

**PENETRATION LEVEL OF ENERGY EFFICIENT TECHNOLOGIES IDENTIFIED
UNDER
BEE SME PROGRAMME
(Gujarat Dairy Cluster)**

a. Cluster Background

Sl. No.	Particulars	Value
1	No. of Units, Numbers	22
2	Total Energy Consumption, toe	9349
3	Energy Saving Potential, toe	1284

b. Energy Efficient Technologies Identified

S No	Proposed Technology	Document Id	Monetary Savings (in Rs. Lakhs)	Investment (in Rs. Lakhs)	Penetration Level (in number of units)	Total investment required (in Rs. Lakhs)
1	Low Loss & Compact Thermal Storage Technology (65 TRH)	GUJ/DRY/IBT/01	1.03	3.24	9	29.2
2	Low Loss & Compact Thermal Storage Technology (300 TRH)	GUJ/DRY/IBT/02	4.28	14.87	9	133.8
3	Low Loss & Compact Thermal Storage Technology (420 TRH)	GUJ/DRY/IBT/03	5.91	20.89	4	83.6
4	Desuper Heater System (100 TR)	GUJ/DRY/DSH/04	5.36	20.81	7	145.7
5	Desuper Heater System (250 TR)	GUJ/DRY/DSH/05	10.85	32.7	7	228.9
6	Methane Capture (By Anaerobic Treatment Of 500 M ³ /Hr Effluent) Technology	GUJ/DRY/MCP/06	25.91	96.81	2	193.6
7	Methane Capture (By Anaerobic Treatment Of 1000 M ³ /Hr Effluent) Technology	GUJ/DRY/MCP/07	105.82	247.56	1	247.6
8	Solar Water Heating System of 5000 LPD	GUJ/DRY/SWH/08	2.84	6.54	5	32.7
9	Solar Water Heating System of 7000 LPD	GUJ/DRY/SWH/09	3.97	8.56	5	42.8
10	Solar Water Heating System of 10000 LPD	GUJ/DRY/SWH/10	5.67	11.87	2	23.7
11	High Efficiency Electric Motor (30 kW)	GUJ/DRY/EFF/11	0.91	1.86	6	11.2
12	High Efficiency Electric Motor (55 kW)	GUJ/DRY/EFF/12	1.74	2.42	6	14.5
13	High Efficiency Electric Motor (75 kW)	GUJ/DRY/EFF/13	2.02	3.79	3	11.4
14	Energy Conservation For Motor (30 kW) By Soft starter	GUJ/DRY/SSA/14	0.69	1.44	11	15.8
15	Energy Conservation For Motor (75 kW) By Soft starter	GUJ/DRY/SSA/15	1.47	2.45	10	24.5
Total investment required for energy efficiency interventions in Gujarat (Dairy) Cluster						1239