



# ASRI

(AKADEMI SEKOLAH LESTARI)

The Story of Nurturing a Sustainable Generation

#BERIZZPONIBLE

#BESUSTAINABLE





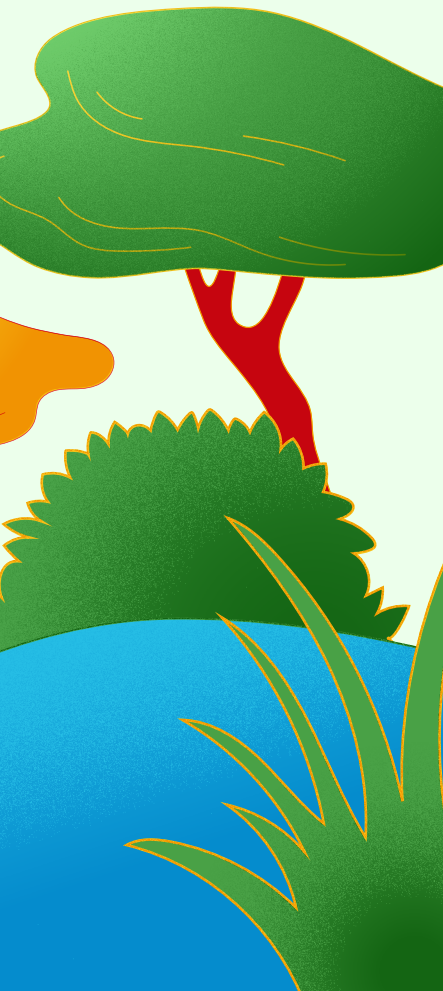


# ASRI (AKADEMI SEKOLAH LESTARI)

**IS A KOMPAS GRAMEDIA  
INITIATIVE PREPARING  
THE NEXT GENERATION  
TO FACE SUSTAINABILITY  
CHALLENGES.**

Through an online learning platform and on-ground initiatives, ASRI supports teachers and students in bringing sustainability into real practice.

**HERE'S HOW THE  
JOURNEY UNFOLDS.**





# ASRI JOURNEY

It All Starts Here. Are you ready?  
Let's Begin!

## GAME ON! DEC 2024

A cross-sector collaboration between **Unilever Indonesia Foundation and IPB University** marked the first move in building the ASRI sustainability ecosystem.



## COLLABORATION UNLOCKED

JAN TO JUNE 2025

Together with environmental practitioners, ASRI co-created sustainability modules through [lestariacademy.id](https://lestariacademy.id)





## SPREADING SUSTAINABILITY SPIRIT

JULY TO SEPT 2025

ASRI Menyapa and Goes to School officially launched and introduced in Jakarta, Bandung, and Yogyakarta.



## ASRI NATIONAL COMPETITION BEGIN

OCT TO DEC 2025

300+ creative ideas and real actions were curated through the ASRI national competition.



## A CELEBRATION OF IMPACT

DEC 2025

ASRI Awards marked the peak of appreciation and the start of a renewed sustainability commitment towards ASRI 2026.





# ASRI: FROM LEARNING TO LEADING ACTION

Where sustainability gets fun, interactive and designed for Gen Z and Gen Alpha.

**INTRO TO SUSTAINABILITY**

Every journey starts with understanding

Learn what sustainability means, why it matters, and how small actions make a real difference.



## WASTE MANAGEMENT

**Reduce. Reuse. Recycle.**

Engaging learners to explore the 3R principles, dive into product life cycles, and understand how communities and policies work together to manage waste more effectively.

**3,352 LEARNERS**

Short journeys. Real actions. Positive impacts. **Powered by [lestariacademy.id](https://www.lestariacademy.id)**





## NATURE CONSERVATION

### Nurture What Sustains Us

Safeguarding biodiversity in water, soil, & air while accelerating climate action and renewable energy for a resilient future.

Accessed by  
**± 3,154 LEARNERS**



## PHYSICAL WELL-BEING

### Sustainability Within Us

Nurturing physique through balanced nutrition is also an act of sustainability that strengthens both our body and mental well-being.

Accessed by  
**1,859 LEARNERS**





ASRI



# BEYOND ONLINE CLASSROOM ASRI ROADSHOW

Designed as a shared space, the ASRI Roadshow brought together representatives from various schools in one place to learn, exchange ideas, and explore sustainability together.

