Business Sustainability Modules

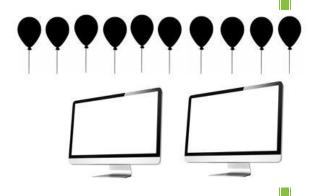
Vísualisation - Black balloons or pot plants to show impact of Carbon missions

Visualising the impact of not turning off monitors

It may not seem like much when monitors only consume 2 Watts (W) every hour on standby. However, if 2 monitors are left on standby after work hours for a week, it accumulates to 512W of power consumed.

That's 716gCO_{2e-} (carbon emissions) which can be visualised to staff with 14 black balloons.

Times this by 52 weeks a year and 10 workspaces (372 320g CO_{2e-}) and that's 7446 balloons or close to 0.4 tonnes!





Visualising offsetting carbon emíssions

Using a carbon equivalent calculator, it will take 3 tree seedlings grown for 10 years to recover that carbon (266, 240W per year)!

The maths!

- Each workstation has 2 monitors
- 50 g CO_{2e-} held in each balloon ¹
- 1400g CO_{2e-} by using 1000 W for 1 hour ¹
- 100 000 W can be sequestered by 1.2 tree seedlings grown for 10 years ²

2 x monitors in standby mode $= (2 \times 2W/hr \times 16hrs \times 5days) + (2 \times 2W/hr \times 24 hr \times 2 days)$ = 512 W/week or 716 g CO_{2e-} /week or 14 balloons/week

For 10 workstations /yr

= 10 workstations x 52 weeks per year x 512 W/ week = 266,240 W / yr or 3 tree seedlings

Remember: Use biodegradable balloons or preferably pot plants

1. Environment Protection Authority Victoria 2011, Australian Greenhouse Gas Calculator - Black Balloons Calculator

www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

