



Manor Farm

Origin Green
In partnership with
Enviroeye Consulting Engineers









Enviroeye Engineering Ltd Consulting Engineers

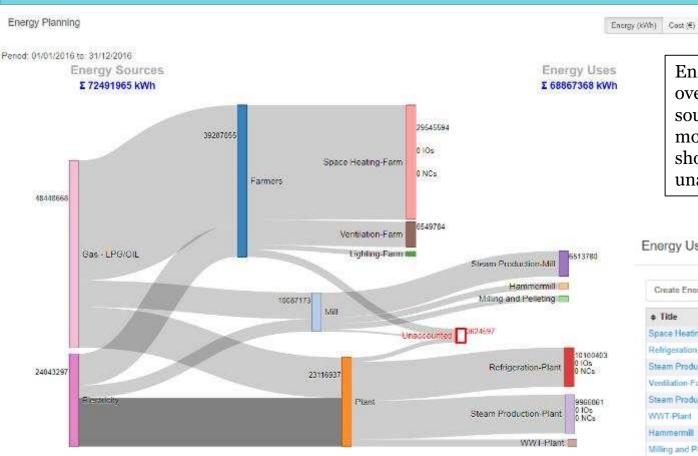






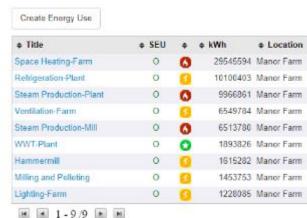


Manor Farm – Vertical SUPPLY CHAIN



Energy Planning gives an overview of the site from energy sources to which SEU's are the most energy intensive. It also shows any energy that is unaccounted for.

Energy Uses

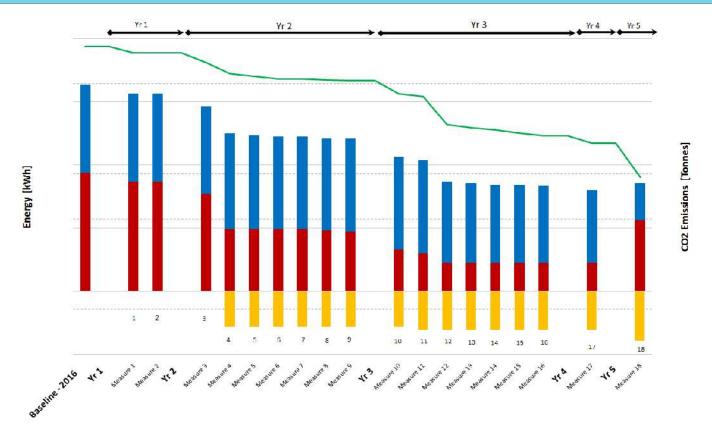




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Manor Farm – The Sustainable Strategy(Route)





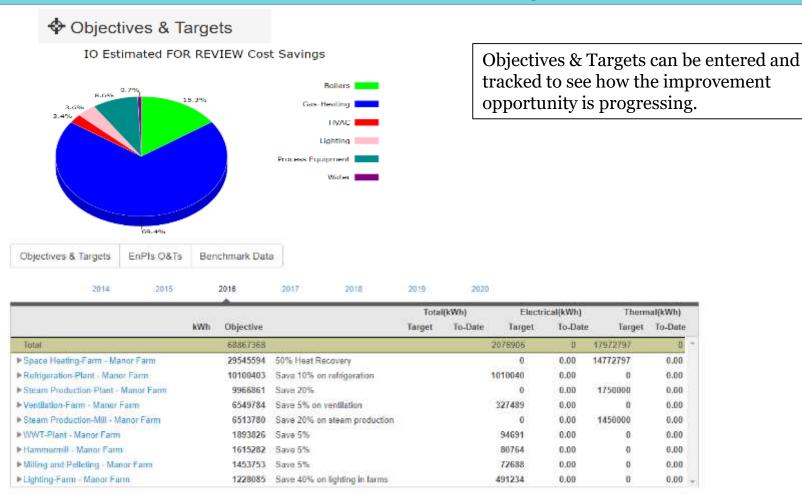








Manor Farm - Co2 - What are we doing about it?







On The Farm – Energy Balance- One House

- 1 Kg of Feed GIVES 0.6 Kgs of LIVE Weight
 - \circ FCR = 1.6
 - 1 Bird @ 2.2 Kgs = 3.5 Kgs of feed

Production Unit

50,000 Broilers =175 tonnes @4t/acre = 43 Acres of space

Inputs:

