

# Mehr Chand Mahajan DAV College for Women

Sector-36A, Chandigarh (U.T.)

[www.mcmdavcwchd.edu.in](http://www.mcmdavcwchd.edu.in)



## Weekly report of Green Good Deeds

(23 to 30 May, 2021)

Organized by MCM Eco-Club

To celebrate

‘BHARAT KA AMRUT MAHOTSAV’

*The 75<sup>th</sup> Anniversary of India's Independence*

*Dr. Neetu & Dr. Sarabjeet Kaur*  
*Coordinators*

*Dr. Nisha Bhargava*  
*Convener & Principal*

## **I. ONLINE POWER POINT PRESENTATION ON THE THEME- DON'T KEEP VEHICLE ENGINE TURNED ON UNNECESSARILY, TURNING OFF THE ENGINE WILL PREVENT THE RELEASE OF HARMFUL AIR POLLUTANTS**

**Date:** 29 May, 2021

**Number of participants:** 42 students

**Activity Coordinator:** Dr. Neetu

### **Objective**

- To spread awareness about the hazardous effects of turning on vehicle engines unnecessarily.

**Context:** Unnecessary idling of vehicles pollutes the air, wastes fuel, and causes excess engine wear. Poor air quality can contribute to asthma and other ailments. Advances in vehicle technology have made it easier than ever to avoid idling. Reducing idling reduces greenhouse gas emissions, and saves money on fuel.

**Practice:** MCM Eco-Club organized an online Power point presentation by three students (Rashi Jain, Bhavya and Vishali) of B.Sc. III Medical to encourage the participants not to keep their vehicle engines turned on unreasonably. An operating vehicle emits a range of gases from its tailpipe into the atmosphere, one of which is carbon dioxide CO<sub>2</sub> – the principal greenhouse gas that contributes to climate change. Other vehicle emissions, such as volatile organic compounds (VOCs), carbon monoxide (CO) and oxides of nitrogen (NO<sub>x</sub>) are criteria air contaminants (CACs) that contribute to air pollution and smog. Participants were sensitized to take steps to reduce pollution.

**Evidence of Success:** As many as 42 students participated enthusiastically in the event and promised to spread the word among their family and friends.

**REDUCED VISIBILITY**  
**GLOBAL WARMING**  
**HEALTH COMPLICATIONS**  
**AFFECTS TOURISM**  
**ACID RAIN**  
**POOR AIR QUALITY**

**CO<sub>2</sub> NO PARTICULATE MATTER SO<sub>2</sub> HYDROCARBONS**

**DON'T FORGET TO TURN OFF THE ENGINE**

**STOP AIR POLLUTION**

**#conserve fuel #save while you wait**

**HELP US CLEAR THE AIR AT SCHOOL**  
HEALTHY AIR, HEALTHY KIDS

As a member of an activity bus, please ensure that all children are properly buckled up and that the driver is properly trained for their duties.

Exhaust fumes from cars are linked to an increase in asthma, allergies, heart problems, diabetes and even cancer.

Children are especially at risk because their lungs are still developing and they spend more time in and around the bus.

**IF YOU'LL BE WAITING MORE THAN 10 SECONDS TURN OFF YOUR ENGINE**

**THIS SIMPLE STEP CAN:**

- Reduce idling, conserve fuel, save money
- Save the environment
- Help the environment
- Take our pledge to the City of FORT WORTH COMMUNITY.

**THANK YOU FOR TURNING OFF YOUR ENGINE WHILE WAITING OR PARKED**

**TURN IT OFF. SAVE MONEY. SPARE THE AIR**

Limit driving and idling: carpool, combine errands, use public transportation, ride a bike, or walk.

Keep your vehicle maintained: including keeping tires properly inflated.

**TIRE SERVICE**

Maintain your yard equipment, including changing the oil and replacing air filters regularly. Also consider using tools without motors. Hand tools such as shears, edgers, and push reel mowers are lightweight, quiet, and easy to use, and do not generate emissions.

Don't burn yard waste.

Avoid your vehicle in the late afternoon or evening.

Use paint and cleaning products with fewer or no volatile organic compounds.

