

State statistic service of Ukraine

Energy supply and use

2016

, 3, . , 01601,
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FOREWORD

The Bulletin "Energy supply and use" based on annual data of state statistics form 11-mtp (annual) "Energy supply and use".

It contains statistical data on capacity of energy generating enterprises (power generation equipment), release and use production of electricity and heat by enterprises and entities in 2016.

The information presented for Ukraine in total, its regions, types of power plants and economic activities.

Information in the bulletin compiled excluding the temporarily occupied territories of the Autonomous Republic of Crimea, the city of Sevastopol and a part of the anti-terrorist operation zone; data could be revised.

In the chapter of electricity and heat use by economic activities information given without data on own use of generating enterprises (equipment).

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2016 /

Setted Capacity of power plants and release of electricity, by type of power plants in 2016

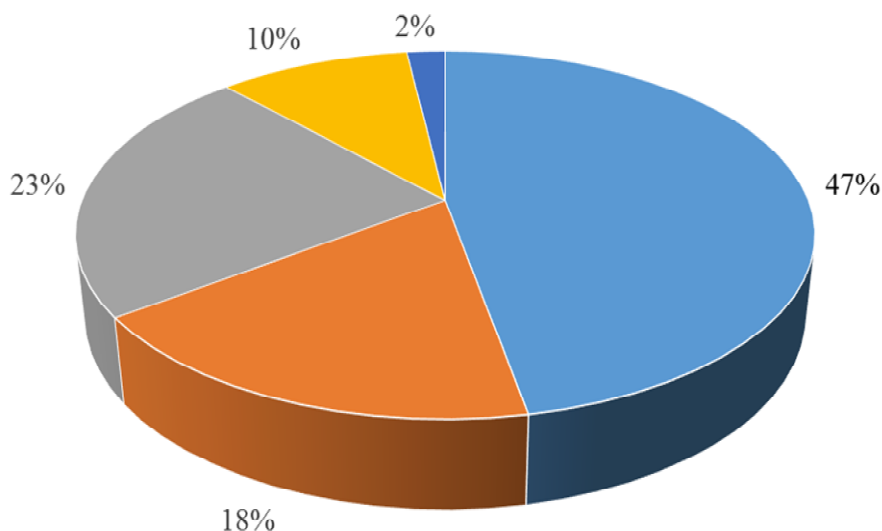
<i>Types of generating enterprises</i>	<i>Power plants capacity, thsd.kW</i>	<i>Electricity output, mln.kWch</i>
/ Total	59176	147777
<i>/ including</i>		
<i>/ heat power plants</i>	27489	50215
<i>/ combined heat and power plants</i>	10569	11078
<i>/ nuclear power plants</i>	13835	75931
<i>/ hydro power plants</i>	6167	9004
<i>/ other power plants</i>	1115	1549
<i>/ of which</i>		
<i>/ wind power plants</i>	387	949
<i>/ solar power plants</i>	324	408

2016 /

Setted capacity of heat producers and release of heat, by type of power plants in 2016

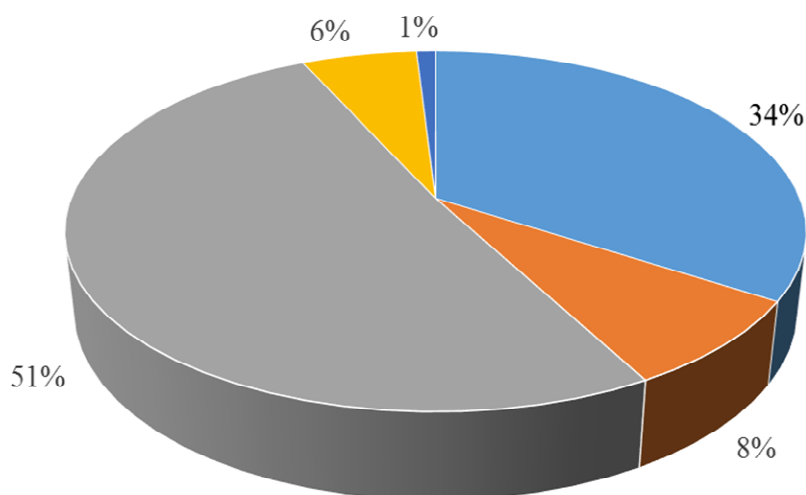
<i>Types of generating enterprises</i>	<i>Power plants capacity, Gcal/h</i>	<i>Output heat, thsnd.Gcal</i>
Total	277580	98956
<i>/ including</i>		
<i>/ heat power plants</i>	5130	1699
<i>/ combined heat and power plants</i>	32331	29879
<i>/ nuclear power plants</i>	2596	1514
<i>() / heat plants</i>	229367	60194
<i>/ utilization units</i>	6404	4583
<i>/ other units</i>	1752	1087

