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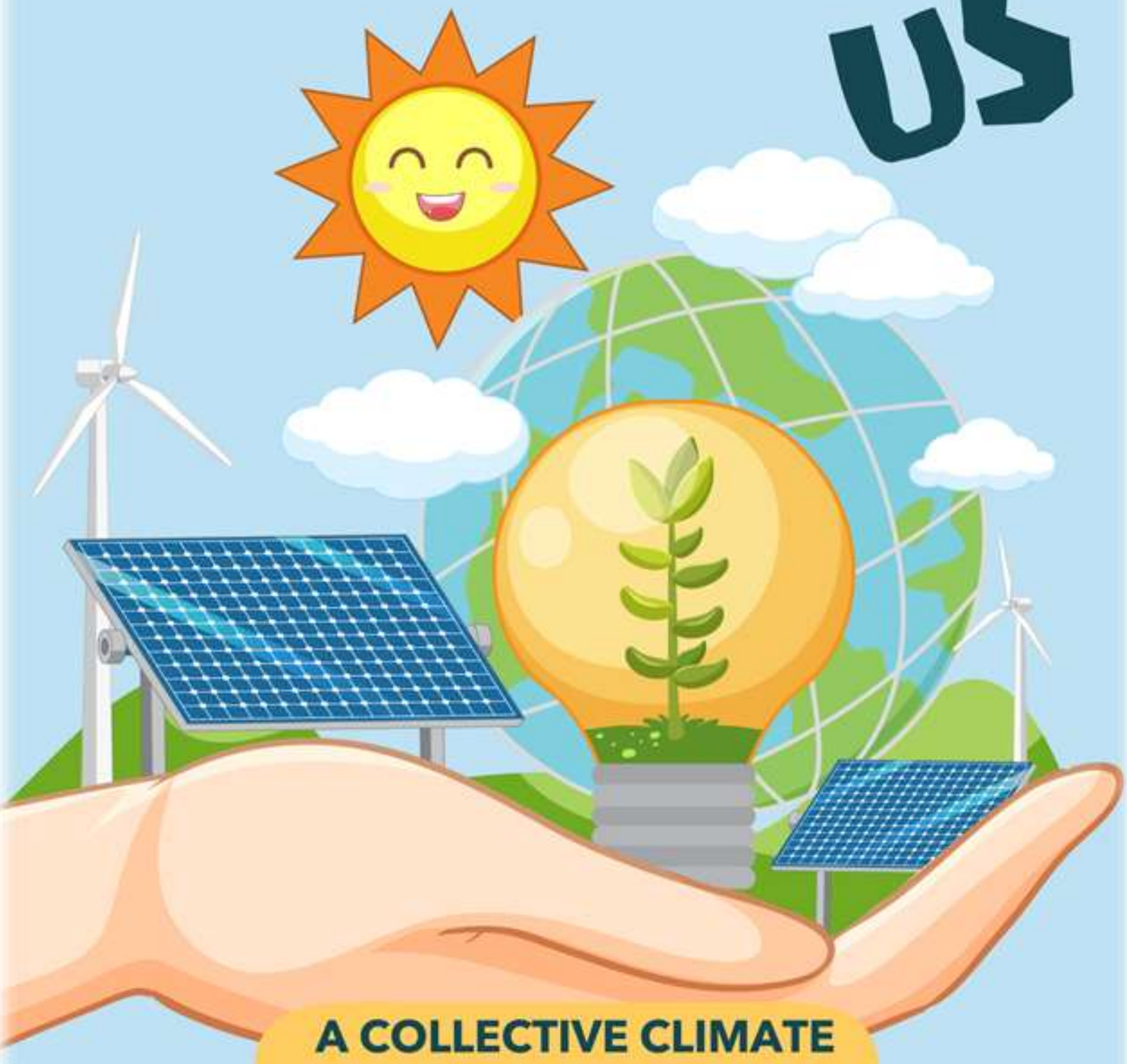
Bengaluru Climate Action Club

ENERGY & US



A COLLECTIVE CLIMATE ACTION PROJECT

Bengaluru Climate Action Club

Climate Collective Action Project (C-CAP)

Energy and Climate:

Our Power, Our Planet

Group Name:

Group Members Names:

This is where you start, run across, earn a few points, plan, act and finish your race of learning and exploration!

This is a student-led project! Work together in your groups, follow each step carefully, and keep moving forward with focus. Along the way, look out for these pit stops, they'll help you check if you're on the right track. Most importantly, enjoy the journey and make your learning meaningful!

