

Irrigation Pumping Energy Efficiency Assessment Tool

IPEEAT v2 ©

DISCOVER—YOUR SAVING


Case Study 1: Lateral Move

IPEEAT v2 CALCULATIONS



ACCURATELY MEASURED

Component.	Pump effy	Elevation (m)	Residual head (m)	Sum of head components	\$/ML annual pumping cost
Measured	65%	6m	15m	84m	\$91
Expected	75%	6m	15m	48m	\$45

Irrigation Pumping Energy Efficiency Assessment Tool		
IPEEAT © Rev 02		
ELECTRIC PUMPING		Input raw data into cells highlighted YELLOW
Location:		Turf Farm 1, Hawkesbury River, NSW
VARIABLES	Choice/Units	INPUTS
Emitter type	CP/LM/Boom, Gun, Knocker/Rotor, Drip, Flood, Transfer, Marine	CP LM Boom
Motor Type	Surface or Submersible	Surface
If surface motor	Direct coupled or belt drive ##	Belt
If subby, configuration	Bore hole pump: Yes/No ###	no
Filter	yes/no	no
Layflat	yes/no	yes
Residual Pressure*	kPa	150
Static Head **	metres head	6
Electricity tariff***	cents/kWh	24
Water pumped****	ML/yr	140
Actual Elect cost ****	\$/yr	12,800
Actual Pumping cost	\$/ML	91.4
Achievable Electric. cost	\$/yr	\$5,982
Achievable Pumping cost	\$/ML	42.7
Potential Savings Elect	\$/yr	\$6,818
Potential Savings Elect	%	53%
NPV (whole years) #	10	\$70,336



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