



Energy Digital Toolkit

Being energy efficient has a number of advantages, including reducing energy costs, lowering your carbon footprint and assisting in meeting environmental targets. Although green energy technology can help achieve these goals, improving energy efficiency is the most cost-effective way to minimise your usage. We have partnered up with My Green Lab to give you a guide on how to be more energy efficient in your lab!

Did You know?



Ultra-low temperature (ULT) freezers can consume the same amount of energy as a single-family home, up to 25 kWh/day.



Many scientists use the term “ultra-low temperature freezer” instead of “-80 freezer” because these freezers don’t have to be set to -80°C!



You can save up to 30% of the energy use of these freezers by putting the set point at -70 °C instead of -80 °C.

Energy Saving Tips for your Laboratories:

STEP 1

Power down laboratory equipment overnight and on the weekends. You can use outlet timers to help with this, or manually power down. Have a lab discussion about which equipment this is suitable for.



STEP 2

Keep your lab's fume hood sash closed when you are not actively working within in to save energy and for safety.



STEP 3

Turn off the lights in the lab and support rooms when they are not in use.



STEP 4

Check your equipment for existing energy saving or eco modes – if these are present, use them.



STEP 5

Put autoclaves in standby mode when they are not in use, and only run autoclave loads when the machine is full.



Join the 2021 International Laboratory Freezer Challenge!

Be a part of the solution to reduce the environmental impact and resource use of laboratories! From 2017 to 2020, 9.9 million kWh of energy was saved through the Freezer Challenge. Any laboratory with refrigerators and freezers can participate. Competition ends July 1, 2021.

Register at www.freezerchallenge.org/register