Установлена електрична потужність на кінець 2016 року /
Setted capacity for the end of 2016



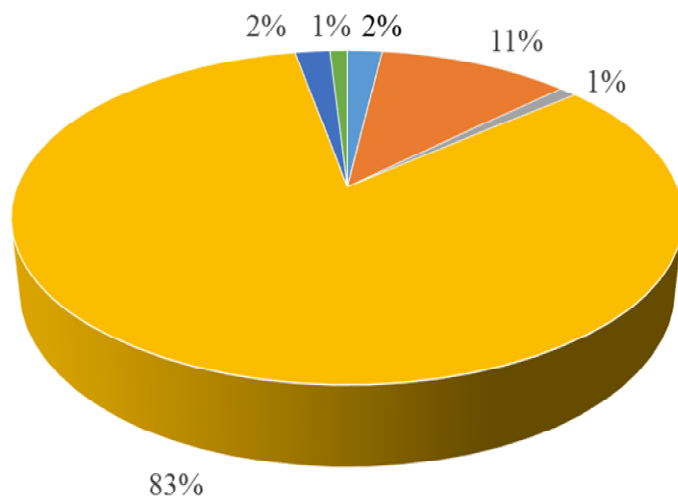
- Теплові електростанції / Heat power plants
- Теплоелектроцентраль / Combined heat and power plants
- Атомні електростанції / Nuclear power plants
- Гідроелектростанції / Hydro power plants
- Інші електростанції / Other power plants

Відпуск електроенергії за 2016 рік /
Release of electricity in 2016



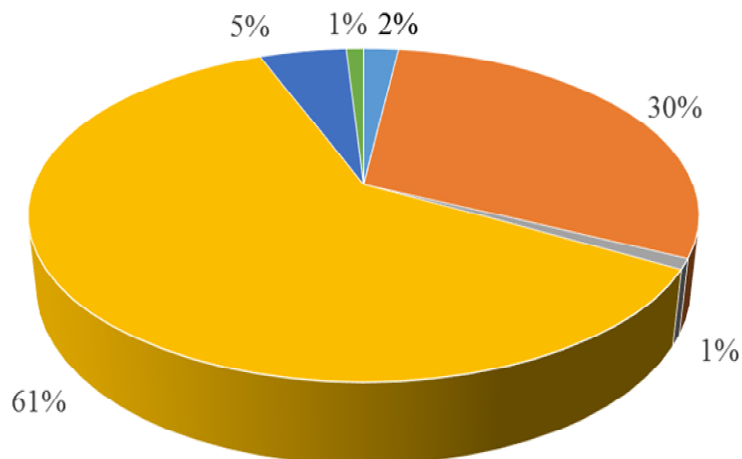
- Теплові електростанції / Heat power plants
- Теплоелектроцентраль / Combined heat and power plants
- Атомні електростанції / Nuclear power plants
- Гідроелектростанції / Hydro power plants
- Інші електростанції / Other power plants

Установлена теплова потужність на кінець 2016 року /
Setted capacity for the end of 2016



- Теплові електростанції / Heat power plants
- Теплоелектроцентрально / Combined heat and power plants
- Атомні електростанції / Nuclear power plants
- Теплоцентралі (котельні) / Heat plants
- Утилізаційні установки / Utilization units
- Інші установки / Other units

Відпуск теплоенергії за 2016 року /
Release of heat in 2016



- Теплові електростанції / Heat power plants
- Теплоелектроцентрально / Combined heat and power plants
- Атомні електростанції / Nuclear power plants
- Теплоцентралі (котельні) / Heat plants
- Утилізаційні установки / Utilization units
- Інші установки / Other units

2016 /
apacity of power plants and release of electricity, by region in 2016

<i>/ Regions</i>	<i>Power plants capacity, thsd.kW</i>	<i>Electricity release, mln.kW·h</i>
	59176	147777
	1922	3896
	26	62
	5627	8125
	8751	17899
	38	21
	26	34
	11491	37355
-	2625	7967
	2724	3924
	690	1136
	2276	3315
	699	2773
	3688	16976
	5278	326
	413	718
	2881	16164
	206	301
	56	42
	3065	3709
	463	1234
	2077	14358
	720	1461
	1741	1753
	224	840
.	1469	3386

