

USAP Infrastructure and Logistics Cost Model and Project Financial Analyses

April 2012

Project NPV Sensitivity to Fuel Price

Alternatives Higher/(Lower) than Base Case

Project	Base Case	Base Fuel	
		+ \$1/gal	- \$0.5/gal
Expand SPoT	13.6	2.17	(1.09)
Automate SPoT	41.3	1.30	(0.65)
Add Wind Turbines (MCM)	1.4	0.10	(0.05)
Solar Garage* (SP)	1.2	0.45	(0.23)
Install Wood Burner (MCM)	0.7	0.14	(0.07)
Burn Waste Oil (MCM)	0.7	1.80	(0.90)
Consolidate Warehouse (MCM)	0.5	0.68	(0.34)
Solar Panels* (SP)	0.23	0.03	(0.01)
Small Wind Turbine* (SP)	0.05	0.01	(0.00)
Expand Waste Heat (MCM)	-0.2	0.05	(0.03)
Add Building Insulation (MCM)	-1.1	1.02	(0.51)
20 C-17s to SP	-0.1	(0.14)	0.07

- Inflation rate is assumed to be 2.5% for the planning horizon
- The discount rate is assumed to be 2%

* Fuel assumed to be from 4 SPoT trips – i.e. the least amount of savings from the investment action