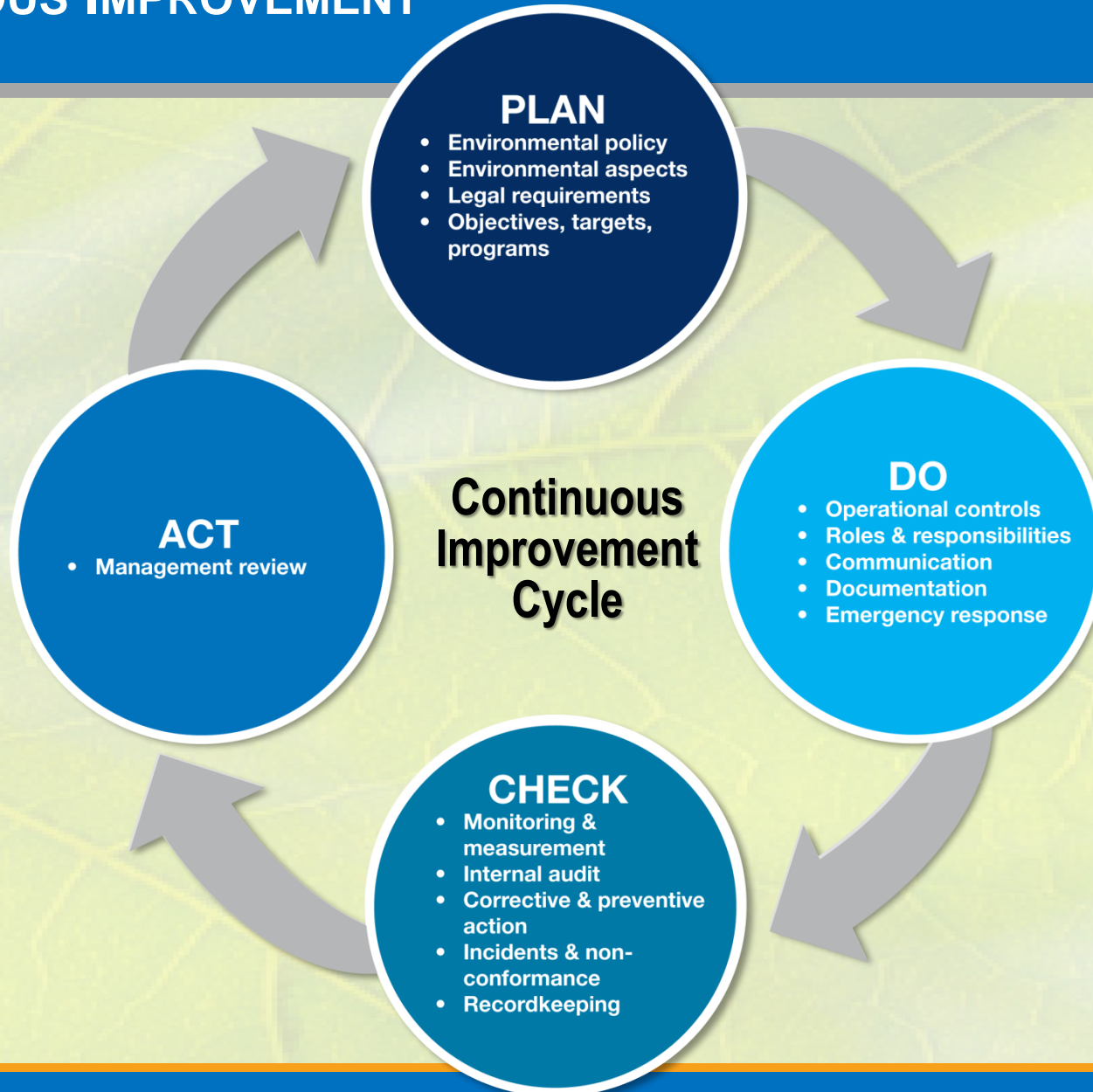


TRAINING AND RESOURCES

- **Training sessions for different audiences**
 - EMS Awareness
 - Field staff and supervisors
 - Management
 - Contractors



CONTINUOUS IMPROVEMENT



QUESTIONS?

