

## SCHEDULE

Regulation 2(a)

### CLIMATE CHANGE LEVY EXEMPTION: SUPPLY OF TAXABLE COMMODITY NOT USED AS FUEL

The uses specified below are, in relation to a taxable commodity, the only ones that are not to be taken as being uses of that commodity as fuel for the purposes of paragraph 18(1) of Schedule 6 to the Finance Act 2000.

#### A. ELECTROLYTIC PROCESSES

1. Electrolysis (electrowinning) used for the production of basic materials directly from an ore or other compound.
2. Use for the purification of materials (as distinct from electrowinning).
3. Use of electrolysis for the manufacture of advanced chemicals from other more basic chemicals.
4. Production of aluminium and copper by electrolysis.
5. The refining of tin or copper from impure metals or ingots.
6. Gold and silver electrolysis and the electrolytic dissolution of platinum group metal alloys.
7. Alkali earth metals, for example, sodium, potassium, lithium and calcium.
8. Chloralkali manufacture (chlorine, caustic soda and caustic potash).
9. Fluorine manufacture.
10. Electro-organic synthesis of fine organics and intermediates such as adiponitrile.
11. Electro-oxidation to produce hydrogen peroxide, persulphates, chlorates and peroxyorganic acids.
12. Sodium chlorate.
13. Potassium permanganate.
14. Potassium dichromate.
15. Manganese dioxide.
16. Cuprous oxide.
17. Sorbitol.
18. Fatty alcohols.

#### B. STEAM REFORMATION

19. The use of natural gas and propane used in steam reformers to produce a mixture of hydrogen and carbon monoxide in the following production processes:
  - (a) fertilisers;
  - (b) OXO (Oxonation) chemicals—detergent and plasticiser alcohols;
  - (c) phosgene;
  - (d) ammonia;
  - (e) higher alcohols, synthetic fuels, plastics precursors;

- (f) methanol, methyl tertiary butyl ether, formaldehyde, formic acid, acetic acid, methyl amines, single cell proteins.
- 20. Natural gas used as a feedstock to produce hydrogen and for hydrogenation reactions.
- 21. Natural gas used in the production of hydrogen and carbon monoxide for the reduction and subsequent purification of nickel.

### C. DUAL USE FUNCTIONS

- 22. Coal, coke and natural gas used as a chemical reductant for ironmaking, for example, in blast furnaces.
- 23. Coke breeze used in a sinter plant to assist in the agglomeration of iron ore and its subsequent chemical reduction in blast furnaces.
- 24. Coke injected into electric arc furnaces to control the chemistry of the steel and the steelmaking slag.
- 25. Coke charged to electric arc furnaces to control the oxygen activity of the steel melt.
- 26. Coke used as a carburiser in iron casting.
- 27. Gases used for vacuum reduction in metal powder production and to maintain carbon content in metal during the sintering process.
- 28. Reduction furnaces for the production of lead.
- 29. Reduction of chlorine.
- 30. Use to form reducing atmospheres, for example, in the refining and manipulation of molten copper to control oxygen levels. Also use in ASARCO (American Smelting and Refining Company) shaft furnaces, deoxidisation of copper swarf and annealing of copper and copper alloys to provide a reducing atmosphere.
- 31. Natural gas used as both a fuel and reductant in emission control systems, for example, in the reduction of oxides of nitrogen. Natural gas used in the manufacture of methacrylate monomers and polymers including that natural gas used for emission control which is an integral and essential part of the manufacturing process.
- 32. Gases used to maintain or increase the carbon content of metals during heat treatment.
- 33. Anthracite used as a reductant in the smelting of precious metals.
- 34. Coke as a source of carbon dioxide used in the Ammonia Soda process for the production of soda ash.

### D. NON HEATING USES

- 35. Use of liquefied petroleum gas as a propellant in aerosols.
- 36. Methane used as a feedstock in the production of higher paraffins and their derivatives.
- 37. Natural gas used as a feedstock in the production of acetic acid and acetic anhydride using a partial oxidation process.
- 38. Use of propylene as a feedstock in the manufacture of propan-2-ol (iso-propyl alcohol), polypropylene and cumene.
- 39. Petroleum coke used in the manufacture of carbon and graphite electrodes.

40. Natural gas used to provide carbon in the production of carbon-carbon composites.
41. Electricity used in battery formation.
42. Coke used as a resistor in electro-thermal furnaces.
43. Natural gas used in the manufacture of sodium cyanide.