## 2025 ROADSHOW LOCATIONS



**SMAN 3  
YOGYAKARTA**

30 JULY 2025



**SMKN 2 BANDUNG**

24 JULY 2025



**SMA TARAKANITA 1  
JAKARTA**

21 AUGUST 2025

## ROADSHOW'S IMPACT & REACH

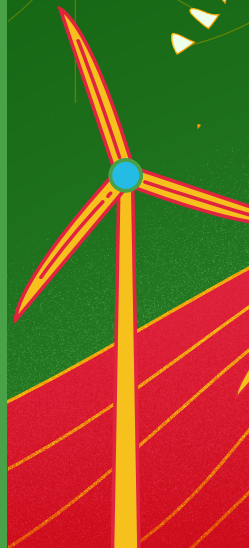
**150+** schools participating in the roadshow series

**809+** students registered users on Lestari Academy

**856+** registered students & teachers learning through e-courses

**45+** collaborating partners

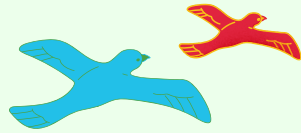
This roadshow is a collaborative effort to expand access to sustainability learning, starting in schools and progressing towards concrete action.



# A PEEK AT THE EXCITEMENT OF THE ROADSHOW



Talk show session where practitioners opened up a discussion space that resonated with young people's daily lives



Exploring creative products made from recycled plastic waste



A mindful floristry experience that uses local plants and eco-friendly techniques while learning about plant life cycles, biodiversity, and the importance of preserving floral ecosystems.



Various interactive activities that combine creativity and sustainability

## BEYOND ONLINE CLASSROOM

# ASRI GOES TO SCHOOL

Different from ASRI Roadshow, ASRI Goes to School took a more personal approach, bringing sustainability learning directly into schools and engaging students and teachers classroom by classroom.



ASRI Goes to School was present in various schools in Greater Jakarta (Jakarta-Bogor-Depok-Tangerang) as a learning space that invited students to explore sustainability in a close, relevant, and enjoyable way.



**SEPTEMBER TO OCTOBER 2025**

**13 SCHOOLS VISITED**



**SMAN 55 JAKARTA**



**SMAN 30 JAKARTA**



**SMAN 23 JAKARTA**



**SMAN 83 JAKARTA**



**SMAN 12 JAKARTA**



**SMAN YAPERMAS**



**SMA NEGERI 36 JAKARTA**

**4,500+** students and teachers participated

**SUPPORTED BY** cross-community and partner collaboration



A series of activities are designed so students can learn and experience sustainability practices firsthand, including:



### RECYCLE-BASED INNOVATION CHALLENGES



### THIS OR THAT EDUCATIONAL GAMES ON SUSTAINABILITY ISSUES



### BOTTLE CAP KEYCHAIN MAKING WORKSHOP

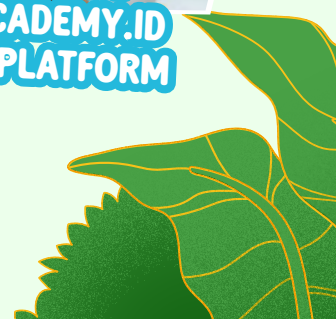
in collaboration with Warriors Action Nusantara



### EXPLORING THE LESTARIA ACADEMY.ID LEARNING PLATFORM



### VARIOUS EXCITING PRIZES



A young woman wearing a white hijab and glasses, smiling. She is standing in front of a stone wall with green plants.

# NASHA

SMAN 23 Jakarta

The socialization was really fun!  
Very interactive, the presenter was engaging,  
and the explanations were informative.  
I look forward to the next socialization!

A young man wearing glasses and a school uniform, standing outdoors. He is making a hand gesture with his fingers pointing upwards.

# AERZU

SMAN 78 Jakarta

This activity was truly relevant and  
successfully sparked my critical  
thinking, especially regarding global  
environmental issues and their impact  
on the future of the younger generation.  
I also gained valuable insights not only  
into the problems but also  
innovative and applicable  
solutions.



# ASRI

## COMPETITION 2025

opens a space for high school students and teachers to develop their sustainability ideas and projects, with a focus on three key areas:



Waste Management



Physical Well-Being



Nature Conservation

Throughout the registration period, 10 Oct - 7 Nov 2025, the ASRI Competition 2025 participation from:

**24** Provinces

**332**  
Submissions

**118**  
Schools

**264**  
Student-Led Projects

**68**  
Teacher-Led Projects

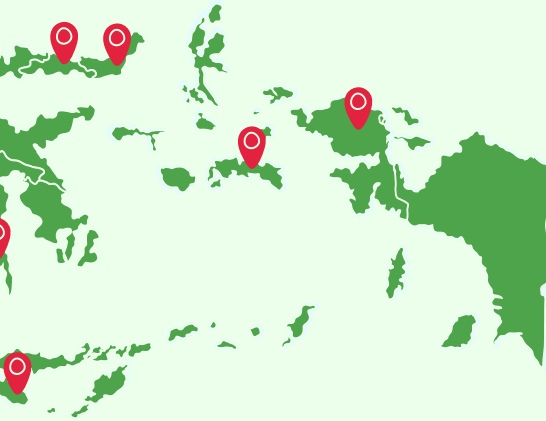


**EACH SUBMISSION REFLECTS ITS OWN CONTEXT, CONCERNS, AND PERSPECTIVE.**





# MENTORING PROGRAM



If Open Recruitment is only the starting point, then mentoring is where the growth begins.

