

Water and Energy in Agriculture

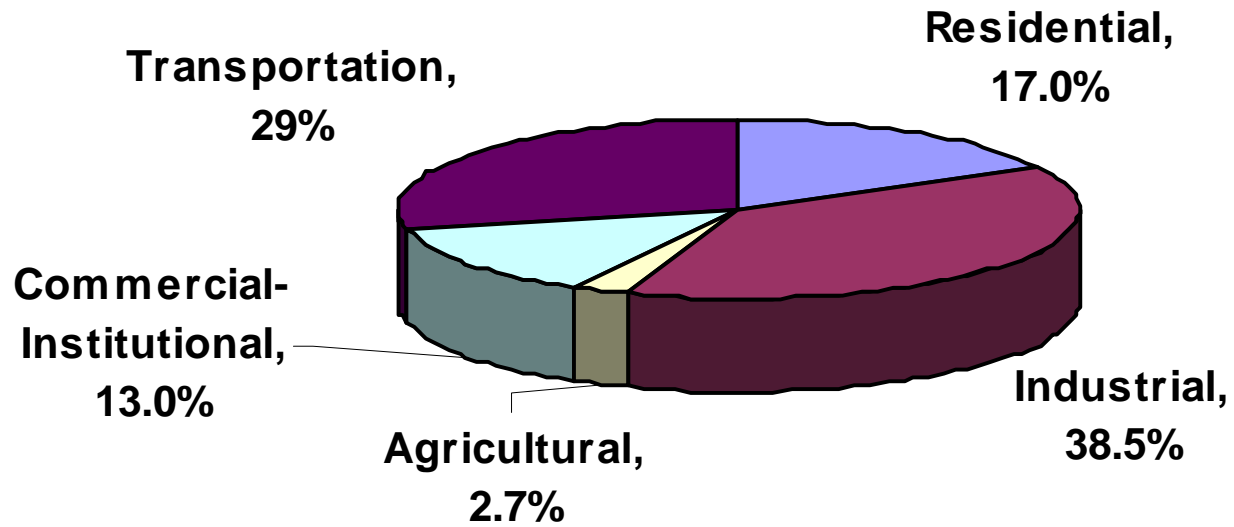
Chandra A. Madramootoo

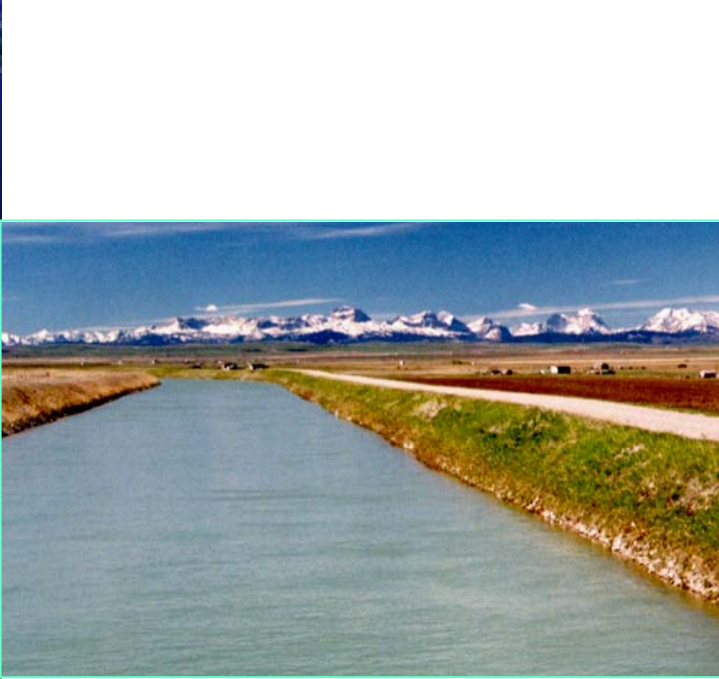
McGill University

Montreal, Canada

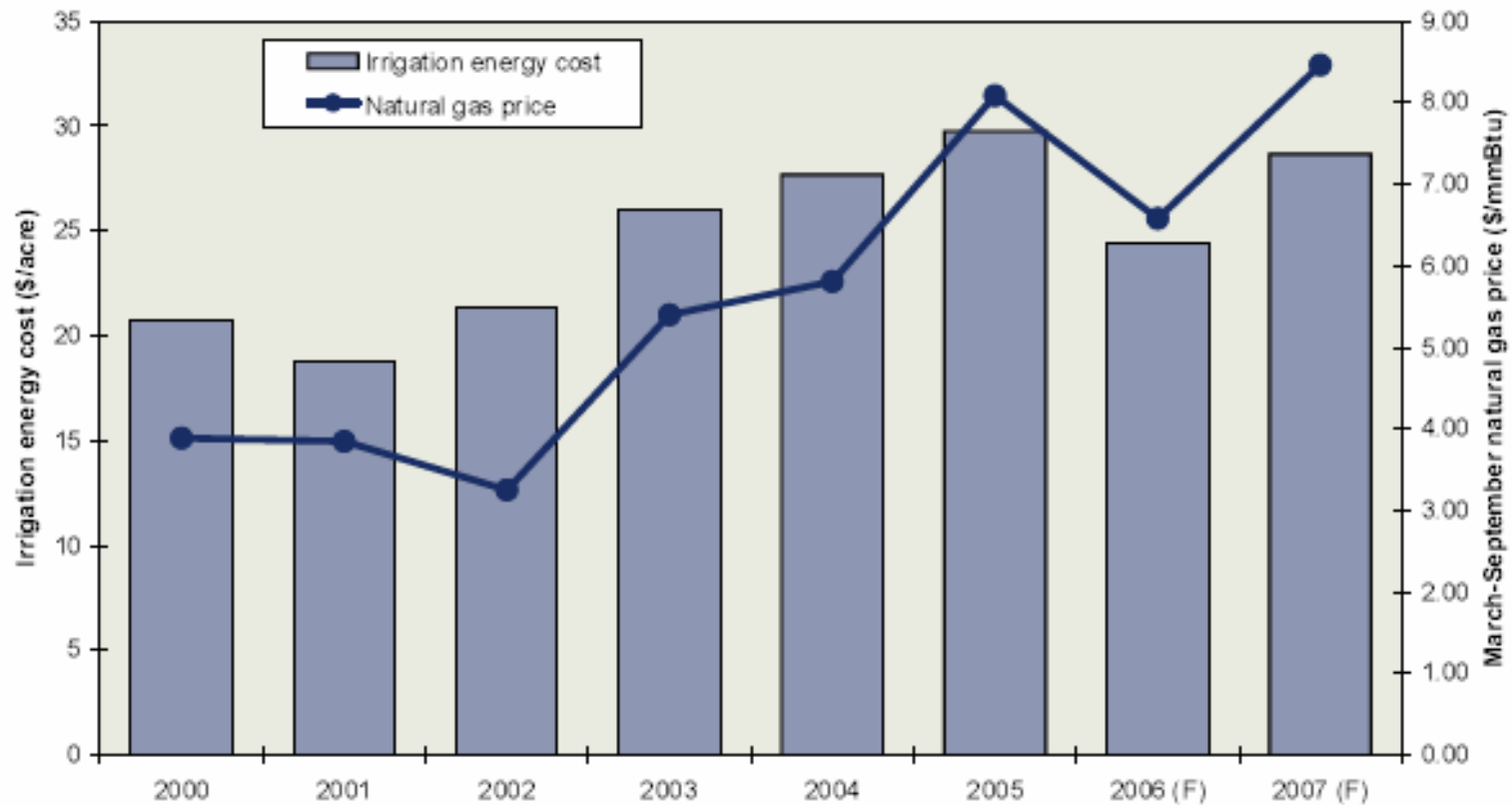


Energy Use By Sector In Canada





Irrigation Energy Costs for Irrigated Farms in Kansas Farm Management Association (KFMA), 2000-2007



Source: Kastens et al., Energy Use in the Kansas Agricultural Sector: Report Submitted to the Kansas Energy Council, June 15, 2006 (available on the KEC web site: <http://kec.kansas.gov/>).