2016 /
Heat capacity of power plants and release of heat, by region in 2016

<i>/ Regions</i>	<i>Heat capacity, Gcal/h</i>	<i>Heat output, thsnd. Gcal</i>
	277580	98956
	2939	2980
	1567	1523
	20589	11876
	155264	8239
	2361	1985
	186	453
	6865	5119
-	9793	1501
	5226	4040
	2853	1617
	4454	2485
	8124	4094
	7322	4124
	3717	3672
	5037	4796
	2854	2292
	3628	2752
	1543	1169
	10237	9758
	1310	1143
	2685	2265
	4392	3662
	1225	548
	1942	2018
.	11467	14842

2016 /

Setted capacity and electricity release of power plants, by region in 2016

<i>/ Regions</i>	<i>Selected electricity capacity, kW</i>	<i>Selected heat capacity, Gkal / h</i>	<i>Electricity release thsnd.kWh</i>	<i>Heat release, Gkal</i>
	38058424	37461	61292231	31578097
	1845125	978	3783761	795896
	26304	165	62190	162659
	5182305	7874	7226874	3866631
	8751210	3777	17899494	2557479
	15062	105	12596	107749
	-	-	-	-
	3721500	1508	4975698	623481
-	2590616	989	7956104	225268
	2025900	1202	3247673	1123946
	38474	457	49489	462009
	2263028	2256	3292720	795450
	670483	1429	2740146	1516294
	291719	998	190995	2628129
	5068000	325	57770	405566
	353266	2073	688480	2013388
	6000	164	6280	96231
	199750	1446	297692	1116943
	37130	202	28254	190707
	2992230	3871	3697835	3358619
	80000	350	70648	307269
	63730	448	77744	418069
	241592	1365	785006	638762
	20000	190	-	-
	215000	447	839741	610667
.	1360000	4842	3305041	7556885

() 2016 /
Installed capacity of main producers and autoproducers, by their type in 2016

<i>Tipes of generating enterprises</i> /	<i>Installed capacity of main activity producers</i> /	<i>Installed capacity of autoproducers</i> /
<i>/ Total</i>	50755623	8420174
<i>/ including</i>		
<i>, power plant, combined heat and power plants</i>	30013080	8045344
<i>/ nuclear power plants</i>	13835000	-
<i>/ hydro power plants</i>	6166890	328
<i>/ other power plants</i>	740653	374502

2016 / Electricity use in 2016

(. æ) / thsd.kWch

/ Regions	/ Total electricity use	/ including				/ electricity losses in grid system
		() / Production of goods (works)	() / own use of energy generation enterprises (units)	/ electricity used for pumped hydro	/ electricity used for cooling	
	88815990	63353838	12684499	526556	422684	10026184
	1754099	877898	389970	-	10979	450466
	756842	574227	10380	-	-	223073
	23489432	21195479	1079755	-	55418	81660
	10381670	7966916	2038664	-	24451	182356
	1221955	1088603	7969	-	14072	378496
	529074	511328	446	-	-	384744
	8525362	5409871	2336533	-	23078	782406
	1934898	766163	883774	-	3736	326977
	3081621	1752916	408367	238823	14088	1100035
	2254939	1248492	19139	-	24223	273845
	2778822	2083206	466720	-	691	22470
	2529817	1372969	303986	-	20812	618549
	3170112	1152418	1213684	286051	26056	8803
	3025068	2888398	48067	-	3342	1045575
	4010496	3558115	123285	-	16487	473599
	2550893	856535	1493859	-	2235	9164
	1281842	989602	68831	-	10305	244848
	456317	376744	2353	-	5537	254561
	4016886	2603987	459179	-	28438	865960
	976506	680009	40330	-	12195	429074
	1834182	734866	721697	-	35	395170
	2023109	1406326	244254	-	96443	433284
	389630	215318	40851	1682	293	293142
	889001	501811	118247	-	7079	39781
	4953417	2541641	164159	-	22691	708146