As a key part of the ASRI Competition 2025, the first 100 participants joined mentoring sessions with selected mentors. Here, ideas and projects were not just reviewed, but unpacked, discussed, and developed further to make them more relevant and impactful.

The mentoring sessions unfolded in an open and energetic atmosphere, with participants and mentors exchanging perspectives, discussing real challenges, and exploring the most relevant paths forward.



“As a mentor, I feel grateful to see the participants slowly believe in their ideas and in themselves. Through warm talks and shared laughter, their doubts faded, and ASRI became a place where confidence could grow.”

— **Nor Qomariyah**

(Sustainability, ESG & Stakeholder Engagement Expert) —





# JUDGES EVALUATION



Reviewed by sustainability practitioners and academics with relevant expertise



Evaluating readiness, impact, and long-term potential of each idea and project



Valuing the learning process, exploration, and innovation behind the idea and project

After the mentoring sessions, each idea and project moves into the judges evaluation stage as the final step of the competition.

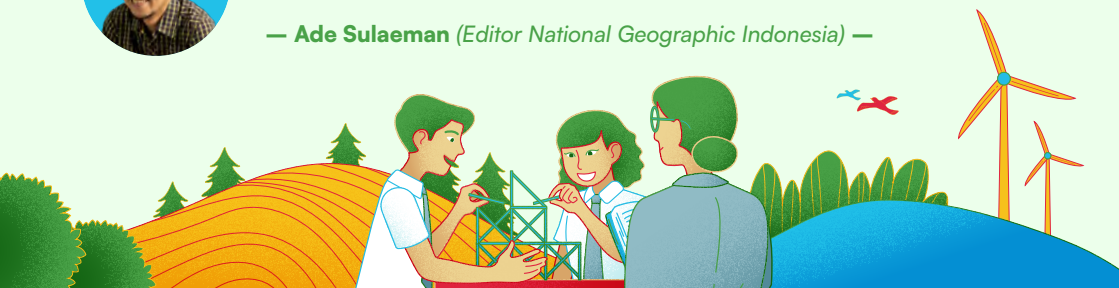


For ASRI, judges evaluation is not just about choosing the final winners, but about appreciating the learning process, the courage to explore, and the effort to turn ideas into meaningful solutions.



*“ASRI feels like a mini version of Indonesia. The winners come from many different regions, and their ideas grow naturally from the real challenges they face in their own communities.”*

— **Ade Sulaeman** (Editor National Geographic Indonesia) —



# FINAL PRESENTATION

Some participants remained fully engaged despite coming from disaster-affected areas, even choosing to evacuate in order to gain access to electricity and internet.



Participants present their ideas and projects with confidence and purpose



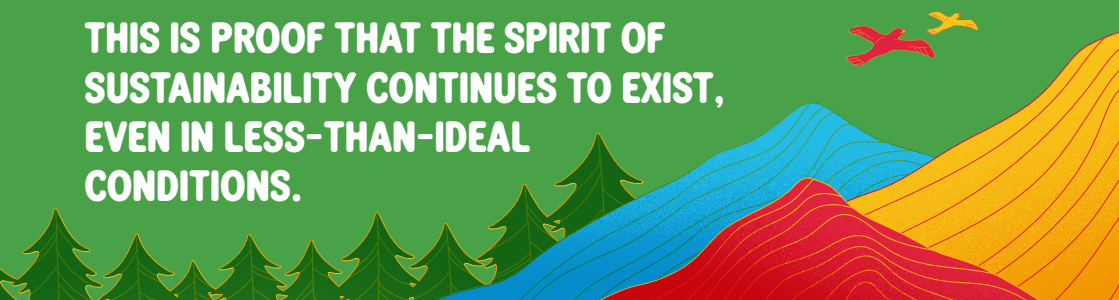
Interactive discussion with the judges through questions, feedbacks, and dialogues



Ideas are challenged, refined, and strengthened through constructive discussions that shaped the next action plan



**THIS IS PROOF THAT THE SPIRIT OF  
SUSTAINABILITY CONTINUES TO EXIST,  
EVEN IN LESS-THAN-IDEAL  
CONDITIONS.**





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From the final presentations, several submissions stood out for their clarity, impact, and potential.

*The Most Sustainable Ideas*

*Best Student-Led*

*Best Teacher-Led*



**BEST-TEACHER-LED**

ASRI Awards 2025

# WINNER

## WASTE MANAGEMENT CATEGORY

Best Teacher-Led

### COLLECTIVECO INITIATIVE (CEI)



#### Konsep 3R Al Umanaa (*SMA Al Uma'naa Boarding School*)

In a boarding school, waste is part of everyday life. Leftover meals, snack wrappers, drink bottles, day after day, adding up to tens of thousands of bags each year. A big challenge, but also a big opportunity.

