

# British Columbia's Flare Management Strategy - Update

Resource Conservation Branch

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# BC Energy Plan

- Eliminate all routine flaring at oil and gas producing wells and production facilities by 2016.
- Establish policies and measures to reduce air emissions with MoE.
- Small power standing offer for projects generating < 10 MW.
- Develop a Petroleum Registry.
- Continue to work to lift the federal moratorium on offshore exploration and development.

# Associated Gas Flaring in BC

## Opportunity

- $31.0 \times 10^6 \text{ m}^3$  (2006)
- $18.5 \times 10^6 \text{ m}^3$  is routine
- $11.5 \times 10^6 \text{ m}^3$  meets criteria for running economics.
- $8.0 \times 10^6 \text{ m}^3$  -meets economic threshold for conservation
- Energy Plan goal met
- Overall reduction potential = 25%

# Flare Management Guidelines

- Conservation of solution gas
- Need to develop a process for issuing temporary facilities to accommodate in-line testing.
- Ensure well test thresholds are appropriate
- Guidelines
  - Draft for comments – June 2007
  - Feedback/stakeholder engagement – Fall 2007
  - Guideline release early 2008

# Example

## Encana Compressor Station

- Reporting zero flared and vented gas.
- Community complaints regarding flaring?
- Purge gas consumption on HP and LP flare
  - 4400 scf/hr or 106,000 scf/d
  - Replace regulator and install flow controller (\$3000.00)
  - Consumption reduced to 250 scf/hr
- Compressor packing vent purge system
  - 1770 scf/hr or 42,500 scf/d (3 compressors)
  - Install flow controller (\$1600.00)
  - Consumption reduced to 120 scf/hr

# Definitions

- Lease Fuel – all fuel gas used from the wellhead to the delivery point (pumpjack engines, dehydrator, line heater and compressor fuel).
- Flared – gas used as pilot gas and gas flared for operational purposes.
- Vented – vented to atmosphere and can be calculated from lab analyses or an estimate of 0.0257 m<sup>3</sup>/m<sup>3</sup> oil.
- Produced gas used for dilution, blanket, purge, pilot, instrument air and chemical pumps?