

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 CO₂ capture and storage

231 CO₂ capture/separation

232 CO₂ transport

233 CO₂ storage

239 Unallocated CO₂ 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)

323 Wind energy systems and other technologies

329 Unallocated wind energy

33 Ocean energy

331 Tidal energy

332 Wave energy

333 Salinity gradient power

334 Other ocean energy

339 Unallocated ocean energy

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

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

35 Geothermal energy

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

36 Hydroelectricity

361 Large hydroelectricity (capacity of 10 MW and above)

362 Small hydroelectricity (capacity less than 10 MW)

369 Unallocated hydroelectricity

37 Other renewable energy sources

39 Unallocated renewable energy sources

4 NUCLEAR FISSION and FUSION

41 Nuclear fission

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

42 Nuclear fusion

421 Magnetic confinement

422 Inertial confinement

423 Other nuclear fusion

429 Unallocated nuclear fusion

49 Unallocated nuclear fission and fusion

5 HYDROGEN and FUEL CELLS

51 Hydrogen

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

52 Fuel cells

521 Stationary applications

522 Mobile applications

523 Other applications

529 Unallocated fuel cells

59 Unallocated hydrogen and fuel cells

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

61 Electric power generation

611 Power generation technologies

612 Power generation supporting technologies

613 Other electric power generation

619 Unallocated electric power generation

62 Electricity transmission and distribution

621 Transmission and distribution technologies

622 Grid communication, control systems and integration

629 Unallocated electricity transmission and distribution

63 Energy storage (non-transport applications)

631 Electrical storage

632 Thermal energy storage

639 Unallocated energy storage

69 Unallocated other power and storage technologies

7 OTHER CROSS-CUTTING TECHNOLOGIES or RESEARCH

71 Energy system analysis

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

73 Other