This project shows a simple truth. A boarding school can be clean, fresh, and comfortable when everyone takes part. With the right system and shared spirit, change begins to feel possible.

Through CEI, waste finds a new story. Food scraps feed Black Soldier Fly maggots, eco enzyme returns as cleaning power, and useful items meet new owners at garage sales. Students run the whole cycle, learning by doing and growing together.

**SMALL ACTIONS CREATE  
LASTING IMPACT**  
**FROM ONE BOARDING SCHOOL,  
THE SUSTAINABILITY SPIRIT  
BEGINS TO SPREAD**



# RUNNER-UP

## WASTE MANAGEMENT CATEGORY

Best Teacher-Led

### BANANA STEM POC INNOVATION



#### Sri Windi Akuba (MAN 1 Gorontalo Regency)

It started with a greenhouse that had been left behind. Quiet, dry, almost forgotten as a learning space. But this team chose to see it as a chance to begin again.

Slowly, the spirit grew. Cleaning the land, caring for the greenhouse, and making POC became activities students actually looked forward to

Banana stems, so common around the school, were turned into liquid organic fertilizer (Pupuk Organik Cair/POC), about four liters every week. From simple materials, students learned to mix, experiment, and watch their own plants respond.

**A SPACE ONCE IGNORED  
BEGAN TO FEEL ALIVE  
AGAIN, CLOSER TO THEIR  
EVERYDAY WORLD.**





# WINNER

## NATURE CONSERVATION CATEGORY

Best Teacher-Led



### ECO-FRIENDLY ESSENTIAL OIL DISTILLATION TOOL

#### Eco Youth (SMAN Seribu Bukit)

In Gayo Lues, the smell of essential oil usually came with a pile of firewood. That's just how things had always been done. But the Eco Youth team started asking a simple question: what if there's a cooler way?

They built the first distillation tool in the area powered by water and used oil instead of wood. Suddenly, fewer trees were needed, emissions went down, and production costs dropped by up to 40 percent. Saving the forest and saving money at the same time? Not bad at all.

The process became more than an experiment. Students got involved, testing, fixing, and seeing how energy choices connect to the air they breathe and the hills around them.

**THIS PROJECT PROVES ONE THING. INNOVATION DOESN'T HAVE TO FIGHT TRADITION. IT CAN UPGRADE IT.**



# RUNNER-UP

## NATURE CONSERVATION CATEGORY

Best Teacher-Led



### BIO-BATTERY PROTOTYPE FROM FRUIT PEEL WASTE

**Nurlela Ramadani Marpaung (SMAN 2 Bandar)**

Fruit peels usually end their day in the trash. Used batteries, too. This team wondered, what if those “tired leftovers” could work one more shift?

From a simple experiment came a biobattery made from fruit peel waste and used batteries. It produced about 1.2 volts and could last up to seven hours. Even cooler, the idea showed potential to cut toxic waste pollution by 73 percent. Trash officially got an upgrade.

Of course, the process wasn't smooth. Some trials failed, some results were shaky, and many had to be repeated. But that was the fun part. Students began to see waste not as the end of the story, but as material for new possibilities.

**THIS PROJECT SHOWS SOMETHING SIMPLE. FUTURE ENERGY DOESN'T ALWAYS COME FROM EXPENSIVE TECH,**

sometimes it starts from the leftovers of a school snack.





# WINNER

## PHYSICAL WELL-BEING CATEGORY

Best Teacher-Led

### IRON & FOLIC ACID-RICH BISCUITS



#### Betapholus (MAN 16 West Jakarta)

In many schools, low hemoglobin levels among teenage girls often appear as silent numbers on health reports. At MAN 16 Jakarta Barat, teachers chose to read those numbers as a call to care, not just data to record.

The Betapholus team developed biscuits made from red bean flour and beetroot, rich in iron and folic acid. Each piece contains 50 mg of iron and has helped improve students' hemoglobin levels, offering support in a form that feels familiar and easy to accept.

### THE SCHOOL BECAME MORE THAN A PLACE TO STUDY LESSONS.

It turned into a space where teachers and students worked together to look after everyday well-being, one simple snack at a time.





# RUNNER-UP

## PHYSICAL WELL-BEING CATEGORY

Best Teacher-Led



### SUGAR SMART SQUAD (3S)

**Achmad Uzlul Rozik (SMK Sehat Insan Perjuangan)**

Sweet drinks are everywhere in a student’s day. Bought on the way to school, enjoyed during breaks, slowly turning into a daily habit. The Sugar Smart Squad began with a simple concern: do students really know how much sugar they consume?

Through Project-Based Learning, the program invited students to read Nutri-Grade labels, use a sugar calculator, and track their own intake. No long lectures, just hands-on activities that helped them see their choices more clearly.

The impact was real. Around 89 percent of students started to limit their daily sugar consumption. Decisions in the cafeteria changed, not because of strict rules, but because understanding began to grow.

