

Specific energy consumption (SEC) comparison of MSME clusters

Disaggregation levels				SEC (TOE/T)		
S. No	Sub-sector	Clusters	Product/process	Minimum	Average	Maximum
1	Brass	Bhubaneshwar	Utensils	0.46	1.36	2.08
		Jamnagar	Extrusion	0.08	0.10	0.19
			Foundry	0.06	0.08	0.11
			Electroplating	0.03	0.08	0.14
			Machining	0.01	0.04	0.19
		Jagadhari	Brass	0.29	0.73	0.96
			Aluminium	0.25	1.19	2.75
		NachiarKoil	Lamps	--	0.004	--
2	Brick	Varanasi	Fired clay bricks	0.024	0.028	0.033
3	Ceramics& refractories	Morbi	Vitrified tiles	--	0.22	--
		East & West Godavari	Refractory bricks	0.10	0.74	1.76
			Ceramic jars	0.67	0.90	1.19
		Khurja	Tunnel kiln	--	0.17	--
			Shuttle kiln	--	0.47	--
		Thangarh	Tiles, sanitary ware	--	0.08	--
4	Chemical	Ahmedabad	Chemicals	0.01	0.52	1.06
			Dyes	0.03	0.69	1.54
		Vapi	Chemicals	0.01	0.55	2.76
			Dyes and pigments	0.02	0.44	1.98
5	Coir	Alleppey	Dyeing	--	0.71	--
			PVC tufting*	--	0.008	--
			Powerloom matting*	--	0.014	--
			Rubberisec Coir mat**	--	0.007	--
6	Dairy	Gujarat	Milk, chilling, pasturization & dispatch	0.002	0.003	0.007
			Other milk products	0.009	0.097	0.21

		Punjab	Dairy products	--	0.012	--
7	Foundry	Batala, Jalandhar, Ludhiana	Cupola	--	0.127	--
			Rotary Furnace	--	0.167	--
			Induction Furnace	--	0.129	--
		Belgaum	Cupola	0.045	0.069	0.093
			Induction Furnace	0.048	0.058	0.067
		Coimbatore	Cupola	0.043	0.075	0.11
			Induction Furnace	0.048	0.058	0.067
		Indore	Foundry products	--	0.136	--
8	Galvanizing and drawing	Howrah	Galvanizing	0.03	0.10	0.17
			Wire Drawing	0.01	0.04	0.07
9	Hand Tools	Jalandhar	Forging and heat treatment	--	0.41	--
		Nagaur	Forging and machining	--	0.31	--
10	Ice making	Bhimavaram	Ice blocks	0.001	0.008	0.013
11	Limestone	Jodhpur	Hydrated and quick lime	0.03	0.14	0.37
12	Machine Tools	Bangalore	Machined parts and components	0.07	0.24	0.52
13	Oil Mill	Alwar	Oil (raw and refined)	--	0.012	--
14	Paper	Muzzafarnagar	Kraft paper	0.06	0.45	1.05
15	Rice mill	Ganjam	Rice	0.26	0.37	0.48
		Vellore	Rice processing	0.036	0.088	0.143
		Warangal	Raw rice	0.001	0.003	0.004
			Parboiled rice	0.053	0.063	0.086
16	Seafood processing	Kochi	Seafood	0.032	0.052	0.072
17	Sponge Iron	Orissa	Sponge Iron	0.64	0.70	0.82
18	Tea	Jorhat	Coal Based	0.58	0.70	0.82
			Natural Gas Based	0.40	0.50	0.60
19	Textiles	Pali	Power unit***	--	0.11	--
			Manual unit***	--	0.05	--
		Solapur	Towels and blankets	0.07	0.34	1.58

		Surat	Dyeing, printing and weaving***		0.20	
		Tiruppur	Compacting	0.02	0.07	0.31
			Dyeing and bleaching	0.49	1.02	2.06
			Washing, heat setting and drying	0.23	0.63	0.92
			Knitting	0.01	0.02	0.04
20	Glass	Firozabad	Bangles	--	0.01	--
21	Tobacco	Karnatka + Andhra Pradesh	Tobacco curing	--	2.45	--

Note: Maximum and minimum values could be computed for those clusters in which energy audit reports were available

*TOE/1000 SQm

**TOE/1000 mats

*** TOE/Km

Source:

TERI-AFD-BEE-ADEME (2012): 'Benchmarking and mapping Indian MSMEs energy consumption'