

Released: August 2021  
 Next MECS will be fielded in 2023.

**Table 8.4 Number of Establishments by Participation in Specific Energy-Management Activities, 2018**

Level: National Data;  
 Row: Specific Energy-Management Activities within NAICS Codes;  
 Column: Participation;  
 Unit: Establishment Counts.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know
<b>Total United States</b>				
<b>311 - 339</b>	<b>All Manufacturing Industries</b>			
	Person(s) Responsible for Energy Management (c)	117,234	29,330	34,562
	Aware of ISO 50001	127,495	41,499	--
	Implementing ISO 50001	37,878	5,730	--
	Energy Efficiency a part of Purchasing Decision	39,959	131,003	10,164
	Energy Use Baseline for Comparing Energy Use in Future Years	86,546	42,701	51,879
	Set Goals for Improving Energy Consumption	90,034	42,200	48,893
	Quantitative Goals	12,062	21,310	147,754
	Submetering (metering beyond the main utility, revenue or supplier meter)	155,405	14,575	--
	Conduct Audits to Identify Energy Saving Opportunities	119,913	22,876	38,337
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	109,117	25,426	46,583
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	122,640	11,437	47,050
	Measure Oxygen and Carbon Dioxide Levels (f)	112,861	18,399	49,866
	Use Flue Gas to Preheat Other Equipment or Processes (g)	125,632	8,664	46,830
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	61,818	67,480	51,828
	Cleaning of Heat Transfer Equipment (i)	59,415	64,995	56,716
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	56,429	66,421	58,276
	Keep an Inventory of All Motors	82,996	51,474	46,656
	Detect and Control Compressed Air Leaks (l)	82,450	50,534	48,142
	Track the Amount of Energy Spent in Compressed Air Systems	125,532	8,417	47,177
<b>311</b>	<b>Food</b>			
	Person(s) Responsible for Energy Management (c)	8,948	3,336	3,558
	Aware of ISO 50001	11,599	2,836	--
	Implementing ISO 50001	2,479	502	--
	Energy Efficiency a part of Purchasing Decision	3,025	11,647	1,170
	Energy Use Baseline for Comparing Energy Use in Future Years	6,391	4,444	5,007
	Set Goals for Improving Energy Consumption	6,405	4,713	4,724
	Quantitative Goals	1,227	2,454	12,162
	Submetering (metering beyond the main utility, revenue or supplier meter)	12,292	2,245	--
	Conduct Audits to Identify Energy Saving Opportunities	9,458	2,257	4,127
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	9,602	1,951	4,289
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	10,614	1,020	4,208
	Measure Oxygen and Carbon Dioxide Levels (f)	8,009	3,450	4,384
	Use Flue Gas to Preheat Other Equipment or Processes (g)	9,725	1,991	4,126
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	3,375	8,090	4,377
	Cleaning of Heat Transfer Equipment (i)	3,100	8,119	4,623
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	2,761	8,515	4,566
	Keep an Inventory of All Motors	6,039	5,994	3,809
	Detect and Control Compressed Air Leaks (l)	7,631	4,004	4,207
	Track the Amount of Energy Spent in Compressed Air Systems	10,287	1,075	4,480
<b>3112</b>	<b>Grain and Oilseed Milling</b>			
	Person(s) Responsible for Energy Management (c)	213	243	155
	Aware of ISO 50001	296	241	--
	Implementing ISO 50001	211	30	--
	Energy Efficiency a part of Purchasing Decision	56	486	70
	Energy Use Baseline for Comparing Energy Use in Future Years	85	338	188
	Set Goals for Improving Energy Consumption	151	329	131
	Quantitative Goals	40	255	315
	Submetering (metering beyond the main utility, revenue or supplier meter)	386	186	--
	Conduct Audits to Identify Energy Saving Opportunities	280	120	211
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	290	144	176
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	335	63	213
	Measure Oxygen and Carbon Dioxide Levels (f)	161	207	243
	Use Flue Gas to Preheat Other Equipment or Processes (g)	247	135	229
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	79	316	216

	Cleaning of Heat Transfer Equipment (i)	82	301	228
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	83	301	227
	Keep an Inventory of All Motors	133	336	142
	Detect and Control Compressed Air Leaks (l)	241	213	156
	Track the Amount of Energy Spent in Compressed Air Systems	298	84	229
<b>311221</b>	<b>Wet Corn Milling</b>			
	Person(s) Responsible for Energy Management (c)	D	27	D
	Aware of ISO 50001	30	22	--
	Implementing ISO 50001	17	5	--
	Energy Efficiency a part of Purchasing Decision	4	48	0
	Energy Use Baseline for Comparing Energy Use in Future Years	12	40	0
	Set Goals for Improving Energy Consumption	14	38	0
	Quantitative Goals	4	33	14
	Submetering (metering beyond the main utility, revenue or supplier meter)	21	31	--
	Conduct Audits to Identify Energy Saving Opportunities	33	D	D
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	29	D	D
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	43	D	D
	Measure Oxygen and Carbon Dioxide Levels (f)	15	27	9
	Use Flue Gas to Preheat Other Equipment or Processes (g)	20	23	10
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	D	43	D
	Cleaning of Heat Transfer Equipment (i)	6	40	6
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	44	D
	Keep an Inventory of All Motors	D	47	D
	Detect and Control Compressed Air Leaks (l)	24	25	3
	Track the Amount of Energy Spent in Compressed Air Systems	33	D	D
<b>31131</b>	<b>Sugar Manufacturing</b>			
	Person(s) Responsible for Energy Management (c)	24	25	21
	Aware of ISO 50001	36	26	--
	Implementing ISO 50001	24	3	--
	Energy Efficiency a part of Purchasing Decision	14	48	9
	Energy Use Baseline for Comparing Energy Use in Future Years	15	34	21
	Set Goals for Improving Energy Consumption	15	35	20
	Quantitative Goals	7	19	44
	Submetering (metering beyond the main utility, revenue or supplier meter)	45	17	--
	Conduct Audits to Identify Energy Saving Opportunities	31	18	21
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	29	19	22
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	37	10	23
	Measure Oxygen and Carbon Dioxide Levels (f)	10	37	23
	Use Flue Gas to Preheat Other Equipment or Processes (g)	14	29	27
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	6	46	18
	Cleaning of Heat Transfer Equipment (i)	8	44	18
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	7	45	18
	Keep an Inventory of All Motors	8	45	17
	Detect and Control Compressed Air Leaks (l)	18	31	21
	Track the Amount of Energy Spent in Compressed Air Systems	34	10	25
<b>3114</b>	<b>Fruit and Vegetable Preserving and Specialty Foods</b>			
	Person(s) Responsible for Energy Management (c)	425	395	228
	Aware of ISO 50001	701	271	--
	Implementing ISO 50001	266	28	--
	Energy Efficiency a part of Purchasing Decision	151	821	0
	Energy Use Baseline for Comparing Energy Use in Future Years	291	509	247
	Set Goals for Improving Energy Consumption	388	398	261
	Quantitative Goals	85	251	711
	Submetering (metering beyond the main utility, revenue or supplier meter)	773	175	--
	Conduct Audits to Identify Energy Saving Opportunities	519	273	255
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	604	169	274
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	715	72	260
	Measure Oxygen and Carbon Dioxide Levels (f)	308	465	274
	Use Flue Gas to Preheat Other Equipment or Processes (g)	483	274	289
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	191	673	183
	Cleaning of Heat Transfer Equipment (i)	150	694	203
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	156	709	182
	Keep an Inventory of All Motors	242	550	256
	Detect and Control Compressed Air Leaks (l)	487	362	198
	Track the Amount of Energy Spent in Compressed Air Systems	706	89	252
<b>3115</b>	<b>Dairy Products</b>			

Person(s) Responsible for Energy Management (c)	373	502	162
Aware of ISO 50001	666	326	--
Implementing ISO 50001	302	26	--
Energy Efficiency a part of Purchasing Decision	113	884	39
Energy Use Baseline for Comparing Energy Use in Future Years	178	622	236
Set Goals for Improving Energy Consumption	262	560	215
Quantitative Goals	124	339	573
Submetering (metering beyond the main utility, revenue or supplier meter)	722	269	--
Conduct Audits to Identify Energy Saving Opportunities	589	260	188
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	651	236	149
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	755	145	136
Measure Oxygen and Carbon Dioxide Levels (f)	431	414	191
Use Flue Gas to Preheat Other Equipment or Processes (g)	612	226	198
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	160	732	144
Cleaning of Heat Transfer Equipment (i)	110	772	154
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	117	787	132
Keep an Inventory of All Motors	257	664	115
Detect and Control Compressed Air Leaks (l)	443	461	132
Track the Amount of Energy Spent in Compressed Air Systems	744	143	148
<b>3116 Animal Slaughtering and Processing</b>			
Person(s) Responsible for Energy Management (c)	856	489	497
Aware of ISO 50001	1,210	420	--
Implementing ISO 50001	396	47	--
Energy Efficiency a part of Purchasing Decision	346	1,346	151
Energy Use Baseline for Comparing Energy Use in Future Years	667	532	643
Set Goals for Improving Energy Consumption	726	481	635
Quantitative Goals	67	302	1,473
Submetering (metering beyond the main utility, revenue or supplier meter)	1,403	230	--
Conduct Audits to Identify Energy Saving Opportunities	1,045	310	487
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	983	209	650
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,071	122	649
Measure Oxygen and Carbon Dioxide Levels (f)	653	484	705
Use Flue Gas to Preheat Other Equipment or Processes (g)	964	243	635
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	230	1,021	592
Cleaning of Heat Transfer Equipment (i)	329	939	574
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	211	1,062	569
Keep an Inventory of All Motors	595	760	487
Detect and Control Compressed Air Leaks (l)	693	543	606
Track the Amount of Energy Spent in Compressed Air Systems	1,099	106	637
<b>312 Beverage and Tobacco Products</b>			
Person(s) Responsible for Energy Management (c)	2,298	1,024	616
Aware of ISO 50001	2,845	1,011	--
Implementing ISO 50001	856	160	--
Energy Efficiency a part of Purchasing Decision	600	3,201	137
Energy Use Baseline for Comparing Energy Use in Future Years	1,585	1,423	929
Set Goals for Improving Energy Consumption	1,769	1,426	743
Quantitative Goals	423	758	2,757
Submetering (metering beyond the main utility, revenue or supplier meter)	3,533	332	--
Conduct Audits to Identify Energy Saving Opportunities	2,619	533	787
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,963	986	988
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2,502	448	988
Measure Oxygen and Carbon Dioxide Levels (f)	2,315	495	1,128
Use Flue Gas to Preheat Other Equipment or Processes (g)	2,559	190	1,189
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	1,318	1,436	1,184
Cleaning of Heat Transfer Equipment (i)	1,140	1,567	1,231
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	955	1,835	1,148
Keep an Inventory of All Motors	1,650	1,369	919
Detect and Control Compressed Air Leaks (l)	2,040	1,019	879
Track the Amount of Energy Spent in Compressed Air Systems	2,699	219	1,020
<b>3121 Beverages</b>			
Person(s) Responsible for Energy Management (c)	2,253	991	608
Aware of ISO 50001	2,796	976	--
Implementing ISO 50001	825	156	--
Energy Efficiency a part of Purchasing Decision	D	3,127	D
Energy Use Baseline for Comparing Energy Use in Future Years	1,554	1,380	919
Set Goals for Improving Energy Consumption	1,731	1,390	732
Quantitative Goals	420	729	2,704
Submetering (metering beyond the main utility, revenue or supplier meter)	3,467	314	--

Conduct Audits to Identify Energy Saving Opportunities	2,559	520	774
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,909	973	971
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2,443	438	971
Measure Oxygen and Carbon Dioxide Levels (f)	2,276	466	1,112
Use Flue Gas to Preheat Other Equipment or Processes (g)	2,505	178	1,171
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	1,284	1,396	1,173
Cleaning of Heat Transfer Equipment (i)	1,113	1,524	1,216
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	931	1,790	1,132
Keep an Inventory of All Motors	1,624	1,322	907
Detect and Control Compressed Air Leaks (l)	2,006	985	862
Track the Amount of Energy Spent in Compressed Air Systems	2,653	196	1,004
<b>3122 Tobacco</b>			
Person(s) Responsible for Energy Management (c)	45	32	8
Aware of ISO 50001	49	35	--
Implementing ISO 50001	31	4	--
Energy Efficiency a part of Purchasing Decision	D	74	D
Energy Use Baseline for Comparing Energy Use in Future Years	31	43	11
Set Goals for Improving Energy Consumption	38	36	11
Quantitative Goals	3	30	53
Submetering (metering beyond the main utility, revenue or supplier meter)	66	18	--
Conduct Audits to Identify Energy Saving Opportunities	59	13	12
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	54	13	17
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	59	10	16
Measure Oxygen and Carbon Dioxide Levels (f)	40	30	16
Use Flue Gas to Preheat Other Equipment or Processes (g)	54	12	19
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	34	40	11
Cleaning of Heat Transfer Equipment (i)	27	43	15
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	23	45	16
Keep an Inventory of All Motors	26	47	12
Detect and Control Compressed Air Leaks (l)	34	35	16
Track the Amount of Energy Spent in Compressed Air Systems	46	23	16
<b>313 Textile Mills</b>			
Person(s) Responsible for Energy Management (c)	904	324	132
Aware of ISO 50001	996	337	--
Implementing ISO 50001	331	15	--
Energy Efficiency a part of Purchasing Decision	231	1,106	Q
Energy Use Baseline for Comparing Energy Use in Future Years	729	370	261
Set Goals for Improving Energy Consumption	745	398	217
Quantitative Goals	80	247	1,033
Submetering (metering beyond the main utility, revenue or supplier meter)	1,190	138	--
Conduct Audits to Identify Energy Saving Opportunities	915	176	268
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	793	387	180
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,092	51	217
Measure Oxygen and Carbon Dioxide Levels (f)	899	192	268
Use Flue Gas to Preheat Other Equipment or Processes (g)	989	104	268
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	463	585	312
Cleaning of Heat Transfer Equipment (i)	403	587	370
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	410	587	363
Keep an Inventory of All Motors	672	471	217
Detect and Control Compressed Air Leaks (l)	642	500	218
Track the Amount of Energy Spent in Compressed Air Systems	1,012	148	200
<b>314 Textile Product Mills</b>			
Person(s) Responsible for Energy Management (c)	2,093	457	1,566
Aware of ISO 50001	3,074	665	--
Implementing ISO 50001	599	Q	--
Energy Efficiency a part of Purchasing Decision	1,086	2,654	Q
Energy Use Baseline for Comparing Energy Use in Future Years	1,957	597	1,562
Set Goals for Improving Energy Consumption	1,819	1,010	1,287
Quantitative Goals	Q	148	3,694
Submetering (metering beyond the main utility, revenue or supplier meter)	3,657	Q	--
Conduct Audits to Identify Energy Saving Opportunities	2,612	Q	1,212
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,994	Q	1,782
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2,051	Q	2,003
Measure Oxygen and Carbon Dioxide Levels (f)	2,746	79	1,292
Use Flue Gas to Preheat Other Equipment or Processes (g)	2,732	Q	1,323
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	1,807	644	1,666
Cleaning of Heat Transfer Equipment (i)	1,245	746	2,125

	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	1,156	800	2,159
	Keep an Inventory of All Motors	1,732	553	1,830
	Detect and Control Compressed Air Leaks (l)	2,036	Q	1,693
	Track the Amount of Energy Spent in Compressed Air Systems	2,179	Q	1,724
<b>315</b>	<b>Apparel</b>			
	Person(s) Responsible for Energy Management (c)	2,957	Q	791
	Aware of ISO 50001	3,284	38	--
	Implementing ISO 50001	50	0	--
	Energy Efficiency a part of Purchasing Decision	1,006	2,400	Q
	Energy Use Baseline for Comparing Energy Use in Future Years	2,470	Q	1,005
	Set Goals for Improving Energy Consumption	2,246	788	823
	Quantitative Goals	Q	89	3,296
	Submetering (metering beyond the main utility, revenue or supplier meter)	2,929	Q	--
	Conduct Audits to Identify Energy Saving Opportunities	2,358	782	716
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	2,558	113	1,185
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2,626	Q	1,197
	Measure Oxygen and Carbon Dioxide Levels (f)	2,784	77	995
	Use Flue Gas to Preheat Other Equipment or Processes (g)	2,387	Q	1,224
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	1,854	642	1,360
	Cleaning of Heat Transfer Equipment (i)	1,585	623	1,648
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	1,111	Q	2,325
	Keep an Inventory of All Motors	2,039	582	1,235
	Detect and Control Compressed Air Leaks (l)	2,463	193	1,200
	Track the Amount of Energy Spent in Compressed Air Systems	2,387	Q	1,420
<b>316</b>	<b>Leather and Allied Product</b>			
	Person(s) Responsible for Energy Management (c)	340	120	196
	Aware of ISO 50001	530	90	--
	Implementing ISO 50001	88	4	--
	Energy Efficiency a part of Purchasing Decision	167	458	Q
	Energy Use Baseline for Comparing Energy Use in Future Years	438	52	165
	Set Goals for Improving Energy Consumption	325	47	283
	Quantitative Goals	4	21	630
	Submetering (metering beyond the main utility, revenue or supplier meter)	609	12	--
	Conduct Audits to Identify Energy Saving Opportunities	381	74	200
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	399	76	180
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	339	Q	261
	Measure Oxygen and Carbon Dioxide Levels (f)	470	14	172
	Use Flue Gas to Preheat Other Equipment or Processes (g)	508	D	D
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	280	145	230
	Cleaning of Heat Transfer Equipment (i)	232	146	277
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	202	181	272
	Keep an Inventory of All Motors	316	115	224
	Detect and Control Compressed Air Leaks (l)	239	157	259
	Track the Amount of Energy Spent in Compressed Air Systems	407	5	243
<b>321</b>	<b>Wood Products</b>			
	Person(s) Responsible for Energy Management (c)	6,520	798	2,117
	Aware of ISO 50001	7,017	1,474	--
	Implementing ISO 50001	1,566	183	--
	Energy Efficiency a part of Purchasing Decision	2,257	6,492	686
	Energy Use Baseline for Comparing Energy Use in Future Years	4,166	2,192	3,077
	Set Goals for Improving Energy Consumption	4,486	1,864	3,085
	Quantitative Goals	686	569	8,179
	Submetering (metering beyond the main utility, revenue or supplier meter)	8,205	516	--
	Conduct Audits to Identify Energy Saving Opportunities	5,760	987	2,689
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	5,113	1,364	2,958
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5,796	544	3,094
	Measure Oxygen and Carbon Dioxide Levels (f)	5,815	938	2,682
	Use Flue Gas to Preheat Other Equipment or Processes (g)	6,325	335	2,775
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	3,507	3,323	2,605
	Cleaning of Heat Transfer Equipment (i)	3,218	3,513	2,704
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	3,384	3,247	2,804
	Keep an Inventory of All Motors	3,524	3,370	2,541
	Detect and Control Compressed Air Leaks (l)	3,224	3,583	2,628
	Track the Amount of Energy Spent in Compressed Air Systems	6,357	395	2,683
<b>321113</b>	<b>Sawmills</b>			
	Person(s) Responsible for Energy Management (c)	1,221	195	370

Aware of ISO 50001	1,335	341	--
Implementing ISO 50001	318	Q	--
Energy Efficiency a part of Purchasing Decision	467	1,247	72
Energy Use Baseline for Comparing Energy Use in Future Years	766	435	586
Set Goals for Improving Energy Consumption	864	412	511
Quantitative Goals	D	D	1,465
Submetering (metering beyond the main utility, revenue or supplier meter)	1,603	111	--
Conduct Audits to Identify Energy Saving Opportunities	1,117	238	432
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,027	404	357
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,203	143	441
Measure Oxygen and Carbon Dioxide Levels (f)	989	308	490
Use Flue Gas to Preheat Other Equipment or Processes (g)	1,108	130	549
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	579	713	495
Cleaning of Heat Transfer Equipment (i)	504	724	559
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	556	684	547
Keep an Inventory of All Motors	443	925	418
Detect and Control Compressed Air Leaks (l)	638	704	445
Track the Amount of Energy Spent in Compressed Air Systems	1,195	D	D
<b>3212 Veneer, Plywood, and Engineered Woods</b>			
Person(s) Responsible for Energy Management (c)	778	129	176
Aware of ISO 50001	736	222	--
Implementing ISO 50001	178	46	--
Energy Efficiency a part of Purchasing Decision	293	693	97
Energy Use Baseline for Comparing Energy Use in Future Years	442	335	305
Set Goals for Improving Energy Consumption	468	273	342
Quantitative Goals	113	144	826
Submetering (metering beyond the main utility, revenue or supplier meter)	960	80	--
Conduct Audits to Identify Energy Saving Opportunities	659	178	246
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	691	158	234
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	791	54	238
Measure Oxygen and Carbon Dioxide Levels (f)	684	136	264
Use Flue Gas to Preheat Other Equipment or Processes (g)	723	96	265
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	384	415	285
Cleaning of Heat Transfer Equipment (i)	363	441	278
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	421	331	331
Keep an Inventory of All Motors	375	462	246
Detect and Control Compressed Air Leaks (l)	363	415	305
Track the Amount of Energy Spent in Compressed Air Systems	732	62	289
<b>321219 Reconstituted Wood Products</b>			
Person(s) Responsible for Energy Management (c)	117	29	13
Aware of ISO 50001	108	48	--
Implementing ISO 50001	48	D	--
Energy Efficiency a part of Purchasing Decision	D	101	D
Energy Use Baseline for Comparing Energy Use in Future Years	39	77	Q
Set Goals for Improving Energy Consumption	52	57	49
Quantitative Goals	25	29	104
Submetering (metering beyond the main utility, revenue or supplier meter)	112	46	--
Conduct Audits to Identify Energy Saving Opportunities	58	74	26
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	115	26	17
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	132	14	12
Measure Oxygen and Carbon Dioxide Levels (f)	92	55	11
Use Flue Gas to Preheat Other Equipment or Processes (g)	107	40	11
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	30	118	9
Cleaning of Heat Transfer Equipment (i)	29	120	9
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	23	94	Q
Keep an Inventory of All Motors	44	74	Q
Detect and Control Compressed Air Leaks (l)	49	98	11
Track the Amount of Energy Spent in Compressed Air Systems	119	24	15
<b>3219 Other Wood Products</b>			
Person(s) Responsible for Energy Management (c)	4,384	456	1,446
Aware of ISO 50001	4,771	865	--
Implementing ISO 50001	1,041	Q	--
Energy Efficiency a part of Purchasing Decision	1,437	4,395	453
Energy Use Baseline for Comparing Energy Use in Future Years	2,875	1,368	2,044
Set Goals for Improving Energy Consumption	3,055	1,139	2,092
Quantitative Goals	384	276	5,626
Submetering (metering beyond the main utility, revenue or supplier meter)	5,432	319	--
Conduct Audits to Identify Energy Saving Opportunities	3,851	561	1,874

Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	3,266	795	2,224
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	3,671	344	2,271
Measure Oxygen and Carbon Dioxide Levels (f)	4,049	461	1,777
Use Flue Gas to Preheat Other Equipment or Processes (g)	4,366	96	1,824
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	2,497	2,121	1,668
Cleaning of Heat Transfer Equipment (i)	2,307	2,246	1,733
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	2,364	2,117	1,806
Keep an Inventory of All Motors	2,586	1,946	1,754
Detect and Control Compressed Air Leaks (l)	2,140	2,417	1,729
Track the Amount of Energy Spent in Compressed Air Systems	4,274	275	1,736
<b>322 Paper</b>			
Person(s) Responsible for Energy Management (c)	1,577	868	565
Aware of ISO 50001	1,595	1,244	--
Implementing ISO 50001	1,168	75	--
Energy Efficiency a part of Purchasing Decision	379	2,474	156
Energy Use Baseline for Comparing Energy Use in Future Years	880	1,417	711
Set Goals for Improving Energy Consumption	1,298	1,088	622
Quantitative Goals	164	645	2,200
Submetering (metering beyond the main utility, revenue or supplier meter)	2,151	610	--
Conduct Audits to Identify Energy Saving Opportunities	1,597	733	679
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,547	700	762
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,870	366	773
Measure Oxygen and Carbon Dioxide Levels (f)	1,550	774	685
Use Flue Gas to Preheat Other Equipment or Processes (g)	1,896	374	739
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	662	1,523	824
Cleaning of Heat Transfer Equipment (i)	616	1,492	901
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	577	1,575	856
Keep an Inventory of All Motors	1,021	1,381	607
Detect and Control Compressed Air Leaks (l)	1,419	1,013	576
Track the Amount of Energy Spent in Compressed Air Systems	1,969	383	656
<b>322110 Pulp Mills</b>			
Person(s) Responsible for Energy Management (c)	D	23	D
Aware of ISO 50001	11	17	--
Implementing ISO 50001	16	D	--
Energy Efficiency a part of Purchasing Decision	D	D	D
Energy Use Baseline for Comparing Energy Use in Future Years	3	25	0
Set Goals for Improving Energy Consumption	D	19	D
Quantitative Goals	4	14	9
Submetering (metering beyond the main utility, revenue or supplier meter)	9	19	--
Conduct Audits to Identify Energy Saving Opportunities	14	14	0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	D	23	D
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8	16	3
Measure Oxygen and Carbon Dioxide Levels (f)	D	23	D
Use Flue Gas to Preheat Other Equipment or Processes (g)	11	17	0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	0	D	D
Cleaning of Heat Transfer Equipment (i)	0	25	D
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0	D	D
Keep an Inventory of All Motors	0	22	6
Detect and Control Compressed Air Leaks (l)	11	17	0
Track the Amount of Energy Spent in Compressed Air Systems	20	5	3
<b>322121 Paper Mills, except Newsprint</b>			
Person(s) Responsible for Energy Management (c)	33	116	7
Aware of ISO 50001	70	84	--
Implementing ISO 50001	66	17	--
Energy Efficiency a part of Purchasing Decision	D	145	D
Energy Use Baseline for Comparing Energy Use in Future Years	7	132	16
Set Goals for Improving Energy Consumption	32	115	8
Quantitative Goals	15	91	50
Submetering (metering beyond the main utility, revenue or supplier meter)	34	121	--
Conduct Audits to Identify Energy Saving Opportunities	37	101	18
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	50	96	9
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	114	25	17
Measure Oxygen and Carbon Dioxide Levels (f)	21	128	7
Use Flue Gas to Preheat Other Equipment or Processes (g)	43	102	11
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	17	129	9
Cleaning of Heat Transfer Equipment (i)	30	117	9
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	13	137	6

Keep an Inventory of All Motors	9	139	8
Detect and Control Compressed Air Leaks (l)	77	73	7
Track the Amount of Energy Spent in Compressed Air Systems	92	55	9
<b>322122 Newsprint Mills</b>			
Person(s) Responsible for Energy Management (c)	D	4	D
Aware of ISO 50001	D	9	--
Implementing ISO 50001	9	0	--
Energy Efficiency a part of Purchasing Decision	D	D	0
Energy Use Baseline for Comparing Energy Use in Future Years	D	8	D
Set Goals for Improving Energy Consumption	D	8	D
Quantitative Goals	D	5	D
Submetering (metering beyond the main utility, revenue or supplier meter)	3	8	--
Conduct Audits to Identify Energy Saving Opportunities	D	7	D
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	D	7	D
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	D	7	D
Measure Oxygen and Carbon Dioxide Levels (f)	D	8	D
Use Flue Gas to Preheat Other Equipment or Processes (g)	D	7	D
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	D	8	D
Cleaning of Heat Transfer Equipment (i)	D	5	D
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	8	D
Keep an Inventory of All Motors	D	8	D
Detect and Control Compressed Air Leaks (l)	D	7	D
Track the Amount of Energy Spent in Compressed Air Systems	7	D	D
<b>322130 Paperboard Mills</b>			
Person(s) Responsible for Energy Management (c)	38	81	24
Aware of ISO 50001	90	46	--
Implementing ISO 50001	41	5	--
Energy Efficiency a part of Purchasing Decision	5	134	5
Energy Use Baseline for Comparing Energy Use in Future Years	9	118	15
Set Goals for Improving Energy Consumption	22	109	11
Quantitative Goals	18	79	47
Submetering (metering beyond the main utility, revenue or supplier meter)	60	79	--
Conduct Audits to Identify Energy Saving Opportunities	44	65	34
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	30	84	29
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	70	40	33
Measure Oxygen and Carbon Dioxide Levels (f)	19	95	29
Use Flue Gas to Preheat Other Equipment or Processes (g)	27	82	35
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	14	105	24
Cleaning of Heat Transfer Equipment (i)	19	99	26
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	8	112	23
Keep an Inventory of All Motors	7	109	27
Detect and Control Compressed Air Leaks (l)	42	73	28
Track the Amount of Energy Spent in Compressed Air Systems	63	51	29
<b>323 Printing and Related Support</b>			
Person(s) Responsible for Energy Management (c)	9,339	1,361	1,914
Aware of ISO 50001	10,258	1,765	--
Implementing ISO 50001	1,603	0	--
Energy Efficiency a part of Purchasing Decision	2,609	9,413	592
Energy Use Baseline for Comparing Energy Use in Future Years	7,850	1,974	2,791
Set Goals for Improving Energy Consumption	7,636	1,902	3,076
Quantitative Goals	646	1,074	10,894
Submetering (metering beyond the main utility, revenue or supplier meter)	11,648	374	--
Conduct Audits to Identify Energy Saving Opportunities	9,370	1,121	2,122
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	8,511	1,632	2,472
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	9,373	769	2,472
Measure Oxygen and Carbon Dioxide Levels (f)	9,022	399	3,193
Use Flue Gas to Preheat Other Equipment or Processes (g)	9,080	608	2,926
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	4,929	4,051	3,634
Cleaning of Heat Transfer Equipment (i)	4,870	3,836	3,908
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4,991	3,502	4,122
Keep an Inventory of All Motors	7,176	2,591	2,847
Detect and Control Compressed Air Leaks (l)	6,955	2,617	3,042
Track the Amount of Energy Spent in Compressed Air Systems	9,407	64	3,143
<b>324 Petroleum and Coal Products</b>			
Person(s) Responsible for Energy Management (c)	678	633	572
Aware of ISO 50001	1,075	697	--



Implementing ISO 50001	623	77	--
Energy Efficiency a part of Purchasing Decision	446	1,329	108
Energy Use Baseline for Comparing Energy Use in Future Years	432	838	613
Set Goals for Improving Energy Consumption	512	780	591
Quantitative Goals	332	355	1,196
Submetering (metering beyond the main utility, revenue or supplier meter)	1,492	271	--
Conduct Audits to Identify Energy Saving Opportunities	862	370	651
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	820	418	645
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,008	222	653
Measure Oxygen and Carbon Dioxide Levels (f)	323	839	720
Use Flue Gas to Preheat Other Equipment or Processes (g)	778	358	747
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	287	1,058	538
Cleaning of Heat Transfer Equipment (i)	250	1,087	546
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	196	1,175	513
Keep an Inventory of All Motors	382	918	583
Detect and Control Compressed Air Leaks (l)	765	503	615
Track the Amount of Energy Spent in Compressed Air Systems	1,145	100	638
<b>324110 Petroleum Refineries</b>			
Person(s) Responsible for Energy Management (c)	25	102	9
Aware of ISO 50001	68	60	--
Implementing ISO 50001	51	9	--
Energy Efficiency a part of Purchasing Decision	D	119	D
Energy Use Baseline for Comparing Energy Use in Future Years	8	118	10
Set Goals for Improving Energy Consumption	31	96	9
Quantitative Goals	13	76	47
Submetering (metering beyond the main utility, revenue or supplier meter)	34	97	--
Conduct Audits to Identify Energy Saving Opportunities	45	78	13
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	60	57	18
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	89	22	25
Measure Oxygen and Carbon Dioxide Levels (f)	6	120	9
Use Flue Gas to Preheat Other Equipment or Processes (g)	17	114	6
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	6	122	8
Cleaning of Heat Transfer Equipment (i)	4	121	10
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	125	D
Keep an Inventory of All Motors	D	126	D
Detect and Control Compressed Air Leaks (l)	79	39	18
Track the Amount of Energy Spent in Compressed Air Systems	96	22	18
<b>324121 Asphalt Paving Mixture and Block</b>			
Person(s) Responsible for Energy Management (c)	426	442	421
Aware of ISO 50001	717	508	--
Implementing ISO 50001	453	56	--
Energy Efficiency a part of Purchasing Decision	313	915	61
Energy Use Baseline for Comparing Energy Use in Future Years	286	553	450
Set Goals for Improving Energy Consumption	290	555	444
Quantitative Goals	294	196	799
Submetering (metering beyond the main utility, revenue or supplier meter)	1,094	129	--
Conduct Audits to Identify Energy Saving Opportunities	568	230	491
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	506	301	482
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	631	170	488
Measure Oxygen and Carbon Dioxide Levels (f)	185	564	540
Use Flue Gas to Preheat Other Equipment or Processes (g)	521	179	589
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	186	715	388
Cleaning of Heat Transfer Equipment (i)	179	719	391
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	111	815	363
Keep an Inventory of All Motors	264	582	443
Detect and Control Compressed Air Leaks (l)	498	336	455
Track the Amount of Energy Spent in Compressed Air Systems	770	50	470
<b>324122 Asphalt Shingle and Coating Materials</b>			
Person(s) Responsible for Energy Management (c)	66	40	63
Aware of ISO 50001	110	54	--
Implementing ISO 50001	48	6	--
Energy Efficiency a part of Purchasing Decision	63	102	4
Energy Use Baseline for Comparing Energy Use in Future Years	49	63	56
Set Goals for Improving Energy Consumption	59	57	52
Quantitative Goals	15	32	121
Submetering (metering beyond the main utility, revenue or supplier meter)	129	27	--
Conduct Audits to Identify Energy Saving Opportunities	67	29	72
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	77	25	66

Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	97	10	60
Measure Oxygen and Carbon Dioxide Levels (f)	42	56	70
Use Flue Gas to Preheat Other Equipment or Processes (g)	81	29	59
Process Heating Maintenance Program that Includes the Following:			
Furnance Inspections (h)	16	94	58
Cleaning of Heat Transfer Equipment (i)	13	97	58
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	12	101	55
Keep an Inventory of All Motors	21	94	52
Detect and Control Compressed Air Leaks (l)	52	61	55
Track the Amount of Energy Spent in Compressed Air Systems	91	15	62
<b>324191 Petroleum Lubricating Oil and Grease Products</b>			
Person(s) Responsible for Energy Management (c)	124	28	59
Aware of ISO 50001	127	50	--
Implementing ISO 50001	47	D	--
Energy Efficiency a part of Purchasing Decision	42	134	Q
Energy Use Baseline for Comparing Energy Use in Future Years	64	73	74
Set Goals for Improving Energy Consumption	97	46	68
Quantitative Goals	6	36	168
Submetering (metering beyond the main utility, revenue or supplier meter)	172	5	--
Conduct Audits to Identify Energy Saving Opportunities	132	20	59
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	131	20	60
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	137	11	62
Measure Oxygen and Carbon Dioxide Levels (f)	62	68	81
Use Flue Gas to Preheat Other Equipment or Processes (g)	117	19	75
Process Heating Maintenance Program that Includes the Following:			
Furnance Inspections (h)	61	84	67
Cleaning of Heat Transfer Equipment (i)	34	108	68
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	60	85	67
Keep an Inventory of All Motors	78	72	60
Detect and Control Compressed Air Leaks (l)	99	44	67
Track the Amount of Energy Spent in Compressed Air Systems	131	10	70
<b>324199 Other Petroleum and Coal Products</b>			
Person(s) Responsible for Energy Management (c)	38	22	19
Aware of ISO 50001	53	24	--
Implementing ISO 50001	24	D	--
Energy Efficiency a part of Purchasing Decision	D	59	D
Energy Use Baseline for Comparing Energy Use in Future Years	26	31	23
Set Goals for Improving Energy Consumption	34	26	19
Quantitative Goals	4	15	60
Submetering (metering beyond the main utility, revenue or supplier meter)	64	13	--
Conduct Audits to Identify Energy Saving Opportunities	49	14	16
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	45	15	18
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	53	8	18
Measure Oxygen and Carbon Dioxide Levels (f)	28	30	21
Use Flue Gas to Preheat Other Equipment or Processes (g)	43	17	19
Process Heating Maintenance Program that Includes the Following:			
Furnance Inspections (h)	18	44	17
Cleaning of Heat Transfer Equipment (i)	19	41	18
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	48	D
Keep an Inventory of All Motors	D	43	D
Detect and Control Compressed Air Leaks (l)	37	22	20
Track the Amount of Energy Spent in Compressed Air Systems	57	3	19
<b>325 Chemicals</b>			
Person(s) Responsible for Energy Management (c)	4,436	2,585	1,881
Aware of ISO 50001	5,026	3,259	--
Implementing ISO 50001	2,812	422	--
Energy Efficiency a part of Purchasing Decision	2,035	6,301	566
Energy Use Baseline for Comparing Energy Use in Future Years	2,326	4,163	2,413
Set Goals for Improving Energy Consumption	3,450	3,082	2,370
Quantitative Goals	569	2,242	6,091
Submetering (metering beyond the main utility, revenue or supplier meter)	6,519	1,834	--
Conduct Audits to Identify Energy Saving Opportunities	4,916	1,879	2,107
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4,996	1,612	2,295
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5,597	956	2,349
Measure Oxygen and Carbon Dioxide Levels (f)	3,869	2,419	2,615
Use Flue Gas to Preheat Other Equipment or Processes (g)	5,337	1,158	2,407
Process Heating Maintenance Program that Includes the Following:			
Furnance Inspections (h)	1,774	4,695	2,433
Cleaning of Heat Transfer Equipment (i)	1,591	4,754	2,557
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	1,213	5,345	2,344
Keep an Inventory of All Motors	2,586	4,068	2,248

	Detect and Control Compressed Air Leaks (l)	3,362	3,371	2,169
	Track the Amount of Energy Spent in Compressed Air Systems	5,508	883	2,511
<b>325110</b>	<b>Petrochemicals</b>			
	Person(s) Responsible for Energy Management (c)	19	29	18
	Aware of ISO 50001	44	21	--
	Implementing ISO 50001	15	5	--
	Energy Efficiency a part of Purchasing Decision	25	41	0
	Energy Use Baseline for Comparing Energy Use in Future Years	17	33	16
	Set Goals for Improving Energy Consumption	23	29	15
	Quantitative Goals	4	21	41
	Submetering (metering beyond the main utility, revenue or supplier meter)	38	28	--
	Conduct Audits to Identify Energy Saving Opportunities	24	23	18
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	34	14	17
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	40	7	18
	Measure Oxygen and Carbon Dioxide Levels (f)	18	43	5
	Use Flue Gas to Preheat Other Equipment or Processes (g)	24	26	16
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	16	45	5
	Cleaning of Heat Transfer Equipment (i)	16	45	5
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	16	47	3
	Keep an Inventory of All Motors	17	35	14
	Detect and Control Compressed Air Leaks (l)	31	18	17
	Track the Amount of Energy Spent in Compressed Air Systems			
<b>325120</b>	<b>Industrial Gases</b>			
	Person(s) Responsible for Energy Management (c)	36	15	15
	Aware of ISO 50001	143	187	195
	Implementing ISO 50001	143	236	--
	Energy Efficiency a part of Purchasing Decision	236	0	--
	Energy Use Baseline for Comparing Energy Use in Future Years	59	316	150
	Set Goals for Improving Energy Consumption	65	237	222
	Quantitative Goals	108	218	199
	Submetering (metering beyond the main utility, revenue or supplier meter)	Q	207	283
	Conduct Audits to Identify Energy Saving Opportunities	173	209	--
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	189	123	212
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	259	109	157
	Measure Oxygen and Carbon Dioxide Levels (f)	270	90	165
	Use Flue Gas to Preheat Other Equipment or Processes (g)	273	Q	239
	Process Heating Maintenance Program that Includes the Following:	307	7	211
	Furnace Inspections (h)	133	153	239
	Cleaning of Heat Transfer Equipment (i)	Q	235	217
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	74	208	243
	Keep an Inventory of All Motors	105	232	188
	Detect and Control Compressed Air Leaks (l)	125	184	216
	Track the Amount of Energy Spent in Compressed Air Systems	165	113	247
<b>325180</b>	<b>Other Basic Inorganic Chemicals</b>			
	Person(s) Responsible for Energy Management (c)	253	160	88
	Aware of ISO 50001	287	200	--
	Implementing ISO 50001	172	25	--
	Energy Efficiency a part of Purchasing Decision	90	370	Q
	Energy Use Baseline for Comparing Energy Use in Future Years	136	257	108
	Set Goals for Improving Energy Consumption	236	186	80
	Quantitative Goals	Q	118	342
	Submetering (metering beyond the main utility, revenue or supplier meter)	315	170	--
	Conduct Audits to Identify Energy Saving Opportunities	268	144	89
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	266	122	113
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	334	45	122
	Measure Oxygen and Carbon Dioxide Levels (f)	203	167	131
	Use Flue Gas to Preheat Other Equipment or Processes (g)	230	133	138
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	106	239	155
	Cleaning of Heat Transfer Equipment (i)	102	241	158
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	88	261	152
	Keep an Inventory of All Motors	109	316	76
	Detect and Control Compressed Air Leaks (l)	252	173	76
	Track the Amount of Energy Spent in Compressed Air Systems	341	72	88
<b>325193</b>	<b>Ethyl Alcohol</b>			
	Person(s) Responsible for Energy Management (c)	74	91	42
	Aware of ISO 50001	115	80	--
	Implementing ISO 50001	75	5	--

Energy Efficiency a part of Purchasing Decision	D	165	D
Energy Use Baseline for Comparing Energy Use in Future Years	9	155	43
Set Goals for Improving Energy Consumption	22	139	46
Quantitative Goals	17	103	87
Submetering (metering beyond the main utility, revenue or supplier meter)	82	122	--
Conduct Audits to Identify Energy Saving Opportunities	59	79	69
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	86	62	59
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	120	23	64
Measure Oxygen and Carbon Dioxide Levels (f)	D	145	D
Use Flue Gas to Preheat Other Equipment or Processes (g)	22	113	72
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	19	140	48
Cleaning of Heat Transfer Equipment (i)	Q	157	47
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	Q	157	47
Keep an Inventory of All Motors	D	166	D
Detect and Control Compressed Air Leaks (l)	59	90	59
Track the Amount of Energy Spent in Compressed Air Systems	102	43	62
<b>325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals</b>			
Person(s) Responsible for Energy Management (c)	35	23	3
Aware of ISO 50001	22	38	--
Implementing ISO 50001	37	D	--
Energy Efficiency a part of Purchasing Decision	D	D	0
Energy Use Baseline for Comparing Energy Use in Future Years	5	29	27
Set Goals for Improving Energy Consumption	13	45	3
Quantitative Goals	3	14	43
Submetering (metering beyond the main utility, revenue or supplier meter)	13	46	--
Conduct Audits to Identify Energy Saving Opportunities	39	19	3
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	43	9	8
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	52	3	6
Measure Oxygen and Carbon Dioxide Levels (f)	10	21	30
Use Flue Gas to Preheat Other Equipment or Processes (g)	41	16	4
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	5	52	4
Cleaning of Heat Transfer Equipment (i)	D	52	D
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	54	D
Keep an Inventory of All Motors	29	29	3
Detect and Control Compressed Air Leaks (l)	17	41	3
Track the Amount of Energy Spent in Compressed Air Systems	45	8	7
<b>325199 Other Basic Organic Chemicals</b>			
Person(s) Responsible for Energy Management (c)	159	181	184
Aware of ISO 50001	199	251	--
Implementing ISO 50001	180	58	--
Energy Efficiency a part of Purchasing Decision	79	376	69
Energy Use Baseline for Comparing Energy Use in Future Years	62	320	142
Set Goals for Improving Energy Consumption	123	232	169
Quantitative Goals	59	123	342
Submetering (metering beyond the main utility, revenue or supplier meter)	220	226	--
Conduct Audits to Identify Energy Saving Opportunities	184	178	162
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	215	92	217
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	278	39	207
Measure Oxygen and Carbon Dioxide Levels (f)	71	263	191
Use Flue Gas to Preheat Other Equipment or Processes (g)	163	159	202
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	43	323	158
Cleaning of Heat Transfer Equipment (i)	42	318	164
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	16	353	155
Keep an Inventory of All Motors	62	318	143
Detect and Control Compressed Air Leaks (l)	143	183	198
Track the Amount of Energy Spent in Compressed Air Systems	253	64	207
<b>325211 Plastics Materials and Resins</b>			
Person(s) Responsible for Energy Management (c)	339	309	165
Aware of ISO 50001	423	329	--
Implementing ISO 50001	243	73	--
Energy Efficiency a part of Purchasing Decision	105	651	Q
Energy Use Baseline for Comparing Energy Use in Future Years	258	411	144
Set Goals for Improving Energy Consumption	257	346	209
Quantitative Goals	83	238	492
Submetering (metering beyond the main utility, revenue or supplier meter)	508	248	--
Conduct Audits to Identify Energy Saving Opportunities	432	219	163
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	498	176	139
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	614	43	155

