

ROI Calculation Breakdown

Calculations are determined based on research and third party analysis

$$\text{Balance Remaining} = \text{Mod. Cap Cost} - \text{Amount Saved} \\ \rightarrow \text{Total KW in system (cost/kW)} \\ - \text{grants/rebates}$$

$$\text{Balance Remaining} = \text{Capital Cost} - \text{Amount Saved} \\ + \text{loan interest?}$$

$$\text{Capital Cost} = \text{Total KW in system (cost/kW install)} \\ - \text{grants/rebates}$$

$$\text{Cost/kW install} = \text{cost of roof mount} + \text{cost of wiring} \\ + 15\% \text{ contingency} + 5\% \text{ proj. mgmt}$$

$$\text{Amount Saved} = \text{Power Produced (Power Price)} \\ - \text{Maintenance Costs} - \text{Other ins}$$

$$\text{Power Price} = \text{SaskPower rate} + 10\% \text{ muni charge} \\ + 10\% \text{ demand chg savings} + \text{PST} + \text{GST} \\ + \text{Increase/yr} \\ \rightarrow 5.5\%/\text{yr according to statement}$$

$$\text{Increase/yr} = \text{Power price increase} - \text{solar losses} \\ + \text{carbon tax}$$

$$\text{Maint. Costs} = \text{Total KW in system (\$10)} + \$250/25\text{KW} \\ + \$400/25\text{KW (year 6 and on)} \\ + 2.5\%/\text{yr} \\ \rightarrow \text{according to statement}$$