Getting Started!

We know that the way we use energy in our homes and schools, whether for lighting, transport, cooking, or gadgets, directly affects the planet's climate. Many of us know that while we have made efforts in alternate energy sources, most of our energy still comes from burning fossil fuels like coal and oil, which release greenhouse gases that trap heat in the atmosphere.

But here's the exciting part: in our Climate Action Club – **knowledge turns to action!**

YOU have the power to help your school and city shift to cleaner, smarter energy habits!

Energy is all around us in nature—it's the sunlight that warms us, the wind that moves the trees, and the water that flows in rivers. Energy is the power that makes things work, like electricity for lights, petrol for cars, and gas for cooking.

In this project, you will:

- Explore where Bengaluru's energy comes from and how it impacts our city
- Discover energy use beyond electricity, like fuel, gas, and batteries.
- Interview local heroes – like BESCOM officials and people who make energy choices every day.
- Take action in your school or community to save energy and cut emissions.
- Share your findings in creative, fun ways and inspire others!

  Tip: Be curious, ask questions, and notice the energy all around you!

The Journey so far!

✓ Completed the Audit

✓ Decided YOUR Theme and Climate Action(s)

✓ Planned some Actions – Filled Climate Action Plan Template

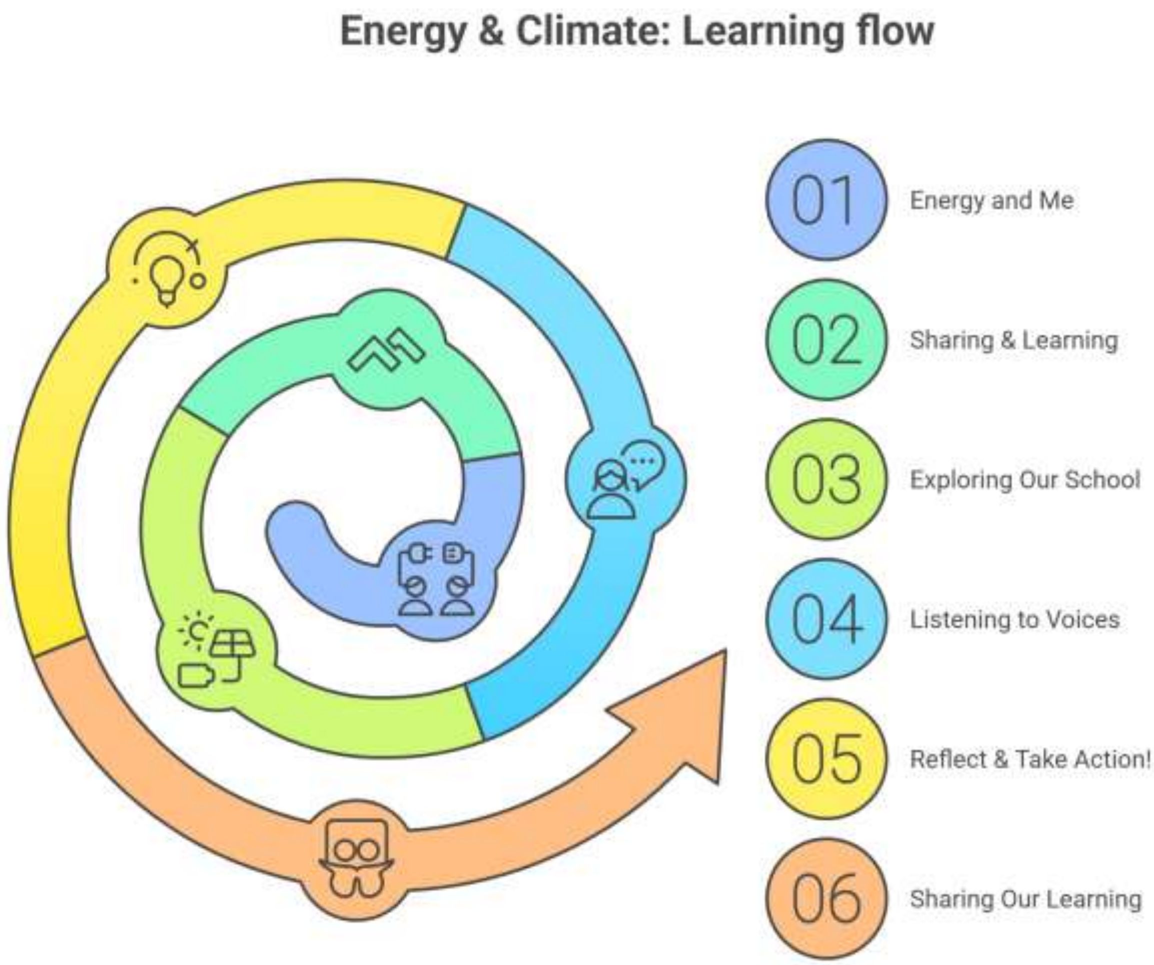
Achieving our Climate Action Goals – Next Steps!

