

**IPC Classifications for Renewable Energy Generation Technologies**  
(Johnstone, Haščič and Popp, in *Environmental and Resource Economics*, 2009)

<b>WIND POWER</b>	
Wind motors with rotation axis substantially in wind direction	F03D1
Wind motors with rotation axis substantially at right angle to wind direction	F03D3
Other wind motors	F03D5
Controlling wind motors	F03D7
Adaptations of wind motors for special use;	F03D9
Details, component parts, or accessories not provided for in, or of interest apart from, the other groups of this subclass	F03D11
<b>SOLAR ENERGY</b>	
Use of solar heat, e.g. solar heat collectors	F24J2
Devices for producing mechanical power from solar energy	F03G6
Aspects of roofing for energy collecting devices – e.g. including solar panels	E04D13/18
Devices consisting of a plurality of semiconductor components sensitive to infra-red radiation, light, electromagnetic radiation of shorter wavelength, or corpuscular radiation – specially adapted for the conversion of the energy of such radiation into electrical energy	H01L27/142
Semiconductor devices sensitive to infra-red radiation, light, electromagnetic radiation of shorter wavelength, or corpuscular radiation – adapted as conversion devices	H01L31/04-078
Generators in which light radiation is directly converted into electrical energy	H02N6
<b>GEOTHERMAL ENERGY</b>	
Devices for producing mechanical power from geothermal energy	F03G4
Mechanical-power-producing mechanisms – using pressure differences or thermal differences occurring in nature	F03G7/04
Production or use of heat, not derived from combustion – using natural or geothermal heat	F24J3
<b>OCEAN ENERGY</b>	
Tide or wave power plants	E02B9/08
Submerged units incorporating electric generators or motors characterized by using wave or tide energy	F03B13/10-26
Mechanical-power-producing mechanisms – using ocean thermal energy conversion	F03G7/05
<b>HYDRO POWER</b>	
Water-power plants; Layout, construction or equipment, methods of, or apparatus for	E02B9 AND NOT E02B9/08
Machines or engines for liquids of reaction type	F03B3 AND NOT F03B13/10-26
Water wheels	F03B7 AND NOT F03B13/10-26
Power stations or aggregates of water-storage type; Machine or engine aggregates in dams or the like	F03B13/06-08 AND NOT F03B13/10-26
Controlling machines or engines for liquids	F03B15 AND NOT F03B13/10-26
<b>BIOMASS &amp; WASTE ENERGY</b>	
Solid fuels essentially based on materials of non-mineral origin – animal or vegetable substances; sewage, town, or house refuse; industrial residues or waste materials	C10L5/40-48
Plants or engines characterized by use of industrial or other waste gases	F01K25/14
Engines or plants operating on gaseous fuel generated from solid fuel, e.g. wood	F02B43/08
Incineration of waste - recuperation of heat	F23G5/46
Liquid carbonaceous fuels Gaseous fuels Solid fuels AND Dumping solid waste Destroying solid waste or transforming solid waste into something useful or harmless Incineration of waste; Incinerator constructions Incinerators or other apparatus specially adapted for consuming specific waste	( C10L1 OR C10L3 OR C10L5 ) AND ( B09B1 OR B09B3 OR F23G5 OR F23G7 )
Plants for converting heat or fluid energy into mechanical energy; use of waste heat Use of waste heat of combustion engines – Profiting from waste heat of combustion engines Machines, plant, or systems, using particular sources of energy – using waste heat, e.g. from internal-combustion engines AND Incineration of waste; Incinerator constructions Incinerators or other apparatus specially adapted for consuming specific waste or low grade fuels, e.g. chemicals	( F01K27 OR F02G5 OR F25B27/02 ) AND ( F23G5 OR F23G7 )