Measure Oxygen and Carbon Dioxide Levels (f)	377	242	194
Use Flue Gas to Preheat Other Equipment or Processes (g)	511	138	163
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	154	485	174
Cleaning of Heat Transfer Equipment (i)	175	448	190
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	112	535	167
Keep an Inventory of All Motors	269	410	133
Detect and Control Compressed Air Leaks (l)	387	271	155
Track the Amount of Energy Spent in Compressed Air Systems	507	114	192
<b>325212 Synthetic Rubber</b>			
Person(s) Responsible for Energy Management (c)	42	28	17
Aware of ISO 50001	43	41	--
Implementing ISO 50001	36	5	--
Energy Efficiency a part of Purchasing Decision	13	67	8
Energy Use Baseline for Comparing Energy Use in Future Years	25	42	20
Set Goals for Improving Energy Consumption	28	40	19
Quantitative Goals	7	28	52
Submetering (metering beyond the main utility, revenue or supplier meter)	54	27	--
Conduct Audits to Identify Energy Saving Opportunities	56	17	15
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	55	19	13
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	65	6	16
Measure Oxygen and Carbon Dioxide Levels (f)	37	28	22
Use Flue Gas to Preheat Other Equipment or Processes (g)	53	16	17
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	25	46	16
Cleaning of Heat Transfer Equipment (i)	25	45	17
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	15	55	17
Keep an Inventory of All Motors	25	45	17
Detect and Control Compressed Air Leaks (l)	46	28	13
Track the Amount of Energy Spent in Compressed Air Systems	66	7	13
<b>325220 Artificial and Synthetic Fibers and Filaments</b>			
Person(s) Responsible for Energy Management (c)	39	41	19
Aware of ISO 50001	56	40	--
Implementing ISO 50001	35	6	--
Energy Efficiency a part of Purchasing Decision	D	86	D
Energy Use Baseline for Comparing Energy Use in Future Years	32	47	20
Set Goals for Improving Energy Consumption	33	48	19
Quantitative Goals	7	35	57
Submetering (metering beyond the main utility, revenue or supplier meter)	68	27	--
Conduct Audits to Identify Energy Saving Opportunities	56	27	16
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	46	28	26
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	63	12	24
Measure Oxygen and Carbon Dioxide Levels (f)	47	28	24
Use Flue Gas to Preheat Other Equipment or Processes (g)	63	13	23
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	25	50	24
Cleaning of Heat Transfer Equipment (i)	25	48	27
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	23	53	23
Keep an Inventory of All Motors	31	52	16
Detect and Control Compressed Air Leaks (l)	34	38	27
Track the Amount of Energy Spent in Compressed Air Systems	47	22	30
<b>325311 Nitrogenous Fertilizers</b>			
Person(s) Responsible for Energy Management (c)	50	89	9
Aware of ISO 50001	125	23	--
Implementing ISO 50001	21	D	--
Energy Efficiency a part of Purchasing Decision	D	119	D
Energy Use Baseline for Comparing Energy Use in Future Years	22	98	Q
Set Goals for Improving Energy Consumption	102	16	Q
Quantitative Goals	3	13	132
Submetering (metering beyond the main utility, revenue or supplier meter)	114	34	--
Conduct Audits to Identify Energy Saving Opportunities	124	13	11
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	121	Q	12
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	128	6	15
Measure Oxygen and Carbon Dioxide Levels (f)	23	98	Q
Use Flue Gas to Preheat Other Equipment or Processes (g)	95	27	Q
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	Q	113	Q
Cleaning of Heat Transfer Equipment (i)	8	102	38
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	Q	114	Q
Keep an Inventory of All Motors	84	39	Q
Detect and Control Compressed Air Leaks (l)	35	79	Q

	Track the Amount of Energy Spent in Compressed Air Systems	118	5	Q
<b>325312</b>	<b>Phosphatic Fertilizers</b>			
	Person(s) Responsible for Energy Management (c)	22	5	27
	Aware of ISO 50001	35	11	--
	Implementing ISO 50001	11	0	--
	Energy Efficiency a part of Purchasing Decision	D	D	D
	Energy Use Baseline for Comparing Energy Use in Future Years	10	5	40
	Set Goals for Improving Energy Consumption	9	20	25
	Quantitative Goals	D	D	43
	Submetering (metering beyond the main utility, revenue or supplier meter)	40	9	--
	Conduct Audits to Identify Energy Saving Opportunities	21	5	28
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	19	3	33
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	18	3	34
	Measure Oxygen and Carbon Dioxide Levels (f)	12	15	29
	Use Flue Gas to Preheat Other Equipment or Processes (g)	22	4	29
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	9	19	26
	Cleaning of Heat Transfer Equipment (i)	11	18	26
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	9	19	26
	Keep an Inventory of All Motors	D	33	D
	Detect and Control Compressed Air Leaks (l)	12	17	26
	Track the Amount of Energy Spent in Compressed Air Systems	17	3	35
<b>3254</b>	<b>Pharmaceuticals and Medicines</b>			
	Person(s) Responsible for Energy Management (c)	483	429	415
	Aware of ISO 50001	728	392	--
	Implementing ISO 50001	353	40	--
	Energy Efficiency a part of Purchasing Decision	331	915	81
	Energy Use Baseline for Comparing Energy Use in Future Years	355	518	453
	Set Goals for Improving Energy Consumption	444	404	480
	Quantitative Goals	37	287	1,003
	Submetering (metering beyond the main utility, revenue or supplier meter)	1,066	173	--
	Conduct Audits to Identify Energy Saving Opportunities	657	280	391
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	760	182	385
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	788	102	437
	Measure Oxygen and Carbon Dioxide Levels (f)	588	364	375
	Use Flue Gas to Preheat Other Equipment or Processes (g)	841	94	392
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	319	689	318
	Cleaning of Heat Transfer Equipment (i)	293	702	332
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	204	772	351
	Keep an Inventory of All Motors	480	486	361
	Detect and Control Compressed Air Leaks (l)	477	513	337
	Track the Amount of Energy Spent in Compressed Air Systems	840	82	406
<b>325412</b>	<b>Pharmaceutical Preparation</b>			
	Person(s) Responsible for Energy Management (c)	254	234	229
	Aware of ISO 50001	334	247	--
	Implementing ISO 50001	216	32	--
	Energy Efficiency a part of Purchasing Decision	212	494	10
	Energy Use Baseline for Comparing Energy Use in Future Years	189	279	249
	Set Goals for Improving Energy Consumption	192	244	282
	Quantitative Goals	28	170	519
	Submetering (metering beyond the main utility, revenue or supplier meter)	618	84	--
	Conduct Audits to Identify Energy Saving Opportunities	334	156	228
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	398	101	218
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	416	32	268
	Measure Oxygen and Carbon Dioxide Levels (f)	346	153	218
	Use Flue Gas to Preheat Other Equipment or Processes (g)	432	52	233
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	186	319	213
	Cleaning of Heat Transfer Equipment (i)	150	346	221
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	109	390	218
	Keep an Inventory of All Motors	267	230	220
	Detect and Control Compressed Air Leaks (l)	225	272	220
	Track the Amount of Energy Spent in Compressed Air Systems	450	47	220
<b>325992</b>	<b>Photographic Film, Paper, Plate, and Chemicals</b>			
	Person(s) Responsible for Energy Management (c)	65	38	5
	Aware of ISO 50001	50	56	--
	Implementing ISO 50001	56	0	--
	Energy Efficiency a part of Purchasing Decision	D	97	D

Energy Use Baseline for Comparing Energy Use in Future Years	41	56	11
Set Goals for Improving Energy Consumption	50	48	10
Quantitative Goals	4	43	62
Submetering (metering beyond the main utility, revenue or supplier meter)	64	42	--
Conduct Audits to Identify Energy Saving Opportunities	47	30	31
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	62	15	31
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	73	4	31
Measure Oxygen and Carbon Dioxide Levels (f)	67	20	21
Use Flue Gas to Preheat Other Equipment or Processes (g)	49	8	51
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	30	40	38
Cleaning of Heat Transfer Equipment (i)	27	46	35
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	27	46	35
Keep an Inventory of All Motors	47	26	35
Detect and Control Compressed Air Leaks (l)	39	30	39
Track the Amount of Energy Spent in Compressed Air Systems	59	11	38
<b>326</b>	<b>Plastics and Rubber Products</b>		
Person(s) Responsible for Energy Management (c)	4,966	2,017	1,334
Aware of ISO 50001	5,021	3,026	--
Implementing ISO 50001	2,483	611	--
Energy Efficiency a part of Purchasing Decision	1,164	7,061	Q
Energy Use Baseline for Comparing Energy Use in Future Years	3,563	2,816	1,938
Set Goals for Improving Energy Consumption	3,756	2,767	1,795
Quantitative Goals	944	1,524	5,849
Submetering (metering beyond the main utility, revenue or supplier meter)	6,709	1,417	--
Conduct Audits to Identify Energy Saving Opportunities	5,257	1,715	1,345
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4,753	2,030	1,533
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	6,198	464	1,655
Measure Oxygen and Carbon Dioxide Levels (f)	5,640	840	1,837
Use Flue Gas to Preheat Other Equipment or Processes (g)	6,357	229	1,730
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	3,370	2,965	1,982
Cleaning of Heat Transfer Equipment (i)	2,875	3,162	2,280
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	2,356	3,622	2,339
Keep an Inventory of All Motors	3,334	3,403	1,580
Detect and Control Compressed Air Leaks (l)	3,063	3,721	1,532
Track the Amount of Energy Spent in Compressed Air Systems	5,692	705	1,920
<b>327</b>	<b>Nonmetallic Mineral Products</b>		
Person(s) Responsible for Energy Management (c)	7,039	1,703	3,293
Aware of ISO 50001	7,928	2,823	--
Implementing ISO 50001	2,609	256	--
Energy Efficiency a part of Purchasing Decision	2,965	8,077	993
Energy Use Baseline for Comparing Energy Use in Future Years	4,628	2,931	4,476
Set Goals for Improving Energy Consumption	5,528	2,643	3,864
Quantitative Goals	845	1,019	10,171
Submetering (metering beyond the main utility, revenue or supplier meter)	10,182	849	--
Conduct Audits to Identify Energy Saving Opportunities	7,314	1,441	3,280
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	6,370	1,708	3,957
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	7,133	916	3,986
Measure Oxygen and Carbon Dioxide Levels (f)	6,344	1,269	4,422
Use Flue Gas to Preheat Other Equipment or Processes (g)	6,868	784	4,383
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	3,461	3,880	4,694
Cleaning of Heat Transfer Equipment (i)	3,415	3,590	5,030
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	3,194	3,806	5,035
Keep an Inventory of All Motors	4,151	3,616	4,267
Detect and Control Compressed Air Leaks (l)	4,557	3,254	4,224
Track the Amount of Energy Spent in Compressed Air Systems	7,176	447	4,412
<b>327120</b>	<b>Clay Building Material and Refractories</b>		
Person(s) Responsible for Energy Management (c)	201	137	77
Aware of ISO 50001	219	173	--
Implementing ISO 50001	177	9	--
Energy Efficiency a part of Purchasing Decision	70	332	13
Energy Use Baseline for Comparing Energy Use in Future Years	178	146	91
Set Goals for Improving Energy Consumption	182	143	90
Quantitative Goals	Q	92	286
Submetering (metering beyond the main utility, revenue or supplier meter)	267	112	--
Conduct Audits to Identify Energy Saving Opportunities	237	77	101
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	228	120	67
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	257	48	110
Measure Oxygen and Carbon Dioxide Levels (f)	223	108	84

Use Flue Gas to Preheat Other Equipment or Processes (g)	218	116	81
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	95	251	69
Cleaning of Heat Transfer Equipment (i)	130	206	79
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	87	258	70
Keep an Inventory of All Motors	139	197	79
Detect and Control Compressed Air Leaks (l)	184	140	91
Track the Amount of Energy Spent in Compressed Air Systems	298	30	87
<b>327211 Flat Glass</b>			
Person(s) Responsible for Energy Management (c)	25	15	20
Aware of ISO 50001	45	13	--
Implementing ISO 50001	11	D	--
Energy Efficiency a part of Purchasing Decision	D	48	D
Energy Use Baseline for Comparing Energy Use in Future Years	24	16	20
Set Goals for Improving Energy Consumption	17	27	16
Quantitative Goals	8	12	40
Submetering (metering beyond the main utility, revenue or supplier meter)	42	16	--
Conduct Audits to Identify Energy Saving Opportunities	26	11	23
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	27	19	14
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	37	10	14
Measure Oxygen and Carbon Dioxide Levels (f)	18	29	13
Use Flue Gas to Preheat Other Equipment or Processes (g)	29	14	17
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	11	43	6
Cleaning of Heat Transfer Equipment (i)	13	40	7
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	7	45	8
Keep an Inventory of All Motors	19	28	13
Detect and Control Compressed Air Leaks (l)	23	24	13
Track the Amount of Energy Spent in Compressed Air Systems	38	4	17
<b>327212 Other Pressed and Blown Glass and Glassware</b>			
Person(s) Responsible for Energy Management (c)	101	25	38
Aware of ISO 50001	97	50	--
Implementing ISO 50001	57	3	--
Energy Efficiency a part of Purchasing Decision	9	150	4
Energy Use Baseline for Comparing Energy Use in Future Years	62	52	50
Set Goals for Improving Energy Consumption	94	32	37
Quantitative Goals	12	17	135
Submetering (metering beyond the main utility, revenue or supplier meter)	101	61	--
Conduct Audits to Identify Energy Saving Opportunities	91	61	13
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	103	22	38
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	122	6	Q
Measure Oxygen and Carbon Dioxide Levels (f)	96	32	Q
Use Flue Gas to Preheat Other Equipment or Processes (g)	101	29	Q
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	47	101	16
Cleaning of Heat Transfer Equipment (i)	24	98	42
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	52	94	18
Keep an Inventory of All Motors	80	38	46
Detect and Control Compressed Air Leaks (l)	87	57	20
Track the Amount of Energy Spent in Compressed Air Systems	102	18	44
<b>327213 Glass Containers</b>			
Person(s) Responsible for Energy Management (c)	7	35	15
Aware of ISO 50001	25	26	--
Implementing ISO 50001	23	3	--
Energy Efficiency a part of Purchasing Decision	30	22	5
Energy Use Baseline for Comparing Energy Use in Future Years	3	29	25
Set Goals for Improving Energy Consumption	5	30	22
Quantitative Goals	D	D	36
Submetering (metering beyond the main utility, revenue or supplier meter)	35	18	--
Conduct Audits to Identify Energy Saving Opportunities	14	13	31
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	12	14	30
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	19	5	33
Measure Oxygen and Carbon Dioxide Levels (f)	6	36	15
Use Flue Gas to Preheat Other Equipment or Processes (g)	15	25	18
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	D	42	D
Cleaning of Heat Transfer Equipment (i)	5	36	16
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	42	D
Keep an Inventory of All Motors	9	34	14
Detect and Control Compressed Air Leaks (l)	7	35	15
Track the Amount of Energy Spent in Compressed Air Systems	7	34	17



<b>327215 Glass Products from Purchased Glass</b>			
Person(s) Responsible for Energy Management (c)	444	129	112
Aware of ISO 50001	439	224	--
Implementing ISO 50001	234	7	--
Energy Efficiency a part of Purchasing Decision	155	511	0
Energy Use Baseline for Comparing Energy Use in Future Years	331	160	195
Set Goals for Improving Energy Consumption	353	173	160
Quantitative Goals	58	70	558
Submetering (metering beyond the main utility, revenue or supplier meter)	597	67	--
Conduct Audits to Identify Energy Saving Opportunities	449	99	138
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	383	139	165
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	475	55	156
Measure Oxygen and Carbon Dioxide Levels (f)	481	38	167
Use Flue Gas to Preheat Other Equipment or Processes (g)	513	24	149
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	206	353	127
Cleaning of Heat Transfer Equipment (i)	280	290	115
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	256	306	124
Keep an Inventory of All Motors	282	263	141
Detect and Control Compressed Air Leaks (l)	329	236	121
Track the Amount of Energy Spent in Compressed Air Systems	531	32	122
<b>327310 Cements</b>			
Person(s) Responsible for Energy Management (c)	102	55	29
Aware of ISO 50001	109	70	--
Implementing ISO 50001	59	11	--
Energy Efficiency a part of Purchasing Decision	D	175	D
Energy Use Baseline for Comparing Energy Use in Future Years	56	117	14
Set Goals for Improving Energy Consumption	80	97	10
Quantitative Goals	Q	52	108
Submetering (metering beyond the main utility, revenue or supplier meter)	119	60	--
Conduct Audits to Identify Energy Saving Opportunities	116	43	28
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	84	91	12
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	112	58	18
Measure Oxygen and Carbon Dioxide Levels (f)	59	92	36
Use Flue Gas to Preheat Other Equipment or Processes (g)	64	81	42
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	52	95	40
Cleaning of Heat Transfer Equipment (i)	58	85	44
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	51	97	39
Keep an Inventory of All Motors	43	107	37
Detect and Control Compressed Air Leaks (l)	64	84	39
Track the Amount of Energy Spent in Compressed Air Systems	110	30	47
<b>327410 Lime</b>			
Person(s) Responsible for Energy Management (c)	21	29	36
Aware of ISO 50001	49	7	--
Implementing ISO 50001	7	0	--
Energy Efficiency a part of Purchasing Decision	D	56	D
Energy Use Baseline for Comparing Energy Use in Future Years	9	42	35
Set Goals for Improving Energy Consumption	16	31	39
Quantitative Goals	4	23	60
Submetering (metering beyond the main utility, revenue or supplier meter)	36	21	--
Conduct Audits to Identify Energy Saving Opportunities	20	13	53
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	14	35	37
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	37	8	41
Measure Oxygen and Carbon Dioxide Levels (f)	12	41	33
Use Flue Gas to Preheat Other Equipment or Processes (g)	19	32	35
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	6	45	36
Cleaning of Heat Transfer Equipment (i)	9	41	36
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	3	51	33
Keep an Inventory of All Motors	6	49	31
Detect and Control Compressed Air Leaks (l)	18	27	41
Track the Amount of Energy Spent in Compressed Air Systems	32	15	38
<b>327420 Gypsum</b>			
Person(s) Responsible for Energy Management (c)	54	83	11
Aware of ISO 50001	87	58	--
Implementing ISO 50001	59	0	--
Energy Efficiency a part of Purchasing Decision	5	139	4
Energy Use Baseline for Comparing Energy Use in Future Years	55	84	9

Set Goals for Improving Energy Consumption	57	78	13
Quantitative Goals	39	39	70
Submetering (metering beyond the main utility, revenue or supplier meter)	101	44	--
Conduct Audits to Identify Energy Saving Opportunities	57	66	25
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	64	44	39
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	122	0	0
Measure Oxygen and Carbon Dioxide Levels (f)	107	27	13
Use Flue Gas to Preheat Other Equipment or Processes (g)	85	28	35
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	68	70	10
Cleaning of Heat Transfer Equipment (i)	87	47	14
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	13	123	11
Keep an Inventory of All Motors	38	100	10
Detect and Control Compressed Air Leaks (l)	75	53	20
Track the Amount of Energy Spent in Compressed Air Systems	121	13	14
<b>327993 Mineral Wool</b>			
Person(s) Responsible for Energy Management (c)	94	46	51
Aware of ISO 50001	81	107	--
Implementing ISO 50001	100	6	--
Energy Efficiency a part of Purchasing Decision	34	154	3
Energy Use Baseline for Comparing Energy Use in Future Years	80	51	60
Set Goals for Improving Energy Consumption	53	73	65
Quantitative Goals	6	35	150
Submetering (metering beyond the main utility, revenue or supplier meter)	151	29	--
Conduct Audits to Identify Energy Saving Opportunities	100	29	61
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	107	20	64
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	131	6	54
Measure Oxygen and Carbon Dioxide Levels (f)	118	24	49
Use Flue Gas to Preheat Other Equipment or Processes (g)	126	18	48
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	22	111	58
Cleaning of Heat Transfer Equipment (i)	24	105	62
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	8	114	69
Keep an Inventory of All Motors	52	58	81
Detect and Control Compressed Air Leaks (l)	61	49	81
Track the Amount of Energy Spent in Compressed Air Systems	88	29	74
<b>331 Primary Metals</b>			
Person(s) Responsible for Energy Management (c)	1,733	920	573
Aware of ISO 50001	1,852	1,171	--
Implementing ISO 50001	1,035	156	--
Energy Efficiency a part of Purchasing Decision	583	2,451	192
Energy Use Baseline for Comparing Energy Use in Future Years	1,126	1,281	819
Set Goals for Improving Energy Consumption	1,351	1,081	794
Quantitative Goals	233	687	2,306
Submetering (metering beyond the main utility, revenue or supplier meter)	2,280	786	--
Conduct Audits to Identify Energy Saving Opportunities	1,962	661	603
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,544	1,016	667
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2,121	386	719
Measure Oxygen and Carbon Dioxide Levels (f)	1,573	760	893
Use Flue Gas to Preheat Other Equipment or Processes (g)	1,941	406	879
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	598	1,907	721
Cleaning of Heat Transfer Equipment (i)	729	1,710	788
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	510	1,984	732
Keep an Inventory of All Motors	1,016	1,440	771
Detect and Control Compressed Air Leaks (l)	1,441	1,099	686
Track the Amount of Energy Spent in Compressed Air Systems	2,143	330	753
<b>331110 Iron and Steel Mills and Ferroalloys</b>			
Person(s) Responsible for Energy Management (c)	170	155	65
Aware of ISO 50001	195	185	--
Implementing ISO 50001	150	34	--
Energy Efficiency a part of Purchasing Decision	58	321	11
Energy Use Baseline for Comparing Energy Use in Future Years	103	202	85
Set Goals for Improving Energy Consumption	119	187	84
Quantitative Goals	39	131	220
Submetering (metering beyond the main utility, revenue or supplier meter)	205	174	--
Conduct Audits to Identify Energy Saving Opportunities	188	109	92
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	148	174	67
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	231	72	87
Measure Oxygen and Carbon Dioxide Levels (f)	166	133	91
Use Flue Gas to Preheat Other Equipment or Processes (g)	217	92	81

Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	84	231	75
Cleaning of Heat Transfer Equipment (i)	96	210	84
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	80	229	81
Keep an Inventory of All Motors	101	223	66
Detect and Control Compressed Air Leaks (l)	178	133	79
Track the Amount of Energy Spent in Compressed Air Systems	241	62	87
<b>3312</b>	<b>Steel Products from Purchased Steel</b>		
Person(s) Responsible for Energy Management (c)	294	89	114
Aware of ISO 50001	289	159	--
Implementing ISO 50001	141	14	--
Energy Efficiency a part of Purchasing Decision	67	376	Q
Energy Use Baseline for Comparing Energy Use in Future Years	193	180	125
Set Goals for Improving Energy Consumption	268	95	135
Quantitative Goals	9	69	420
Submetering (metering beyond the main utility, revenue or supplier meter)	369	110	--
Conduct Audits to Identify Energy Saving Opportunities	318	90	89
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	270	89	139
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	329	34	135
Measure Oxygen and Carbon Dioxide Levels (f)	253	82	163
Use Flue Gas to Preheat Other Equipment or Processes (g)	298	20	180
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	138	205	155
Cleaning of Heat Transfer Equipment (i)	127	205	166
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	113	224	161
Keep an Inventory of All Motors	125	226	148
Detect and Control Compressed Air Leaks (l)	218	132	147
Track the Amount of Energy Spent in Compressed Air Systems	314	45	140
<b>3313</b>	<b>Alumina and Aluminum</b>		
Person(s) Responsible for Energy Management (c)	186	152	61
Aware of ISO 50001	209	176	--
Implementing ISO 50001	166	11	--
Energy Efficiency a part of Purchasing Decision	50	339	10
Energy Use Baseline for Comparing Energy Use in Future Years	120	203	76
Set Goals for Improving Energy Consumption	161	161	78
Quantitative Goals	25	111	263
Submetering (metering beyond the main utility, revenue or supplier meter)	275	109	--
Conduct Audits to Identify Energy Saving Opportunities	211	103	85
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	199	138	62
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	259	51	89
Measure Oxygen and Carbon Dioxide Levels (f)	137	139	124
Use Flue Gas to Preheat Other Equipment or Processes (g)	204	96	99
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	66	272	61
Cleaning of Heat Transfer Equipment (i)	98	223	78
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	46	286	67
Keep an Inventory of All Motors	113	177	110
Detect and Control Compressed Air Leaks (l)	204	120	75
Track the Amount of Energy Spent in Compressed Air Systems	267	41	91
<b>331314</b>	<b>Secondary Smelting and Alloying of Aluminum</b>		
Person(s) Responsible for Energy Management (c)	43	42	24
Aware of ISO 50001	56	52	--
Implementing ISO 50001	47	5	--
Energy Efficiency a part of Purchasing Decision	D	84	D
Energy Use Baseline for Comparing Energy Use in Future Years	25	59	26
Set Goals for Improving Energy Consumption	39	48	22
Quantitative Goals	9	19	81
Submetering (metering beyond the main utility, revenue or supplier meter)	74	32	--
Conduct Audits to Identify Energy Saving Opportunities	48	20	41
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	58	30	21
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	75	11	23
Measure Oxygen and Carbon Dioxide Levels (f)	24	34	51
Use Flue Gas to Preheat Other Equipment or Processes (g)	61	16	32
Process Heating Maintenance Program that Includes the Following:			
Furance Inspections (h)	9	76	24
Cleaning of Heat Transfer Equipment (i)	15	59	36
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	7	70	32
Keep an Inventory of All Motors	18	67	24
Detect and Control Compressed Air Leaks (l)	57	25	27
Track the Amount of Energy Spent in Compressed Air Systems	72	9	29

