

Global Tracking Framework (GTF)

Country Data - Bhutan

Energy Access

Access to Electricity 1990-2014

| Year | Electrification rate, National (%) | Electrification rate, Rural (%) | Electrification rate, Urban (%) |
|------|------------------------------------|---------------------------------|---------------------------------|
| 1990 | 0 | 0 | 0 |
| 1991 | 0.03 | 0 | 0 |
| 1992 | 0.26 | 0 | 0 |
| 1993 | 1.18 | 0.01 | 0 |
| 1994 | 1.57 | 0.12 | 0 |
| 1995 | 6.68 | 0.76 | 0 |
| 1996 | 11.79 | 2.67 | 0 |
| 1997 | 16.88 | 5.58 | 0 |
| 1998 | 21.95 | 10.88 | 0 |
| 1999 | 27.01 | 16.17 | 0 |
| 2000 | 32.05 | 21.43 | 0 |
| 2001 | 37.08 | 26.68 | 0 |
| 2002 | 42.1 | 31.93 | 0 |
| 2003 | 41.1 | 37.19 | 0 |
| 2004 | 52.14 | 42.45 | 74.95 |
| 2005 | 59.81 | 43.68 | 96.78 |
| 2006 | 62.2 | 53.01 | 81.98 |
| 2007 | 71.8 | 60.3 | 98.73 |
| 2008 | 72.3 | 63.67 | 89.63 |
| 2009 | 77.36 | 69.03 | 93.53 |
| 2010 | 82.44 | 74.41 | 97.48 |
| 2011 | 87.51 | 79.79 | 100 |

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| | | | |
|------|-------|-------|------|
| 2012 | 91.5 | 87.3 | 99.6 |
| 2013 | 97.67 | 90.58 | 100 |
| 2014 | 100 | 95.98 | 100 |

Access to Clean Cooking Fuel and Technologies 2000-2014

| Year | Access to clean fuels and technologies for cooking (%) |
|------|--|
| 2000 | 38.03 |
| 2001 | 40.3 |
| 2002 | 42.53 |
| 2003 | 44.71 |
| 2004 | 46.87 |
| 2005 | 49 |
| 2006 | 51.13 |
| 2007 | 53.25 |
| 2008 | 55.36 |
| 2009 | 57.48 |
| 2010 | 59.59 |
| 2011 | 61.71 |
| 2012 | 63.82 |
| 2013 | 65.93 |
| 2014 | 68.04 |

Energy Efficiency

Energy Intensity 1990-2014

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

Global Tracking Framework (GTF)

| | (MJ/USD PPP 2011) | rate of national energy intensity (%) |
|------|--------------------------|--|
| 1990 | 30.02 | 0 |
| 1991 | 30.29 | 0.91 |
| 1992 | 29.33 | -3.17 |
| 1993 | 28.52 | -2.77 |
| 1994 | 27.57 | -3.33 |
| 1995 | 26.31 | -4.55 |
| 1996 | 25.65 | -2.52 |
| 1997 | 25.15 | -1.94 |
| 1998 | 24.32 | -3.3 |
| 1999 | 22.86 | -6.02 |
| 2000 | 21.79 | -4.65 |
| 2001 | 20.48 | -6.05 |
| 2002 | 18.98 | -7.3 |
| 2003 | 17.79 | -6.27 |
| 2004 | 16.83 | -5.4 |
| 2005 | 16.21 | -3.66 |
| 2006 | 15.51 | -4.36 |
| 2007 | 13.74 | -11.41 |
| 2008 | 13.64 | -0.72 |
| 2009 | 13.2 | -3.22 |
| 2010 | 12.55 | -4.92 |
| 2011 | 11.76 | -6.31 |
| 2012 | 11.56 | -1.7 |
| 2013 | 11.65 | 0.74 |
| 2014 | 11.06 | -5.03 |

Sectors 1990-2014

Global Tracking Framework (GTF)