- ✓ One school-level activity
- ✓ One cluster-level activity
- ✓ One Collective Action Project for your chosen theme
- ✓ Document your Journey on the Portal

Tip: *Take notes or photos - they'll help you create an awesome final presentation! To demonstrate the improvement of the adjustments and actions you would implement in your school, save some notes, bills, and supporting documentation. It could surprise you!*

Let's get started. Small steps today = big changes tomorrow!

Do your best and remember, this is not a race or competition, but a learning adventure!



Step 1: Who am I? Energy and Me (My Daily Energy Use)

Do you travel to school by car, bus, or cycle? Do you charge phones and use gas for cooking? Let's reflect on our energy choices.

What to Do:

Sit with your group and answer:

- What types of energy do we use at home and school (electricity, cooking gas, petrol, batteries)?
- Is energy the same as electricity?
- What are the different forms of energy?
- Do we turn off devices when not in use?
- What habits might be wasting energy or emitting carbon?

- What can we change easily?

Fill in this table honestly!

Questions	**Member 1**	**Member 2**	**Member 3**	**Member 4**	**Member 5**
What energy sources do I use daily? (e.g., electricity, gas, petrol)					
Do I switch off appliances/devices when not needed?					
Do I walk/cycle or use fuel-based transport?					
One small thing I can do to save energy and reduce emissions:					

Climate Action >> Try this energy calculator by following this link!

What is Carbon Footprint? | Children's Corner | Climate Change Department

Step 2: Sharing & Learning (Why Energy Matters for Climate)

When we burn coal and oil to make electricity, invisible gases go into the air and make Bengaluru and our Earth warmer.

Discuss these points in your groups and find answers to these questions!

- Where does most of Bengaluru's energy come from?
- What happens when we burn fossil fuels?
- How does energy use in transport, cooking, or lighting affect our city's temperature?
- Imagine our city with very little electricity - what would you enjoy and miss most?
- Why do we need to shift to cleaner energy?
- Do people in your school/family worry about energy beyond the electricity bills and in how we CONSUME energy - in appliances/fans/travel/heating or cooling?

Climate Action Challenge >> How can we make energy saving fun for Bangalore's citizens?

Did you know!

- Burning coal and oil releases CO_2, which causes global warming. In Karnataka, Bengaluru alone uses 23% of electricity.
- India is the world's fourth-largest producer and consumer of electricity, yet about 304 million people—18.24 million in urban areas—still lack access.
- Fossil fuels supply over 80% of India's energy needs.
- In Bengaluru, BESCOM supplies electricity using a mix of energy sources—mostly coal and hydropower, with growing solar and wind.
- Bengaluru's traffic emits large amounts of carbon daily!
- Saving energy = reducing emissions = slowing climate change.

Step 3 - Our Energy Map

What to Do:

- Draw a simple map of your school (classrooms, office, kitchen, playground, gate, etc.).
- Mark on the map the main energy hotspots (where energy is most used) – for example, the computer lab, canteen, or parking area.

- Next to each hotspot, write who uses the energy most there (students, teachers, administration, cooks, drivers, etc.).
- Add one thought bubble to each hotspot: *“Why do they need energy here?”*
- Map hot and cool spots in your school

Other Additions:

- Count sources/kinds of energy in the areas identified
- Find areas where energy is potentially wasted or can be used more efficiently
- Identify sources of emissions (e.g., fuel use, old devices).
- Identify what aspects/material make spots cooler versus warmer

Step 4: Listening to Voices (Interview the Energy Influencers!)

Let’s hear from people who manage energy daily and feel its impact.

Whom to Interview:

- BESCOM/ government departments on energy/electricity/transport
- School maintenance staff
- Canteen staff using gas
- Drivers and transport coordinators
- Parents or neighbors with solar panels
- teachers/students who cycle/walk to school or use public transportation

Here is how you conduct an interview!