Low energy – low pressure applicators



Drip irrigation

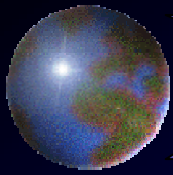


Solar powered water pumps

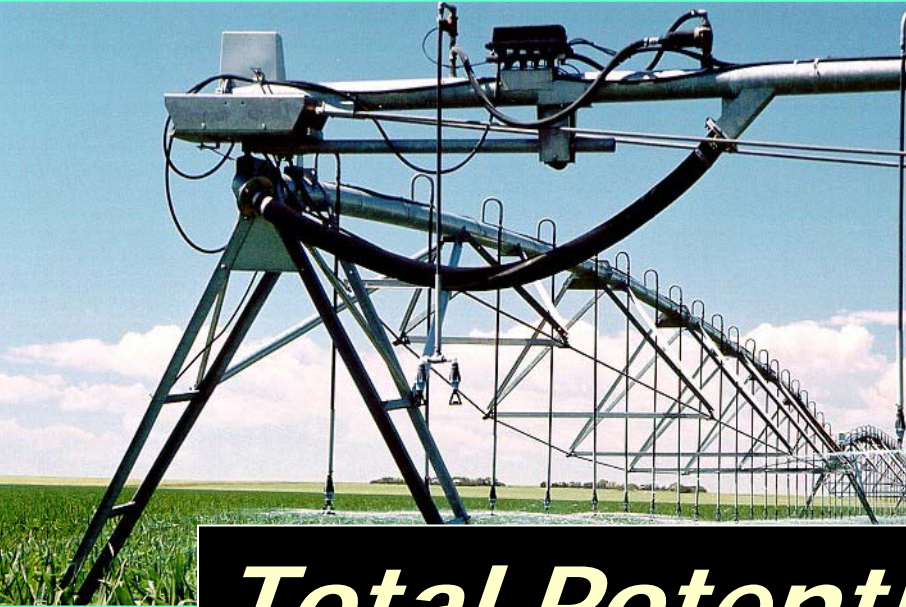


Solar powered pivots and mini pivots





Irrigation Efficiency Gains



Total Potential Gain ~ 20%





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Electricity generated by energy source in Canada

Electricity Generated by Energy Source in GWh
(total = 604,715)