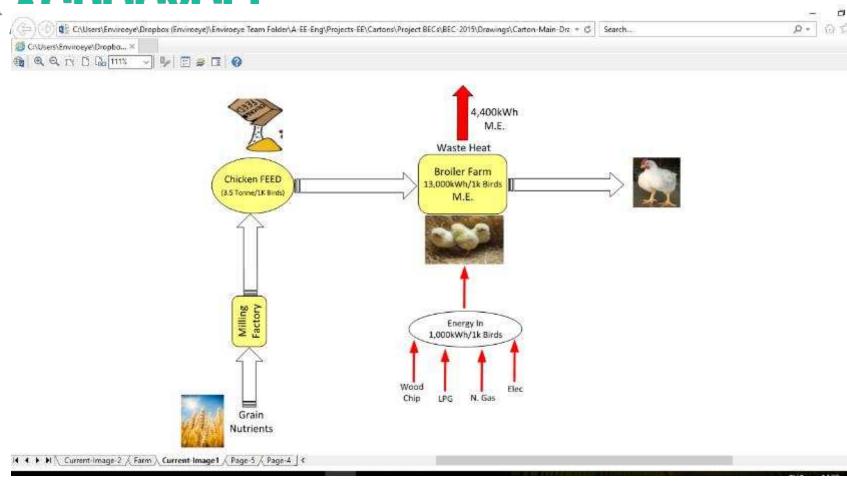
- Feed = 175 tonnes x 16 Mj/Kg = 823,429kWhe / 81,00 Oil [litres]
- Energy-Space Heating =30,000kWh or 3,000 litres of Oil
- Energy-Electricity = 10,000 kWh or 2,500 litres of Oil

Outputs:

50 Tonnes litter(digested feed-13Mj/kg) per 50k Bird/Batch + Drum Sticks !!!! [Litter Energy is 191,176 kWh & Site Input Energy 40,000 kWh = 20%(Est)]



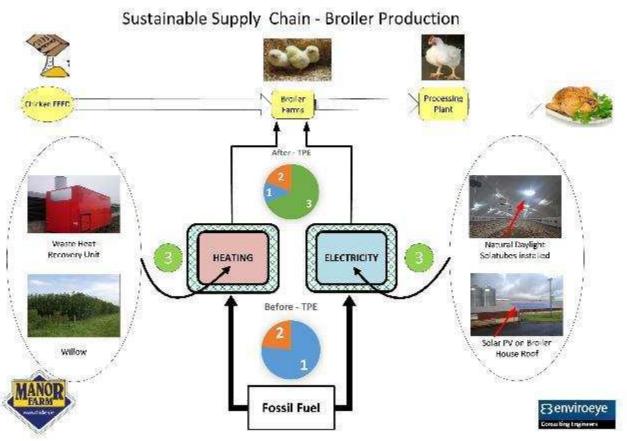






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Harper Adams University – AD Digester (Mini)

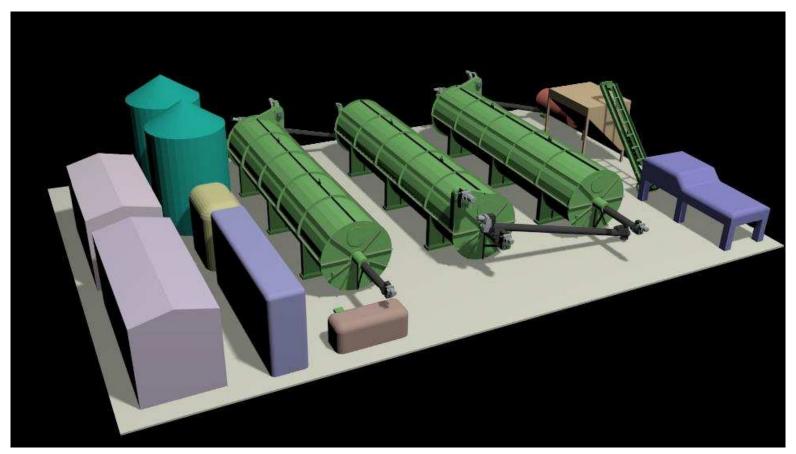








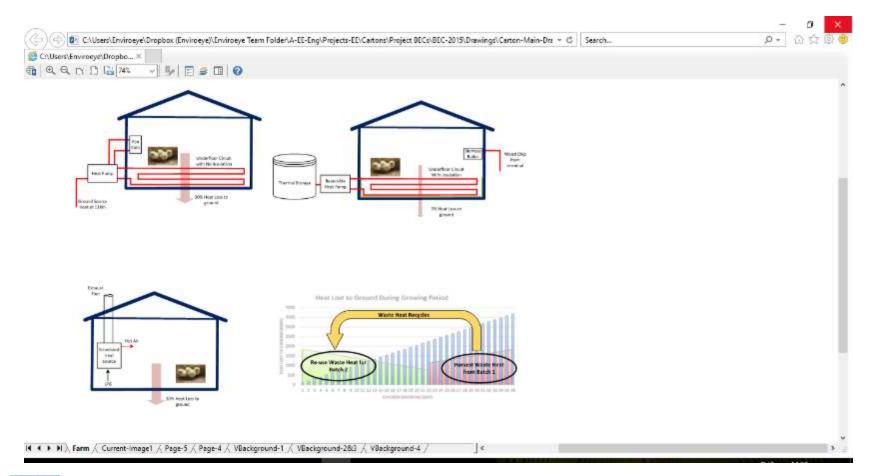
Ideal Target @ AD-Dry [100% Poultry Litter]







Feed Energy – Recycle – Chick Heat





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