<b>331315 Aluminum Sheet, Plate and Foils</b>			
Person(s) Responsible for Energy Management (c)	20	37	8
Aware of ISO 50001	27	38	--
Implementing ISO 50001	38	0	--
Energy Efficiency a part of Purchasing Decision	15	50	0
Energy Use Baseline for Comparing Energy Use in Future Years	14	44	6
Set Goals for Improving Energy Consumption	16	37	12
Quantitative Goals	5	30	30
Submetering (metering beyond the main utility, revenue or supplier meter)	33	32	--
Conduct Audits to Identify Energy Saving Opportunities	23	29	13
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	21	26	18
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	31	14	21
Measure Oxygen and Carbon Dioxide Levels (f)	13	37	15
Use Flue Gas to Preheat Other Equipment or Processes (g)	29	20	16
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	D	52	D
Cleaning of Heat Transfer Equipment (i)	6	48	11
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	56	D
Keep an Inventory of All Motors	15	36	14
Detect and Control Compressed Air Leaks (l)	17	27	21
Track the Amount of Energy Spent in Compressed Air Systems	40	10	15
<b>331318 Other Aluminum Rolling, Drawing and Extruding</b>			
Person(s) Responsible for Energy Management (c)	102	64	25
Aware of ISO 50001	102	79	--
Implementing ISO 50001	74	5	--
Energy Efficiency a part of Purchasing Decision	D	177	D
Energy Use Baseline for Comparing Energy Use in Future Years	77	86	28
Set Goals for Improving Energy Consumption	88	66	37
Quantitative Goals	10	52	129
Submetering (metering beyond the main utility, revenue or supplier meter)	149	33	--
Conduct Audits to Identify Energy Saving Opportunities	118	49	24
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	104	66	20
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	148	15	28
Measure Oxygen and Carbon Dioxide Levels (f)	96	59	37
Use Flue Gas to Preheat Other Equipment or Processes (g)	108	52	31
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	53	116	23
Cleaning of Heat Transfer Equipment (i)	73	91	26
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	36	132	23
Keep an Inventory of All Motors	77	62	52
Detect and Control Compressed Air Leaks (l)	111	59	21
Track the Amount of Energy Spent in Compressed Air Systems	147	17	27
<b>3314 Nonferrous Metals, except Aluminum</b>			
Person(s) Responsible for Energy Management (c)	370	165	117
Aware of ISO 50001	348	258	--
Implementing ISO 50001	243	37	--
Energy Efficiency a part of Purchasing Decision	144	463	Q
Energy Use Baseline for Comparing Energy Use in Future Years	170	247	234
Set Goals for Improving Energy Consumption	233	269	150
Quantitative Goals	52	168	431
Submetering (metering beyond the main utility, revenue or supplier meter)	457	149	--
Conduct Audits to Identify Energy Saving Opportunities	396	133	121
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	347	161	143
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	454	64	133
Measure Oxygen and Carbon Dioxide Levels (f)	373	132	146
Use Flue Gas to Preheat Other Equipment or Processes (g)	380	75	196
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	96	421	134
Cleaning of Heat Transfer Equipment (i)	155	380	117
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	95	423	132
Keep an Inventory of All Motors	196	326	129
Detect and Control Compressed Air Leaks (l)	288	248	115
Track the Amount of Energy Spent in Compressed Air Systems	456	52	143
<b>331410 Nonferrous Metal (except Aluminum) Smelting and Refining</b>			
Person(s) Responsible for Energy Management (c)	66	20	20
Aware of ISO 50001	39	64	--
Implementing ISO 50001	51	12	--
Energy Efficiency a part of Purchasing Decision	20	82	5
Energy Use Baseline for Comparing Energy Use in Future Years	33	30	45
Set Goals for Improving Energy Consumption	34	51	22

Quantitative Goals	3	43	61
Submetering (metering beyond the main utility, revenue or supplier meter)	81	21	--
Conduct Audits to Identify Energy Saving Opportunities	73	20	15
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	39	30	38
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	77	15	15
Measure Oxygen and Carbon Dioxide Levels (f)	46	44	17
Use Flue Gas to Preheat Other Equipment or Processes (g)	56	11	40
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	19	68	20
Cleaning of Heat Transfer Equipment (i)	17	69	21
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	11	76	20
Keep an Inventory of All Motors	29	65	12
Detect and Control Compressed Air Leaks (l)	37	55	15
Track the Amount of Energy Spent in Compressed Air Systems	68	19	19
<b>3315 Foundries</b>			
Person(s) Responsible for Energy Management (c)	713	359	216
Aware of ISO 50001	812	392	--
Implementing ISO 50001	336	60	--
Energy Efficiency a part of Purchasing Decision	264	952	71
Energy Use Baseline for Comparing Energy Use in Future Years	540	448	300
Set Goals for Improving Energy Consumption	571	370	347
Quantitative Goals	109	208	971
Submetering (metering beyond the main utility, revenue or supplier meter)	974	243	--
Conduct Audits to Identify Energy Saving Opportunities	848	225	215
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	579	455	255
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	848	164	276
Measure Oxygen and Carbon Dioxide Levels (f)	644	274	370
Use Flue Gas to Preheat Other Equipment or Processes (g)	842	124	323
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	214	778	296
Cleaning of Heat Transfer Equipment (i)	253	692	343
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	177	821	291
Keep an Inventory of All Motors	482	488	319
Detect and Control Compressed Air Leaks (l)	553	465	270
Track the Amount of Energy Spent in Compressed Air Systems	865	130	293
<b>331511 Iron Foundries</b>			
Person(s) Responsible for Energy Management (c)	221	99	53
Aware of ISO 50001	271	92	--
Implementing ISO 50001	79	13	--
Energy Efficiency a part of Purchasing Decision	93	273	0
Energy Use Baseline for Comparing Energy Use in Future Years	150	167	56
Set Goals for Improving Energy Consumption	160	109	104
Quantitative Goals	37	59	278
Submetering (metering beyond the main utility, revenue or supplier meter)	278	86	--
Conduct Audits to Identify Energy Saving Opportunities	280	56	37
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	181	142	50
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	280	43	50
Measure Oxygen and Carbon Dioxide Levels (f)	192	83	98
Use Flue Gas to Preheat Other Equipment or Processes (g)	281	28	64
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	75	215	83
Cleaning of Heat Transfer Equipment (i)	53	233	87
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	36	279	58
Keep an Inventory of All Motors	106	173	94
Detect and Control Compressed Air Leaks (l)	181	151	41
Track the Amount of Energy Spent in Compressed Air Systems	273	44	56
<b>331523 Nonferrous Metal Die-Casting Foundries</b>			
Person(s) Responsible for Energy Management (c)	104	102	51
Aware of ISO 50001	140	103	--
Implementing ISO 50001	82	22	--
Energy Efficiency a part of Purchasing Decision	52	196	9
Energy Use Baseline for Comparing Energy Use in Future Years	91	99	67
Set Goals for Improving Energy Consumption	83	116	58
Quantitative Goals	30	68	159
Submetering (metering beyond the main utility, revenue or supplier meter)	183	64	--
Conduct Audits to Identify Energy Saving Opportunities	128	62	67
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	108	89	60
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	155	36	67
Measure Oxygen and Carbon Dioxide Levels (f)	92	76	89
Use Flue Gas to Preheat Other Equipment or Processes (g)	127	53	77
Process Heating Maintenance Program that Includes the Following:			

Furance Inspections (h)	33	160	64
Cleaning of Heat Transfer Equipment (i)	46	138	73
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	24	167	67
Keep an Inventory of All Motors	83	104	70
Detect and Control Compressed Air Leaks (l)	101	76	81
Track the Amount of Energy Spent in Compressed Air Systems	139	39	79
<b>331524 Aluminum Foundries, except Die-Casting</b>			
Person(s) Responsible for Energy Management (c)	156	55	67
Aware of ISO 50001	173	57	--
Implementing ISO 50001	50	8	--
Energy Efficiency a part of Purchasing Decision	31	205	Q
Energy Use Baseline for Comparing Energy Use in Future Years	143	59	75
Set Goals for Improving Energy Consumption	147	58	72
Quantitative Goals	15	30	232
Submetering (metering beyond the main utility, revenue or supplier meter)	211	27	--
Conduct Audits to Identify Energy Saving Opportunities	174	34	68
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	141	57	79
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	170	24	83
Measure Oxygen and Carbon Dioxide Levels (f)	152	36	89
Use Flue Gas to Preheat Other Equipment or Processes (g)	177	7	93
Process Heating Maintenance Program that includes the Following:			
Furance Inspections (h)	44	163	70
Cleaning of Heat Transfer Equipment (i)	71	142	64
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	62	153	62
Keep an Inventory of All Motors	143	72	62
Detect and Control Compressed Air Leaks (l)	123	82	73
Track the Amount of Energy Spent in Compressed Air Systems	182	13	82
<b>332 Fabricated Metal Products</b>			
Person(s) Responsible for Energy Management (c)	27,763	4,162	6,024
Aware of ISO 50001	27,698	7,507	--
Implementing ISO 50001	7,531	1,012	--
Energy Efficiency a part of Purchasing Decision	8,625	26,580	2,744
Energy Use Baseline for Comparing Energy Use in Future Years	20,713	6,276	10,961
Set Goals for Improving Energy Consumption	19,751	7,222	10,976
Quantitative Goals	2,539	2,988	32,422
Submetering (metering beyond the main utility, revenue or supplier meter)	33,514	1,395	--
Conduct Audits to Identify Energy Saving Opportunities	27,528	3,325	7,097
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	24,902	4,042	9,005
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	27,116	1,646	9,188
Measure Oxygen and Carbon Dioxide Levels (f)	25,796	1,808	10,346
Use Flue Gas to Preheat Other Equipment or Processes (g)	28,220	449	9,280
Process Heating Maintenance Program that includes the Following:			
Furance Inspections (h)	15,027	13,066	9,856
Cleaning of Heat Transfer Equipment (i)	15,473	11,336	11,139
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	15,075	11,142	11,732
Keep an Inventory of All Motors	19,828	8,295	9,826
Detect and Control Compressed Air Leaks (l)	16,994	10,582	10,373
Track the Amount of Energy Spent in Compressed Air Systems	27,603	1,024	9,322
<b>333 Machinery</b>			
Person(s) Responsible for Energy Management (c)	9,932	2,253	2,734
Aware of ISO 50001	10,897	3,726	--
Implementing ISO 50001	3,338	707	--
Energy Efficiency a part of Purchasing Decision	3,430	11,173	316
Energy Use Baseline for Comparing Energy Use in Future Years	6,643	3,221	5,055
Set Goals for Improving Energy Consumption	8,089	3,040	3,789
Quantitative Goals	843	1,446	12,630
Submetering (metering beyond the main utility, revenue or supplier meter)	13,578	907	--
Conduct Audits to Identify Energy Saving Opportunities	10,164	2,076	2,680
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	9,344	1,895	3,680
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	10,777	553	3,590
Measure Oxygen and Carbon Dioxide Levels (f)	9,778	1,257	3,883
Use Flue Gas to Preheat Other Equipment or Processes (g)	10,805	330	3,784
Process Heating Maintenance Program that includes the Following:			
Furance Inspections (h)	4,484	6,098	4,337
Cleaning of Heat Transfer Equipment (i)	4,283	5,988	4,648
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4,687	5,414	4,818
Keep an Inventory of All Motors	6,995	4,300	3,624
Detect and Control Compressed Air Leaks (l)	6,876	4,056	3,987
Track the Amount of Energy Spent in Compressed Air Systems	10,989	593	3,337
<b>334 Computer and Electronic Products</b>			

Person(s) Responsible for Energy Management (c)	4,051	1,793	802
Aware of ISO 50001	4,246	2,078	--
Implementing ISO 50001	1,833	Q	--
Energy Efficiency a part of Purchasing Decision	1,023	5,447	Q
Energy Use Baseline for Comparing Energy Use in Future Years	3,199	2,249	1,198
Set Goals for Improving Energy Consumption	3,811	1,810	1,025
Quantitative Goals	235	1,435	4,976
Submetering (metering beyond the main utility, revenue or supplier meter)	5,550	701	--
Conduct Audits to Identify Energy Saving Opportunities	4,413	1,099	1,134
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4,283	942	1,421
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4,703	477	1,466
Measure Oxygen and Carbon Dioxide Levels (f)	5,014	534	1,098
Use Flue Gas to Preheat Other Equipment or Processes (g)	5,522	136	988
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	2,727	2,783	1,135
Cleaning of Heat Transfer Equipment (i)	2,986	2,397	1,263
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	2,395	2,832	1,419
Keep an Inventory of All Motors	4,032	1,751	863
Detect and Control Compressed Air Leaks (l)	3,690	2,046	909
Track the Amount of Energy Spent in Compressed Air Systems	5,395	500	752
<b>334413 Semiconductors and Related Devices</b>			
Person(s) Responsible for Energy Management (c)	171	107	66
Aware of ISO 50001	120	202	--
Implementing ISO 50001	179	Q	--
Energy Efficiency a part of Purchasing Decision	Q	306	Q
Energy Use Baseline for Comparing Energy Use in Future Years	93	181	70
Set Goals for Improving Energy Consumption	167	118	58
Quantitative Goals	25	88	231
Submetering (metering beyond the main utility, revenue or supplier meter)	268	54	--
Conduct Audits to Identify Energy Saving Opportunities	160	123	61
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	139	85	120
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	181	51	112
Measure Oxygen and Carbon Dioxide Levels (f)	171	86	86
Use Flue Gas to Preheat Other Equipment or Processes (g)	211	31	102
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	102	155	86
Cleaning of Heat Transfer Equipment (i)	107	118	119
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	93	145	106
Keep an Inventory of All Motors	97	172	75
Detect and Control Compressed Air Leaks (l)	116	141	86
Track the Amount of Energy Spent in Compressed Air Systems	183	70	91
<b>335 Electrical Equip., Appliances, Components</b>			
Person(s) Responsible for Energy Management (c)	2,322	610	363
Aware of ISO 50001	2,233	964	--
Implementing ISO 50001	851	113	--
Energy Efficiency a part of Purchasing Decision	1,048	2,153	Q
Energy Use Baseline for Comparing Energy Use in Future Years	1,718	700	877
Set Goals for Improving Energy Consumption	1,978	844	473
Quantitative Goals	Q	523	2,754
Submetering (metering beyond the main utility, revenue or supplier meter)	2,973	228	--
Conduct Audits to Identify Energy Saving Opportunities	2,257	606	433
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	1,820	786	689
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2,462	434	399
Measure Oxygen and Carbon Dioxide Levels (f)	2,131	569	595
Use Flue Gas to Preheat Other Equipment or Processes (g)	2,628	D	D
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	1,347	1,385	563
Cleaning of Heat Transfer Equipment (i)	1,367	1,527	401
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	1,189	1,642	463
Keep an Inventory of All Motors	1,793	1,022	480
Detect and Control Compressed Air Leaks (l)	1,725	942	628
Track the Amount of Energy Spent in Compressed Air Systems	2,334	297	664
<b>336 Transportation Equipment</b>			
Person(s) Responsible for Energy Management (c)	3,695	1,454	1,953
Aware of ISO 50001	4,320	2,544	--
Implementing ISO 50001	2,079	389	--
Energy Efficiency a part of Purchasing Decision	2,152	4,732	218
Energy Use Baseline for Comparing Energy Use in Future Years	3,099	2,209	1,795
Set Goals for Improving Energy Consumption	2,860	1,924	2,320
Quantitative Goals	316	1,418	5,369

Submetering (metering beyond the main utility, revenue or supplier meter)	6,240	560	--
Conduct Audits to Identify Energy Saving Opportunities	3,746	1,402	1,954
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	3,785	1,270	2,048
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4,330	671	2,103
Measure Oxygen and Carbon Dioxide Levels (f)	4,149	763	2,191
Use Flue Gas to Preheat Other Equipment or Processes (g)	4,571	251	2,281
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	2,076	2,290	2,737
Cleaning of Heat Transfer Equipment (i)	1,934	2,424	2,745
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	2,087	2,293	2,723
Keep an Inventory of All Motors	3,018	1,723	2,362
Detect and Control Compressed Air Leaks (l)	2,637	2,196	2,270
Track the Amount of Energy Spent in Compressed Air Systems	4,179	567	2,357
<b>336111 Automobiles</b>			
Person(s) Responsible for Energy Management (c)	12	44	15
Aware of ISO 50001	31	39	--
Implementing ISO 50001	30	10	--
Energy Efficiency a part of Purchasing Decision	D	63	D
Energy Use Baseline for Comparing Energy Use in Future Years	8	55	8
Set Goals for Improving Energy Consumption	17	43	12
Quantitative Goals	7	37	27
Submetering (metering beyond the main utility, revenue or supplier meter)	38	32	--
Conduct Audits to Identify Energy Saving Opportunities	29	33	9
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	33	18	20
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	43	9	19
Measure Oxygen and Carbon Dioxide Levels (f)	22	29	19
Use Flue Gas to Preheat Other Equipment or Processes (g)	29	14	28
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	8	31	32
Cleaning of Heat Transfer Equipment (i)	9	34	29
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	6	39	26
Keep an Inventory of All Motors	20	18	33
Detect and Control Compressed Air Leaks (l)	24	34	13
Track the Amount of Energy Spent in Compressed Air Systems	27	32	12
<b>336112 Light Trucks and Utility Vehicles</b>			
Person(s) Responsible for Energy Management (c)	25	34	10
Aware of ISO 50001	27	36	--
Implementing ISO 50001	25	11	--
Energy Efficiency a part of Purchasing Decision	13	51	5
Energy Use Baseline for Comparing Energy Use in Future Years	22	31	16
Set Goals for Improving Energy Consumption	27	28	14
Quantitative Goals	0	28	41
Submetering (metering beyond the main utility, revenue or supplier meter)	40	24	--
Conduct Audits to Identify Energy Saving Opportunities	27	28	14
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	28	24	18
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	43	9	17
Measure Oxygen and Carbon Dioxide Levels (f)	24	25	21
Use Flue Gas to Preheat Other Equipment or Processes (g)	34	13	22
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	18	26	25
Cleaning of Heat Transfer Equipment (i)	22	22	26
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	19	26	24
Keep an Inventory of All Motors	25	27	17
Detect and Control Compressed Air Leaks (l)	35	16	18
Track the Amount of Energy Spent in Compressed Air Systems	31	23	15
<b>3364 Aerospace Product and Parts</b>			
Person(s) Responsible for Energy Management (c)	683	310	206
Aware of ISO 50001	760	423	--
Implementing ISO 50001	363	59	--
Energy Efficiency a part of Purchasing Decision	212	976	11
Energy Use Baseline for Comparing Energy Use in Future Years	575	379	245
Set Goals for Improving Energy Consumption	580	331	287
Quantitative Goals	74	236	890
Submetering (metering beyond the main utility, revenue or supplier meter)	1,069	120	--
Conduct Audits to Identify Energy Saving Opportunities	693	240	266
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	697	252	250
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	809	129	261
Measure Oxygen and Carbon Dioxide Levels (f)	696	202	301
Use Flue Gas to Preheat Other Equipment or Processes (g)	872	82	245
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	421	552	226



	Cleaning of Heat Transfer Equipment (i)	413	557	229
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	340	617	242
	Keep an Inventory of All Motors	615	286	298
	Detect and Control Compressed Air Leaks (l)	535	370	294
	Track the Amount of Energy Spent in Compressed Air Systems	785	128	286
<b>336411</b>	<b>Aircraft</b>			
	Person(s) Responsible for Energy Management (c)	201	50	96
	Aware of ISO 50001	237	103	--
	Implementing ISO 50001	99	5	--
	Energy Efficiency a part of Purchasing Decision	Q	289	5
	Energy Use Baseline for Comparing Energy Use in Future Years	203	83	61
	Set Goals for Improving Energy Consumption	144	86	117
	Quantitative Goals	26	54	267
	Submetering (metering beyond the main utility, revenue or supplier meter)	331	11	--
	Conduct Audits to Identify Energy Saving Opportunities	186	44	117
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	204	Q	95
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	214	Q	96
	Measure Oxygen and Carbon Dioxide Levels (f)	179	37	131
	Use Flue Gas to Preheat Other Equipment or Processes (g)	259	3	85
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	107	150	90
	Cleaning of Heat Transfer Equipment (i)	115	145	87
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	101	155	91
	Keep an Inventory of All Motors	185	21	141
	Detect and Control Compressed Air Leaks (l)	157	52	138
	Track the Amount of Energy Spent in Compressed Air Systems	213	11	124
<b>337</b>	<b>Furniture and Related Products</b>			
	Person(s) Responsible for Energy Management (c)	6,212	675	1,460
	Aware of ISO 50001	6,899	796	--
	Implementing ISO 50001	770	Q	--
	Energy Efficiency a part of Purchasing Decision	2,665	5,391	292
	Energy Use Baseline for Comparing Energy Use in Future Years	4,798	802	2,747
	Set Goals for Improving Energy Consumption	4,835	779	2,733
	Quantitative Goals	Q	498	7,683
	Submetering (metering beyond the main utility, revenue or supplier meter)	7,646	342	--
	Conduct Audits to Identify Energy Saving Opportunities	6,166	534	1,647
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	5,478	808	2,061
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5,667	401	2,279
	Measure Oxygen and Carbon Dioxide Levels (f)	5,566	342	2,439
	Use Flue Gas to Preheat Other Equipment or Processes (g)	6,216	Q	1,952
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	3,399	2,372	2,576
	Cleaning of Heat Transfer Equipment (i)	3,257	2,226	2,864
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	3,445	1,937	2,965
	Keep an Inventory of All Motors	4,470	1,548	2,329
	Detect and Control Compressed Air Leaks (l)	4,312	1,844	2,191
	Track the Amount of Energy Spent in Compressed Air Systems	6,590	Q	1,608
<b>339</b>	<b>Miscellaneous</b>			
	Person(s) Responsible for Energy Management (c)	9,431	2,130	2,118
	Aware of ISO 50001	9,100	3,449	--
	Implementing ISO 50001	3,173	456	--
	Energy Efficiency a part of Purchasing Decision	2,464	10,464	751
	Energy Use Baseline for Comparing Energy Use in Future Years	7,834	2,365	3,480
	Set Goals for Improving Energy Consumption	7,383	2,992	3,304
	Quantitative Goals	1,046	1,171	11,462
	Submetering (metering beyond the main utility, revenue or supplier meter)	12,507	511	--
	Conduct Audits to Identify Energy Saving Opportunities	10,259	815	2,605
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	8,542	1,350	3,787
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	9,267	963	3,449
	Measure Oxygen and Carbon Dioxide Levels (f)	9,067	581	4,030
	Use Flue Gas to Preheat Other Equipment or Processes (g)	10,189	318	3,172
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	5,075	4,541	4,063
	Cleaning of Heat Transfer Equipment (i)	4,847	4,165	4,667
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	4,536	4,565	4,577
	Keep an Inventory of All Motors	7,220	2,964	3,495
	Detect and Control Compressed Air Leaks (l)	6,379	3,446	3,854
	Track the Amount of Energy Spent in Compressed Air Systems	10,073	273	3,333

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

(b) This count includes only those establishments that reported this activity in 2018.

