Table 3: Energy Plan Projects

CATEGORY		PROJECT NAME	IMPACTED BUILDING(S)	ANNUAL ESTIMATED SAVINGS			PROJECT FINANCIALS	
				Energy (GJe)	GHG (TCO2e)	Cost ($)	Gross Cost	Incremental Cost
Reduce Energy Demand	Capital Investment	Dust Extraction System	NE2 - NE4	432	3.00	12,555	749,000	71,000
		Welding Ventilation	NE8	7,158	265.00	108,075	2,700,000	343,000
		LED Outdoor Lighting	All	144	1.00	4,185	40,000	*
		High Efficiency Boiler	NE6	450	22.50	4,077	5,600	5,600
		Lighting Redesign	NE2	86	0.60	2,503	53,822	53,822
		Lighting Redesign	NE3	10	0.07	296	6,004	6,004
		Lighting Redesign	N4	45	0.31	1,296	28,832	28,832
		Lighting Redesign	N4 canopy	96	0.67	2,797	41,811	41,811
		Lighting Redesign	NE6	51	0.36	1,493	4,502	4,502
		Lighting Redesign	NE8	71	0.49	2,055	23,563	23,563
		Passivhaus NE1 – New Construction**	NE1	12,694	449.93	200,951	*	*
		Shop Envelope	NE2	110	5.50	997	*	*
		Air compressor/heat recovery	NE2	108	4.63	1,339	*	*
	Operational Changes	Heat Doctors	NE4	270	13.50	2,446	3,333	*
		Heat Doctors	NE2	100	5.00	906	3,333	*
		Heat Doctors	NE6	100	5.00	906	3,333	*
		Air Tightness Improvement	NE3 - Center	39	1.95	353	*	*
		Afresh Refresh	NE3 - Home	18	0.13	523	10,000	10,000
	Behavioural Change	Light Savers Campaign	NE2-NE4	360	2.50	10,463	5,000	*
		Community Energy Saving Initiatives	All	2500	*	*	*	*
	Business Practices Changes	Virtual Welding	NE8	54	0.38	1,569	60,000	*
		Outdoor Welding	NE6	*	*	*	*	*
Re-using Wasted Heat		Heat Recovery	NE8	1,500	75.00	13,590	*	*
Renewable Heat		Wood Waste to Energy	NE1	4,000	200.00	36,240	1,500,000	500,000
		Wood Waste to Energy	NE2	0	0	0	*	*
		Wood Waste to Energy	NE3 - Center	0	0	0	*	*
		Wood Waste to Energy	NE8	0	0	0	*	*
Renewable Electricity		N/A	N/A	N/A	N/A	N/A	N/A	N/A
			FACTOR FOUR TOTAL	30,395	1,057.50	409,616	5,238,133	1,083,134

*Unknown at this time **First step: develop a business case comparing Passivhaus standard vs. ASHRAE 90.1 and LEED Gold