2016 / Heat use in 2016

() / Gcal

/ Regions	- / Total heat use	/ including		/ Heat losses in the networks
		() / production of goods (works)	() / own use of energy generating (enterprises units)	
	59876529	35739286	9793620	10169843
	2027933	1349145	55938	224312
	842867	473618	14805	93348
	12458079	6215552	5019666	520580
	5808736	3160447	1815662	817785
	1263904	805307	26009	90045
	447029	418394	2606	3300
	2906193	1738703	376946	615973
-	992932	513291	21064	128627
	3076255	1906189	473276	224248
	1127730	590090	108725	97548
	2193861	1680291	291437	238969
	1973778	1500155	151692	557516
	3288767	2732830	128939	175734
	2055898	1695172	109104	371265
	2829913	2260044	7383	373693
	2399824	1333417	584803	134979
	1265507	705619	87743	420286
	799954	524525	60893	4003
	3210904	1651602	177208	1176615
	598584	268248	24938	169343
	1274627	603995	86484	215194
	2706411	2087352	57246	478270
	327927	106700	19457	35908
	899337	313816	34075	283418
.	3099579	1104784	57521	2718884

2016 / Electricity use in 2016

. æ / thsd.kW ch						
		/ including				
<i>Economic activities</i>	<i>Total electricity use</i>	<i>(Production of goods (works))</i>	<i>(own use of energy generation enterprises (units))</i>	<i>electricity used for pumped hydro</i>	<i>electricity used for cooling</i>	<i>electricity losses in grid system</i>
	88815990	63353838	12684499	526556	422684	10026184
	2384181	2129353	19480	-	22098	5516
	68426285	52579140	12616042	526556	360282	9866453
ø	12617639	12453772	14455	-	-	11664
ø	2497296	2455835	8207	-	-	3941
	303963	268839	1260	-	-	621
	230156	207917	3852	-	-	174
	9074952	9034293	-	-	-	1238
ø	492413	475855	1136	-	-	5588
	37684897	35150014	751403	-	360282	161374
	3397370	3037614	43618	-	161074	3963
	410332	329155	9385	-	38108	514
	84177	70602	4	-	-	-
	157692	139419	124	-	-	504
	129437	111823	9	-	-	59

()						
		/ including				
		-	-	-	-	-
	-					-
	-					-
<i>Economic activities</i>	/	() /	() /	, /	- /	- /
	<i>Total</i>	<i>Production of</i>	<i>own use of</i>	<i>electricity</i>	<i>electricity</i>	<i>electricity</i>
	<i>electricity</i>	<i>goods</i>	<i>energy</i>	<i>used for</i>	<i>used for</i>	<i>losses in</i>
	<i>use</i>	<i>(works)</i>	<i>generation</i>	<i>pumped</i>	<i>cooling</i>	<i>grid system</i>
			<i>(units)</i>	<i>hydro</i>		

, 66342 54686 123 - - 73

,
;

590042 556770 149 - - 1048

838282 775559 32429 - - 3639

,

122233 102377 10 - - 51

2263122 2067515 66801 - 9930 7496

2522829 2289968 57490 - 86802 24096

158083 99404 71 - 7243 72

669001 544238 182 - 2380 25

2340902 2223790 7469 - 6238 2912

()						
		/ including				
	-		-	-	-	-
	-					-
<i>Economic activities</i>	/	() /	() /	, /	- /	- /
	<i>Total electricity use</i>	<i>Production of goods (works)</i>	<i>own use of energy generation enterprises (units)</i>	<i>electricity used for pumped hydro</i>	<i>electricity used for cooling</i>	<i>electricity losses in grid system</i>
	19840811	19048676	506361	-	44898	107146
,	614013	541969	330	-	2962	467
∅ ,	113705	83710	3958	-	213	662
	466745	418647	563	-	52	251
, . . .	1502298	1403429	3691	-	161	7651
,	192172	173798	166	-	-	42
	607164	539891	17723	-	221	245
	181750	161524	633	-	-	145
,	15290704	2254044	11847152	526556	-	9690685
,	14621313	1534874	11847152	526556	-	8982539
,	13793450	1145909	11521103	526556	-	9683776

()						
		/ including				
				-	-	-
			-			
	-					
	-					
<i>Economic activities</i>	/	((,	-	-
	/) /) /	/	/	/
	<i>Total</i>	<i>Production of</i>	<i>own use of</i>	<i>electricity</i>	<i>electricity</i>	<i>electricity</i>
	<i>electricity</i>	<i>goods</i>	<i>energy</i>	<i>used for</i>	<i>used for</i>	<i>losses in</i>
	<i>use</i>	<i>(works)</i>	<i>generation</i>	<i>pumped</i>	<i>cooling</i>	<i>grid system</i>
			<i>(units)</i>	<i>hydro</i>		