- (c) A *Full-Time Energy Manager* is a person whose major function is to direct or plan energy strategies relating to energy use and energy-efficient technology within the establishment.
- (d) The amount of steam used is the amount needed to produce a unit of product.
- (e) The insulation inspections are to monitor and maintain the condition of the steam system insulation.
- (f) *Tuning* the burners requires the measuring of oxygen and carbon dioxide levels in boilers and other fuel fired heating equipment flue gases.
- (g) The use of flue gases from fuel fired heating equipment to preheat combustion air, preheat charge equipment/materials, or provide heat for other processes.
- (h) Furnace inspections are necessary to seal openings and repair cracks and damaged insulation in furnace walls, doors, etc.
- (i) The cleaning of heat transfer surfaces avoids buildup of soot, scale, or other material.
- (j) Process heating equipment includes, but is not limited to, temperature and pressure sensors, controllers, valve operators, etc.
- (k) A plant-wide study conducted to identify the major energy consuming pump systems.
- (l) The staff or equipment dedicated to detecting and controlling compressed air system leaks.

\* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

-- Estimation is not applicable.

Notes: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*.

*The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).*

Released: August 2021  
 Next MECS will be fielded in 2023.

**RSE Table 8.4 Relative Standard Errors for Table 8.4;**

Unit: Percents.

NAICS Code(a)	Energy-Management Activity	No Participation	Participation(b)	Don't Know
<b>Total United States</b>				
<b>311 - 339</b>	<b>All Manufacturing Industries</b>			
	Person(s) Responsible for Energy Management (c)	1.3	1.6	2.6
	Aware of ISO 50001	1.0	1.6	--
	Implementing ISO 50001	1.7	3.9	--
	Energy Efficiency a part of Purchasing Decision	2.7	0.7	6.1
	Energy Use Baseline for Comparing Energy Use in Future Years	1.9	1.4	2.3
	Set Goals for Improving Energy Consumption	1.7	1.4	2.5
	Quantitative Goals	3.9	1.6	0.7
	Submetering (metering beyond the main utility, revenue or supplier meter)	0.7	1.6	--
	Conduct Audits to Identify Energy Saving Opportunities	1.1	1.9	2.3
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	1.2	1.6	2.3
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.9	2.4	2.1
	Measure Oxygen and Carbon Dioxide Levels (f)	1.4	1.5	2.1
	Use Flue Gas to Preheat Other Equipment or Processes (g)	1.1	1.5	2.2
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	2.5	1.1	2.4
	Cleaning of Heat Transfer Equipment (i)	2.3	1.2	2.3
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	2.9	1.1	2.4
	Keep an Inventory of All Motors	2.1	1.3	2.6
	Detect and Control Compressed Air Leaks (l)	1.5	1.7	2.4
	Track the Amount of Energy Spent in Compressed Air Systems	1.0	1.9	2.2
<b>311</b>	<b>Food</b>			
	Person(s) Responsible for Energy Management (c)	3.4	3.7	6.8
	Aware of ISO 50001	2.3	4.3	--
	Implementing ISO 50001	4.9	7.3	--
	Energy Efficiency a part of Purchasing Decision	6.5	1.8	16.0
	Energy Use Baseline for Comparing Energy Use in Future Years	5.1	3.0	5.9
	Set Goals for Improving Energy Consumption	4.7	3.1	6.4
	Quantitative Goals	10.4	3.5	2.1
	Submetering (metering beyond the main utility, revenue or supplier meter)	1.9	3.3	--
	Conduct Audits to Identify Energy Saving Opportunities	2.7	4.6	5.7
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.7	4.0	6.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.3	7.8	5.8
	Measure Oxygen and Carbon Dioxide Levels (f)	4.4	3.3	4.9
	Use Flue Gas to Preheat Other Equipment or Processes (g)	3.2	3.8	4.8
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	8.1	2.5	6.0
	Cleaning of Heat Transfer Equipment (i)	8.6	2.5	5.5
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	9.4	2.4	5.9
	Keep an Inventory of All Motors	6.1	2.7	6.9
	Detect and Control Compressed Air Leaks (l)	3.7	3.8	5.9
	Track the Amount of Energy Spent in Compressed Air Systems	2.3	4.1	5.4
<b>3112</b>	<b>Grain and Oilseed Milling</b>			
	Person(s) Responsible for Energy Management (c)	5.5	5.1	22.2
	Aware of ISO 50001	4.9	6.4	--
	Implementing ISO 50001	7.6	10.6	--
	Energy Efficiency a part of Purchasing Decision	13.4	3.5	49.6
	Energy Use Baseline for Comparing Energy Use in Future Years	8.8	4.3	18.8
	Set Goals for Improving Energy Consumption	9.9	4.5	25.2
	Quantitative Goals	10.0	4.5	6.3
	Submetering (metering beyond the main utility, revenue or supplier meter)	4.5	3.7	--
	Conduct Audits to Identify Energy Saving Opportunities	4.7	4.2	14.4
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.2	5.1	17.3
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.1	10.7	14.9
	Measure Oxygen and Carbon Dioxide Levels (f)	7.2	4.6	9.6
	Use Flue Gas to Preheat Other Equipment or Processes (g)	6.6	3.5	9.6
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	9.0	4.0	14.2
	Cleaning of Heat Transfer Equipment (i)	12.1	4.1	11.4
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	11.0	3.9	13.4
	Keep an Inventory of All Motors	17.3	3.8	19.0

	Detect and Control Compressed Air Leaks (l)	6.2	6.1	15.5
	Track the Amount of Energy Spent in Compressed Air Systems	4.6	4.2	13.5
<b>311221</b>	<b>Wet Corn Milling</b>			
	Person(s) Responsible for Energy Management (c)	D	0.0	D
	Aware of ISO 50001	0.0	0.0	--
	Implementing ISO 50001	0.0	0.0	--
	Energy Efficiency a part of Purchasing Decision	0.0	0.0	X
	Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	X
	Set Goals for Improving Energy Consumption	0.0	0.0	X
	Quantitative Goals	0.0	0.0	0.0
	Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
	Conduct Audits to Identify Energy Saving Opportunities	0.0	D	D
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	D	D
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	D	D
	Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
	Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	D	0.0	D
	Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	0.0	D
	Keep an Inventory of All Motors	D	0.0	D
	Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
	Track the Amount of Energy Spent in Compressed Air Systems	0.0	D	D
<b>31131</b>	<b>Sugar Manufacturing</b>			
	Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
	Aware of ISO 50001	0.0	0.0	--
	Implementing ISO 50001	0.0	0.0	--
	Energy Efficiency a part of Purchasing Decision	0.0	0.0	0.0
	Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
	Set Goals for Improving Energy Consumption	0.0	0.0	0.0
	Quantitative Goals	0.0	0.0	0.0
	Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
	Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
	Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
	Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	0.0	0.0	0.0
	Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
	Keep an Inventory of All Motors	0.0	0.0	0.0
	Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
	Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>3114</b>	<b>Fruit and Vegetable Preserving and Specialty Foods</b>			
	Person(s) Responsible for Energy Management (c)	13.9	13.7	21.5
	Aware of ISO 50001	7.7	17.4	--
	Implementing ISO 50001	19.2	28.3	--
	Energy Efficiency a part of Purchasing Decision	24.4	5.9	50.7
	Energy Use Baseline for Comparing Energy Use in Future Years	19.6	11.4	20.8
	Set Goals for Improving Energy Consumption	15.2	13.5	19.8
	Quantitative Goals	40.3	15.2	6.8
	Submetering (metering beyond the main utility, revenue or supplier meter)	6.2	13.0	--
	Conduct Audits to Identify Energy Saving Opportunities	11.3	17.1	19.4
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	9.3	14.4	20.3
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.8	23.8	21.2
	Measure Oxygen and Carbon Dioxide Levels (f)	19.5	11.9	19.4
	Use Flue Gas to Preheat Other Equipment or Processes (g)	12.1	17.3	18.0
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	29.8	9.2	26.0
	Cleaning of Heat Transfer Equipment (i)	34.4	8.6	23.6
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	36.8	8.8	26.2
	Keep an Inventory of All Motors	19.6	10.7	22.6
	Detect and Control Compressed Air Leaks (l)	12.0	14.3	24.8
	Track the Amount of Energy Spent in Compressed Air Systems	7.4	15.2	20.4
<b>3115</b>	<b>Dairy Products</b>			
	Person(s) Responsible for Energy Management (c)	13.2	9.4	17.8
	Aware of ISO 50001	7.1	14.1	--
	Implementing ISO 50001	15.4	13.4	--

Energy Efficiency a part of Purchasing Decision	17.2	3.0	46.6
Energy Use Baseline for Comparing Energy Use in Future Years	20.5	7.6	17.6
Set Goals for Improving Energy Consumption	14.7	8.4	20.2
Quantitative Goals	32.0	10.0	7.9
Submetering (metering beyond the main utility, revenue or supplier meter)	5.4	13.2	--
Conduct Audits to Identify Energy Saving Opportunities	7.7	15.4	14.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.8	15.7	21.4
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.0	29.8	17.9
Measure Oxygen and Carbon Dioxide Levels (f)	11.8	10.3	14.8
Use Flue Gas to Preheat Other Equipment or Processes (g)	7.1	15.2	15.0
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	26.0	6.1	17.7
Cleaning of Heat Transfer Equipment (i)	37.3	5.7	17.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	35.6	5.5	17.2
Keep an Inventory of All Motors	18.2	7.1	18.9
Detect and Control Compressed Air Leaks (l)	10.4	10.5	19.1
Track the Amount of Energy Spent in Compressed Air Systems	4.6	14.4	18.2
<b>3116 Animal Slaughtering and Processing</b>			
Person(s) Responsible for Energy Management (c)	9.2	12.2	14.2
Aware of ISO 50001	6.1	13.5	--
Implementing ISO 50001	14.3	12.6	--
Energy Efficiency a part of Purchasing Decision	18.3	5.5	34.8
Energy Use Baseline for Comparing Energy Use in Future Years	12.2	10.8	11.9
Set Goals for Improving Energy Consumption	10.9	11.7	12.1
Quantitative Goals	37.7	12.5	3.1
Submetering (metering beyond the main utility, revenue or supplier meter)	4.5	10.6	--
Conduct Audits to Identify Energy Saving Opportunities	7.2	16.4	13.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.0	16.0	12.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.3	22.7	12.0
Measure Oxygen and Carbon Dioxide Levels (f)	12.5	11.6	11.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	8.2	15.6	12.4
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	24.7	7.8	13.2
Cleaning of Heat Transfer Equipment (i)	21.7	8.4	13.4
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	29.0	7.6	13.6
Keep an Inventory of All Motors	13.4	9.7	15.4
Detect and Control Compressed Air Leaks (l)	11.4	12.2	12.6
Track the Amount of Energy Spent in Compressed Air Systems	7.1	27.9	12.1
<b>312 Beverage and Tobacco Products</b>			
Person(s) Responsible for Energy Management (c)	3.4	4.9	10.8
Aware of ISO 50001	2.5	4.8	--
Implementing ISO 50001	5.1	17.3	--
Energy Efficiency a part of Purchasing Decision	10.2	1.8	28.5
Energy Use Baseline for Comparing Energy Use in Future Years	5.0	4.2	8.8
Set Goals for Improving Energy Consumption	4.4	4.5	9.4
Quantitative Goals	17.4	5.0	2.6
Submetering (metering beyond the main utility, revenue or supplier meter)	1.1	5.5	--
Conduct Audits to Identify Energy Saving Opportunities	2.5	7.6	8.6
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	3.4	8.2	7.2
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.8	10.7	7.5
Measure Oxygen and Carbon Dioxide Levels (f)	3.5	4.1	7.3
Use Flue Gas to Preheat Other Equipment or Processes (g)	2.8	6.1	6.8
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	5.0	4.3	8.3
Cleaning of Heat Transfer Equipment (i)	5.9	4.1	7.4
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	6.7	3.8	7.4
Keep an Inventory of All Motors	5.3	4.0	8.7
Detect and Control Compressed Air Leaks (l)	4.2	4.8	7.9
Track the Amount of Energy Spent in Compressed Air Systems	2.8	3.8	7.6
<b>3121 Beverages</b>			
Person(s) Responsible for Energy Management (c)	6.4	12.2	17.5
Aware of ISO 50001	4.5	12.6	--
Implementing ISO 50001	13.8	37.9	--
Energy Efficiency a part of Purchasing Decision	0	3.7	0
Energy Use Baseline for Comparing Energy Use in Future Years	9.6	10.1	13.4
Set Goals for Improving Energy Consumption	8.7	10.0	15.8
Quantitative Goals	22.7	14.1	4.8
Submetering (metering beyond the main utility, revenue or supplier meter)	2.1	19.7	--
Conduct Audits to Identify Energy Saving Opportunities	5.2	16.4	14.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.8	13.2	13.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.8	21.2	13.1

Measure Oxygen and Carbon Dioxide Levels (f)	6.2	15.9	12.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	5.6	25.1	11.7
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	11.0	10.0	11.8
Cleaning of Heat Transfer Equipment (i)	12.4	9.3	11.5
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	14.3	8.2	12.3
Keep an Inventory of All Motors	9.2	10.4	14.0
Detect and Control Compressed Air Leaks (l)	7.4	12.4	14.7
Track the Amount of Energy Spent in Compressed Air Systems	5.1	23.7	13.0
<b>3122 Tobacco</b>			
Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	0	0.0	0
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>313 Textile Mills</b>			
Person(s) Responsible for Energy Management (c)	6.9	15.7	24.7
Aware of ISO 50001	6.1	17.7	--
Implementing ISO 50001	18.1	39.5	--
Energy Efficiency a part of Purchasing Decision	26.2	5.5	51.7
Energy Use Baseline for Comparing Energy Use in Future Years	10.4	15.4	21.0
Set Goals for Improving Energy Consumption	10.0	15.8	21.1
Quantitative Goals	43.4	18.3	5.4
Submetering (metering beyond the main utility, revenue or supplier meter)	2.8	21.9	--
Conduct Audits to Identify Energy Saving Opportunities	7.1	18.5	21.3
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	9.4	16.0	26.2
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.0	34.0	24.2
Measure Oxygen and Carbon Dioxide Levels (f)	6.9	18.7	19.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	5.9	25.5	19.3
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	16.6	13.1	19.9
Cleaning of Heat Transfer Equipment (i)	18.8	13.0	19.2
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	18.7	12.6	19.2
Keep an Inventory of All Motors	11.5	15.1	22.7
Detect and Control Compressed Air Leaks (l)	12.0	14.2	22.7
Track the Amount of Energy Spent in Compressed Air Systems	5.9	27.6	23.9
<b>314 Textile Product Mills</b>			
Person(s) Responsible for Energy Management (c)	19.2	45.8	25.4
Aware of ISO 50001	11.0	39.6	--
Implementing ISO 50001	43.5	56.7	--
Energy Efficiency a part of Purchasing Decision	32.0	14.5	66.9
Energy Use Baseline for Comparing Energy Use in Future Years	20.6	39.7	25.2
Set Goals for Improving Energy Consumption	22.1	33.7	28.9
Quantitative Goals	70.0	48.1	5.5
Submetering (metering beyond the main utility, revenue or supplier meter)	7.0	60.2	--
Conduct Audits to Identify Energy Saving Opportunities	15.0	63.7	31.3
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	20.2	57.6	22.6
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	19.6	96.0	20.1
Measure Oxygen and Carbon Dioxide Levels (f)	13.9	46.2	29.5
Use Flue Gas to Preheat Other Equipment or Processes (g)	14.0	55.6	28.8
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	22.1	41.4	24.1
Cleaning of Heat Transfer Equipment (i)	29.5	38.2	18.9
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	31.5	36.0	18.5
Keep an Inventory of All Motors	22.9	46.8	22.0
Detect and Control Compressed Air Leaks (l)	19.8	52.2	23.7

	Track the Amount of Energy Spent in Compressed Air Systems	18.5	86.2	23.3
<b>315</b>	<b>Apparel</b>			
	Person(s) Responsible for Energy Management (c)	11.3	54.8	41.9
	Aware of ISO 50001	8.6	31.9	--
	Implementing ISO 50001	31.4	X	--
	Energy Efficiency a part of Purchasing Decision	36.4	16.9	62.0
	Energy Use Baseline for Comparing Energy Use in Future Years	15.8	56.2	36.3
	Set Goals for Improving Energy Consumption	18.1	42.0	40.5
	Quantitative Goals	59.5	46.2	8.6
	Submetering (metering beyond the main utility, revenue or supplier meter)	12.5	60.2	--
	Conduct Audits to Identify Energy Saving Opportunities	17.2	42.6	46.0
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	15.2	44.8	32.9
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	14.8	72.4	32.5
	Measure Oxygen and Carbon Dioxide Levels (f)	13.1	43.2	36.7
	Use Flue Gas to Preheat Other Equipment or Processes (g)	17.0	83.8	31.8
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	22.3	44.8	29.0
	Cleaning of Heat Transfer Equipment (i)	26.0	45.5	24.8
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	34.3	50.8	17.2
	Keep an Inventory of All Motors	20.2	48.8	31.6
	Detect and Control Compressed Air Leaks (l)	15.9	45.5	32.4
	Track the Amount of Energy Spent in Compressed Air Systems	17.0	61.4	28.5
<b>316</b>	<b>Leather and Allied Product</b>			
	Person(s) Responsible for Energy Management (c)	17.5	39.6	28.0
	Aware of ISO 50001	6.9	35.7	--
	Implementing ISO 50001	36.4	40.3	--
	Energy Efficiency a part of Purchasing Decision	33.3	12.3	59.0
	Energy Use Baseline for Comparing Energy Use in Future Years	12.2	27.0	31.4
	Set Goals for Improving Energy Consumption	18.1	28.7	20.7
	Quantitative Goals	40.3	25.9	1.0
	Submetering (metering beyond the main utility, revenue or supplier meter)	3.0	16.8	--
	Conduct Audits to Identify Energy Saving Opportunities	15.3	41.9	28.2
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	14.3	41.5	29.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	17.4	56.3	21.9
	Measure Oxygen and Carbon Dioxide Levels (f)	10.4	18.0	28.1
	Use Flue Gas to Preheat Other Equipment or Processes (g)	9.2	D	D
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	21.7	26.7	24.6
	Cleaning of Heat Transfer Equipment (i)	25.7	26.5	21.3
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	29.1	24.6	21.6
	Keep an Inventory of All Motors	18.9	36.3	25.6
	Detect and Control Compressed Air Leaks (l)	21.7	34.6	22.6
	Track the Amount of Energy Spent in Compressed Air Systems	14.3	23.2	24.0
<b>321</b>	<b>Wood Products</b>			
	Person(s) Responsible for Energy Management (c)	3.7	10.4	9.7
	Aware of ISO 50001	3.7	9.5	--
	Implementing ISO 50001	9.8	23.8	--
	Energy Efficiency a part of Purchasing Decision	12.3	5.4	21.8
	Energy Use Baseline for Comparing Energy Use in Future Years	7.3	9.3	10.8
	Set Goals for Improving Energy Consumption	6.5	10.3	10.3
	Quantitative Goals	18.0	12.1	2.6
	Submetering (metering beyond the main utility, revenue or supplier meter)	2.6	13.0	--
	Conduct Audits to Identify Energy Saving Opportunities	5.3	14.1	8.3
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.4	8.9	8.2
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	3.7	11.6	8.0
	Measure Oxygen and Carbon Dioxide Levels (f)	4.9	9.7	7.8
	Use Flue Gas to Preheat Other Equipment or Processes (g)	4.1	10.8	8.0
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	8.5	5.7	7.8
	Cleaning of Heat Transfer Equipment (i)	9.1	5.9	8.4
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	8.7	7.7	11.6
	Keep an Inventory of All Motors	8.2	6.7	12.9
	Detect and Control Compressed Air Leaks (l)	7.6	6.3	8.0
	Track the Amount of Energy Spent in Compressed Air Systems	3.8	12.8	8.4
<b>321113</b>	<b>Sawmills</b>			
	Person(s) Responsible for Energy Management (c)	4.9	10.7	16.1
	Aware of ISO 50001	3.9	13.5	--
	Implementing ISO 50001	13.3	51.7	--
	Energy Efficiency a part of Purchasing Decision	13.8	5.2	21.8

Energy Use Baseline for Comparing Energy Use in Future Years	8.2	10.6	10.9
Set Goals for Improving Energy Consumption	7.3	12.7	12.3
Quantitative Goals	D	D	3.0
Submetering (metering beyond the main utility, revenue or supplier meter)	1.2	8.9	--
Conduct Audits to Identify Energy Saving Opportunities	5.5	12.5	14.2
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.2	12.8	15.3
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.2	13.0	14.3
Measure Oxygen and Carbon Dioxide Levels (f)	6.3	9.8	12.3
Use Flue Gas to Preheat Other Equipment or Processes (g)	5.6	9.4	11.4
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	10.5	8.3	12.4
Cleaning of Heat Transfer Equipment (i)	11.4	8.2	11.4
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	11.4	8.2	11.1
Keep an Inventory of All Motors	11.8	6.9	14.5
Detect and Control Compressed Air Leaks (l)	8.8	8.8	14.0
Track the Amount of Energy Spent in Compressed Air Systems	5.5	D	D
<b>3212 Veneer, Plywood, and Engineered Woods</b>			
Person(s) Responsible for Energy Management (c)	5.1	16.4	20.4
Aware of ISO 50001	6.2	15.0	--
Implementing ISO 50001	16.2	33.6	--
Energy Efficiency a part of Purchasing Decision	23.5	11.3	40.9
Energy Use Baseline for Comparing Energy Use in Future Years	14.0	14.0	28.3
Set Goals for Improving Energy Consumption	11.5	16.9	24.0
Quantitative Goals	27.3	17.4	6.8
Submetering (metering beyond the main utility, revenue or supplier meter)	3.9	17.1	--
Conduct Audits to Identify Energy Saving Opportunities	10.2	19.5	16.1
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.9	14.7	17.8
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.2	18.7	17.9
Measure Oxygen and Carbon Dioxide Levels (f)	8.1	15.7	17.5
Use Flue Gas to Preheat Other Equipment or Processes (g)	6.2	14.8	17.3
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	15.9	8.3	17.8
Cleaning of Heat Transfer Equipment (i)	16.6	8.1	18.1
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	15.5	13.9	27.3
Keep an Inventory of All Motors	15.6	12.1	32.7
Detect and Control Compressed Air Leaks (l)	13.5	9.8	16.6
Track the Amount of Energy Spent in Compressed Air Systems	5.3	14.6	16.3
<b>321219 Reconstituted Wood Products</b>			
Person(s) Responsible for Energy Management (c)	6.7	19.6	20.5
Aware of ISO 50001	8.9	19.6	--
Implementing ISO 50001	19.6	D	--
Energy Efficiency a part of Purchasing Decision	D	20.3	D
Energy Use Baseline for Comparing Energy Use in Future Years	28.9	19.0	54.4
Set Goals for Improving Energy Consumption	19.2	23.8	44.3
Quantitative Goals	36.2	19.6	12.7
Submetering (metering beyond the main utility, revenue or supplier meter)	8.0	19.2	--
Conduct Audits to Identify Energy Saving Opportunities	23.6	23.4	21.2
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.1	18.0	23.8
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	3.9	24.0	18.0
Measure Oxygen and Carbon Dioxide Levels (f)	13.5	19.3	18.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	8.7	18.0	18.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	33.9	9.6	33.7
Cleaning of Heat Transfer Equipment (i)	35.4	9.3	34.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	42.5	18.7	54.8
Keep an Inventory of All Motors	27.1	18.7	57.8
Detect and Control Compressed Air Leaks (l)	20.3	11.9	21.3
Track the Amount of Energy Spent in Compressed Air Systems	5.9	18.0	19.9
<b>3219 Other Wood Products</b>			
Person(s) Responsible for Energy Management (c)	5.9	30.6	16.5
Aware of ISO 50001	5.0	20.7	--
Implementing ISO 50001	19.1	96.7	--
Energy Efficiency a part of Purchasing Decision	17.1	6.1	34.0
Energy Use Baseline for Comparing Energy Use in Future Years	10.0	17.4	13.4
Set Goals for Improving Energy Consumption	9.5	19.6	13.2
Quantitative Goals	38.3	34.5	3.0
Submetering (metering beyond the main utility, revenue or supplier meter)	3.6	36.3	--
Conduct Audits to Identify Energy Saving Opportunities	7.4	27.6	14.4
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.9	21.8	12.7
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.8	32.1	12.5
Measure Oxygen and Carbon Dioxide Levels (f)	6.8	28.2	14.7



