

Country Data - Spain

Energy Access

Access to Electricity 1990-2014

| Year | Electrification rate, National (%) | Electrification rate, Rural (%) | Electrification rate, Urban (%) |
|------|---------------------------------------|------------------------------------|------------------------------------|
| 1990 | 100 | 100 | 100 |
| 1991 | 100 | 100 | 100 |
| 1992 | 100 | 100 | 100 |
| 1993 | 100 | 100 | 100 |
| 1994 | 100 | 100 | 100 |
| 1995 | 100 | 100 | 100 |
| 1996 | 100 | 100 | 100 |
| 1997 | 100 | 100 | 100 |
| 1998 | 100 | 100 | 100 |
| 1999 | 100 | 100 | 100 |
| 2000 | 100 | 100 | 100 |
| 2001 | 100 | 100 | 100 |
| 2002 | 100 | 100 | 100 |
| 2003 | 100 | 100 | 100 |
| 2004 | 100 | 100 | 100 |
| 2005 | 100 | 100 | 100 |
| 2006 | 100 | 100 | 100 |
| 2007 | 100 | 100 | 100 |
| 2008 | 100 | 100 | 100 |
| 2009 | 100 | 100 | 100 |
| 2010 | 100 | 100 | 100 |
| 2011 | 100 | 100 | 100 |



| 2012 | 100 | 100 | 100 |
|------|-----|-----|-----|
| 2013 | 100 | 100 | 100 |
| 2014 | 100 | 100 | 100 |

Access to Clean Cooking Fuel and Technologies 2000-2014

| Year | Access to clean fuels and technologies for cooking (%) |
|------|--|
| 2000 | 100 |
| 2001 | 100 |
| 2002 | 100 |
| 2003 | 100 |
| 2004 | 100 |
| 2005 | 100 |
| 2006 | 100 |
| 2007 | 100 |
| 2008 | 100 |
| 2009 | 100 |
| 2010 | 100 |
| 2011 | 100 |
| 2012 | 100 |
| 2013 | 100 |
| 2014 | 100 |

Energy Efficiency

Energy Intensity 1990-2014

| Year | National Energy Intensity | Compound annual growth |
|------|---------------------------|------------------------|
|------|---------------------------|------------------------|

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| | (MJ/USD PPP 2011) | rate of national energy intensity (%) |
|------|-------------------|---------------------------------------|
| 1990 | 4.03 | 0 |
| 1991 | 4.07 | 1.15 |
| 1992 | 4.11 | 0.92 |
| 1993 | 3.98 | -3.09 |
| 1994 | 4.11 | 3.09 |
| 1995 | 4.18 | 1.8 |
| 1996 | 4.01 | -4.04 |
| 1997 | 4.11 | 2.5 |
| 1998 | 4.14 | 0.71 |
| 1999 | 4.15 | 0.34 |
| 2000 | 4.14 | -0.43 |
| 2001 | 4.08 | -1.34 |
| 2002 | 4.09 | 0.1 |
| 2003 | 4.1 | 0.25 |
| 2004 | 4.14 | 1.16 |
| 2005 | 4.08 | -1.56 |
| 2006 | 3.91 | -4.09 |
| 2007 | 3.82 | -2.26 |
| 2008 | 3.66 | -4.37 |
| 2009 | 3.49 | -4.66 |
| 2010 | 3.48 | -0.09 |
| 2011 | 3.46 | -0.6 |
| 2012 | 3.55 | 2.52 |
| 2013 | 3.37 | -5.1 |
| 2014 | 3.25 | -3.5 |

Sectors 1990-2014



| Year | Industry (MJ/USD PPP 2011) | Agriculture (MJ/USD PPP 2011) | Residential (GJ/Population) | Services (MJ/USD PPP 2011) |
|------|----------------------------------|-------------------------------------|--------------------------------|----------------------------------|
| 1990 | 0 | 0 | 9.86 | 0.36 |
| 1991 | 0 | 0 | 10.39 | 0.37 |
| 1992 | 0 | 0 | 10.44 | 0.37 |
| 1993 | 0 | 0 | 10.45 | 0.33 |
| 1994 | 0 | 0 | 10.92 | 0.35 |
| 1995 | 3.62 | 3.49 | 10.63 | 0.34 |
| 1996 | 3.48 | 2.86 | 11.2 | 0.36 |
| 1997 | 3.66 | 2.59 | 11.36 | 0.39 |
| 1998 | 3.58 | 2.32 | 11.68 | 0.39 |
| 1999 | 3.4 | 2.65 | 12.37 | 0.41 |
| 2000 | 3.63 | 2.87 | 12.46 | 0.44 |
| 2001 | 3.63 | 2.72 | 12.95 | 0.45 |
| 2002 | 3.59 | 2.67 | 13.07 | 0.44 |
| 2003 | 3.76 | 3.42 | 13.78 | 0.42 |
| 2004 | 3.83 | 4.22 | 14.29 | 0.44 |
| 2005 | 3.86 | 3.71 | 14.5 | 0.45 |
| 2006 | 3.4 | 3.13 | 14.68 | 0.46 |
| 2007 | 3.53 | 3.36 | 14.45 | 0.43 |
| 2008 | 3.36 | 3.2 | 14.1 | 0.44 |
| 2009 | 3.17 | 2.74 | 14.37 | 0.45 |
| 2010 | 3.31 | 2.49 | 15.2 | 0.46 |
| 2011 | 3.39 | 3 | 13.99 | 0.48 |
| 2012 | 3.78 | 2.91 | 13.89 | 0.47 |
| 2013 | 3.98 | 3.19 | 13.35 | 0.46 |
| 2014 | 3.88 | 3.04 | 13.24 | 0.41 |



