

Calculating CO2 emissions of Happy Trails

Office in Bali

Electricity (100% coal fired = 93 kg per million BTU

1 kwh = 10.000 BTU 0,93

Average use over six months (June - Nov 2017)

2400 kwh per month

28800 kwh per year

288.000.000 btu per year

26784 kg coal per year

26,8 ton coal per year

2,5 CO2 per ton of coal varies from type between 2.4 and 2.8 per ton

67 ton of CO2 per year

Transport

Car

0,22 kg per km (petrol car) 2,31 kg per liter

0,07 kg per pax per km average 3 in a car

0,14 kg per km (diesel car) 2,68 kg per liter

0,05 kg per pax per km average 3 in a car

Bus (many factors can alter this (size, speed etc) 53,6 kg per 100 km for a 20 seater bus

0,536 kg per km (diesel bus 20 seater)

0,03 kg per km per pax average 16 in a bus

Accommodation

Airconditioning 600 btu per hour per m2 (full capacity)

Room size average 25 m2

Airconditioning 15.000 btu per hour

Use per day 10 hours

half use (night time lower) 75.000

Light, hot water etc 25.000

Total 100.000 btu per day per room

per pax per day 50.000 btu per day

Kwh per pax per day 5

Coal per pax per day 5 kg

12 kg CO2 per pax per day

