

## 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

321 Onshore wind technologies

322 Offshore wind technologies (excl. low wind speed)

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323 Wind energy systems and other technologies

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329 Unallocated wind energy

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**33 Ocean energy**

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331 Tidal energy

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332 Wave energy

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333 Salinity gradient power

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334 Other ocean energy

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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

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342 Production of solid biofuels

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343 Production of biogases

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344 Applications for heat and electricity

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345 Other biofuels

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349 Unallocated biofuels

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**35 Geothermal energy**

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351 Geothermal energy from hydrothermal resources

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352 Geothermal energy from hot dry rock (HDR) resources

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353 Advanced drilling and exploration

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354 Other geothermal energy (incl. low-temp. resources)

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359 Unallocated geothermal energy

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**36 Hydroelectricity**

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361 Large hydroelectricity (capacity of 10 MW and above)

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362 Small hydroelectricity (capacity less than 10 MW)

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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)

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412 Other converter reactors

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413 Fuel cycle

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414 Nuclear supporting technologies

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415 Nuclear breeder

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416 Other nuclear fission

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419 Unallocated nuclear fission

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**42 Nuclear fusion**

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421 Magnetic confinement

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422 Inertial confinement

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423 Other nuclear fusion

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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

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512 Hydrogen storage

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513 Hydrogen transport and distribution

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514 Other infrastructure and systems

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515 Hydrogen end-uses (incl. combustion; excl. fuel cells and vehicles)

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519 Unallocated hydrogen

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**52 Fuel cells**

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521 Stationary applications

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522 Mobile applications

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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

612 Power generation supporting technologies

613 Other electric power generation

619 Unallocated electric power generation

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**62 Electricity transmission and distribution**

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621 Transmission and distribution technologies

622 Grid communication, control systems and integration

629 Unallocated electricity transmission and distribution

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

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631 Electrical storage

632 Thermal energy storage

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

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

73 Other

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