This project shows that health awareness can be built with friendly tools and honest conversations.

**WHEN STUDENTS BECOME PART OF THE PROCESS, HABITS FOLLOW NATURALLY.**

**Hitung Total Gula dalam Kemasan**

Masukkan data dari label Informasi Nilai Gizi pada kemasan minuman

- Gula per Sajian (gram)**  
Lihat pada baris "Gula Total" atau "Total Sugar" di label.  
Contoh: 25
- Volume per Sajian (ml)**  
Lihat pada "Takaran Saji" atau "Serving Size".  
Contoh: 200
- Volume Total Kemasan (ml)**  
Lihat pada bagian depan kemasan (isi netto).  
Contoh: 500



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*The Most Sustainable Ideas*

*Best Teacher-Led*

*Best Student-Led*



**BEST STUDENT-LED**  
ASRI Awards 2025



# WINNER

## WASTE MANAGEMENT CATEGORY

Best Student-Led

### SOUNDPROOF PANELS FROM CHICKEN BONE WASTE



#### To The Bone (SMAN 9 Manado)

Some days at school feel noisy and a little uncomfortable. The smell of leftover bones from the lunch program mixed with the chatter from the next classroom, and students simply learned to live with it. Until a group of them wondered, what if those everyday problems could be turned into something better?

The To The Bone team began experimenting with the chicken bones that were usually thrown away.

Step by step, the waste became sound-absorbing panels that reduced noise by 6.7 dB. Classrooms slowly felt calmer, and focusing on lessons became easier.

The process wasn't perfect. There were messy trials, failed shapes, and long afternoons of testing. But working side by side,

**THE STUDENTS DISCOVERED THAT  
CREATIVITY GROWS WHEN PEOPLE  
CARE ABOUT THE PLACE THEY LEARN IN.**





# RUNNER-UP

## WASTE MANAGEMENT CATEGORY

Best Student-Led



### SMART-GO DIGITAL WASTE BANK PLATFORM

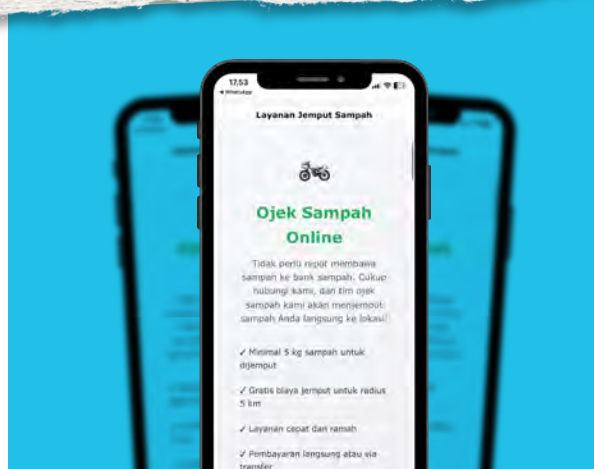
#### Smart-Go (SMKN 3 Mandau)

The school yard at SMKN 3 Mandau was already clean, but the streets outside told a different story. Piles of uncollected waste showed that the problem didn't stop at the school gate. The Smart-Go team decided to look beyond their own campus.

They built a digital waste bank platform that connects household sorting, pick-up services through local motorcycle partners, and a point-based system. Waste begins to move instead of sitting on the roadside, and every step is recorded in one simple app.

The impact reached further than expected. Parents joined the pick-up network, creating new income opportunities, and the school turned into a learning hub for the surrounding community. Clean habits slowly grew outside the classroom walls.

**THIS PROJECT SHOWS THAT WASTE MANAGEMENT IS NOT ONLY ABOUT BINS AND TRUCKS. IT IS ABOUT SYSTEMS, COLLABORATION, AND THE COURAGE TO INVITE OTHERS IN.**





# WINNER

## NATURE CONSERVATION CATEGORY

Best Student-Led



### EVASEDITOR WATER PROTOTYPE

#### SMANIKA MALVA (SMAN 1 Sumbawa Besar)

In Sumbawa Besar, water often leaves its signature everywhere, crust on kettles, stubborn soap bubbles, and that slightly rough feeling on the skin. Most people called it normal. The SMANIKA MALVA team called it a challenge.

They created Evaseditor Water, a simple distillation tool designed to separate lime from household water. The result was more comfortable water, healthier skin, better digestion, and home appliances that could finally breathe a little longer.

The prototype grew from everyday curiosity. Using evaporation and sedimentation, the students shaped an affordable device that fits real life, not just science books. Tests failed, designs changed, and the tool slowly found its form.

**CLEARER WATER,  
HEALTHIER LIVING SMALL  
TOOLS CAN BRIGHTEN  
EVERYDAY LIFE**





# RUNNER-UP

Best Student-Led

## NATURE CONSERVATION CATEGORY



### RENEWABLE ENERGY BRIQUETTES (COWFUEL)

#### MooMentum (SMAN 1 Cisarua)

The first thing people noticed was the smell. It drifted from the barns to the school yard, sneaked into the neighborhood, and slowly became part of everyday life. Instead of getting used to it, the MooMentum team decided to do something bolder.

