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ANNEX 1

**ANNEX**

*to the*

**Commission Decision**

**on determining, pursuant to Directive 2003/87/EC of the European Parliament and of the Council, a list of sectors and subsectors which are deemed to be exposed to a significant risk of carbon leakage for the period 2015 to 2019**

## ANNEX

**Sectors and subsectors which, pursuant to Article 10a(13) of Directive 2003/87/EC, are deemed to be exposed to a significant risk of carbon leakage**

**1. Based on the criteria set out in Article 10a(15) and (16) of Directive 2003/87/EC**

**1.1. At the NACE-4 level**

<b>NACE Code</b>	<b>Description</b>	<b>Criteria met</b>
0510	Mining of hard coal	C
0610	Extraction of crude petroleum	C
0620	Extraction of natural gas	C
0710	Mining of iron ores	C
0729	Mining of other non-ferrous metal ores	C
0891	Mining of chemical and fertiliser minerals	C
0893	Extraction of salt	A
0899	Other mining and quarrying n.e.c.	A, C
1020	Processing and preserving of fish, crustaceans and molluscs	C
1041	Manufacture of oils and fats	C
1062	Manufacture of starches and starch products	A
1081	Manufacture of sugar	A
1086	Manufacture of homogenised food preparations and dietetic food	C
1101	Distilling, rectifying and blending of spirits	C
1102	Manufacture of wine from grape	C
1104	Manufacture of other non-distilled fermented beverages	A
1310	Preparation and spinning of textile fibres	C
1320	Weaving of textiles	C
1391	Manufacture of knitted and crocheted fabrics	C
1392	Manufacture of made-up textile articles, except apparel	C
1393	Manufacture of carpets and rugs	C
1394	Manufacture of cordage, rope, twine and netting	C
1395	Manufacture of non-wovens and articles made from non-wovens, except apparel	C
1396	Manufacture of other technical and industrial textiles	C
1399	Manufacture of other textiles n.e.c.	C
1411	Manufacture of leather clothes	C
1412	Manufacture of workwear	C

<b>NACE Code</b>	<b>Description</b>	<b>Criteria met</b>
1413	Manufacture of other outerwear	C
1414	Manufacture of underwear	C
1419	Manufacture of other wearing apparel and accessories	C
1420	Manufacture of articles of fur	C
1431	Manufacture of knitted and crocheted hosiery	C
1439	Manufacture of other knitted and crocheted apparel	C
1511	Tanning and dressing of leather; dressing and dyeing of fur	C
1512	Manufacture of luggage, handbags and the like, saddlery and harness	C
1520	Manufacture of footwear	C
1622	Manufacture of assembled parquet floors	C
1629	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials	C
1711	Manufacture of pulp	A, C
1712	Manufacture of paper and paperboard	A
1724	Manufacture of wallpaper	C
1910	Manufacture of coke oven products	A, C
1920	Manufacture of refined petroleum products	A
2012	Manufacture of dyes and pigments	C
2013	Manufacture of other inorganic basic chemicals	A, C
2014	Manufacture of other organic basic chemicals	A, C
2015	Manufacture of fertilisers and nitrogen compounds	A, B
2016	Manufacture of plastics in primary forms	C
2017	Manufacture of synthetic rubber in primary forms	C
2020	Manufacture of pesticides and other agrochemical products	C
2042	Manufacture of perfumes and toilet preparations	C
2053	Manufacture of essential oils	C
2059	Manufacture of other chemical products n.e.c.	C
2060	Manufacture of man-made fibres	C
2110	Manufacture of basic pharmaceutical products	C
2120	Manufacture of pharmaceutical preparations	C
2211	Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres	C
2219	Manufacture of other rubber products	C
2311	Manufacture of flat glass	A
2313	Manufacture of hollow glass	A

