

## Funder: Government (excluding state-owned enterprises)

Millions, national currency

### 1 ENERGY EFFICIENCY

#### 11 Industry

111 Industrial techniques and processes

112 Industrial equipment and systems

113 Other industry

119 Unallocated industry

#### 12 Residential and commercial buildings, appliances and equipment

121 Building design and envelope

122 Building operations and efficient building equipment

123 Appliances and other residential/commercial

129 Unallocated residential and commercial buildings, appliances and equipment

#### 13 Transport

131 On-road vehicles

132 Off-road transport and transport systems

133 Other transport

139 Unallocated transport

#### 14 Other energy efficiency

141 Waste heat recovery and utilisation

142 Communities

143 Agriculture and forestry

144 Heat pumps and chillers

145 Other energy efficiency

149 Unallocated other energy efficiency

#### 19 Unallocated energy efficiency

### 2 FOSSIL FUELS: OIL, GAS and COAL

#### 21 Oil and gas

211 Enhanced oil and gas production

212 Refining, transport and storage of oil and gas

213 Non-conventional oil and gas production

214 Oil and gas combustion

215 Oil and gas conversion

216 Other oil and gas

219 Unallocated oil and gas

#### 22 Coal

221 coal production, preparation and transport

222 Coal combustion (incl. IGCC)

223 Coal conversion (excl. IGCC)

224 Other coal

229 Unallocated coal

#### 23 CO<sub>2</sub> capture and storage

231 CO<sub>2</sub> capture/separation

232 CO<sub>2</sub> transport

233 CO<sub>2</sub> storage

239 Unallocated CO<sub>2</sub> capture and storage

#### 29 Unallocated fossil fuels

### 3 RENEWABLE ENERGY SOURCES

#### 31 Solar energy

311 Solar heating and cooling

312 Solar photovoltaics

313 Solar thermal power and high-temp. applications

319 Unallocated solar energy

#### 32 Wind energy

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- 321 Onshore wind technologies
  - 322 Offshore wind technologies (excl. low wind speed)
  - 323 Wind energy systems and other technologies
  - 329 Unallocated wind energy

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### **33 Ocean energy**

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- 331 Tidal energy
  - 332 Wave energy
  - 333 Salinity gradient power
  - 334 Other ocean energy
  - 339 Unallocated ocean energy

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### **34 Biofuels (incl. liquid biofuels, solid biofuels and biogases)**

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- 341 Production of liquid biofuels
  - 342 Production of solid biofuels
  - 343 Production of biogases
  - 344 Applications for heat and electricity
  - 345 Other biofuels
  - 349 Unallocated biofuels

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### **35 Geothermal energy**

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- 351 Geothermal energy from hydrothermal resources
  - 352 Geothermal energy from hot dry rock (HDR) resources
  - 353 Advanced drilling and exploration
  - 354 Other geothermal energy (incl. low-temp. resources)
  - 359 Unallocated geothermal energy

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### **36 Hydroelectricity**

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- 361 Large hydroelectricity (capacity of 10 MW and above)
  - 362 Small hydroelectricity (capacity less than 10 MW)
  - 369 Unallocated hydroelectricity

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### **37 Other renewable energy sources**

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### **39 Unallocated renewable energy sources**

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## **4 NUCLEAR FISSION and FUSION**

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### **41 Nuclear fission**

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- 411 Light water reactors (LWRs)
  - 412 Other converter reactors
  - 413 Fuel cycle
  - 414 Nuclear supporting technologies
  - 415 Nuclear breeder
  - 416 Other nuclear fission
  - 419 Unallocated nuclear fission

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### **42 Nuclear fusion**

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- 421 Magnetic confinement
  - 422 Inertial confinement
  - 423 Other nuclear fusion
  - 429 Unallocated nuclear fusion

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### **49 Unallocated nuclear fission and fusion**

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## **5 HYDROGEN and FUEL CELLS**

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### **51 Hydrogen**

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- 511 Hydrogen production
  - 512 Hydrogen storage
  - 513 Hydrogen transport and distribution
  - 514 Other infrastructure and systems
  - 515 Hydrogen end-uses (incl. combustion; excl. fuel cells and vehicles)
  - 519 Unallocated hydrogen

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### **52 Fuel cells**

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- 521 Stationary applications
  - 522 Mobile applications
  - 523 Other applications

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529 Unallocated fuel cells

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**59 Unallocated hydrogen and fuel cells**

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**6 OTHER POWER and STORAGE TECHNOLOGIES (sum of rows 61 to 69)**

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**61 Electric power generation**

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611 Power generation technologies

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612 Power generation supporting technologies

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613 Other electric power generation

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619 Unallocated electric power generation

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**62 Electricity transmission and distribution**

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621 Transmission and distribution technologies

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622 Grid communication, control systems and integration

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629 Unallocated electricity transmission and distribution

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**63 Energy storage (non-transport applications)**

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631 Electrical storage

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632 Thermal energy storage

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639 Unallocated energy storage

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**69 Unallocated other power and storage technologies**

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**7 OTHER CROSS-CUTTING TECHNOLOGIES or RESEARCH**

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**71 Energy system analysis**

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**72 Basic energy research that cannot be allocated to a specific category**

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**73 Other**

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