

# LIGNACITE CONCRETE BLOCK MANUFACTURING IN BRANDON, SUFFOLK

## Energy emissions statement:

Emissions Source	Annual Spend (£)	Annual Emissions
LPG	£27,997	310.1
Gas Oil	£49,277	37.7
Diesel	£141,327	38.8
Electricity	£125,541	574.9
<b>Totals</b>	<b>£344,142</b>	<b>961.6</b>

## Recommendations and identified savings:

Action	Cost Saving (£)	Carbon Savings	Est. Project Cost (£)
Monitor and manage energy use	£320	1.5	£96
Upgrade lighting and controls	£2,335	10.7	£2,900
Consider replacement of boilers	£2,546	28.8	£12,300
Consider heat recovery from kiln	£3,404	38.4	£10,213
Install PFC on remaining piece of equipment	£10,000	TBD	£20,000
<b>Totals</b>	<b>£18,605</b>	<b>79.4</b>	<b>£45,509</b>
<b>Proportion of spend</b>	<b>5.4%</b>	<b>8.3%</b>	<b>-</b>

## Progress Update:

Lignacite intends to access the programme's grant funding to replace the site's remaining halogen lamps with LED equivalents and to install power factor correction. Cost savings of £12,335 are therefore likely to be realised, together with at least 10.7tCO<sub>2</sub>e per year (lighting only). This investment of approximately £23,000 will therefore pay for itself in 1.9 years.

Roughly £6,500 of grant funding will be awarded to reduce the business' investment to £18,000 and the payback period to 1.4 years.

## Results:

Participating in the BEE Anglia programme identified new actions for the business to consider, and allowed them to continue making environmental improvements.