Use Flue Gas to Preheat Other Equipment or Processes (g)	6.1	24.2	14.5
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	11.5	12.6	15.4
Cleaning of Heat Transfer Equipment (i)	12.3	12.1	15.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	12.1	12.5	14.6
Keep an Inventory of All Motors	11.0	13.6	15.0
Detect and Control Compressed Air Leaks (l)	12.8	11.6	15.1
Track the Amount of Energy Spent in Compressed Air Systems	6.4	45.7	15.1

**322 Paper**

Person(s) Responsible for Energy Management (c)	3.8	1.8	7.2
Aware of ISO 50001	2.8	2.3	--
Implementing ISO 50001	2.5	6.1	--
Energy Efficiency a part of Purchasing Decision	8.2	1.1	23.1
Energy Use Baseline for Comparing Energy Use in Future Years	9.4	1.7	8.1
Set Goals for Improving Energy Consumption	5.2	1.8	8.2
Quantitative Goals	4.4	2.0	2.5
Submetering (metering beyond the main utility, revenue or supplier meter)	2.7	1.5	--
Conduct Audits to Identify Energy Saving Opportunities	3.4	1.9	6.5
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.3	1.5	7.4
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.6	2.2	6.2
Measure Oxygen and Carbon Dioxide Levels (f)	6.0	1.4	6.6
Use Flue Gas to Preheat Other Equipment or Processes (g)	3.4	1.0	7.2
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	9.6	1.7	7.3
Cleaning of Heat Transfer Equipment (i)	6.0	1.9	7.1
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	11.6	1.7	7.5
Keep an Inventory of All Motors	10.7	1.7	6.0
Detect and Control Compressed Air Leaks (l)	3.4	2.3	8.0
Track the Amount of Energy Spent in Compressed Air Systems	1.9	2.9	6.4

**322110 Pulp Mills**

Person(s) Responsible for Energy Management (c)	D	0.0	D
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	D	--
Energy Efficiency a part of Purchasing Decision	D	D	D
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	X
Set Goals for Improving Energy Consumption	D	0.0	D
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	X
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	D	0.0	D
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	D	0.0	D
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	X
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	X	D	D
Cleaning of Heat Transfer Equipment (i)	D	0.0	D
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	X	D	D
Keep an Inventory of All Motors	X	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	X
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0

**322121 Paper Mills, except Newsprint**

Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	D	0.0	D
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0

<b>322122</b>	<b>Newsprint Mills</b>			
	Person(s) Responsible for Energy Management (c)	D	0.0	D
	Aware of ISO 50001	D	0.0	--
	Implementing ISO 50001	0.0	X	--
	Energy Efficiency a part of Purchasing Decision	D	D	X
	Energy Use Baseline for Comparing Energy Use in Future Years	D	0.0	D
	Set Goals for Improving Energy Consumption	D	0.0	D
	Quantitative Goals	D	0.0	D
	Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
	Conduct Audits to Identify Energy Saving Opportunities	D	0.0	D
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	D	0.0	D
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	D	0.0	D
	Measure Oxygen and Carbon Dioxide Levels (f)	D	0.0	D
	Use Flue Gas to Preheat Other Equipment or Processes (g)	D	0.0	D
	Process Heating Maintenance Program that Includes the Following:			
	Furance Inspections (h)	D	0.0	D
	Cleaning of Heat Transfer Equipment (i)	D	0.0	D
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	0.0	D
	Keep an Inventory of All Motors	D	0.0	D
	Detect and Control Compressed Air Leaks (l)	D	0.0	D
	Track the Amount of Energy Spent in Compressed Air Systems	0.0	D	D
<b>322130</b>	<b>Paperboard Mills</b>			
	Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
	Aware of ISO 50001	0.0	0.0	--
	Implementing ISO 50001	0.0	0.0	--
	Energy Efficiency a part of Purchasing Decision	0.0	0.0	0.0
	Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
	Set Goals for Improving Energy Consumption	0.0	0.0	0.0
	Quantitative Goals	0.0	0.0	0.0
	Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
	Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
	Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
	Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
	Process Heating Maintenance Program that Includes the Following:			
	Furance Inspections (h)	0.0	0.0	0.0
	Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
	Keep an Inventory of All Motors	0.0	0.0	0.0
	Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
	Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>323</b>	<b>Printing and Related Support</b>			
	Person(s) Responsible for Energy Management (c)	4.5	21.3	17.9
	Aware of ISO 50001	3.6	18.2	--
	Implementing ISO 50001	19.3	61.7	--
	Energy Efficiency a part of Purchasing Decision	15.0	4.5	35.0
	Energy Use Baseline for Comparing Energy Use in Future Years	5.9	17.1	14.3
	Set Goals for Improving Energy Consumption	6.2	17.7	13.4
	Quantitative Goals	32.3	24.2	3.0
	Submetering (metering beyond the main utility, revenue or supplier meter)	2.1	38.0	--
	Conduct Audits to Identify Energy Saving Opportunities	4.4	23.3	17.0
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.3	19.2	15.5
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.5	28.2	15.5
	Measure Oxygen and Carbon Dioxide Levels (f)	4.8	38.6	13.1
	Use Flue Gas to Preheat Other Equipment or Processes (g)	4.8	32.4	14.0
	Process Heating Maintenance Program that Includes the Following:			
	Furance Inspections (h)	9.6	11.1	12.1
	Cleaning of Heat Transfer Equipment (i)	9.7	11.5	11.5
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	9.5	12.1	11.1
	Keep an Inventory of All Motors	6.7	14.9	14.3
	Detect and Control Compressed Air Leaks (l)	6.9	14.6	13.7
	Track the Amount of Energy Spent in Compressed Air Systems	4.5	47.5	13.4
<b>324</b>	<b>Petroleum and Coal Products</b>			
	Person(s) Responsible for Energy Management (c)	5.1	2.5	9.3
	Aware of ISO 50001	3.3	3.9	--
	Implementing ISO 50001	4.0	11.7	--
	Energy Efficiency a part of Purchasing Decision	8.3	3.1	29.3
	Energy Use Baseline for Comparing Energy Use in Future Years	9.1	3.8	7.2

Set Goals for Improving Energy Consumption	6.8	3.1	7.8
Quantitative Goals	6.1	3.3	1.7
Submetering (metering beyond the main utility, revenue or supplier meter)	2.9	1.9	--
Conduct Audits to Identify Energy Saving Opportunities	4.1	3.0	8.3
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.1	3.2	8.1
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	3.6	4.9	8.0
Measure Oxygen and Carbon Dioxide Levels (f)	6.7	3.7	7.2
Use Flue Gas to Preheat Other Equipment or Processes (g)	5.0	2.0	8.0
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	11.4	3.2	9.4
Cleaning of Heat Transfer Equipment (i)	8.6	3.5	9.1
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	15.3	3.1	9.5
Keep an Inventory of All Motors	10.4	3.2	9.7
Detect and Control Compressed Air Leaks (l)	4.3	5.4	8.6
Track the Amount of Energy Spent in Compressed Air Systems	3.4	5.3	8.1
<b>324110 Petroleum Refineries</b>			
Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	0	0.0	0
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0	0.0	0
Keep an Inventory of All Motors	0	0.0	0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>324121 Asphalt Paving Mixture and Block</b>			
Person(s) Responsible for Energy Management (c)	7.9	7.6	9.3
Aware of ISO 50001	5.5	7.8	--
Implementing ISO 50001	8.6	35.8	--
Energy Efficiency a part of Purchasing Decision	11.4	4.1	30.6
Energy Use Baseline for Comparing Energy Use in Future Years	10.8	6.6	8.6
Set Goals for Improving Energy Consumption	8.7	6.8	8.7
Quantitative Goals	12.2	11.0	4.6
Submetering (metering beyond the main utility, revenue or supplier meter)	2.0	10.1	--
Conduct Audits to Identify Energy Saving Opportunities	6.3	12.3	7.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.3	8.9	8.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.0	14.1	7.9
Measure Oxygen and Carbon Dioxide Levels (f)	12.1	6.6	7.1
Use Flue Gas to Preheat Other Equipment or Processes (g)	6.9	10.1	6.5
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	13.1	5.4	10.1
Cleaning of Heat Transfer Equipment (i)	9.6	5.3	10.1
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	18.7	4.9	10.9
Keep an Inventory of All Motors	11.7	6.3	8.8
Detect and Control Compressed Air Leaks (l)	6.9	9.7	8.5
Track the Amount of Energy Spent in Compressed Air Systems	5.1	39.9	8.2
<b>324122 Asphalt Shingle and Coating Materials</b>			
Person(s) Responsible for Energy Management (c)	13.3	12.7	21.4
Aware of ISO 50001	6.9	13.1	--
Implementing ISO 50001	13.2	40.6	--
Energy Efficiency a part of Purchasing Decision	20.4	12.2	17.3
Energy Use Baseline for Comparing Energy Use in Future Years	29.0	12.6	15.2
Set Goals for Improving Energy Consumption	22.5	12.6	15.7
Quantitative Goals	12.4	12.9	4.8
Submetering (metering beyond the main utility, revenue or supplier meter)	5.7	12.6	--
Conduct Audits to Identify Energy Saving Opportunities	12.8	12.9	16.9
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	12.7	13.9	19.2
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	11.9	12.1	21.0
Measure Oxygen and Carbon Dioxide Levels (f)	13.3	12.6	17.1
Use Flue Gas to Preheat Other Equipment or Processes (g)	12.4	12.4	21.9

Process Heating Maintenance Program that Includes the Following:			
Furnance Inspections (h)	15.1	11.9	22.1
Cleaning of Heat Transfer Equipment (i)	16.5	11.9	22.1
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	12.2	11.7	23.7
Keep an Inventory of All Motors	32.2	12.2	25.8
Detect and Control Compressed Air Leaks (l)	15.0	12.6	23.8
Track the Amount of Energy Spent in Compressed Air Systems	12.1	12.1	20.3
<b>324191 Petroleum Lubricating Oil and Grease Products</b>			
Person(s) Responsible for Energy Management (c)			
Aware of ISO 50001	14	15	30
Implementing ISO 50001	14	17	--
Energy Efficiency a part of Purchasing Decision	17	0	--
Energy Use Baseline for Comparing Energy Use in Future Years	23	13	53
Set Goals for Improving Energy Consumption	21	22	23
Quantitative Goals	18	16	26
Submetering (metering beyond the main utility, revenue or supplier meter)	14	17	4
Conduct Audits to Identify Energy Saving Opportunities	11	13	--
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	13	18	30
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	13	20	29
Measure Oxygen and Carbon Dioxide Levels (f)	12	28	28
Use Flue Gas to Preheat Other Equipment or Processes (g)	22	22	21
Process Heating Maintenance Program that Includes the Following:	15	16	23
Furnance Inspections (h)	31	15	26
Cleaning of Heat Transfer Equipment (i)	33	15	26
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	31	15	26
Keep an Inventory of All Motors	23	16	29
Detect and Control Compressed Air Leaks (l)	17	26	26
Track the Amount of Energy Spent in Compressed Air Systems	13	13	25
<b>324199 Other Petroleum and Coal Products</b>			
Person(s) Responsible for Energy Management (c)			
Aware of ISO 50001	0.0	0.0	0.0
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	0	0.0	0
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that Includes the Following:	0.0	0.0	0.0
Furnance Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0	0.0	0
Keep an Inventory of All Motors	0	0.0	0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>325 Chemicals</b>			
Person(s) Responsible for Energy Management (c)			
Aware of ISO 50001	4.0	4.7	4.6
Implementing ISO 50001	2.5	3.5	--
Energy Efficiency a part of Purchasing Decision	3.8	10.7	--
Energy Use Baseline for Comparing Energy Use in Future Years	6.0	1.7	12.1
Set Goals for Improving Energy Consumption	6.0	3.4	4.4
Quantitative Goals	4.9	2.9	5.2
Submetering (metering beyond the main utility, revenue or supplier meter)	9.4	3.7	1.8
Conduct Audits to Identify Energy Saving Opportunities	2.3	4.0	--
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.7	4.4	5.3
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.6	4.3	5.0
Measure Oxygen and Carbon Dioxide Levels (f)	2.2	6.3	4.8
Use Flue Gas to Preheat Other Equipment or Processes (g)	3.8	3.9	4.4
Process Heating Maintenance Program that Includes the Following:	3.1	4.3	4.9
Furnance Inspections (h)	6.5	2.7	5.7
Cleaning of Heat Transfer Equipment (i)	6.6	2.9	6.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	7.9	2.5	6.0
Keep an Inventory of All Motors	6.3	3.1	6.2
Detect and Control Compressed Air Leaks (l)	4.0	4.8	5.6
Track the Amount of Energy Spent in Compressed Air Systems	2.6	5.0	5.0

<b>325110 Petrochemicals</b>			
Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	0.0	0.0	X
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>325120 Industrial Gases</b>			
Person(s) Responsible for Energy Management (c)	30.7	16.5	17.5
Aware of ISO 50001	24.4	16.9	--
Implementing ISO 50001	16.9	X	--
Energy Efficiency a part of Purchasing Decision	48.2	11.2	15.9
Energy Use Baseline for Comparing Energy Use in Future Years	49.3	15.1	16.5
Set Goals for Improving Energy Consumption	41.9	14.7	17.4
Quantitative Goals	73.5	15.4	13.3
Submetering (metering beyond the main utility, revenue or supplier meter)	24.3	17.6	--
Conduct Audits to Identify Energy Saving Opportunities	21.1	23.9	14.6
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	14.1	16.6	15.7
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	13.1	18.2	15.4
Measure Oxygen and Carbon Dioxide Levels (f)	14.1	50.2	15.6
Use Flue Gas to Preheat Other Equipment or Processes (g)	10.3	12.1	14.7
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	31.8	24.8	15.6
Cleaning of Heat Transfer Equipment (i)	51.1	15.8	14.5
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	50.0	19.1	15.5
Keep an Inventory of All Motors	41.0	17.0	15.1
Detect and Control Compressed Air Leaks (l)	33.8	21.6	14.5
Track the Amount of Energy Spent in Compressed Air Systems	25.8	27.1	15.4
<b>325180 Other Basic Inorganic Chemicals</b>			
Person(s) Responsible for Energy Management (c)	13.3	18.2	25.5
Aware of ISO 50001	11.2	16.1	--
Implementing ISO 50001	18.9	19.1	--
Energy Efficiency a part of Purchasing Decision	31.4	8.6	51.8
Energy Use Baseline for Comparing Energy Use in Future Years	25.9	13.1	26.2
Set Goals for Improving Energy Consumption	14.4	16.1	28.0
Quantitative Goals	52.4	18.9	8.5
Submetering (metering beyond the main utility, revenue or supplier meter)	9.0	16.2	--
Conduct Audits to Identify Energy Saving Opportunities	12.3	20.0	25.1
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	12.1	19.3	25.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.7	14.6	23.4
Measure Oxygen and Carbon Dioxide Levels (f)	16.8	15.7	24.4
Use Flue Gas to Preheat Other Equipment or Processes (g)	14.5	18.0	23.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	31.2	13.4	22.3
Cleaning of Heat Transfer Equipment (i)	32.7	13.3	21.9
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	37.8	12.9	22.9
Keep an Inventory of All Motors	29.9	10.6	29.7
Detect and Control Compressed Air Leaks (l)	13.0	17.1	29.2
Track the Amount of Energy Spent in Compressed Air Systems	8.5	29.9	25.8
<b>325193 Ethyl Alcohol</b>			
Person(s) Responsible for Energy Management (c)	7.3	7.3	7.7
Aware of ISO 50001	5.1	6.9	--
Implementing ISO 50001	7.2	28.3	--
Energy Efficiency a part of Purchasing Decision	0	2.5	0
Energy Use Baseline for Comparing Energy Use in Future Years	28.4	2.9	9.0
Set Goals for Improving Energy Consumption	15.6	3.6	8.2

Quantitative Goals	11.6	6.0	6.4
Submetering (metering beyond the main utility, revenue or supplier meter)	6.8	4.7	--
Conduct Audits to Identify Energy Saving Opportunities	8.9	8.7	6.9
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.8	7.3	7.2
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.5	10.4	7.0
Measure Oxygen and Carbon Dioxide Levels (f)	D	3.2	D
Use Flue Gas to Preheat Other Equipment or Processes (g)	15.4	5.3	7.3
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	46.9	5.2	8.3
Cleaning of Heat Transfer Equipment (i)	71.3	2.8	8.4
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	71.3	2.8	8.5
Keep an Inventory of All Motors	D	2.0	D
Detect and Control Compressed Air Leaks (l)	13.0	6.4	7.4
Track the Amount of Energy Spent in Compressed Air Systems	6.1	8.7	7.2
<b>325194 Cyclic Crudes, Intermediate and Gum and Wood Chemicals</b>			
Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	D	--
Energy Efficiency a part of Purchasing Decision	D	D	X
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	D	0.0	D
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	0.0	D
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>325199 Other Basic Organic Chemicals</b>			
Person(s) Responsible for Energy Management (c)	14.9	12.6	18.4
Aware of ISO 50001	12.8	11.2	--
Implementing ISO 50001	13.8	37.7	--
Energy Efficiency a part of Purchasing Decision	31.4	8.6	40.1
Energy Use Baseline for Comparing Energy Use in Future Years	21.9	8.7	19.7
Set Goals for Improving Energy Consumption	16.5	11.8	18.9
Quantitative Goals	31.3	11.8	6.6
Submetering (metering beyond the main utility, revenue or supplier meter)	12.8	11.3	--
Conduct Audits to Identify Energy Saving Opportunities	12.5	15.0	19.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	12.6	14.1	14.7
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	10.8	23.5	15.7
Measure Oxygen and Carbon Dioxide Levels (f)	19.3	11.1	16.1
Use Flue Gas to Preheat Other Equipment or Processes (g)	13.6	13.3	16.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	26.5	9.5	19.8
Cleaning of Heat Transfer Equipment (i)	29.0	9.6	19.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	28.1	8.7	20.2
Keep an Inventory of All Motors	17.9	9.6	23.0
Detect and Control Compressed Air Leaks (l)	13.1	13.8	16.7
Track the Amount of Energy Spent in Compressed Air Systems	11.3	14.8	15.5
<b>325211 Plastics Materials and Resins</b>			
Person(s) Responsible for Energy Management (c)	13.4	13.1	20.7
Aware of ISO 50001	10.6	13.2	--
Implementing ISO 50001	15.4	41.8	--
Energy Efficiency a part of Purchasing Decision	28.1	5.9	50.1
Energy Use Baseline for Comparing Energy Use in Future Years	17.3	10.9	23.1
Set Goals for Improving Energy Consumption	17.4	12.1	19.9
Quantitative Goals	24.8	15.7	8.3
Submetering (metering beyond the main utility, revenue or supplier meter)	8.5	16.0	--
Conduct Audits to Identify Energy Saving Opportunities	10.0	15.7	21.6
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.1	16.0	24.1
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.7	31.6	21.6
Measure Oxygen and Carbon Dioxide Levels (f)	11.8	17.2	18.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	8.5	22.3	23.4
Process Heating Maintenance Program that Includes the Following:			

Furance Inspections (h)	21.5	9.0	22.0
Cleaning of Heat Transfer Equipment (i)	20.4	10.0	20.8
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	29.1	8.2	23.0
Keep an Inventory of All Motors	16.6	10.9	24.6
Detect and Control Compressed Air Leaks (l)	11.4	15.9	22.8
Track the Amount of Energy Spent in Compressed Air Systems	8.5	26.7	19.8

**325212 Synthetic Rubber**

Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	0.0	0.0	0.0
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that includes the Following:			
Furance Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0

**325220 Artificial and Synthetic Fibers and Filaments**

Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	0	0.0	0
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that includes the Following:			
Furance Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0

**325311 Nitrogenous Fertilizers**

Person(s) Responsible for Energy Management (c)	46.1	29.9	43.3
Aware of ISO 50001	8.5	46.9	--
Implementing ISO 50001	47.4	0	--
Energy Efficiency a part of Purchasing Decision	0	13.0	0
Energy Use Baseline for Comparing Energy Use in Future Years	49.4	23.7	54.4
Set Goals for Improving Energy Consumption	21.4	43.7	52.6
Quantitative Goals	43.3	43.9	5.1
Submetering (metering beyond the main utility, revenue or supplier meter)	13.8	46.5	--
Conduct Audits to Identify Energy Saving Opportunities	8.5	44.8	45.9
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	10.4	51.6	47.6
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.3	43.3	48.1
Measure Oxygen and Carbon Dioxide Levels (f)	49.8	23.3	55.8
Use Flue Gas to Preheat Other Equipment or Processes (g)	25.3	45.7	55.4
Process Heating Maintenance Program that includes the Following:			
Furance Inspections (h)	58.4	15.7	61.6
Cleaning of Heat Transfer Equipment (i)	48.1	21.0	49.5
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	70.3	15.5	57.6
Keep an Inventory of All Motors	33.5	44.9	58.0
Detect and Control Compressed Air Leaks (l)	45.2	38.0	51.8
Track the Amount of Energy Spent in Compressed Air Systems	13.4	43.3	57.7