Cow manure and leftover feed were turned into CowFuel, high-calorie briquettes ready to power daily farming needs. What used to block drains and pollute the air suddenly had a second chance as clean, useful energy.

Students didn't work alone. Local farmers joined the process, sharing knowledge and testing the briquettes together. The collaboration made the idea feel real, not just like a school experiment, but a solution owned by the community.

Little by little, the surroundings became fresher, and the barns felt less like a problem zone.

**THE PROJECT PROVED THAT CARING FOR NATURE CAN ALSO SUPPORT PEOPLE'S LIVELIHOODS.**





# WINNER

## PHYSICAL WELL-BEING CATEGORY

Best Student-Led



### GERAKAN SERDADU (SEHAT, CERDAS, BERBUDAYA)

#### Nakou (SMAN 2 Semarang)

At school, sweet drinks often win over fruit, and fried snacks disappear faster than homemade meals. For many students, that scene felt normal, just part of teenage life. The Nakou team saw it differently.

They started SERDADU, a movement built from small, everyday choices. Through simple campaigns, healthy lunch initiatives, and peer reminders, students began to rethink what they eat and how they care for themselves. Slowly, habits shifted.

The change was real. Unhealthy snack consumption dropped by around 60 percent, and a more positive school culture began to grow. Health was no longer a lecture topic, but something lived together in the corridors and the cafeteria.

This project shows that well-being doesn't always need big programs. Sometimes it starts with friends encouraging friends.

**HEALTHY CHOICES, HAPPIER DAYS  
A SMALL MOVEMENT CAN SHAPE A  
STRONGER GENERATION**





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From the final presentations, several submissions stood out for their clarity, impact, and potential.

*Best Teacher-Led*

*Best Student-Led*

*The Most Sustainable Ideas*



**THE MOST  
SUSTAINABLE IDEAS**

ASRI Awards 2025



## WASTE MANAGEMENT

The Most Sustainable Ideas

# BIODEGRADABLE CHITOSAN COMPOSITE

EchoChemistry (MAN 1 Kendari)



Food packaging is used for minutes, yet lingers for decades—traveling from streets to drains, and finally, the sea. In Kendari, this growing plastic trail exists alongside another overlooked waste: shrimp and crab shells, discarded daily without a second thought.

This quiet contradiction moved EchoChemistry, a student team from MAN 1 Kendari, to act. From marine waste, they discovered chitosan—a naturally antibacterial compound that can be transformed into biodegradable food packaging. What once burdened the ocean now holds the potential to protect it.

The project reshaped more than materials; it reshaped perspectives. Through small experiments, shared doubts, and collective learning, the team realized that environmental change does not always begin with grand technology—but with awareness, courage, and care for what surrounds us.

Still evolving, their Chitosan Composite stands as a simple reminder:

**A PLASTIC-FREE FUTURE MAY BEGIN  
NOT FAR AWAY, BUT RIGHT WHERE WE  
CHOOSE TO LOOK—WITHIN OUR  
WASTE, OUR HABITS, AND OUR HANDS.**





## WASTE MANAGEMENT

The Most Sustainable Ideas

# ANTI-PEST WOOD COATING (JEJAKA)

**Oleum Redivivus (SMAN 59 Jakarta)**



Used cooking oil at SMAN 59 Jakarta once filled the canteen drains, blocking the water and leaving a dirty trail behind. At the same time, wooden desks and chairs were slowly being eaten away by termites. Two familiar problems, often ignored because they felt too ordinary.

Through JEJAKA, the Oleum Redivivus team decided to link those issues in a creative way. They turned used cooking oil into a safe wood coating that protects furniture from termites. What used to be waste found a new role, helping keep the drains clean and the classroom furniture strong.

The journey wasn't smooth. There were failed tests, repeated adjustments, and moments of doubt. But along the way, the team began to see waste differently, not as something to throw away, but as material with hidden potential.

JEJAKA is still growing, yet it already tells an important story.

**SUSTAINABILITY OFTEN BEGINS WITH SMALL STEPS, WITH THE COURAGE TO RETHINK WHAT WE DISCARD AND GIVE IT A LONGER LIFE.**





## WASTE MANAGEMENT

The Most Sustainable Ideas

# CORNCOB BIOFOAM AS A STYROFOAM ALTERNATIVE

WarasClub (SMAN 1 Blora)



After harvest season in Blora corncobs are everywhere, stacked in yards or left by the roadside. Most people see them as leftovers with no purpose.

The WarasClub team from SMAN 1 Blora saw something different. They turned discarded corncobs into biodegradable biofoam mixed with cassava starch, a simple alternative to styrofoam that can return safely to the soil.