**VEHICULAR POLLUTION DID YOU KNOW?**

- 1/5<sup>th</sup> of global CO<sub>2</sub> emissions come from the transport sector.
- 90% of black carbon emissions come from diesel vehicles.
- 50% of countries are still using high-sulphur fuels like diesel which produce high air pollution.
- 47% of deaths caused by emissions from diesel vehicles.
- 3.85 Lakh people killed prematurely due to vehicular pollution in 2016.

Most deaths due to air happen in China.

**BE IDLE FREE FOR OUR HEALTH AND PLANET**

**NO IDLING. PLEASE TURN OFF YOUR ENGINES**

**Let's choose the right path and breathe in a clean air.**

**What is idling?**  
Idling is when a driver leaves the engine running and the vehicle parked.

According to the U.S. million of cars and trucks idling every day, creating the heat.

It all adds up:  
 20 minutes of idling = more fuel than burning off the engine and recharging.  
 1 hour of idling = 1 gallon of fuel.  
 20 minutes of idling = 2 miles.  
 Idling = \$ 3000.

Turn the Key to Idle Free!

Save money & fuel!  
 Save the planet!  
 Save your health!

**STOP YOUR ENGINES!**

**01** Turn off the engine when you are parked for more than 10 seconds.

**02** Turn off the engine when you are waiting at a traffic light for more than 10 seconds.

**03** Turn off the engine when you are waiting at a red light for more than 10 seconds.

**04** Turn off the engine when you are waiting at a stop sign for more than 10 seconds.

**05** Turn off the engine when you are waiting at a stop sign for more than 10 seconds.

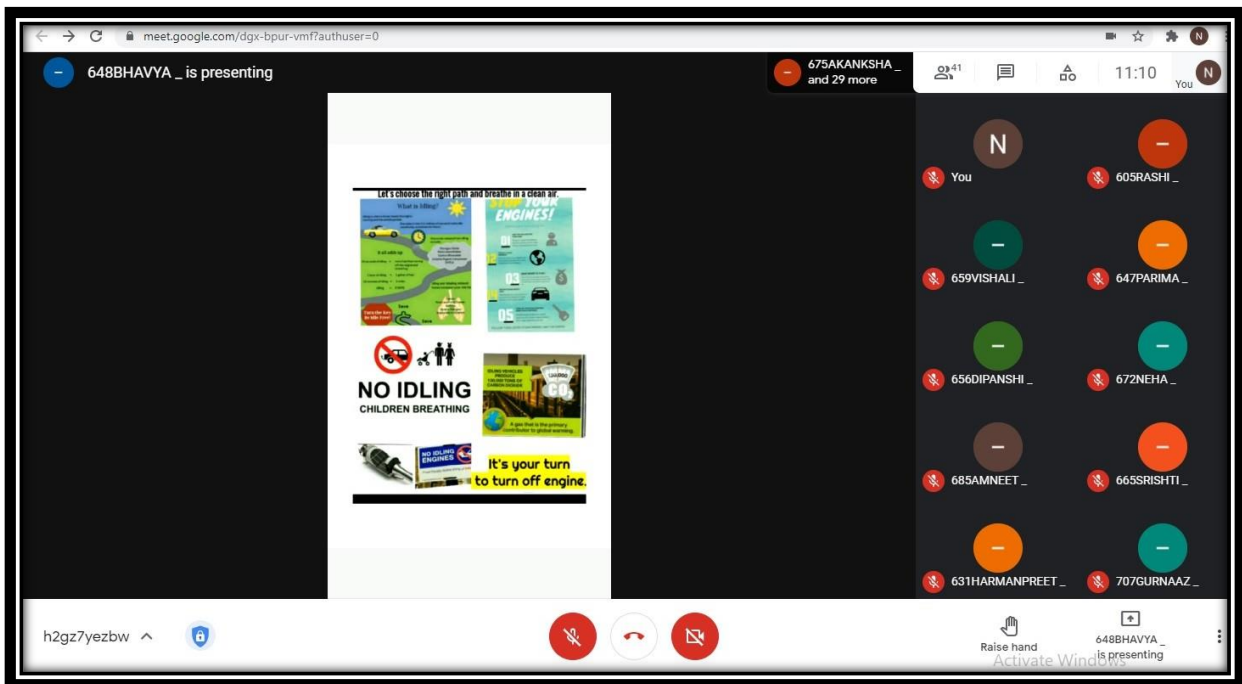
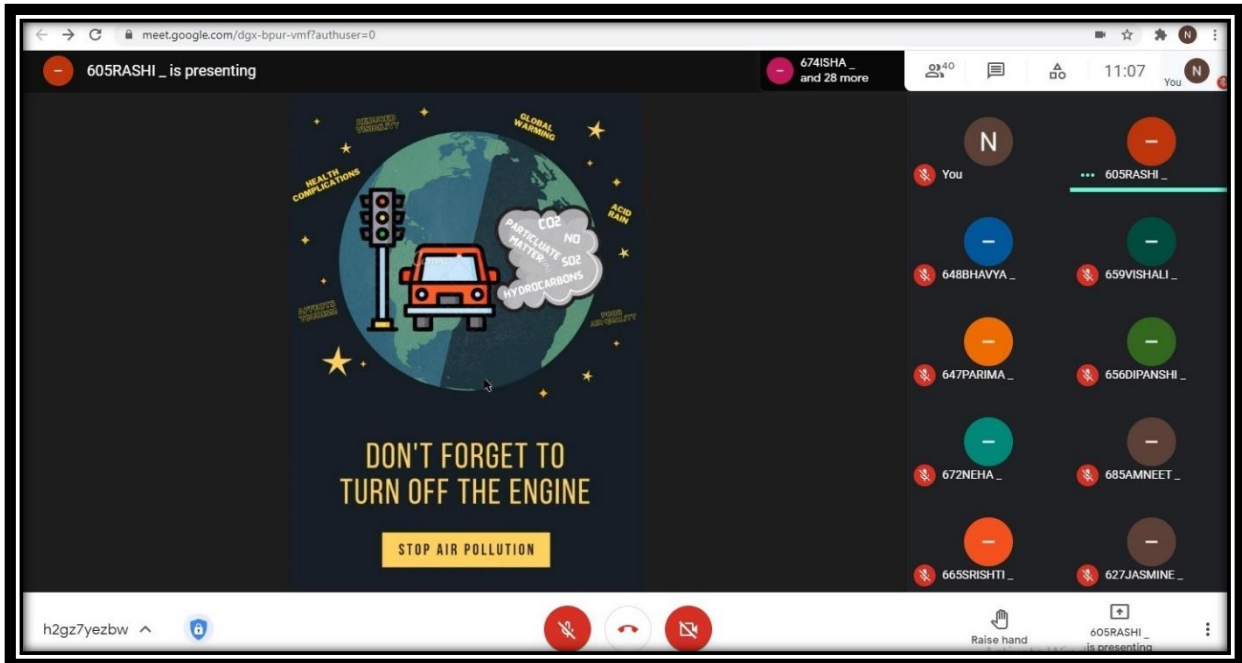
**NO IDLING CHILDREN BREATHING**