;

()	45275	28238	56	-	-	35
,						
	1451979	1079897	325993	-	-	6874
;						
,	2833045	2721310	3032	-	-	2730
	472673	311317	294	-	119	120392
;						
	1688028	526037	1614	-	15244	412
,						
,						
、	6581909	5061297	28830	-	4901	27664
	9982084	3465864	18239	-	20040	713893

2016 / Heat use in 2016

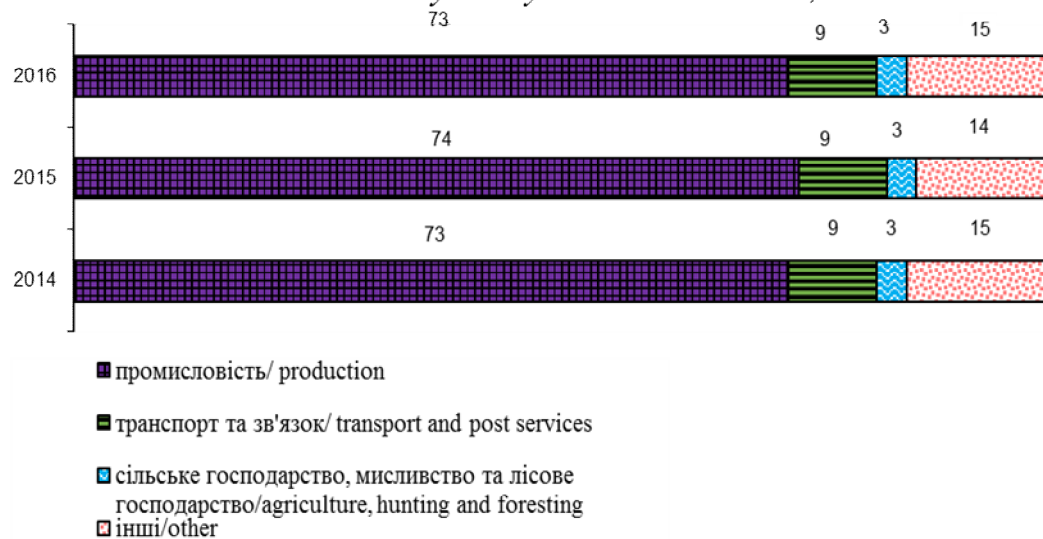
/ Gcal

		/ including		
		-	-	-
	-	-	-	-
/ Economic	-	((-
activities	/)/	/ own use of	/
	<i>Total heat</i>	<i>production</i>	<i>energy</i>	<i>Heat losses</i>
	<i>use</i>	<i>of goods</i>	<i>generating</i>	<i>in the</i>
		<i>(works)</i>	<i>(enterprises</i>	<i>networks</i>
		<i>units)</i>		
	59876529	35739286	9793620	10169843
	,			
	2460594	2256200	21818	1125
	41955065	30139435	9738101	7795536
ø	2439791	2232073	80548	12292
ø	1028966	932878	59177	9612
	156515	100404	10916	2468
	303209	287282	600	-
	689070	668801	1923	-
ø	241858	228294	7932	-
	35707646	26303060	7877125	874547
	6778150	6379728	209176	13567
	525749	457556	6280	1054
	56780	44941	-	-
	86070	79569	-	2
	54449	42244	-	5
,				
	40516	36448	-	38
,				
;				
	917390	861397	5654	282