Through many trials the students learned to balance strength and decay, use and renewal. Waste slowly changed meaning, from something to remove into something to rethink.

**THEIR CORNCOB BIOFOAM PROVES THAT GOOD IDEAS OFTEN START CLOSE TO HOME, WITH THE COURAGE TO LOOK AT EVERYDAY LEFTOVERS IN A NEW WAY.**





## PHYSICAL WELL-BEING

The Most Sustainable Ideas

# VISIONRUN SMART GLASSES

KelompokLapan (SMAN 2 Balikpapan)



Technology often promises convenience, but not everyone gets to feel it the same way. In Balikpapan, the KelompokLapan team from SMAN 2 Balikpapan noticed a simple reality, jogging, something so ordinary, can feel risky for people with visual impairments.

That awareness led to VisionRun Smart Glasses. Using ultrasonic sensors and audio navigation, the glasses help users detect obstacles ahead, giving support for safer movement and more confident steps while walking or running.

The idea grew from listening rather than inventing. Through talks and small trials, the students learned that useful technology doesn't need to be complicated. It needs to understand the people it serves.

**VISIONRUN SHOWS THAT INCLUSION CAN START IN A CLASSROOM. EVEN A SMALL TOOL CAN OPEN A WIDER PATH FOR SOMEONE TO MOVE FREELY AND INDEPENDENTLY.**





## WASTE MANAGEMENT

The Most Sustainable Ideas

# SMARTBIOBIN

Fanny Nadia Hardjo (SMAN 1 Ciawi)



Most bins just wait in silence. They receive everything the same way, and the real sorting happens much later in the hands of cleaning staff who already have too much to do. SmartBioBin was born to move that responsibility to the very first moment.

Created by Fanny Nadia Hardjo from SMAN 1 Ciawi, SmartBioBin is an AI-powered bin that identifies waste the moment it enters. Organic waste is guided to composting, while plastic is shredded for reuse, cutting landfill volume and emissions from the very first step.

But the real strength is not only in the technology. SmartBioBin becomes a learning bridge, helping students see waste as something they are part of, not something that vanishes on its own. A simple throw turns into a conscious choice.

**THE PROJECT REMINDS US THAT SUSTAINABLE SYSTEMS BEGIN CLOSE TO OUR HANDS. EVERY SMALL DECISION CAN SHAPE WHERE WASTE ENDS UP NEXT.**





WASTE MANAGEMENT

The Most Sustainable Ideas

# MISTIK PROGRAM (TURNING OIL INTO ELECTRICITY)

AAAAQ Research 19 (MAN 19 South Jakarta)



The classroom lights faded, not from a blackout, but from too many plugs working at once. Chargers, fans, and daily gadgets quietly drained the power. That moment made AAAAQ Research 19 from MAN 19 South Jakarta ask a simple question: could energy come from something closer?

They found the answer in used cooking oil from canteens and homes. Through the MISTIK Program, the oil became aromatherapy candles, and the heat from those candles was turned into electricity with thermoelectric tech. Waste turned into warmth, and warmth turned into power.

The path wasn't smooth, mixing formulas, testing heat, trying again and again. When a small device finally charged, the team knew their idea had a future.

**MISTIK INVITES US TO LOOK AT  
EVERYDAY LEFTOVERS WITH NEW EYES.**

**A SMALL SPARK OF  
CURIOSITY CAN LIGHT A  
DIFFERENT WAY FORWARD.**





## WASTE MANAGEMENT

The Most Sustainable Ideas

# MODULAR PASSIVE-FLOW BIOHYBRID RAFTS FOR RIVER DETOXIFICATION

Green4ce (MAN 4 Jakarta)



Every morning, students walk past a small branch of the Ciliwung River. The water looks cloudy, the smell is familiar, and soon the day moves on as if nothing happened.

The Green4ce team from MAN 4 Jakarta decided to stop walking past it. Instead of searching for distant solutions, they worked with what was already in front of them. They created Modular Passive-Flow Biohybrid Rafts, floating structures made from coconut fiber that host natural microbes to help filter household waste carried by the river.

The rafts need no electricity or complicated machines. They simply follow the current, quietly supporting the river as it cleans itself.