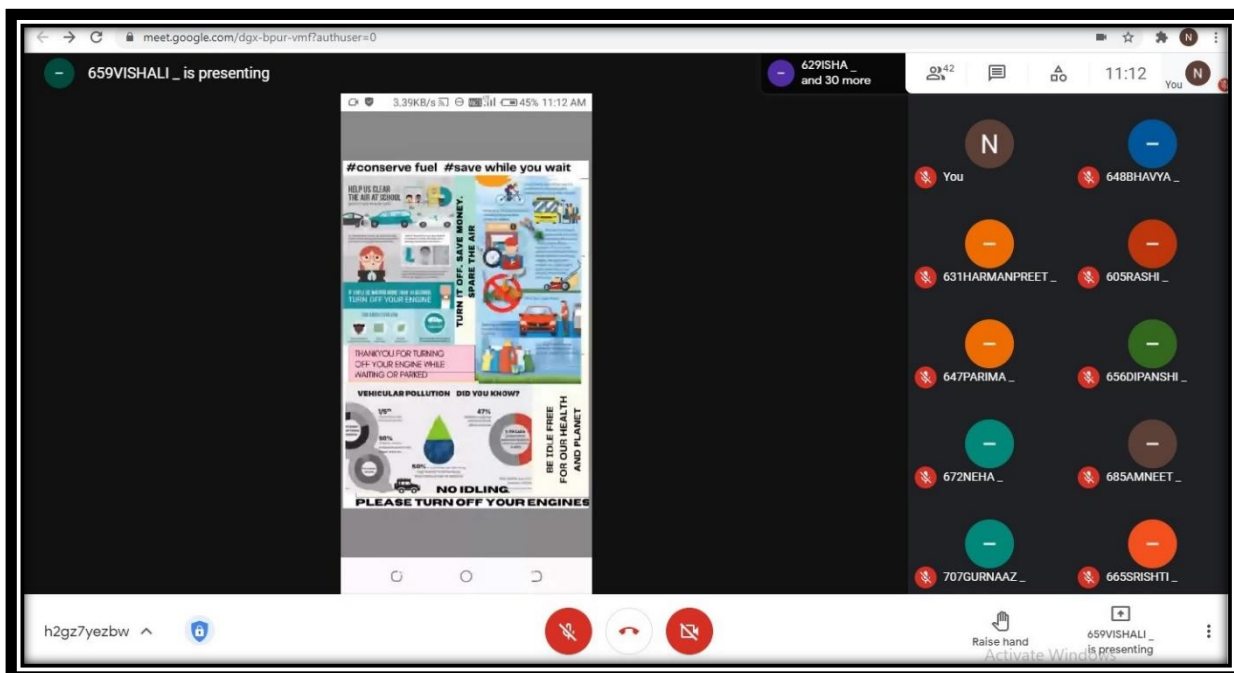
**IDLING VEHICLES PRODUCE 130,000 TONS OF CARBON DIOXIDE**

**130,000 CO<sub>2</sub>**

A gas that is the primary contributor to global warming.

**It's your turn to turn off engine.**





## II. INTERACTIVE SESSION ON THE THEME: ENERGY CONSERVATION WHILE USING GEYSER

**Activity coordinator:** Dr. Sarabjeet Kaur

**Date:** 30.05.2021

**Number of participants:** 57 Students

### Objective

- To sensitize students about need of conserving energy while using geyser.

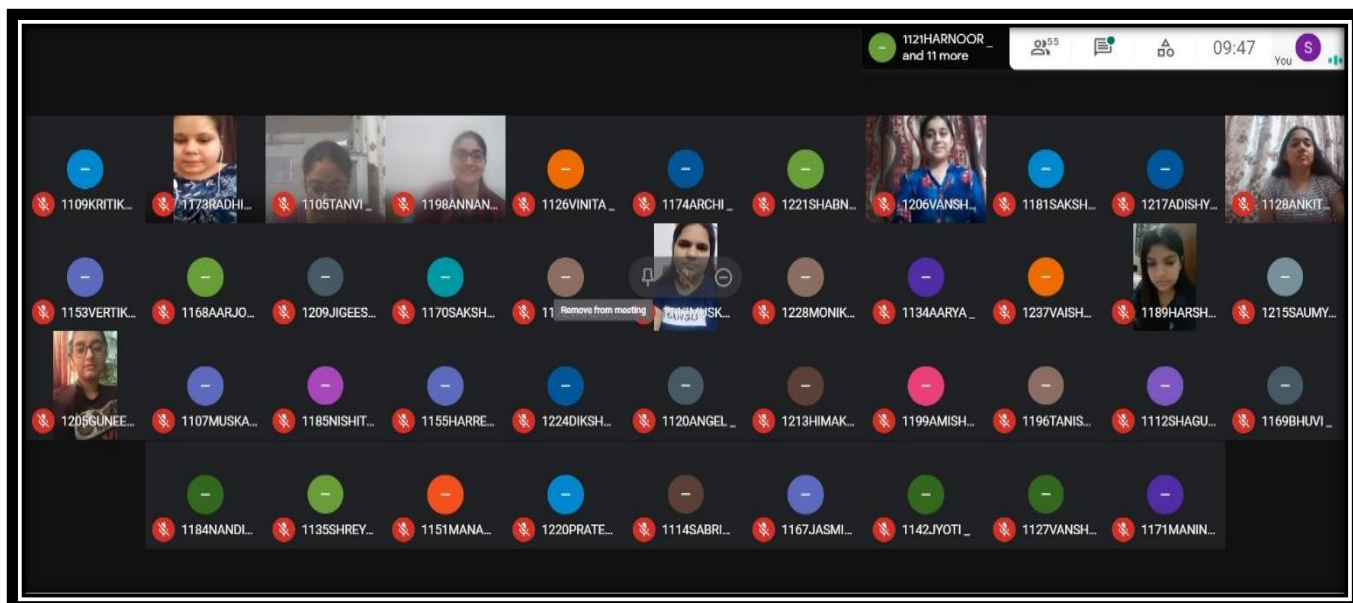
**Context:** Energy conservation measures are at the top of the sustainable energy hierarchy. They not only lower energy costs but also prevent future resource depletion. Significant energy reductions are possible by taking small measures and using different technologies. There is a need to make general public aware about trending technologies and tips to save electricity at home.