<b>NACE Code</b>	<b>Description</b>	<b>Criteria met</b>
2314	Manufacture of glass fibres	A / C <sup>1</sup>
2319	Manufacture and processing of other glass, including technical glassware	C
2320	Manufacture of refractory products	C
2331	Manufacture of ceramic tiles and flags	A, C
2341	Manufacture of ceramic household and ornamental articles	C
2342	Manufacture of ceramic sanitary fixtures	C
2343	Manufacture of ceramic insulators and insulating fittings	C
2344	Manufacture of other technical ceramic products	C
2349	Manufacture of other ceramic products	C
2351	Manufacture of cement	B
2352	Manufacture of lime and plaster	B
2370	Cutting, shaping and finishing of stone	C
2391	Production of abrasive products	C
2410	Manufacture of basic iron and steel and of ferro-alloys	A
2420	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel	C
2431	Cold drawing of bars	C
2441	Precious metals production	C
2442	Aluminium production	A, C
2443	Lead, zinc and tin production	A
2444	Copper production	C
2445	Other non-ferrous metal production	C
2446	Processing of nuclear fuel	A, C
2540	Manufacture of weapons and ammunition	C
2571	Manufacture of cutlery	C
2572	Manufacture of locks and hinges	C
2573	Manufacture of tools	C
2594	Manufacture of fasteners and screw machine products	C
2599	Manufacture of other fabricated metal products n.e.c.	C

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<sup>1</sup> The sector ‘Manufacture of glass fibres’ is described by two CPA codes: ‘231411 Slivers, rovings, yarn and chopped strands, of glass fibre’ and ‘231412 Voiles, webs, mats, mattresses, boards and other articles of glass fibres, except woven fabrics’. Assessed at the NACE-4 level, the sector does not meet the criteria set out in Article 10a(15) and (16) of Directive 2003/87/EC. However, subsector 231411 meets the criterion set out in Article 10a(16)(b), and subsector 231412 meets the criterion set out in Article 10a(15). As the two CPA codes cover the entire sector ‘Manufacture of glass fibres’, the sector is added to the list at NACE-4 level for ease of reference.

<b>NACE Code</b>	<b>Description</b>	<b>Criteria met</b>
2611	Manufacture of electronic components	C
2612	Manufacture of loaded electronic boards	C
2620	Manufacture of computers and peripheral equipment	C
2630	Manufacture of communication equipment	C
2640	Manufacture of consumer electronics	C
2651	Manufacture of instruments and appliances for measuring, testing and navigation	C
2652	Manufacture of watches and clocks	C
2660	Manufacture of irradiation, electromedical and electrotherapeutic equipment	C
2670	Manufacture of optical instruments and photographic equipment	C
2680	Manufacture of magnetic and optical media	C
2711	Manufacture of electric motors, generators and transformers	C
2712	Manufacture of electricity distribution and control apparatus	C
2720	Manufacture of batteries and accumulators	C
2731	Manufacture of fibre optic cables	C
2732	Manufacture of other electronic and electric wires and cables	C
2733	Manufacture of wiring devices	C
2740	Manufacture of electric lighting equipment	C
2751	Manufacture of electric domestic appliances	C
2752	Manufacture of non-electric domestic appliances	C
2790	Manufacture of other electrical equipment	C
2811	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines	C
2812	Manufacture of fluid power equipment	C
2813	Manufacture of other pumps and compressors	C
2814	Manufacture of other taps and valves	C
2815	Manufacture of bearings, gears, gearing and driving elements	C
2821	Manufacture of ovens, furnaces and furnace burners	C
2822	Manufacture of lifting and handling equipment	C
2823	Manufacture of office machinery and equipment (except computers and peripheral equipment)	C
2824	Manufacture of power-driven hand tools	C
2825	Manufacture of non-domestic cooling and ventilation equipment	C
2829	Manufacture of other general-purpose machinery n.e.c.	C
2830	Manufacture of agricultural and forestry machinery	C