| Year | Industry (MJ/USD PPP 2011) | Agriculture (MJ/USD PPP 2011) | Residential (GJ/Population) | Services (MJ/USD PPP 2011) |
|-------------|---|--|--|---|
| 1990 | 2.44 | 0.07 | 66.27 | 0 |
| 1991 | 2.59 | 0.07 | 66.61 | 0 |
| 1992 | 3.02 | 0.07 | 67.29 | 0 |
| 1993 | 2.18 | 0.07 | 68.7 | 0 |
| 1994 | 3.28 | 0.07 | 70.07 | 0 |
| 1995 | 3.1 | 0.07 | 70.9 | 0 |
| 1996 | 3.69 | 0.07 | 71.6 | 0 |
| 1997 | 5.53 | 0.07 | 71.17 | 0 |
| 1998 | 5.25 | 0.06 | 70.96 | 0 |
| 1999 | 4.53 | 0.06 | 70.3 | 0 |
| 2000 | 4.24 | 0.06 | 69.52 | 0 |
| 2001 | 3.42 | 0.06 | 68.15 | 0 |
| 2002 | 3.28 | 0 | 67.32 | 0.01 |
| 2003 | 2.44 | 0 | 66.19 | 0 |
| 2004 | 1.72 | 0 | 65.35 | 0.01 |
| 2005 | 2.3 | 0 | 64.25 | 0.01 |
| 2006 | 2.3 | 0 | 64.29 | 0.01 |
| 2007 | 2.01 | 0 | 64.61 | 0.01 |
| 2008 | 2.94 | 0 | 64.58 | 0.01 |
| 2009 | 3.03 | 0 | 64.64 | 0.01 |
| 2010 | 3.55 | 0 | 64.95 | 0.01 |
| 2011 | 3.01 | 0.01 | 64.05 | 0.12 |
| 2012 | 3.19 | 0.01 | 63.51 | 0.12 |
| 2013 | 3.48 | 0.01 | 63.23 | 0.13 |
| 2014 | 3.72 | 0.01 | 61.73 | 0.13 |

Global Tracking Framework (GTF)

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 | 95.9 | 1.46 | 34993.19 | 641.65 | 1523.93 |
| 1991 | 95.92 | 1.55 | 35116.59 | 687.74 | 1522.98 |
| 1992 | 95.29 | 1.52 | 35165.98 | 681.65 | 1772.87 |
| 1993 | 95.86 | 1.67 | 35119.87 | 753.92 | 1550.07 |
| 1994 | 95.29 | 2.59 | 35369.1 | 1130.04 | 1803.69 |
| 1995 | 94.37 | 2.49 | 35593.69 | 1105.42 | 2188.7 |
| 1996 | 93.24 | 3.09 | 35877.33 | 1371.82 | 2700.6 |
| 1997 | 91.35 | 3.19 | 36345.49 | 1467.36 | 3580.5 |
| 1998 | 91.53 | 3.65 | 37202.45 | 1697.76 | 3599.06 |
| 1999 | 91.57 | 3.36 | 37894.52 | 1602.49 | 3638.19 |
| 2000 | 91.4 | 3.27 | 38591.81 | 1591.69 | 3781.88 |
| 2001 | 91.75 | 3.97 | 38820.55 | 1925.94 | 3664.59 |
| 2002 | 91.2 | 4.34 | 39521.05 | 2147.03 | 4020.23 |
| 2003 | 91.92 | 4.4 | 39992.17 | 2181.73 | 3708.86 |
| 2004 | 93.45 | 4.84 | 40583.7 | 2399.22 | 3011.29 |
| 2005 | 91.66 | 4.68 | 40829.11 | 2378.79 | 3931.38 |
| 2006 | 91.92 | 5.66 | 41718.3 | 2924.34 | 3923.49 |
| 2007 | 92.19 | 7.04 | 42952.23 | 3746.41 | 3957.88 |
| 2008 | 92 | 8.22 | 43935.48 | 4516.39 | 4213.5 |
| 2009 | 92.61 | 9.92 | 44744.74 | 5612.03 | 4020.66 |
| 2010 | 90.89 | 10.01 | 45696.99 | 5751.39 | 5156.47 |
| 2011 | 89.44 | 10.19 | 45774.86 | 5988.26 | 6113.66 |

Global Tracking Framework (GTF)

| | | | | | |
|------|-------|-------|----------|---------|---------|
| 2012 | 87.85 | 10.66 | 46028.92 | 6461.65 | 7261.89 |
| 2013 | 86.84 | 10.81 | 46531.05 | 6720.17 | 8072.33 |
| 2014 | 86.66 | 11.7 | 46124.88 | 7304.95 | 8224.34 |

Renewable Energy Consumption

Renewable Energy Consumption by End Use (2014)

| Year | Electricity (%) | Transport (%) | Heating (%) |
|------|-----------------|---------------|-------------|
| 2014 | 99.99 | 0 | 94.3 |

Current Renewable Energy Consumption by Source (2014)

| Year | Geothermal (TJ) | Hydro (TJ) | Liquid Biofuels (TJ) | Modern Biomass (TJ) | Others (TJ) | Solar (TJ) | Traditional Biomass (TJ) | Wind (TJ) |
|------|-----------------|------------|----------------------|---------------------|-------------|------------|--------------------------|-----------|
| 2014 | 0 | 7213.6 | 0 | 91.35 | 0 | 0 | 46124.88 | 0 |