Given by Mary Jane McCartney Senior VP, Con Edison of NY

WORLD GAS CONFERENCE Amsterdam – June 8, 2006

Who is Con Edison?
Research needs
Who's doing the research?
Conclusions

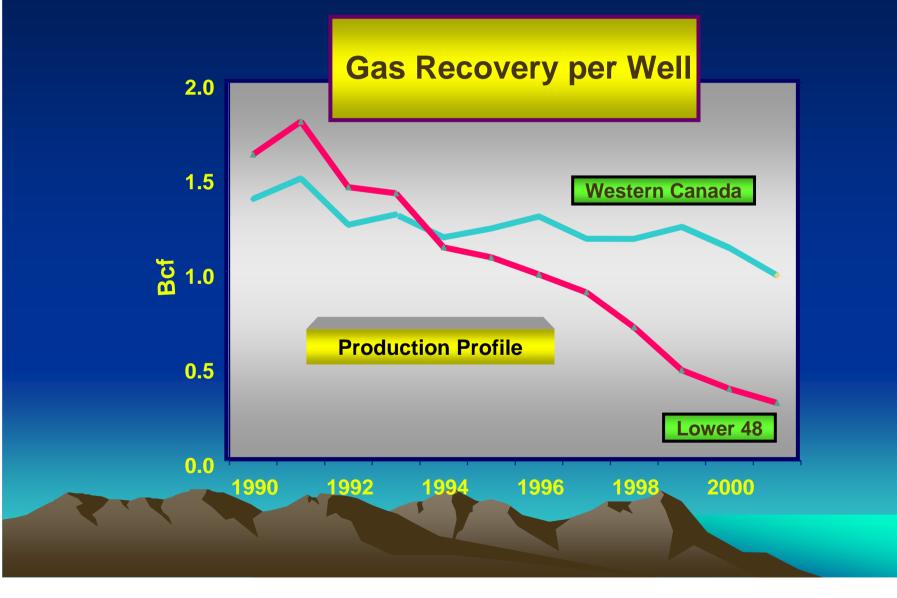


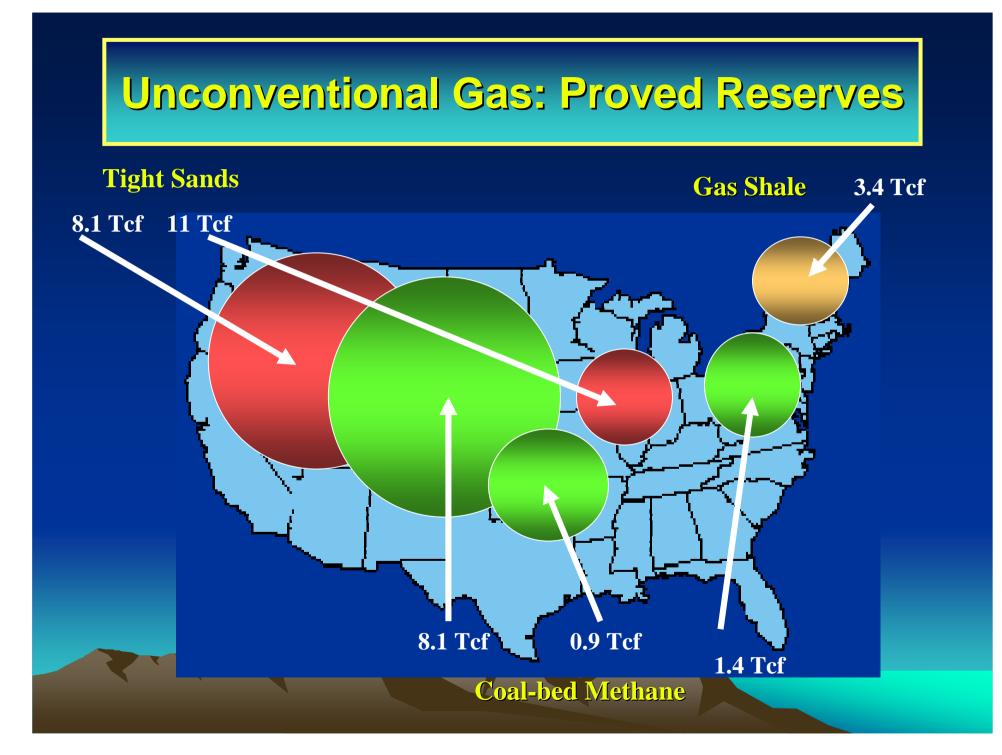
# Natural Gas Research: Cost or Investment?Who is Con Edison?