**325312 Phosphatic Fertilizers**

Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	X	--
Energy Efficiency a part of Purchasing Decision	D	D	D
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	D	D	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	D	0.0	D
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>3254      Pharmaceuticals and Medicines</b>			
Person(s) Responsible for Energy Management (c)	13.9	13.5	15.6
Aware of ISO 50001	8.8	13.3	--
Implementing ISO 50001	14.3	28.9	--
Energy Efficiency a part of Purchasing Decision	17.4	6.9	44.3
Energy Use Baseline for Comparing Energy Use in Future Years	17.8	12.1	15.1
Set Goals for Improving Energy Consumption	14.2	13.6	14.1
Quantitative Goals	22.7	15.3	4.4
Submetering (metering beyond the main utility, revenue or supplier meter)	4.1	14.9	--
Conduct Audits to Identify Energy Saving Opportunities	10.4	15.9	16.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.5	20.5	16.9
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.2	32.6	15.0
Measure Oxygen and Carbon Dioxide Levels (f)	11.6	13.1	16.6
Use Flue Gas to Preheat Other Equipment or Processes (g)	7.5	14.1	16.3
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	20.0	9.4	19.1
Cleaning of Heat Transfer Equipment (i)	21.4	9.5	18.6
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	27.0	9.0	18.9
Keep an Inventory of All Motors	13.6	12.9	17.4
Detect and Control Compressed Air Leaks (l)	13.0	13.0	18.3
Track the Amount of Energy Spent in Compressed Air Systems	7.7	13.7	16.1
<b>325412      Pharmaceutical Preparation</b>			
Person(s) Responsible for Energy Management (c)	18.8	18.6	20.3
Aware of ISO 50001	14.8	16.8	--
Implementing ISO 50001	18.2	36.8	--
Energy Efficiency a part of Purchasing Decision	20.8	8.9	12.3
Energy Use Baseline for Comparing Energy Use in Future Years	24.0	16.2	18.8
Set Goals for Improving Energy Consumption	21.5	18.2	17.6
Quantitative Goals	29.4	23.1	7.7
Submetering (metering beyond the main utility, revenue or supplier meter)	2.3	15.4	--
Conduct Audits to Identify Energy Saving Opportunities	14.8	24.2	19.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	12.0	31.1	21.2
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	11.5	13.9	18.1
Measure Oxygen and Carbon Dioxide Levels (f)	14.0	14.1	20.9
Use Flue Gas to Preheat Other Equipment or Processes (g)	10.8	12.6	20.2
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	24.5	13.9	22.3
Cleaning of Heat Transfer Equipment (i)	28.4	13.5	22.1
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	35.3	12.5	22.6
Keep an Inventory of All Motors	17.7	18.3	21.5
Detect and Control Compressed Air Leaks (l)	18.6	17.1	22.1
Track the Amount of Energy Spent in Compressed Air Systems	10.5	18.2	21.6
<b>325992      Photographic Film, Paper, Plate, and Chemicals</b>			
Person(s) Responsible for Energy Management (c)	15.3	25.5	18.8
Aware of ISO 50001	21.4	18.6	--
Implementing ISO 50001	18.6	X	--
Energy Efficiency a part of Purchasing Decision	D	2.2	D
Energy Use Baseline for Comparing Energy Use in Future Years	28.4	18.6	18.8
Set Goals for Improving Energy Consumption	21.5	20.2	18.8
Quantitative Goals	18.8	21.7	15.5



Submetering (metering beyond the main utility, revenue or supplier meter)	17.6	28.0	--
Conduct Audits to Identify Energy Saving Opportunities	20.7	30.8	42.6
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	17.8	18.8	42.2
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	17.1	18.8	42.2
Measure Oxygen and Carbon Dioxide Levels (f)	13.0	29.2	20.9
Use Flue Gas to Preheat Other Equipment or Processes (g)	21.4	18.8	21.7
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	31.2	21.3	32.4
Cleaning of Heat Transfer Equipment (i)	34.1	20.8	35.4
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	34.5	20.7	35.7
Keep an Inventory of All Motors	20.6	35.2	36.2
Detect and Control Compressed Air Leaks (l)	21.6	31.4	30.6
Track the Amount of Energy Spent in Compressed Air Systems	18.2	18.8	32.1
<b>326</b>	<b>Plastics and Rubber Products</b>		
Person(s) Responsible for Energy Management (c)	6.9	14.4	19.3
Aware of ISO 50001	6.8	11.1	--
Implementing ISO 50001	12.8	30.6	--
Energy Efficiency a part of Purchasing Decision	20.9	3.5	74.4
Energy Use Baseline for Comparing Energy Use in Future Years	9.8	11.5	15.4
Set Goals for Improving Energy Consumption	9.3	11.8	16.1
Quantitative Goals	24.3	16.8	5.4
Submetering (metering beyond the main utility, revenue or supplier meter)	3.9	17.7	--
Conduct Audits to Identify Energy Saving Opportunities	6.3	15.4	19.4
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.3	14.6	17.7
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.9	32.0	17.0
Measure Oxygen and Carbon Dioxide Levels (f)	5.7	23.4	15.7
Use Flue Gas to Preheat Other Equipment or Processes (g)	4.6	42.8	16.2
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	10.2	11.2	15.3
Cleaning of Heat Transfer Equipment (i)	11.7	10.7	13.9
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	13.5	9.5	13.7
Keep an Inventory of All Motors	10.3	10.1	17.6
Detect and Control Compressed Air Leaks (l)	11.1	9.3	17.8
Track the Amount of Energy Spent in Compressed Air Systems	5.6	24.5	15.4
<b>327</b>	<b>Nonmetallic Mineral Products</b>		
Person(s) Responsible for Energy Management (c)	4.7	4.6	6.8
Aware of ISO 50001	3.7	6.1	--
Implementing ISO 50001	6.3	9.0	--
Energy Efficiency a part of Purchasing Decision	5.3	1.2	4.9
Energy Use Baseline for Comparing Energy Use in Future Years	7.3	4.5	5.8
Set Goals for Improving Energy Consumption	5.9	4.5	6.3
Quantitative Goals	13.9	5.4	2.0
Submetering (metering beyond the main utility, revenue or supplier meter)	2.1	5.5	--
Conduct Audits to Identify Energy Saving Opportunities	4.4	7.1	4.5
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.9	5.2	5.8
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.8	7.3	5.5
Measure Oxygen and Carbon Dioxide Levels (f)	4.1	3.5	7.1
Use Flue Gas to Preheat Other Equipment or Processes (g)	3.9	4.3	7.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	9.3	3.8	6.6
Cleaning of Heat Transfer Equipment (i)	6.9	4.3	7.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	10.5	3.3	6.6
Keep an Inventory of All Motors	7.9	3.8	7.5
Detect and Control Compressed Air Leaks (l)	5.9	5.1	6.3
Track the Amount of Energy Spent in Compressed Air Systems	3.3	3.9	6.7
<b>327120</b>	<b>Clay Building Material and Refractories</b>		
Person(s) Responsible for Energy Management (c)	11.1	14.4	20.1
Aware of ISO 50001	9.8	13.4	--
Implementing ISO 50001	13.1	34.9	--
Energy Efficiency a part of Purchasing Decision	21.6	4.8	42.6
Energy Use Baseline for Comparing Energy Use in Future Years	13.3	10.9	17.8
Set Goals for Improving Energy Consumption	12.5	14.2	16.6
Quantitative Goals	53.1	11.7	6.8
Submetering (metering beyond the main utility, revenue or supplier meter)	6.2	10.3	--
Conduct Audits to Identify Energy Saving Opportunities	8.4	12.3	16.3
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	9.6	16.3	21.1
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.5	40.0	15.5
Measure Oxygen and Carbon Dioxide Levels (f)	9.2	11.9	17.7
Use Flue Gas to Preheat Other Equipment or Processes (g)	9.6	11.8	17.8
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	27.0	9.6	20.7

	Cleaning of Heat Transfer Equipment (i)	20.7	10.8	19.4
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	30.0	9.4	20.6
	Keep an Inventory of All Motors	16.7	11.4	19.2
	Detect and Control Compressed Air Leaks (l)	11.8	14.0	16.7
	Track the Amount of Energy Spent in Compressed Air Systems	5.2	19.4	16.6
<b>327211</b>	<b>Flat Glass</b>			
	Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
	Aware of ISO 50001	0.0	0.0	--
	Implementing ISO 50001	0.0	D	--
	Energy Efficiency a part of Purchasing Decision	D	0.0	D
	Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
	Set Goals for Improving Energy Consumption	0.0	0.0	0.0
	Quantitative Goals	0.0	0.0	0.0
	Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
	Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
	Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
	Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	0.0	0.0	0.0
	Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
	Keep an Inventory of All Motors	0.0	0.0	0.0
	Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
	Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>327212</b>	<b>Other Pressed and Blown Glass and Glassware</b>			
	Person(s) Responsible for Energy Management (c)	17.0	18.8	46.6
	Aware of ISO 50001	19.8	33.5	--
	Implementing ISO 50001	29.9	18.8	--
	Energy Efficiency a part of Purchasing Decision	30.7	2.3	18.8
	Energy Use Baseline for Comparing Energy Use in Future Years	33.6	24.5	38.1
	Set Goals for Improving Energy Consumption	17.8	21.6	47.0
	Quantitative Goals	32.1	18.8	4.7
	Submetering (metering beyond the main utility, revenue or supplier meter)	16.6	27.8	--
	Conduct Audits to Identify Energy Saving Opportunities	19.6	27.6	40.3
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	16.9	22.4	46.3
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	14.3	18.8	50.5
	Measure Oxygen and Carbon Dioxide Levels (f)	18.1	20.5	50.3
	Use Flue Gas to Preheat Other Equipment or Processes (g)	17.5	28.6	50.8
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	42.0	17.8	48.1
	Cleaning of Heat Transfer Equipment (i)	44.3	19.9	43.0
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	37.9	18.9	43.3
	Keep an Inventory of All Motors	24.4	23.8	41.7
	Detect and Control Compressed Air Leaks (l)	21.2	29.4	39.3
	Track the Amount of Energy Spent in Compressed Air Systems	18.0	29.4	40.8
<b>327213</b>	<b>Glass Containers</b>			
	Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
	Aware of ISO 50001	0.0	0.0	--
	Implementing ISO 50001	0.0	--	--
	Energy Efficiency a part of Purchasing Decision	0.0	0.0	0.0
	Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
	Set Goals for Improving Energy Consumption	0.0	0.0	0.0
	Quantitative Goals	D	D	0.0
	Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
	Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
	Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
	Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	D	0.0	D
	Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	0.0	D
	Keep an Inventory of All Motors	0.0	0.0	0.0
	Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
	Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>327215</b>	<b>Glass Products from Purchased Glass</b>			

Person(s) Responsible for Energy Management (c)	7.8	18.3	21.0
Aware of ISO 50001	9.8	19.2	--
Implementing ISO 50001	18.3	10.5	--
Energy Efficiency a part of Purchasing Decision	20.9	6.6	52.2
Energy Use Baseline for Comparing Energy Use in Future Years	12.7	14.2	18.3
Set Goals for Improving Energy Consumption	11.5	17.2	18.9
Quantitative Goals	29.1	12.4	3.6
Submetering (metering beyond the main utility, revenue or supplier meter)	2.4	12.8	--
Conduct Audits to Identify Energy Saving Opportunities	7.4	17.9	18.3
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	10.6	15.7	22.8
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.0	16.5	23.9
Measure Oxygen and Carbon Dioxide Levels (f)	6.3	11.4	17.1
Use Flue Gas to Preheat Other Equipment or Processes (g)	5.6	19.7	18.6
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	22.1	12.3	22.7
Cleaning of Heat Transfer Equipment (i)	16.7	13.7	20.5
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	18.9	13.2	20.8
Keep an Inventory of All Motors	15.5	16.0	19.9
Detect and Control Compressed Air Leaks (l)	13.4	16.8	20.2
Track the Amount of Energy Spent in Compressed Air Systems	4.3	13.7	16.8
<b>327310 Cements</b>			
Person(s) Responsible for Energy Management (c)	16.0	20.6	27.2
Aware of ISO 50001	13.9	20.0	--
Implementing ISO 50001	21.0	15.1	--
Energy Efficiency a part of Purchasing Decision	0	1.2	0
Energy Use Baseline for Comparing Energy Use in Future Years	26.7	12.4	17.1
Set Goals for Improving Energy Consumption	19.3	15.8	15.1
Quantitative Goals	65.7	15.1	13.6
Submetering (metering beyond the main utility, revenue or supplier meter)	8.8	15.3	--
Conduct Audits to Identify Energy Saving Opportunities	10.5	15.1	28.2
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	22.6	18.7	15.1
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	10.6	16.0	15.1
Measure Oxygen and Carbon Dioxide Levels (f)	26.2	15.7	46.7
Use Flue Gas to Preheat Other Equipment or Processes (g)	24.0	15.8	38.3
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	31.0	15.7	40.6
Cleaning of Heat Transfer Equipment (i)	27.2	15.7	36.6
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	31.8	15.7	42.5
Keep an Inventory of All Motors	36.2	15.4	44.6
Detect and Control Compressed Air Leaks (l)	21.9	21.3	42.4
Track the Amount of Energy Spent in Compressed Air Systems	13.5	15.1	34.4
<b>327410 Lime</b>			
Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	X	--
Energy Efficiency a part of Purchasing Decision	0	0.0	0
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>327420 Gypsum</b>			
Person(s) Responsible for Energy Management (c)	25.7	16.2	20.4
Aware of ISO 50001	14.4	21.4	--
Implementing ISO 50001	21.0	X	--
Energy Efficiency a part of Purchasing Decision	15.0	1.0	15.0
Energy Use Baseline for Comparing Energy Use in Future Years	29.8	18.1	15.0
Set Goals for Improving Energy Consumption	21.4	15.2	19.1
Quantitative Goals	24.9	32.0	16.5
Submetering (metering beyond the main utility, revenue or supplier meter)	7.0	15.1	--

Conduct Audits to Identify Energy Saving Opportunities	28.2	20.0	16.6
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	21.6	22.8	15.8
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	3.5	0	0
Measure Oxygen and Carbon Dioxide Levels (f)	6.0	15.2	19.1
Use Flue Gas to Preheat Other Equipment or Processes (g)	14.6	15.2	35.6
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	20.7	18.2	35.4
Cleaning of Heat Transfer Equipment (i)	15.3	26.5	28.2
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	42.6	5.9	32.8
Keep an Inventory of All Motors	34.9	12.5	21.4
Detect and Control Compressed Air Leaks (l)	17.2	18.7	35.2
Track the Amount of Energy Spent in Compressed Air Systems	3.6	15.0	18.7
<b>327993 Mineral Wool</b>			
Person(s) Responsible for Energy Management (c)	20.1	24.9	35.2
Aware of ISO 50001	24.0	18.4	--
Implementing ISO 50001	19.5	44.4	--
Energy Efficiency a part of Purchasing Decision	28.7	6.6	17.6
Energy Use Baseline for Comparing Energy Use in Future Years	29.0	22.3	26.5
Set Goals for Improving Energy Consumption	42.2	23.9	29.3
Quantitative Goals	17.6	19.7	5.2
Submetering (metering beyond the main utility, revenue or supplier meter)	6.6	18.0	--
Conduct Audits to Identify Energy Saving Opportunities	19.9	30.8	31.5
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	18.0	18.4	26.1
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	11.5	24.3	26.8
Measure Oxygen and Carbon Dioxide Levels (f)	14.5	21.9	28.4
Use Flue Gas to Preheat Other Equipment or Processes (g)	12.7	18.6	28.7
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	39.8	17.1	26.2
Cleaning of Heat Transfer Equipment (i)	34.1	19.0	25.4
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	25.6	16.2	25.4
Keep an Inventory of All Motors	42.7	20.0	24.4
Detect and Control Compressed Air Leaks (l)	35.0	24.1	24.5
Track the Amount of Energy Spent in Compressed Air Systems	23.8	23.0	27.6
<b>331 Primary Metals</b>			
Person(s) Responsible for Energy Management (c)	3.1	3.9	7.8
Aware of ISO 50001	2.8	3.6	--
Implementing ISO 50001	4.2	6.5	--
Energy Efficiency a part of Purchasing Decision	7.3	2.1	23.4
Energy Use Baseline for Comparing Energy Use in Future Years	4.9	3.5	6.4
Set Goals for Improving Energy Consumption	4.0	4.1	7.1
Quantitative Goals	9.5	5.2	2.0
Submetering (metering beyond the main utility, revenue or supplier meter)	2.0	3.7	--
Conduct Audits to Identify Energy Saving Opportunities	2.5	4.5	6.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	3.7	3.5	8.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.3	4.6	5.4
Measure Oxygen and Carbon Dioxide Levels (f)	4.0	5.5	5.1
Use Flue Gas to Preheat Other Equipment or Processes (g)	3.1	3.8	5.8
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	7.8	2.5	7.3
Cleaning of Heat Transfer Equipment (i)	5.9	2.8	6.6
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	8.4	2.3	7.0
Keep an Inventory of All Motors	5.0	3.4	6.5
Detect and Control Compressed Air Leaks (l)	3.8	4.3	6.3
Track the Amount of Energy Spent in Compressed Air Systems	2.4	4.6	5.2
<b>331110 Iron and Steel Mills and Ferroalloys</b>			
Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	0.0	0.0	0.0
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0

	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
	Keep an Inventory of All Motors	0.0	0.0	0.0
	Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
	Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>3312</b>	<b>Steel Products from Purchased Steel</b>			
	Person(s) Responsible for Energy Management (c)	10.0	16.4	24.4
	Aware of ISO 50001	10.5	14.8	--
	Implementing ISO 50001	15.9	34.4	--
	Energy Efficiency a part of Purchasing Decision	19.8	7.5	50.2
	Energy Use Baseline for Comparing Energy Use in Future Years	17.2	14.0	22.0
	Set Goals for Improving Energy Consumption	11.3	16.6	21.0
	Quantitative Goals	10.0	19.9	3.4
	Submetering (metering beyond the main utility, revenue or supplier meter)	7.3	23.6	--
	Conduct Audits to Identify Energy Saving Opportunities	9.1	29.5	18.1
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	11.4	14.3	21.2
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	9.0	21.0	21.8
	Measure Oxygen and Carbon Dioxide Levels (f)	12.5	15.8	20.7
	Use Flue Gas to Preheat Other Equipment or Processes (g)	11.0	14.6	18.6
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	22.2	13.0	21.9
	Cleaning of Heat Transfer Equipment (i)	23.8	13.3	20.2
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	27.1	12.7	20.9
	Keep an Inventory of All Motors	23.5	12.7	23.7
	Detect and Control Compressed Air Leaks (l)	14.7	15.0	20.3
	Track the Amount of Energy Spent in Compressed Air Systems	9.6	23.8	21.3
<b>3313</b>	<b>Alumina and Aluminum</b>			
	Person(s) Responsible for Energy Management (c)	4.0	5.6	7.1
	Aware of ISO 50001	4.0	5.1	--
	Implementing ISO 50001	5.5	8.9	--
	Energy Efficiency a part of Purchasing Decision	6.4	1.3	6.8
	Energy Use Baseline for Comparing Energy Use in Future Years	7.3	4.0	4.0
	Set Goals for Improving Energy Consumption	5.0	5.0	6.7
	Quantitative Goals	6.2	3.2	1.9
	Submetering (metering beyond the main utility, revenue or supplier meter)	2.1	3.7	--
	Conduct Audits to Identify Energy Saving Opportunities	3.8	5.4	9.7
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.3	3.8	5.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	2.5	2.6	3.2
	Measure Oxygen and Carbon Dioxide Levels (f)	5.8	4.2	5.3
	Use Flue Gas to Preheat Other Equipment or Processes (g)	4.6	4.9	3.8
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	16.5	2.6	7.3
	Cleaning of Heat Transfer Equipment (i)	8.8	3.4	6.8
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	22.1	2.6	7.3
	Keep an Inventory of All Motors	7.2	3.5	4.1
	Detect and Control Compressed Air Leaks (l)	4.1	4.1	4.4
	Track the Amount of Energy Spent in Compressed Air Systems	2.5	4.5	3.5
<b>331314</b>	<b>Secondary Smelting and Alloying of Aluminum</b>			
	Person(s) Responsible for Energy Management (c)	14.9	21.4	16.1
	Aware of ISO 50001	13.8	15.1	--
	Implementing ISO 50001	18.1	13.1	--
	Energy Efficiency a part of Purchasing Decision	0	5.3	0
	Energy Use Baseline for Comparing Energy Use in Future Years	16.6	12.3	13.9
	Set Goals for Improving Energy Consumption	15.5	17.0	16.5
	Quantitative Goals	15.2	14.8	5.0
	Submetering (metering beyond the main utility, revenue or supplier meter)	7.1	15.1	--
	Conduct Audits to Identify Energy Saving Opportunities	14.2	18.1	23.1
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	12.6	16.2	15.3
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.6	15.5	14.8
	Measure Oxygen and Carbon Dioxide Levels (f)	14.9	16.5	16.4
	Use Flue Gas to Preheat Other Equipment or Processes (g)	11.9	25.0	15.3
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	24.3	6.8	18.3
	Cleaning of Heat Transfer Equipment (i)	19.6	11.8	15.1
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	28.8	8.1	15.9
	Keep an Inventory of All Motors	13.1	9.0	18.4
	Detect and Control Compressed Air Leaks (l)	12.4	15.2	14.6
	Track the Amount of Energy Spent in Compressed Air Systems	7.7	21.2	14.5
<b>331315</b>	<b>Aluminum Sheet, Plate and Foils</b>			
	Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0

Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	X	--
Energy Efficiency a part of Purchasing Decision	0.0	0.0	X
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	D	0.0	D
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	D	0.0	D
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>331318 Other Aluminum Rolling, Drawing and Extruding</b>			
Person(s) Responsible for Energy Management (c)	8.5	9.6	13.4
Aware of ISO 50001	9.3	11.0	--
Implementing ISO 50001	11.2	8.9	--
Energy Efficiency a part of Purchasing Decision	D	0.9	D
Energy Use Baseline for Comparing Energy Use in Future Years	15.0	11.2	13.5
Set Goals for Improving Energy Consumption	12.2	10.1	19.9
Quantitative Goals	9.8	10.5	4.9
Submetering (metering beyond the main utility, revenue or supplier meter)	3.0	11.1	--
Conduct Audits to Identify Energy Saving Opportunities	7.9	16.5	14.1
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.3	9.6	15.7
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	3.4	11.9	13.6
Measure Oxygen and Carbon Dioxide Levels (f)	10.1	10.4	11.8
Use Flue Gas to Preheat Other Equipment or Processes (g)	7.8	10.1	12.8
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	25.6	9.6	14.6
Cleaning of Heat Transfer Equipment (i)	15.2	11.7	14.1
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	34.9	8.8	14.5
Keep an Inventory of All Motors	14.9	10.4	11.7
Detect and Control Compressed Air Leaks (l)	7.8	11.7	10.2
Track the Amount of Energy Spent in Compressed Air Systems	3.6	14.4	13.8
<b>3314 Nonferrous Metals, except Aluminum</b>			
Person(s) Responsible for Energy Management (c)	8.8	14.6	19.1
Aware of ISO 50001	10.2	10.2	--
Implementing ISO 50001	13.9	14.3	--
Energy Efficiency a part of Purchasing Decision	13.9	5.3	52.4
Energy Use Baseline for Comparing Energy Use in Future Years	14.7	12.5	17.8
Set Goals for Improving Energy Consumption	13.2	14.2	16.8
Quantitative Goals	37.2	21.3	10.4
Submetering (metering beyond the main utility, revenue or supplier meter)	5.5	13.0	--
Conduct Audits to Identify Energy Saving Opportunities	7.0	16.2	19.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	11.0	13.2	25.9
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.9	20.6	18.9
Measure Oxygen and Carbon Dioxide Levels (f)	10.5	21.0	17.9
Use Flue Gas to Preheat Other Equipment or Processes (g)	11.2	11.8	21.6
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	16.3	7.7	19.1
Cleaning of Heat Transfer Equipment (i)	15.0	8.2	20.7
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	17.8	6.8	20.4
Keep an Inventory of All Motors	14.6	9.7	21.2
Detect and Control Compressed Air Leaks (l)	12.5	13.4	21.8
Track the Amount of Energy Spent in Compressed Air Systems	6.9	14.9	18.2
<b>331410 Nonferrous Metal (except Aluminum) Smelting and Refining</b>			
Person(s) Responsible for Energy Management (c)	12.6	24.3	18.0
Aware of ISO 50001	18.4	12.4	--
Implementing ISO 50001	19.8	18.0	--
Energy Efficiency a part of Purchasing Decision	18.0	5.6	18.0
Energy Use Baseline for Comparing Energy Use in Future Years	21.1	19.8	27.8
Set Goals for Improving Energy Consumption	21.3	21.7	18.0
Quantitative Goals	46.5	29.7	19.6
Submetering (metering beyond the main utility, revenue or supplier meter)	6.4	20.0	--
Conduct Audits to Identify Energy Saving Opportunities	8.4	18.0	18.0

