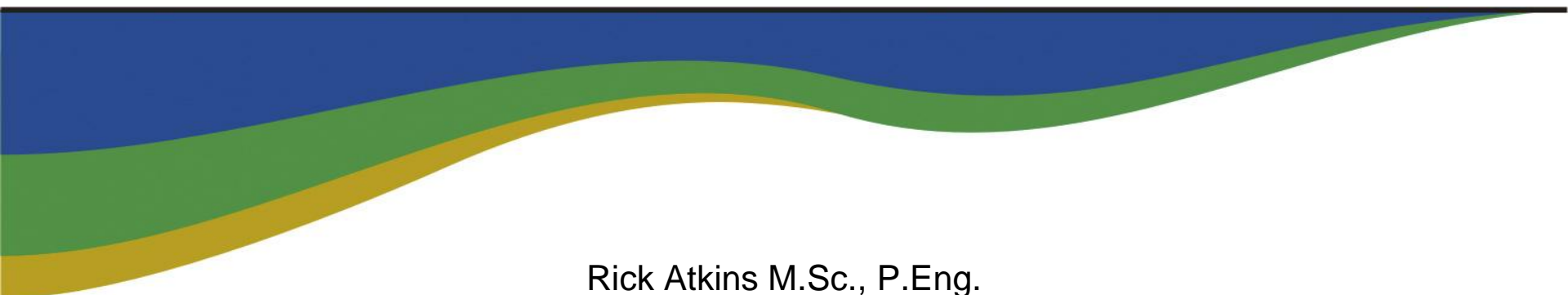


# Energy Efficiency in Agriculture

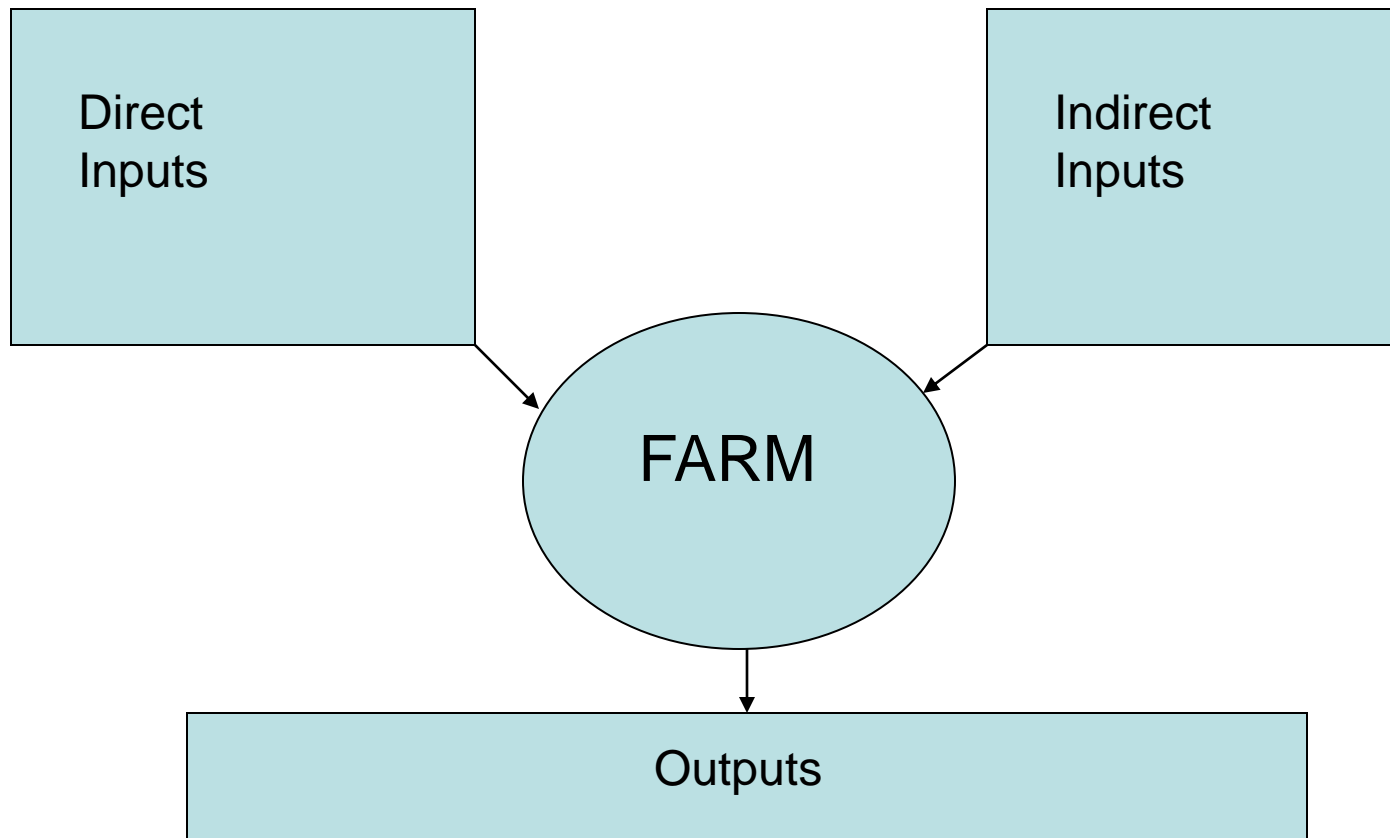


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# Current Situation

- 50,000 farms in Alberta
- Agriculture represents 3% (~50 PJ) of the provinces total energy use
- Motive vs non-motive is 70/30
- Between 1997 and 2007 there has been a 18% decrease in energy use
- Decrease to fuel efficient equipment, new technologies, changes in production and management practices

# Farm Energy Input



1. *Climate Change Action Strategy*
  - Irrigation efficiency – over 3 years about 240 producers have converted to low pressure centre pivot systems

Resulting in a saving of about 28 GW of energy and 4.7 million cubic meters of water

## *2. Growing Forward -*

### *On-Farm Energy Management Program*

- Focus on new construction, retrofits, assessments and renewable energy
- Incentives for better insulation, heating systems, ventilation systems and electrical motors.

# Challenges

1. Establishment of baseline information – initiative with Climate Change Central
2. Evaluation of emerging technologies and their application to agricultural production
3. Realizing a measureable difference and reasonable payback
4. Current economics of the industry segments
5. Managing indirect and by-products of production



Thank you  
*QUESTIONS?*