<b>NACE Code</b>	<b>Description</b>	<b>Criteria met</b>
2841	Manufacture of metal forming machinery	C
2849	Manufacture of other machine tools	C
2891	Manufacture of machinery for metallurgy	C
2892	Manufacture of machinery for mining, quarrying and construction	C
2893	Manufacture of machinery for food, beverage and tobacco processing	C
2894	Manufacture of machinery for textile, apparel and leather production	C
2895	Manufacture of machinery for paper and paperboard production	C
2896	Manufacture of plastic and rubber machinery	C
2899	Manufacture of other special-purpose machinery n.e.c.	C
2910	Manufacture of motor vehicles	C
2931	Manufacture of electrical and electronic equipment for motor vehicles	C
3011	Building of ships and floating structures	C
3012	Building of pleasure and sporting boats	C
3030	Manufacture of air and spacecraft and related machinery	C
3091	Manufacture of motorcycles	C
3092	Manufacture of bicycles and invalid carriages	C
3099	Manufacture of other transport equipment n.e.c.	C
3109	Manufacture of other furniture	C
3211	Striking of coins	C
3212	Manufacture of jewellery and related articles	C
3213	Manufacture of imitation jewellery and related articles	C
3220	Manufacture of musical instruments	C
3230	Manufacture of sports goods	C
3240	Manufacture of games and toys	C
3250	Manufacture of medical and dental instruments and supplies	C
3291	Manufacture of brooms and brushes	C
3299	Other manufacturing n.e.c.	C

## 1.2. At the CPA or Prodcom level

<b>CPA or Prodcom</b>	<b>Description</b>	<b>Criteria met</b>
081221	Kaolin and other kaolinic clays	C

<b>CPA or Prodcom</b>	<b>Description</b>	<b>Criteria met</b>
08122250	Common clays and shales for construction use (excluding bentonite, fireclay, expanded clays, kaolin and kaolinic clays); andalusite, kyanite and sillimanite; mullite; chamotte or dinas earths	C
10311130	Frozen potatoes, prepared or preserved (including potatoes cooked or partly cooked in oil and then frozen; excluding by vinegar or acetic acid)	A
10311300	Dried potatoes in the form of flour, meal, flakes, granules and pellets	A
10391725	Concentrated tomato puree and paste	C
105121	Skimmed milk powder	C
105122	Whole milk powder	C
105153	Casein	C
105154	Lactose and lactose syrup	C
10515530	Whey and modified whey in powder, granules or other solid forms, whether or not concentrated or containing added sweetening matter	A, C
108211	Cocoa paste, whether or not defatted	C
108212	Cocoa butter, fat and oil	C
108213	Cocoa powder, not containing added sugar or other sweetening matter	C
10891344	Bakers' yeast	C
20111150	Hydrogen	B
20111160	Nitrogen	B
20111170	Oxygen	B
203021	Prepared pigments, opacifiers and colours, vitrifiable enamels and glazes, engobes, liquid lustres and the like; glass frit	C
239914	Artificial graphite; colloidal or semi-colloidal graphite; preparations based on graphite or other carbon in the form of semi-manufactures	C
23991910	Slag wool, rock wool and similar mineral wools and mixtures thereof, in bulk, sheets or rolls	A
23991920	Exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials and mixtures thereof	A
25501134	Open die forged ferrous parts for transmission shafts, camshafts, crankshafts and cranks etc.	A, C

The criteria based on which a sector is deemed to be exposed to a significant risk of carbon leakage are the following:

- A: criterion set out in Article 10a(15) of Directive 2003/87/EC;
- B: criterion set out in Article 10a(16)(a) of Directive 2003/87/EC;
- C: criterion set out in Article 10a(16)(b) of Directive 2003/87/EC.

**2. Based on the criteria set out in Article 10a(17) of Directive 2003/87/EC**

<b>NACE Code</b>	<b>Description</b>
1106	Manufacture of malt
1330	Finishing of textiles
2332	Manufacture of bricks, tiles and construction products, in baked clay
2362	Manufacture of plaster products for construction purposes
2451	Casting of iron
2453	Casting of light metals