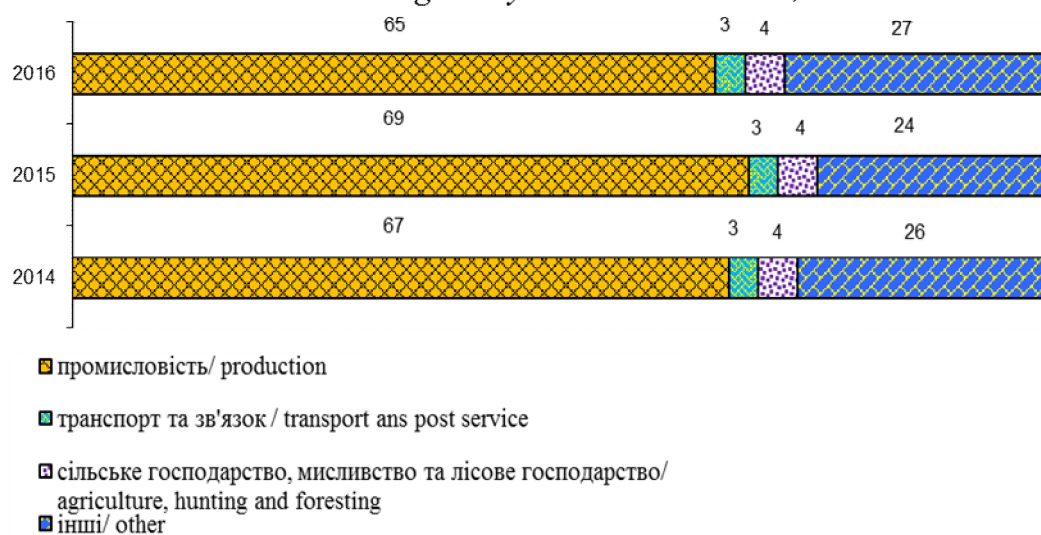
()				
activities / Economic	Total heat use	/ including		Heat losses in the networks
		() / production of goods (works)	() / own use of energy generating (enterprises units)	
	1232632	1166722	41481	3314
,	27432	12232	216	-
	3790249	3186942	546767	7450
	5268856	4538419	544909	251768
	174302	122208	3	-
	228444	190085	173	10
	671451	575394	5919	618
	14243572	7300108	6479149	530860
,	188243	112434	180	576
∅ ,	60402	44084	310	-
	209969	162543	17661	376
, . . .	489662	423927	8811	60192
,	57580	51079	90	-
	418542	356400	10089	4435
	63950	55485	-	-

()				
activities / Economic	Total heat use	/ including		Heat losses in the networks
		production of goods (works)	/ own use of energy generating (enterprises units)	
	-	-	-	-
	-	((-
	/)/	/ own use of	/
		energy	generating	
		(works)	(enterprises	
		units)		
,	3267762	1174613	1778523	6804704
,	3267762	1174613	1778523	6804704
,	1388149	115953	1104334	1725910
;				
()	111863	63028	-	337
,	1767750	995632	674189	5078457
;				
,	539866	429689	1905	103993
	199367	106825	351	674
;				
	301558	118547	1269	118
,				
ø	1441483	1023128	2623	860
	13518462	2095151	29458	2371530

Розподіл використання електроенергії
за видами економічної діяльності, у %
Electricity use by economic activities, %



Розподіл використання теплоенергії
за видами економічної діяльності, у %
Heating use by economic activities, %



Names of regions in English

/ Ukraine

/ Vinnytsya

/ Volyn

/ Dnipropetrovsk

/ Donetsk

/ Zhytomyr

/ Zakarpattia

/ Zaporizhzhya

- / Ivano-Frankivsk

/ Kyiv

/ Kirovohrad

/ Luhansk

/ Lviv

/ Mykolayiv

/ Odesa

/ Poltava

/ Rivne

/ Sumy

/ Ternopil

/ Kharkiv

/ Kherson

/ Khmelnytskyi

/ Cherkasy

/ Chernivtsi

/ Chernihiv

/ Kyiv city

Types of economic activities in English

Agriculture, forestry and fishing

Industry

Mining and Quarrying

Mining of coal and lignite

Extraction of crude petroleum and natural gas

Mining of metal ores

Other mining and quarrying

Manufacturing

Manufacture of food

Manufacture of beverages

Manufacture of tobacco products

Manufacture of textiles

Manufacture of wearing apparel

Manufacture of leather and related products

Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials

Manufacture of paper and paper products

Printing and reproduction of recorded media

Manufacture of coke and refined petroleum products

Manufacture of chemicals and chemical products

Manufacture of basic pharmaceutical products and pharmaceutical preparations

Manufacture of rubber and plastic products

Manufacture of other non-metallic mineral products

Metallurgical industry

Manufacture of fabricated metal products, except machinery and equipment

Manufacture of computer, electronic and optical products

Manufacture of electrical equipment

Manufacture of machinery and equipment n.e.c.

, /
Manufacture of motor vehicles, trailers and semitrailers
 /
Manufacture of other transport equipment
 /
Manufacture of furniture
 /
Other manufacturing
 /
Repair and installation of machinery and equipment
 , , /
Electricity, gas, steam and air conditioning supply
 ; , /
Water supply; sewerage, waste management and remediation activities
 /
Building
 ; /
Wholesale and retail trade and repair of motor vehicles and motorcycles
 /
Food and beverage service activities
 , , , ø /
Transportation and storage
 /
Other types of economic activity

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