



# Enterprise-wide Operational Intelligence Drives Exceptional Growth at MEG Energy

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# Agenda

The Oil Sands of Alberta

MEG Energy Corporation

Business Challenge

Initial implementation and Current State

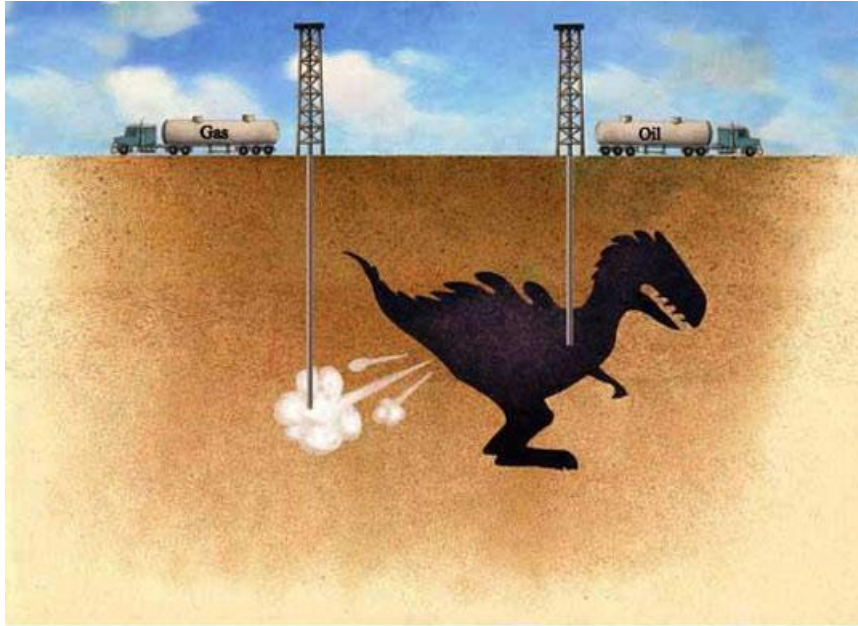
How Individual Product Capabilities Solved Our Business Challenges

Benefits for Specific Business Units

Future Plans and Conclusion



# Where Oil and Gas really come from!



# Oil Sands of Alberta

Alberta is home to the oil sands, which contain 173 billion barrels of oil.  
Third in the world in terms of global oil reserves (behind Venezuela and Saudi Arabia)

Environmentally responsible and ethical oil

Oil Sands Surface Mining  
vs. Oil Sands “In Situ”



# MEG Energy Corporation

MEG Energy is a Canadian oil sands company focused on sustainable in situ development.

Resources

SAGD technology

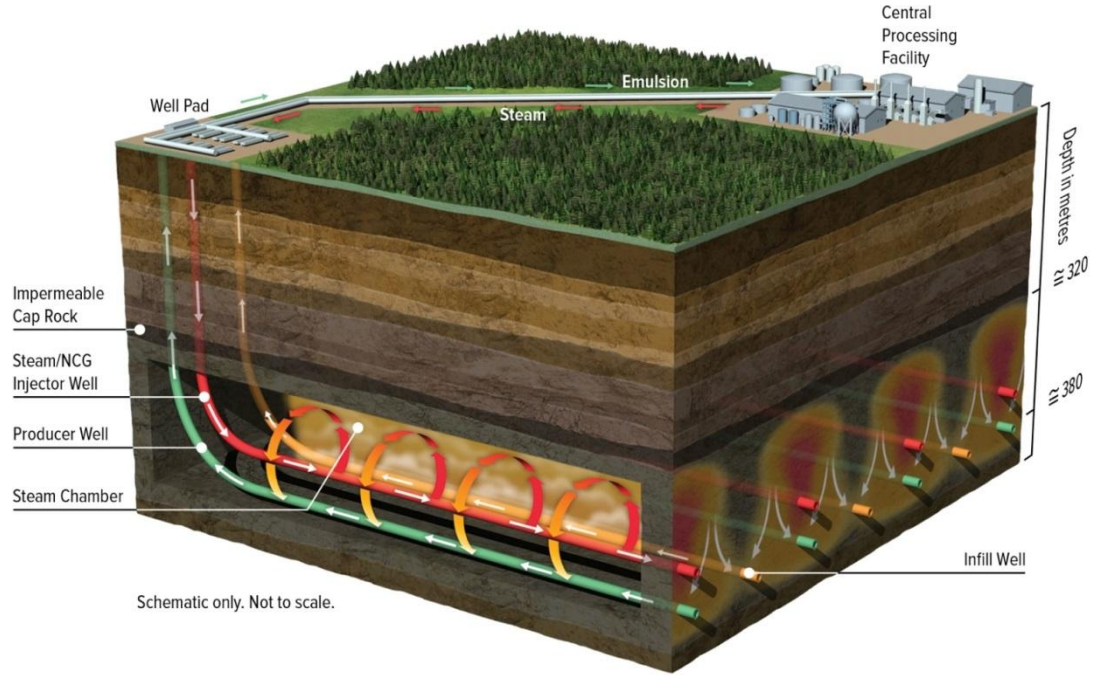
80,000 bpd production

Access Pipeline

Stonefell Tank Farm

Electricity Cogeneration

Strategic growth



# Business Challenge

To build an Operations Management System that was scalable, reliable, enterprise wide