**Practice:** MCM Eco-Club organized an interactive session with the students on the theme “Energy conservation while using geyser”. Over 57 Students of Undergraduate classes along with 3 faculty members attended the same where Ms. Annanya of B.Sc. II Medical explained the significance of various measures that can reduce energy consumption while using geyser. She shared various tips like use of 5-star rated quality geyser, right sized geyser with timer and proper insulation around heater and pipes, turning off geyser when not in use, geyser with solar water heater and so on. She emphasized that energy conservation measures can result in increased environmental quality, personal financial security and higher savings.



**Evidence of Success:** Students felt motivated to adopt suggested measures of reducing power consumption by accurate use of the geysers.





### III. ONLINE TALK ON THE THEME: USE SOUND PROOF (ACOUSTIC) DIESEL GENERATOR SETS TO PREVENT NOISE POLLUTION

**Date:** 30 May, 2021

**Number of participants:** 56 students

**Activity Coordinator:** Dr. Divya Sharma

#### Objectives

- To spread awareness about the sound pollution created by the diesel generators.
- To promote the use of Acoustic diesel generators to minimize the sound production.

**Context:** Sound pollution is generated by many unavoidable sources like heavy machines, stone crushers, generators etc. Sound pollution has turned out to be acute in the residential areas of many cosmopolitan cities. It has gone far beyond the permissible level, putting the public health at risk. The high noise exposure for long duration can cause high blood pressure, stress related illness, sleep disruption, deafness and may also damage physiological and psychological health. The increasing use of generators at homes and offices is not being regulated, resulting in higher degree of noise pollution in and around the residential areas. There is indeed very little awareness of the hazards from such machines and this has to be dealt at larger platform.

**Practice:** Students of B.Sc. Medical were made aware about the sound pollution caused by the diesel generators commonly used in household for power backup. The use of Acoustic Diesel generators as an alternative solution was presented by Muskan of B.Sc. I Medical. Soundproof generators are fitted with a silencer system that absorbs noise and vibration, which allows the generator to run quietly. The sound attenuating features were explained elaborately.

**Evidence of success:** The students got to know the benefits of using Acoustic Diesel generators in place of normal diesel generators to minimize the sound and ill effects of high sound too.

# SOUNDPROOF DIESEL GENERATOR

## PREVENT NOISE POLLUTION

### INTRODUCTION

Noise pollution is considered to be one of the major environment pollutants which affect human beings both physically and psychologically, as such, a noise-free environment is in great demand worldwide. Diesel engine generators are highly appreciated as power sources of electric equipment in factories, houses and business centers. Loud sounds from diesel generators are a major cause of noise pollution. Therefore, soundproof generators are the way because they are fitted with a silencer system that absorbs noise and vibration, which allows the generator to run quietly and prevent noise pollution.

#### FACTORS ATTENUATING NOISE

- Acoustic Barriers
- Sound Insulation
- Insulation Mounts
- Cooling Air Attenuation
- Maximize Distance Between Generator Set And Receiving Source Of Noise
- Exhaust Mufflers

#### ADVANTAGES

- Significant low noise performance.
- The overall design of low noise, small size and beautiful appearance.
- Large impedance composite muffler.
- High-capacity fuel.
- Fast open cover, easy maintenance.

