Directed Inspection & Maintenance
Overview

- Project inception
- Project economics
- Implementation

- Current activities
- Other Uses of equipment
- Next steps
Directed Inspection & Maintenance - Inception

- 2007 launch of EnCana’s energy efficiency initiative
- October 2007 EHS Summit brought environmental and operations staff together
- DI&M became a priority for 2007 energy efficiency project for US Division

DI&M – Project Economics

- Energy Efficiency Fund utilized for capital costs of equipment and training
  - 6 FLIR cameras, 4 Hi Flow Samplers, Training for 15 employees
- Project approval based on positive payback

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<tbody>
<tr>
<td>Total Capitol</td>
<td>$778,800.00</td>
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<td>CO₂ Equivalent Avoided</td>
<td>165,916</td>
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<tr>
<td>Natural Gas Conserved (mmscfd)</td>
<td>0.982</td>
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<td>IRR (%)</td>
<td>123%</td>
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<td>NPV9 ($MM)</td>
<td>5.30</td>
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Project Economics - Assumptions

- 1860 production sites monitored per year
- 35 compressor stations monitored per year
- Based on $6.50/mcf and 1000 btu/scf
- Leak rates as high as 17 mcf/d/station based on PRO Gas Star papers

DI&M – Implementation

- US Division wide implementation
- Production and Midstream facilities
- Equipment distributed across 4 business units, operations and EH&S Staff
- Informal FLIR camera training
- Preliminary leak surveys currently underway
DI&M – Implementation Schedule

- March – June 2008: Preliminary field surveys to support protocol development
- June 2008 – Protocol finalized, and formal FLIR camera training
- July – September – Additional data taken
- October 2008 – Internal review of data and report preparation
- November/December 2008 – Determine testing frequency and final report roll out

DI&M – Current Activities
FLIR Camera & Hi Flow Sampler

- Equipment being used to demonstrate effectiveness of new technologies
  - Miser valve test
- Aids with justifying new projects to be funded by the Energy Efficiency Fund
  - Replacing rod packing

DI&M – Next Steps

- Formal FLIR camera training for all camera users – June 2008
- Finalize protocols and implement program Division wide
- Reduce methane emissions and save gas!
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