Renewable Energy

Total Final Energy Consumption

| Year | Renewables (as % of TFEC) (%) | New Renewables (as % of TFEC) (%) | Traditional Solid Biomass (TJ) | Modern Renewables (TJ) | Non Renewables (TJ) |
|------|-------------------------------------|--|--------------------------------------|------------------------------|---------------------------|
| 1990 | 10.54 | 3.37 | 0 | 241808.91 | 2051429.06 |
| 1991 | 9.92 | 3.45 | 0 | 236942.11 | 2151275.72 |
| 1992 | 8.22 | 2.4 | 0 | 198957.3 | 2221180.37 |
| 1993 | 9.08 | 3.16 | 0 | 216495.1 | 2167862.04 |
| 1994 | 9.24 | 3.57 | 0 | 230894.28 | 2267589.8 |
| 1995 | 8.26 | 2.93 | 0 | 211024.57 | 2342340.88 |
| 1996 | 10.06 | 4.82 | 0 | 263237.37 | 2352918.61 |
| 1997 | 9.15 | 4.08 | 0 | 249598.65 | 2476975.89 |
| 1998 | 8.94 | 3.92 | 0 | 256963.35 | 2616892.51 |
| 1999 | 7.68 | 2.81 | 0 | 229042.94 | 2752643.91 |
| 2000 | 7.88 | 3.42 | 0 | 251199.86 | 2934863.54 |
| 2001 | 8.93 | 4.66 | 0 | 299027.94 | 3048256.1 |
| 2002 | 7.42 | 3.1 | 0 | 252761.42 | 3155975.27 |
| 2003 | 8.9 | 4.82 | 0 | 323092.41 | 3307190.31 |
| 2004 | 8.03 | 4.08 | 0 | 304944.93 | 3491638.4 |
| 2005 | 7.29 | 3.5 | 0 | 286009.71 | 3637404.57 |
| 2006 | 8.47 | 4.31 | 0 | 324023.22 | 3500519.69 |
| 2007 | 9.01 | 4.92 | 0 | 353515.86 | 3572088.48 |
| 2008 | 9.74 | 5.57 | 0 | 368151.69 | 3412725.65 |
| 2009 | 12.22 | 7.58 | 0 | 428621.35 | 3079508.04 |
| 2010 | 14.4 | 9.87 | 0 | 513546.06 | 3053790.29 |
| 2011 | 14.75 | 9.83 | 0 | 506659.19 | 2929267.33 |

| 2012 | 15.77 | 10.54 | 0 | 519522.55 | 2774651.19 |
|------|-------|-------|---|-----------|------------|
| 2013 | 16.95 | 11.61 | 0 | 539846.46 | 2645095.08 |
| 2014 | 17.35 | 11.94 | 0 | 541486.82 | 2579162.35 |

Renewable Energy Consumption

Renewable Energy Consumption by End Use (2014)

| Year | Electricity (%) | Transport (%) | Heating (%) |
|------|-----------------|---------------|-------------|
| 2014 | 40.11 | 3.4 | 15.42 |

Current Renewable Energy Consumption by Source (2014)

| Year | Geothe rmal (TJ) | Hydro (TJ) | Liquid Biofuel s (TJ) | Moder n Biomas s (TJ) | Others (TJ) | Solar (TJ) | Traditi onal Biomas s (TJ) | Wind (TJ) |
|------|------------------------|---------------|-----------------------------|--------------------------------|----------------|---------------|-------------------------------------|---------------|
| 2014 | 789.52 | 116384. 61 | 40562.2 | 168783. 43 | 8962.5 | 51456.3 8 | 0 | 154550. 15 |