- Research needs
  - -Energy supply
  - -Pipeline safety
  - -Damage prevention
  - -Environmental remediation
  - -Efficient energy utilization

#### Natural Gas Research: Cost or Investment? Energy Supply

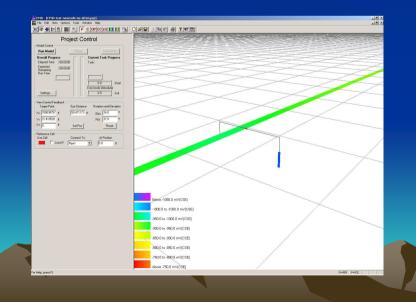




## Pipeline Safety Direct Assessment









• Damage Prevention

Trenchless construction

#### Early warning



CISBOT

PIGPEN

SCADA SCADA Hub S((((()))))) S() SCADA SCADA Hub SCADA Hub

#### **MGP Site Remediation**



- Efficient energy utilization

   Boiler technology
   Fuel cells
   Gasification
  - Gas interchangeability

• Who's doing the research?

-Federal government

• Supply -- RPSEA

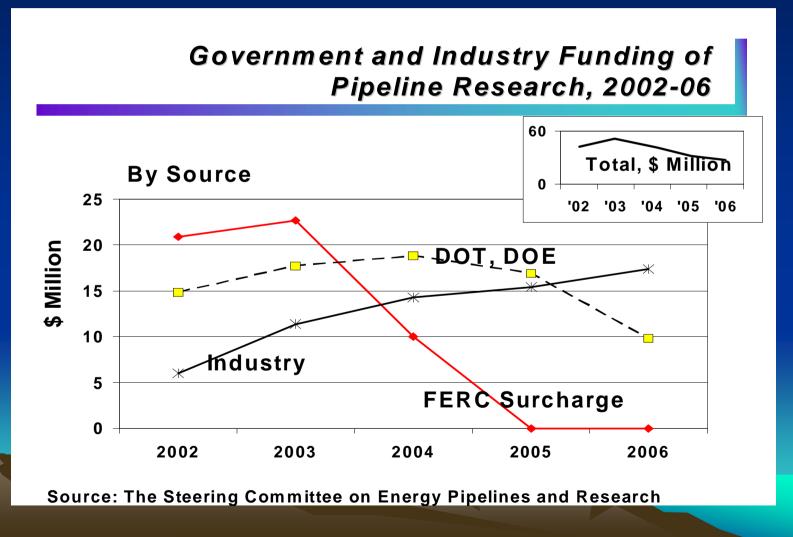
• DOD – fuel cells

• DOE – gasification, hydrogen

- Distribution company collaboration



#### • Federal Government



Natural Gas Research: Cost or Investment? Who's doing the research?

- Federal Government: Energy Supply
- Research Partnership to Secure Energy for America
- Ten-year, \$50 million per year DOE program
- New technologies to produce abundant, affordable domestic energy supplies.

(a) A set of the se

## LDC Focused Collaborative Programs are Growing



18 Members, \$7.4 Million Annual Dues56 Projects since 2003



8 Members, over \$2 Million Annual Dues 24 Projects since 2004



18 Members, over \$1 Million Annual Dues 38 Projects since 2003, 47 Projects since 2000



26 Members, \$450k Annual Dues since 2002

- Conclusions
  - -Supply R&D greatest need
  - High energy prices = opportunity
  - -States have supplanted FERC
  - -Collaborative R&D is working

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