






1	ID: 46	Title of measure	Sector: Food Processing Industry
2	Survey Year: 2007	Replacement of HPSV by CFLs	Technology : Lighting Systems
3	Name of the Company	: GlaxoSmithkline Consumer Healthcare Limited, Sonapat, Haryana, INDIA	
4	Agency that executed the project	: In-house	
5	Year of Implementation	: 2006-07	
6	<p>Unit Profile:</p> <p>Glaxo Smtihkline Consumer Healthcare Limited is an Indian group Company/associate of Glaxo Smithkline plc U.K. GlaxoSmtihkline Consumer Healthcare Limited is one of the largest players in the health food drinks industry in India. The Sonapat factory is involved in the manufacture of Horlicks, the flagship product of the Company, incorporating the highest and most stringent global manufacturing processes in the industry. The factory has a fully automated design that allows the product to be produced hygienically.</p>		
7	<p>Description of Energy Conservation Measure:-</p> <p>The in-house team conducted a rationalization study and reviewed the lighting system in the plant. The team inspected for the opportunities of energy conservation in terms of usage and required lighting levels. On the basis of the recommendations of the study, 55 Nos. of 70 W HPSV fittings were replaced by 11 W CFL's, and 400 W Mercury Vapor Lamps were replaced by 250 W Lamps.</p>		
8	<p>Picture Before Modification</p>  <p>70 W HPSV</p>	<p>Picture After Modification</p>  <p>11W CFL</p>	
9	Total investment :		1,250 US\$
10	First year energy cost savings :		5,625 US\$
11	First year additional savings beyond energy (i.e. water, raw materials etc.):		Nil
12	Annual electricity consumption before, MWh		-
13	Annual electricity consumption after, MWh		-
14	First year electricity savings, MWh		41
15	First year tons of CO ₂ mitigated		41
16	Assumed sustainability, years		10
17	Expected tons of CO₂ mitigated throughout life cycle		410

1	ID: 47	Title of measure	Sector: Food Processing Industry
2	Survey Year: 2007	Bio-composting of degradable waste	Technology : Bio-composting of degradable waste
3	Name of the Company : GlaxoSmithkline Consumer Healthcare Limited, Nabha, Punjab, INDIA		
4	Agency that executed the project : In-house		
5	Year of Implementation : 2006-07		
6	<p>Unit Profile:</p> <p>Glaxo Smtihkline Consumer Healthcare Limited is an Indian group Company/associate of Glaxo Smithkline plc U.K. GlaxoSmtihkline Consumer Healthcare Ltd. is one of the largest players in the health food drinks industry in India. The Nabha factory is involved in the manufacture of Horlicks, Boost, Maltova and Viva. Nabha site was inaugurated in 1961 and has grown from 1 unit-1 line plant to a 3 units-14 lines production plant. The production capacity has grown from 2 Kilo Tonnes Horlicks production to 51 Kilo Tonnes (Includes Horlicks, its variants and other health drinks).</p>		
7	<p>Description of Energy Conservation Measure:-</p> <p>The in-house energy management team, in its constant endeavor for improving the environment, recommended the development and deployment of 'Bio composting technique'.</p> <p>This technique not only reduces the environmental pollution through the use of incinerator, but also aims at conserving electrical and natural resources like diesel besides enhancing the community partnership of the company through providing natural manure to the farmers for increasing the yield of the crops.</p>		
8	<p>Picture Before Modification</p> 	<p>Picture After Modification</p> 	
9	Total investment :		750 US\$
10	First year energy cost savings :		5,750 US\$
11	First year additional savings beyond energy (i.e. water, raw materials etc.):		Nil
12	First year electricity savings,	MWh	26
13	First year oil savings,	kl	05
14	First year tons of CO ₂ mitigated		41
15	Assumed sustainability, years		10
16	Expected tons of CO₂ mitigated throughout life cycle		410

1	ID: 48	Title of measure	Sector: Food Processing Industry
2	Survey Year: 2007	Installation of solar heaters	Technology : Solar Heating
3	Name of the Company	: GlaxoSmithkline Consumer Healthcare Limited, Nabha, Punjab, INDIA	
4	Agency that executed the project	: In-house	
5	Year of Implementation	: 2006-07	
6	Unit Profile: Glaxo Smtihkline Consumer Healthcare Limited is an Indian group Company/associate of Glaxo Smithkline plc U.K. GlaxoSmtihkline Consumer Healthcare Ltd. is one of the largest players in the health food drinks industry in India. The Nabha factory is involved in the manufacture of Horlicks, Boost, Maltova and Viva. Nabha site was inaugurated in 1961 and has grown from 1 unit-1 line plant to a 3 units-14 lines production plant. The production capacity has grown from 2 Kilo Tonnes Horlicks production to 51 Kilo Tonnes (Includes Horlicks, its variants and other health drinks).		
7	Description of Energy Conservation Measure:- The in-house team replaced electric water heaters with solar water heaters of 500 liters per day capacity (2 in nos.) and 1000 liters per day capacity (1 in nos.). This measure helped in reducing energy consumption as well as giving a clean environment.		
8	Picture Before Modification	Picture After Modification	
			
9	Total investment :	11,275 US\$	
10	First year energy cost savings :	3,625 US\$	
11	First year additional savings beyond energy (i.e. water, raw materials etc.):	Nil	
12	Annual electricity consumption before, MWh	-	
13	Annual electricity consumption after, MWh	-	
14	First year electricity savings, MWh	32	
15	First year tons of CO ₂ mitigated	32	
16	Assumed sustainability, years	10	
17	Expected tons of CO₂ mitigated throughout life cycle	320	