To accommodate for an aggressive strategic growth plan

Start small, proof of concept,  
but capable of exceptional growth

Repeatable solution regardless of  
data source



# Initial Implementation - 2008

1 PI Server

2 PI Interfaces for OPC

10,000 tags

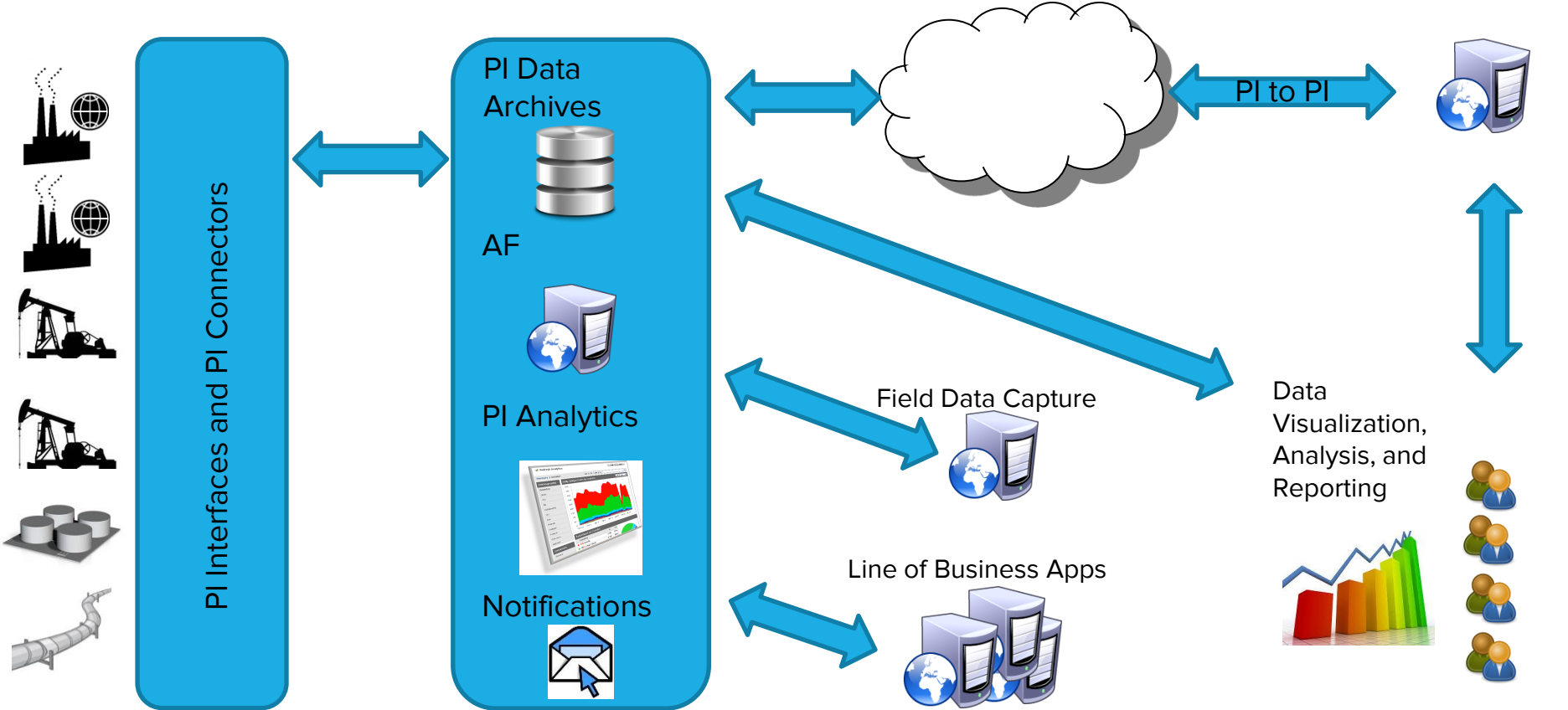
MEG Energy's Oil Production (3,000 bpd)

1 Daily Production and KPI Report





# Current implementation





# MEG Operations

Cutting edge operations that rely heavily on real-time,  
daily and monthly reporting

Quantify benefits of technological advances

Increasing efficiencies

Electricity Co-generation

Leveraging third-party expertise  
(PI to PI implementation)



# MEG Production Engineering

Live monitoring of wells

Performance Equations to summarize data for strategic planning

Notifications alert our engineers of when conditions have been met and action must be taken

Automated well tests (PI SDK)

# MEG Energy's Commitment to Environment

Land Reclamation

Air Quality and Minimizing Emissions

Water Recycling

Minimizing Impact on Wildlife



# MEG Regulatory

Complying to the most stringent environmental regulations in the world

## Water and Air Emissions reporting

- Specified Gas Emitters Report – AESRD
- National Pollutant Release Inventory – Environment Canada
- Monthly and Annual EPEA Reports – AESRD
- EPEA Approval Sulphur Limit also Directive 60 and ID 2001-03
- EPEA Approval Equipment NOx Limits
- AER Water Disposal Requirements (Directive 81)

Minimizing GHG emissions



# MEG Marketing

Diversifying market access to get to world-price markets

Bypassing pipeline congestion

Real-time decision making



# Benefits of Using the PI System

- Reliable Enterprise System
  - Robust infrastructure
  - High Availability
- Operational Intelligence
  - Process Improvement
  - Efficiency / Cost Savings
- Data Automation (Saved Man Hours)
- Compliance Reporting
  - Beyond Compliance
  - Protecting the Environment



# Future Growth

Expansion at Christina Lake project approved by regulators (150,000 bpd)

Surmont Project Proposed Development (120,000 bpd)

HI-Q Field Pilot





# Questions

Please wait for the **microphone**  
before asking your questions

State your  
**name & company**





# THANK YOU