	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	21.2	18.5	35.7
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.9	18.0	18.0
	Measure Oxygen and Carbon Dioxide Levels (f)	20.3	28.8	20.6
	Use Flue Gas to Preheat Other Equipment or Processes (g)	20.2	18.0	33.6
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	18.0	11.6	24.0
	Cleaning of Heat Transfer Equipment (i)	18.0	11.2	23.6
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	18.0	8.6	24.0
	Keep an Inventory of All Motors	22.4	13.3	18.0
	Detect and Control Compressed Air Leaks (l)	21.6	19.5	18.0
	Track the Amount of Energy Spent in Compressed Air Systems	10.4	19.0	18.0
<b>3315</b>	<b>Foundries</b>			
	Person(s) Responsible for Energy Management (c)	6.2	7.9	17.9
	Aware of ISO 50001	5.0	7.6	--
	Implementing ISO 50001	8.4	12.4	--
	Energy Efficiency a part of Purchasing Decision	16.9	5.5	44.6
	Energy Use Baseline for Comparing Energy Use in Future Years	8.2	8.6	13.5
	Set Goals for Improving Energy Consumption	7.9	7.9	15.3
	Quantitative Goals	17.7	8.4	2.8
	Submetering (metering beyond the main utility, revenue or supplier meter)	4.1	9.7	--
	Conduct Audits to Identify Energy Saving Opportunities	4.6	8.7	15.9
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	7.8	7.7	15.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.8	11.7	13.8
	Measure Oxygen and Carbon Dioxide Levels (f)	7.1	14.8	11.5
	Use Flue Gas to Preheat Other Equipment or Processes (g)	4.9	11.6	11.9
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	15.6	5.8	15.1
	Cleaning of Heat Transfer Equipment (i)	12.0	6.2	13.5
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	14.3	4.8	14.3
	Keep an Inventory of All Motors	8.4	8.2	16.5
	Detect and Control Compressed Air Leaks (l)	8.3	8.2	14.3
	Track the Amount of Energy Spent in Compressed Air Systems	4.8	10.4	12.9
<b>331511</b>	<b>Iron Foundries</b>			
	Person(s) Responsible for Energy Management (c)	14.4	22.0	39.7
	Aware of ISO 50001	7.9	21.5	--
	Implementing ISO 50001	22.2	40.2	--
	Energy Efficiency a part of Purchasing Decision	46.2	15.6	60.1
	Energy Use Baseline for Comparing Energy Use in Future Years	22.4	21.8	36.7
	Set Goals for Improving Energy Consumption	21.6	22.9	40.6
	Quantitative Goals	44.4	25.1	8.3
	Submetering (metering beyond the main utility, revenue or supplier meter)	7.6	22.8	--
	Conduct Audits to Identify Energy Saving Opportunities	7.1	22.6	29.7
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	20.3	20.5	41.4
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.4	19.6	41.2
	Measure Oxygen and Carbon Dioxide Levels (f)	18.6	49.8	30.0
	Use Flue Gas to Preheat Other Equipment or Processes (g)	8.5	23.6	33.6
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	33.6	16.1	35.1
	Cleaning of Heat Transfer Equipment (i)	32.6	14.1	33.9
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	28.9	8.8	36.3
	Keep an Inventory of All Motors	27.1	19.8	45.8
	Detect and Control Compressed Air Leaks (l)	20.3	21.7	47.9
	Track the Amount of Energy Spent in Compressed Air Systems	9.0	23.2	36.6
<b>331523</b>	<b>Nonferrous Metal Die-Casting Foundries</b>			
	Person(s) Responsible for Energy Management (c)	12.1	11.4	22.8
	Aware of ISO 50001	8.9	11.7	--
	Implementing ISO 50001	14.1	20.0	--
	Energy Efficiency a part of Purchasing Decision	22.7	6.0	39.6
	Energy Use Baseline for Comparing Energy Use in Future Years	14.4	10.7	17.6
	Set Goals for Improving Energy Consumption	15.3	10.0	20.3
	Quantitative Goals	26.9	11.6	6.9
	Submetering (metering beyond the main utility, revenue or supplier meter)	6.4	17.6	--
	Conduct Audits to Identify Energy Saving Opportunities	10.0	12.6	19.2
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	11.4	12.0	20.4
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.4	26.2	18.3
	Measure Oxygen and Carbon Dioxide Levels (f)	12.7	14.9	13.9
	Use Flue Gas to Preheat Other Equipment or Processes (g)	9.9	19.6	15.8
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	33.0	8.0	19.1
	Cleaning of Heat Transfer Equipment (i)	23.4	9.1	17.1
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	28.0	7.7	18.4

	Keep an Inventory of All Motors	13.7	11.6	17.4
	Detect and Control Compressed Air Leaks (l)	13.1	11.4	15.5
	Track the Amount of Energy Spent in Compressed Air Systems	8.9	13.8	15.6
<b>331524</b>	<b>Aluminum Foundries, except Die-Casting</b>			
	Person(s) Responsible for Energy Management (c)	14.6	17.3	40.6
	Aware of ISO 50001	14.0	18.5	--
	Implementing ISO 50001	20.3	12.2	--
	Energy Efficiency a part of Purchasing Decision	16.0	12.7	70.6
	Energy Use Baseline for Comparing Energy Use in Future Years	14.8	15.7	35.0
	Set Goals for Improving Energy Consumption	14.5	16.8	36.9
	Quantitative Goals	18.4	19.8	3.3
	Submetering (metering beyond the main utility, revenue or supplier meter)	12.6	15.2	--
	Conduct Audits to Identify Energy Saving Opportunities	13.6	23.1	38.6
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	15.1	16.3	32.7
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	13.7	15.4	30.4
	Measure Oxygen and Carbon Dioxide Levels (f)	14.3	18.2	28.5
	Use Flue Gas to Preheat Other Equipment or Processes (g)	13.5	12.2	26.4
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	32.4	13.6	39.3
	Cleaning of Heat Transfer Equipment (i)	23.7	13.9	41.8
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	27.7	13.7	43.1
	Keep an Inventory of All Motors	14.9	17.8	43.1
	Detect and Control Compressed Air Leaks (l)	16.4	16.1	36.6
	Track the Amount of Energy Spent in Compressed Air Systems	13.2	12.2	30.7
<b>332</b>	<b>Fabricated Metal Products</b>			
	Person(s) Responsible for Energy Management (c)	3.7	16.9	14.0
	Aware of ISO 50001	3.7	12.1	--
	Implementing ISO 50001	12.2	34.2	--
	Energy Efficiency a part of Purchasing Decision	11.4	4.0	22.0
	Energy Use Baseline for Comparing Energy Use in Future Years	5.6	13.5	9.6
	Set Goals for Improving Energy Consumption	5.9	12.5	9.6
	Quantitative Goals	23.1	20.1	2.5
	Submetering (metering beyond the main utility, revenue or supplier meter)	2.2	29.0	--
	Conduct Audits to Identify Energy Saving Opportunities	3.7	19.1	12.6
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.4	17.3	11.0
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	3.9	28.1	10.8
	Measure Oxygen and Carbon Dioxide Levels (f)	4.2	26.7	10.0
	Use Flue Gas to Preheat Other Equipment or Processes (g)	3.6	48.4	10.7
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	7.6	8.4	10.3
	Cleaning of Heat Transfer Equipment (i)	7.4	9.4	9.5
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	7.6	9.5	9.1
	Keep an Inventory of All Motors	5.9	11.5	10.3
	Detect and Control Compressed Air Leaks (l)	6.8	9.9	10.0
	Track the Amount of Energy Spent in Compressed Air Systems	3.7	32.8	10.7
<b>333</b>	<b>Machinery</b>			
	Person(s) Responsible for Energy Management (c)	4.6	14.9	13.9
	Aware of ISO 50001	3.9	11.2	--
	Implementing ISO 50001	12.0	29.8	--
	Energy Efficiency a part of Purchasing Decision	12.1	3.8	43.3
	Energy Use Baseline for Comparing Energy Use in Future Years	7.3	12.2	9.2
	Set Goals for Improving Energy Consumption	6.0	12.8	11.3
	Quantitative Goals	27.0	19.0	2.7
	Submetering (metering beyond the main utility, revenue or supplier meter)	1.9	23.3	--
	Conduct Audits to Identify Energy Saving Opportunities	4.5	15.9	14.2
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.1	17.2	11.5
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.1	33.7	11.7
	Measure Oxygen and Carbon Dioxide Levels (f)	4.7	20.5	11.1
	Use Flue Gas to Preheat Other Equipment or Processes (g)	4.0	41.5	11.3
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	10.1	7.9	10.3
	Cleaning of Heat Transfer Equipment (i)	10.4	8.0	9.8
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	9.7	8.7	9.6
	Keep an Inventory of All Motors	7.0	10.3	11.6
	Detect and Control Compressed Air Leaks (l)	7.1	10.7	10.9
	Track the Amount of Energy Spent in Compressed Air Systems	3.9	30.7	12.3
<b>334</b>	<b>Computer and Electronic Products</b>			
	Person(s) Responsible for Energy Management (c)	9.4	14.5	29.1
	Aware of ISO 50001	8.9	11.0	--



Implementing ISO 50001	12.9	56.0	--
Energy Efficiency a part of Purchasing Decision	28.4	4.7	66.7
Energy Use Baseline for Comparing Energy Use in Future Years	13.3	12.2	23.9
Set Goals for Improving Energy Consumption	10.2	14.7	26.2
Quantitative Goals	36.9	16.9	6.2
Submetering (metering beyond the main utility, revenue or supplier meter)	4.3	16.2	--
Conduct Audits to Identify Energy Saving Opportunities	9.4	17.1	26.4
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.9	22.1	18.8
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.5	31.4	19.4
Measure Oxygen and Carbon Dioxide Levels (f)	8.2	20.4	23.8
Use Flue Gas to Preheat Other Equipment or Processes (g)	7.0	35.7	22.3
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	14.6	12.0	23.6
Cleaning of Heat Transfer Equipment (i)	13.6	12.7	20.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	16.4	11.8	19.9
Keep an Inventory of All Motors	10.4	13.4	26.0
Detect and Control Compressed Air Leaks (l)	10.8	14.2	25.4
Track the Amount of Energy Spent in Compressed Air Systems	7.5	27.5	26.0
<b>334413 Semiconductors and Related Devices</b>			
Person(s) Responsible for Energy Management (c)	18.6	23.2	43.5
Aware of ISO 50001	21.7	14.7	--
Implementing ISO 50001	17.6	81.4	--
Energy Efficiency a part of Purchasing Decision	91.6	7.9	89.8
Energy Use Baseline for Comparing Energy Use in Future Years	32.4	17.8	40.5
Set Goals for Improving Energy Consumption	20.0	22.8	44.9
Quantitative Goals	48.4	26.5	11.5
Submetering (metering beyond the main utility, revenue or supplier meter)	7.8	20.2	--
Conduct Audits to Identify Energy Saving Opportunities	20.8	22.5	47.2
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	20.0	31.5	27.5
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	18.2	43.1	29.4
Measure Oxygen and Carbon Dioxide Levels (f)	19.3	24.6	36.3
Use Flue Gas to Preheat Other Equipment or Processes (g)	15.5	41.4	30.8
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	30.7	20.3	36.3
Cleaning of Heat Transfer Equipment (i)	29.4	22.1	28.3
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	33.9	20.6	30.5
Keep an Inventory of All Motors	28.4	18.1	38.0
Detect and Control Compressed Air Leaks (l)	24.7	22.0	36.1
Track the Amount of Energy Spent in Compressed Air Systems	17.9	34.6	34.3
<b>335 Electrical Equip., Appliances, Components</b>			
Person(s) Responsible for Energy Management (c)	8.6	25.3	39.5
Aware of ISO 50001	9.9	22.0	--
Implementing ISO 50001	24.6	40.7	--
Energy Efficiency a part of Purchasing Decision	22.1	11.0	95.8
Energy Use Baseline for Comparing Energy Use in Future Years	14.0	21.9	25.3
Set Goals for Improving Energy Consumption	11.8	23.6	36.8
Quantitative Goals	81.6	28.4	5.4
Submetering (metering beyond the main utility, revenue or supplier meter)	3.6	26.7	--
Conduct Audits to Identify Energy Saving Opportunities	9.5	27.1	37.5
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	13.2	24.5	29.9
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	8.6	37.5	40.5
Measure Oxygen and Carbon Dioxide Levels (f)	10.4	30.0	28.8
Use Flue Gas to Preheat Other Equipment or Processes (g)	7.0	D	0
Process Heating Maintenance Program that includes the Following:			
Furnace Inspections (h)	18.1	17.0	32.3
Cleaning of Heat Transfer Equipment (i)	18.0	15.7	38.8
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	20.4	14.8	35.6
Keep an Inventory of All Motors	13.4	21.1	36.3
Detect and Control Compressed Air Leaks (l)	14.0	21.8	31.1
Track the Amount of Energy Spent in Compressed Air Systems	9.2	35.3	30.5
<b>336 Transportation Equipment</b>			
Person(s) Responsible for Energy Management (c)	5.9	3.8	13.3
Aware of ISO 50001	4.2	5.5	--
Implementing ISO 50001	6.6	10.1	--
Energy Efficiency a part of Purchasing Decision	11.4	2.8	13.0
Energy Use Baseline for Comparing Energy Use in Future Years	6.4	4.0	10.7
Set Goals for Improving Energy Consumption	6.3	4.5	10.9
Quantitative Goals	12.3	4.2	2.4
Submetering (metering beyond the main utility, revenue or supplier meter)	1.0	2.9	--
Conduct Audits to Identify Energy Saving Opportunities	5.1	4.3	12.1
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.2	9.0	9.5

Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	4.2	17.3	9.6
Measure Oxygen and Carbon Dioxide Levels (f)	5.2	5.0	8.6
Use Flue Gas to Preheat Other Equipment or Processes (g)	4.4	8.6	8.7
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	8.8	5.9	7.8
Cleaning of Heat Transfer Equipment (i)	8.5	6.0	8.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	9.5	5.5	8.4
Keep an Inventory of All Motors	6.1	5.6	7.7
Detect and Control Compressed Air Leaks (l)	5.9	5.2	9.7
Track the Amount of Energy Spent in Compressed Air Systems	5.1	4.5	10.6
<b>336111 Automobiles</b>			
Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	D	0.0	D
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	0.0	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>336112 Light Trucks and Utility Vehicles</b>			
Person(s) Responsible for Energy Management (c)	0.0	0.0	0.0
Aware of ISO 50001	0.0	0.0	--
Implementing ISO 50001	0.0	0.0	--
Energy Efficiency a part of Purchasing Decision	0.0	0.0	0.0
Energy Use Baseline for Comparing Energy Use in Future Years	0.0	0.0	0.0
Set Goals for Improving Energy Consumption	0.0	0.0	0.0
Quantitative Goals	X	0.0	0.0
Submetering (metering beyond the main utility, revenue or supplier meter)	0.0	0.0	--
Conduct Audits to Identify Energy Saving Opportunities	0.0	0.0	0.0
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	0.0	0.0	0.0
Measure Oxygen and Carbon Dioxide Levels (f)	0.0	0.0	0.0
Use Flue Gas to Preheat Other Equipment or Processes (g)	0.0	0.0	0.0
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	0.0	0.0	0.0
Cleaning of Heat Transfer Equipment (i)	0.0	0.0	0.0
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	0.0	0.0	0.0
Keep an Inventory of All Motors	0.0	0.0	0.0
Detect and Control Compressed Air Leaks (l)	0.0	0.0	0.0
Track the Amount of Energy Spent in Compressed Air Systems	0.0	0.0	0.0
<b>3364 Aerospace Product and Parts</b>			
Person(s) Responsible for Energy Management (c)	10.5	12.6	32.7
Aware of ISO 50001	8.1	15.4	--
Implementing ISO 50001	17.0	49.0	--
Energy Efficiency a part of Purchasing Decision	28.3	5.9	24.8
Energy Use Baseline for Comparing Energy Use in Future Years	10.7	12.1	24.7
Set Goals for Improving Energy Consumption	11.9	13.1	23.8
Quantitative Goals	21.1	13.6	4.4
Submetering (metering beyond the main utility, revenue or supplier meter)	1.4	15.4	--
Conduct Audits to Identify Energy Saving Opportunities	10.2	13.8	24.8
Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	10.4	25.5	25.0
Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	9.3	43.3	24.4
Measure Oxygen and Carbon Dioxide Levels (f)	10.1	17.9	20.2
Use Flue Gas to Preheat Other Equipment or Processes (g)	8.4	42.1	27.7
Process Heating Maintenance Program that Includes the Following:			
Furnace Inspections (h)	15.8	12.2	28.1
Cleaning of Heat Transfer Equipment (i)	15.9	12.3	28.5
Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	18.4	11.3	27.5
Keep an Inventory of All Motors	11.4	15.3	19.7

	Detect and Control Compressed Air Leaks (l)	12.7	12.6	21.1
	Track the Amount of Energy Spent in Compressed Air Systems	9.8	24.8	23.1
<b>336411</b>	<b>Aircraft</b>			
	Person(s) Responsible for Energy Management (c)	18.3	25.2	45.0
	Aware of ISO 50001	12.9	29.3	--
	Implementing ISO 50001	30.6	35.4	--
	Energy Efficiency a part of Purchasing Decision	54.6	10.0	31.5
	Energy Use Baseline for Comparing Energy Use in Future Years	15.5	21.0	47.6
	Set Goals for Improving Energy Consumption	22.4	22.5	34.8
	Quantitative Goals	31.1	22.3	6.8
	Submetering (metering beyond the main utility, revenue or supplier meter)	1.0	19.1	--
	Conduct Audits to Identify Energy Saving Opportunities	18.8	24.8	34.8
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	18.2	61.1	38.7
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	17.9	79.7	38.4
	Measure Oxygen and Carbon Dioxide Levels (f)	19.1	24.2	29.2
	Use Flue Gas to Preheat Other Equipment or Processes (g)	14.7	19.1	45.2
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	28.8	21.7	42.6
	Cleaning of Heat Transfer Equipment (i)	27.3	22.4	44.2
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	30.8	21.2	42.2
	Keep an Inventory of All Motors	19.2	21.1	26.5
	Detect and Control Compressed Air Leaks (l)	21.2	24.7	28.1
	Track the Amount of Energy Spent in Compressed Air Systems	18.3	28.4	32.5
<b>337</b>	<b>Furniture and Related Products</b>			
	Person(s) Responsible for Energy Management (c)	5.1	28.0	18.9
	Aware of ISO 50001	3.9	24.8	--
	Implementing ISO 50001	25.5	75.1	--
	Energy Efficiency a part of Purchasing Decision	13.0	6.6	48.6
	Energy Use Baseline for Comparing Energy Use in Future Years	7.6	24.0	12.6
	Set Goals for Improving Energy Consumption	7.5	26.1	12.7
	Quantitative Goals	61.6	32.9	2.5
	Submetering (metering beyond the main utility, revenue or supplier meter)	2.6	38.3	--
	Conduct Audits to Identify Energy Saving Opportunities	5.2	30.9	17.7
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.4	26.0	15.5
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.1	35.2	14.5
	Measure Oxygen and Carbon Dioxide Levels (f)	6.2	36.6	13.6
	Use Flue Gas to Preheat Other Equipment or Processes (g)	5.1	57.5	15.9
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	10.8	13.9	13.2
	Cleaning of Heat Transfer Equipment (i)	11.2	14.4	12.2
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	10.7	15.6	11.9
	Keep an Inventory of All Motors	8.2	17.6	14.2
	Detect and Control Compressed Air Leaks (l)	8.6	16.0	14.8
	Track the Amount of Energy Spent in Compressed Air Systems	4.5	53.9	18.0
<b>339</b>	<b>Miscellaneous</b>			
	Person(s) Responsible for Energy Management (c)	5.2	17.7	18.3
	Aware of ISO 50001	5.5	13.3	--
	Implementing ISO 50001	14.0	43.2	--
	Energy Efficiency a part of Purchasing Decision	16.9	4.4	32.9
	Energy Use Baseline for Comparing Energy Use in Future Years	6.8	16.5	13.5
	Set Goals for Improving Energy Consumption	7.3	14.7	13.9
	Quantitative Goals	27.4	24.7	3.4
	Submetering (metering beyond the main utility, revenue or supplier meter)	2.3	35.7	--
	Conduct Audits to Identify Energy Saving Opportunities	4.5	27.6	16.3
	Procedures to Reduce Electricity Consumption in Times of Critical Grid Conditions	6.1	23.3	12.8
	Automation Controls to Reduce Electricity Consumption in Times of Critical Grid Conditions	5.4	27.9	13.7
	Measure Oxygen and Carbon Dioxide Levels (f)	5.6	34.5	12.2
	Use Flue Gas to Preheat Other Equipment or Processes (g)	4.6	42.6	14.3
	Process Heating Maintenance Program that Includes the Following:			
	Furnace Inspections (h)	10.3	11.0	12.2
	Cleaning of Heat Transfer Equipment (i)	10.7	11.7	11.0
	Inspecting, Calibrating, and Adjusting Process Heating Equipment (j)	11.3	11.0	11.1
	Keep an Inventory of All Motors	7.5	15.0	13.4
	Detect and Control Compressed Air Leaks (l)	8.4	13.4	12.6
	Track the Amount of Energy Spent in Compressed Air Systems	4.7	47.8	13.9

(a) The Bureau of the Census classifies establishments using the 2017 North American Industry Classification System (NAICS).

(b) This count includes only those establishments that reported this activity in 2018.

(c) A *Full-Time Energy Manager* is a person whose major function is to direct or plan energy strategies relating to energy use and energy-efficient technology within the establishment.

(d) The amount of steam used is the amount needed to produce a unit of product.

(e) The insulation inspections are to monitor and maintain the condition of the steam system insulation.

(f) Tuning the burners requires the measuring of oxygen and carbon dioxide levels in boilers and other fuel-fired heating equipment flue gases.

- (f) *Tuning* the burners requires the measuring of oxygen and carbon dioxide levels in boilers and other fuel fired heating equipment flue gases.
- (g) The use of flue gases from fuel fired heating equipment to preheat combustion air, preheat charge equipment/materials, or provide heat for other processes.
- (h) Furnace inspections are necessary to seal openings and repair cracks and damaged insulation in furnace walls, doors, etc.
- (i) The cleaning of heat transfer surfaces avoids buildup of soot, scale, or other material.
- (j) Process heating equipment includes, but is not limited to, temperature and pressure sensors, controllers, valve operators, etc.
- (k) A plant-wide study conducted to identify the major energy consuming pump systems.
- (l) The staff or equipment dedicated to detecting and controlling compressed air system leaks.

\* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

X=Not defined because RSE corresponds to a data table value of zero.

NA=Not available.

-- Estimation is not applicable.

Notes: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey.

*The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).*