

Payback/ROI Calculator

A. Current Costs

1 Coolant - \$/Gal.	\$ 23.25
2 Coolant Purchases - Gal./month	108
3 Coolant Mix Ratio (%)	8%
4 Deliveries per month	1
5 Ave Delivery Cost	\$ 145.00
6 Water - \$/cubic foot	\$ -
7 Additives - \$/month	-
8 Sump Cleaning (Down Time) - Hr/Month	16
9 Coolant Syst Maintenance - Hr/Month	-
10 Down Time Caused by Fluid Issues/Month	16
11 Perishable Tooling - \$/Month	\$ -
12 Tool Changes - Hr/Day	0
13 Waste Volume - Gal/Month	1,000
14 Waste Disposal - \$/Gal	\$ 0.25
15 System Filtration - microns	0
16 Filter Elements - \$/Month	\$ -

Gal. Coolant Mixed/Month	
Purchased	108
Mix Ratio	8%
Gallons Mixed	1,350
Waste Disposal	1,000

This includes time spent cleaning out sumps for waste hauling

This includes changing filters, adding coolant, checking concentration

B. Other Assumptions

% of product Recycled	70%
Hourly rate for Maintenance Activities	\$ 60.00
Recycling System Maintenance - Hr/Month	4
Misc. Systems Costs	\$ 150.00

C. Estimated Savings

	Current Costs	% Recycled	Cost w/ Recycling
Monthly Coolant Purchases	\$ 2,511.00	70%	\$ 753.30
Monthly Delivery Costs	\$ 145.00	70%	\$ 43.50
Water Costs	\$ -	70%	\$ -
Additive Cost	\$ -	70%	\$ -
Sump Cleaning	\$ 960.00	70%	\$ 288.00
Waste Hauling /month	\$ 250.00	70%	\$ 75.00
Coolant System Maintenance	\$ -	70%	\$ -
System Filters	\$ -	70%	\$ -
Perishable Tooling Cost	\$ -	95%	* \$ -
Tooling Change Cost	\$ -	70%	\$ -
	\$ 3,866.00		\$ 1,159.80

* Based on industry studies.

Gross Monthly Savings Estimate \$ 2,706.20

D. New Costs

Recycling System Maintenance	\$ 240.00
Misc. Costs	\$ 150.00
Total New Costs	\$ 390.00
Equipment Cost	\$ 18,500.00

These estimates will vary widely based on the type of equipment/solution needed for the application.

Net Monthly Savings Estimate \$ 2,316.20

Net Payback Calculator	
Mos to Payback	Project Budget
6	\$ 13,897
12	\$ 27,794
18	\$ 41,692
24	\$ 55,589
30	\$ 69,486

Cost Savings Over 5 Years	
Year 1	\$ 27,794.40
Year 2	\$ 27,794.40
Year 3	\$ 27,794.40
Year 4	\$ 27,794.40
Year 5	\$ 27,794.40
	\$ 138,972.00
Less: Cost of Equipment	\$ (18,500.00)
Total Return on Investment	\$ 120,472.00