

## Appendix 3.5.2 **Calculations**

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**Existing**

electricity (Mwh)	13,484	<b>46009.32273</b>	
natural gas (Mmbtu)	30,274	<b>30,274</b>	
gasoline (gallons)	1,201,685	1.44546E+11	<b>144545.9</b>
diesel (gallons)	543,432	74657231592	<b>74657.23</b>
<b>Total</b>			<b>295,486</b>

**Project**

electricity (Mwh)	81,336	<b>277529.9817</b>	
natural gas (Mmbtu)	3,806	<b>3,806</b>	
gasoline (gallons)	2,923,540	3.51661E+11	<b>351660.9</b>
diesel (gallons)	748,392	1.02815E+11	<b>102814.8</b>
<b>Total</b>			<b>735,812</b>

**Net Change**

electricity (Mwh)	67,851	<b>231517.2468</b>	
natural gas (Mmbtu)	-26,468	<b>-26,468</b>	
gasoline (gallons)	1,721,855	2.07115E+11	<b>207115.1</b>
diesel (gallons)	204,960	28157609760	<b>28157.61</b>
<b>Total</b>			<b>440,322</b>

1 Mwh= 3.412142 MMBTU

3.412142

1 gallon gasoline= 120,286 BTU

120,286

1 gallon diesel= 137,381 BTU

137,381

Total proposed development (sf)

1,600,000

172,000

1,695,976

200,000

22,400

5,700

**3,696,076**

1 kwh= 0.003412 MMBTU  
 0.003412  
 1 gallon gasoline= 120,286 BTU  
 120,286  
 1 gallon diesel= 137,381 BTU  
 137,381

**Electricity**

Water(kwh)	26,689	91.062868
Off-road (kwh)	56,309	192.126308
<b>Total (kwh)</b>	<b>82,998</b>	<b>283.189176</b>

**Diesel**

On-road (gallons)	480,639	66030666459	<b>66030.666</b>
Off-road (gallons)	2,389,804	3.28314E+11	<b>328313.66</b>
<b>Total</b>	<b>2,870,443</b>	<b>3.94344E+11</b>	<b>394344.33</b>

**Gasoline**

On-road (gallons)	809,457	97366344702	97366.345
<b>total (gallons)</b>	<b>809,457</b>	<b>97366344702</b>	<b>97366.345</b>

**total, total** **491993.86**