- **Greet them**: *“Hello! I’m ________ and I’m doing a school project on energy and climate change”*
- **Explain your purpose**: *“I would love to ask you a few simple questions about your work and daily life.”*
- **Ask for permission**: *“Would it be okay if I take a few minutes of your time?”*
- **Make them comfortable**: *“There are no right or wrong answers! I just want to learn from your experiences.”*
- **Listen carefully**: Let them speak without interrupting.
- **Write answers exactly as they say them**: No opinions, just note what they share.
- **Thank them**: *“Thank you so much for sharing your experiences with me! I really enjoyed learning from you. Have a great day!”*
- **Remember** if you are interviewing outsiders, go with your teacher and never interview alone

Note: If you feel uncomfortable or the person seems busy, politely move on.

Some questions to ask:

1. What types of energy do we / you use in daily work or home life?
2. Have rising fuel or electricity prices changed our / your habits? How?
3. Are there any challenges you face when trying to save energy?
4. How does the energy you use affect our health, time, or expenses?
5. Have you noticed changes Bengaluru - how energy impacts our city's environment —air, temperature, noise, or pollution?
6. In what ways do you think energy use is connected to the lives of people in your locality / neighborhood?
7. What would make it easier for more people to use cleaner, safer energy?
8. What are some challenges you face while doing your job?
9. How can citizens make a difference – can you share 3 ideas for Climate Action?
10. What is your dream for our city?

Feel free to change / add questions – be informed by your School Audit and Climate Action Plan!

Step 5: Reflect & Take Action!

It’s time to connect the dots and create change!
Solar lights, Chargeable Cameras and Climate Action!

DISCUSS

Refer to your School Audit Findings and to your interviews and interactions

- What shocked or surprised you about energy use in your surroundings?
- How does energy connect to climate change?
- What can we do in school and at home to make a difference?

Identify Energy Action Ideas!

Use your school Audit findings and your School Climate Action Plan as inputs here!

Action idea	What you will do	What you will make	How to share with School
Zero Hour	Try one hour in class without electricity. See what fun activities you can do without lights, fans, or gadgets.	• List of "fun things to do without power" • Photos of your no-power activities	Tell other classes about your experience. Ask the principal if the whole school can try it once a month.
Switch off Campaign	Make colorful stickers and signs to put near light switches and fans to remind people to turn them off.	• Fun stickers that say "Turn me OFF!" • Posters with catchy messages • Chart to count how much energy you save	Show your stickers to other teachers. Help them make the same reminders for their classrooms.

Find the best sunny spots	Walk around school and find the sunniest places where solar panels could work best.	• Map showing the sunniest spots • Pictures of these places • Simple poster explaining why solar is good	Show your sunny spot map to the school principal. Explain why these places are perfect for solar panels.
How do we get to school?	Count how many students walk, cycle, take the bus, or come by car. Make posters encouraging eco-friendly transport.	• Chart showing different ways students travel • Colorful posters promoting walking and cycling • Certificates for "green travelers"	Share your transport data with parents and teachers. Organize a "Walk to school day" once a month.
Energy promise wall	Each student writes one promise about saving energy. Create a colorful wall display with everyone's promises.	• Personal energy promise cards • Big colorful wall display • "Promise Keeper" certificates	Invite other classes to add their promises to your wall. Help younger students make their own promise cards.

Choose What Works for You

Pick 2-3 activities that your group is excited about. You don't have to do everything!

Remember

- Work with your friends and teacher
- Keep it simple and fun
- Every small action helps the planet
- Share your ideas so more people can join in

Step 6: Sharing Our Learning!

Let’s get creative and show the world what we learned!

Choose one of these options as a group:

- Poster: "How energy choices shape our climate"
- Skit: A day in the life of a planet-heating school vs. a climate-smart school
- Photo story: Document where and how energy is used in your school
- Make a pledge wall: "I promise to… use energy wisely."
- Create a board game about energy-saving actions
- Write a rap or poem about climate-smart energy habits
- Build a model of an energy-efficient classroom
- Make a comic strip featuring a superhero who saves energy
- Record short video interviews with students on how they save energy at home

What to Include:

- What types of energy does Bengaluru use and where do they come from?
- How does our city’s energy use contribute to local climate change?
- What did you observe, hear, and discover?
- What actions did you take, and what difference can they make?
- What is your personal energy pledge?

Remember: Small changes = cooler planet. <u>Your</u> energy matters!

My Thoughts, My Voice!

Write, doodle, or express through art what you feel about our journey on Energy around us!