**THE DESIGN IS AFFORDABLE, EASY TO REPAIR, AND OPEN FOR THE COMMUNITY TO TAKE PART.**



## NATURE CONSERVATION

The Most Sustainable Ideas

# SOLAR-POWERED IOT-BASED HYDROTECH SYSTEM

Vanguard (SMAN 1 Kedamean)

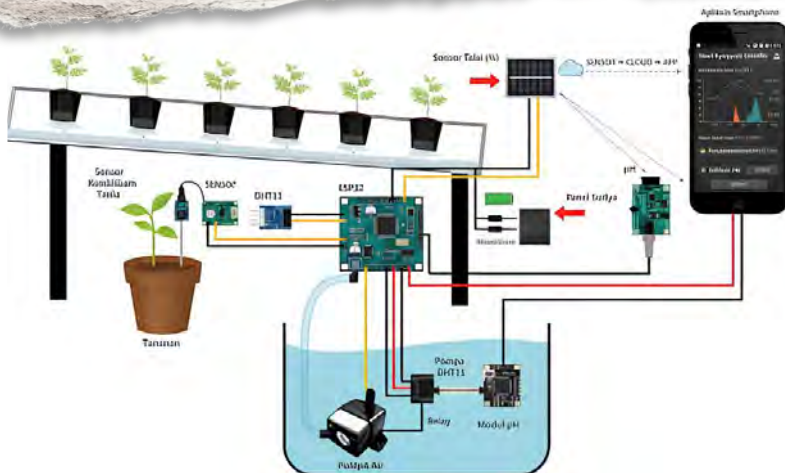


At the School Food Care garden of SMAN 1 Kedamean, soil and water are part of everyday learning. They grow vegetables, keep fish alive, and teach students about responsibility. For a long time, their condition was checked manually, often too slowly to respond in time.

The system runs on sunlight, blending technology with the natural cycle around it. It doesn't replace human care, it helps students pay better attention.

Vanguard introduced a solar-powered IoT Hydrotech System to change that rhythm. Sensors now read rainfall, temperature, soil moisture, and water pH, sending simple updates through an app. Watering and pond care can be decided with clearer information instead of guesswork.

**WHERE IDEAS GROW, PROJECTS TAKE SHAPE, AND SUSTAINABILITY FEELS CLOSER**





# ASRI AWARDS 2025

More than a celebration, it is a moment of appreciation—because today’s good actions shape our future.



**ASRI AWARDS 2025 CELEBRATES THE WORK, COLLABORATION, AND CONCRETE ACTIONS THAT ADVANCE SUSTAINABILITY IN EDUCATION.**

Bringing together students, teachers, stakeholders, and partners, the event creates a shared space for appreciation and reflection.

**AS THE CULMINATION OF THE ASRI JOURNEY IN 2025.**

the Awards honor ideas, processes, and real actions that have made a positive impact on the environment and communities, marked by the announcement of this year’s award recipients.



# STORIES FROM ASRI 2025

# PARTICIPANTS



## SAID IDRUS

(SMAN SERIBU BUKIT - ACEH)

"Being selected as one of the top finalists in the ASRI Competition series leading up to ASRI Awards 2025 has been a true honor and a deeply meaningful experience for me. Every stage of the journey was filled with challenges, learning, and inspiration, making this achievement a strong motivation to keep growing and creating."



## NURLELA RAMADANI MARPAUNG

(SMA NEGERI 2 BANDAR - SUMATERA UTARA)

"Joining ASRI Awards 2025 was a truly proud and meaningful experience, especially because it connected me with inspiring teachers from across Indonesia. Starting from our concern about waste issues at school, my students and I developed the Biobattery project using fruit peels as a renewable energy source, which was later recognized as the Runner-Up in the Nature Conservation category. This competition opened new opportunities for us to build connections and continue growing the Biobattery project. More than that, ASRI Awards brought a real impact by increasing environmental awareness within our school community. Thank you, ASRI Awards 2025, for continuing to inspire teachers and students."



## ZULFIKAR

(SMANIKA MALVA TEAM)

"Thank you to the ASRI Competition. Through this competition, we learned so much and began to shape our mindset as young researchers. With the guidance, feedback, and insights from the mentors and judges, we realized that being a researcher is not about feeling satisfied with the results, but about continuously learning and developing ideas creatively. This journey has made us more sensitive to the issues around us and encouraged us to look for solutions that bring positive impact, starting from simple actions to having the courage to create tools that are more sustainable and responsible."



# ASRI 2026

In 2026, ASRI moves forward with a clear mission:

**EXPANDING SCHOOL OUTREACH, STRENGTHENING  
REAL-WORLD IMPACT, AND SUSTAINING PROJECTS.**

By collaborating with schools, educators, industry partners, and young changemakers, ASRI continues to turn sustainability learning into collective action that lasts.

- **WHAT STAYS: ACTION-BASED LEARNING, MENTORING, AND REAL PROJECTS**
- **WHAT GROWS: REACH, PARTNERSHIPS, PROJECTS CONTINUITY AND DEPTH OF IMPACT**



# FOUR NEW COURSES.

Designed to equip students with skills, mindset, and confidence to act—inside school, beyond the classroom, and into the future.

## STRONG MIND: BUILDING MENTAL RESILIENCE

'Healthy minds grow sustainable actions.'



Help students understand their mental health, manage stress and eco-anxiety, and build emotional resilience in a safe, inclusive school environment.

- MINDFULNESS, GROUNDING & EMOTIONAL REGULATION
- ANTI-BULLYING & DIGITAL WELL-BEING
- SUPPORTIVE SCHOOL CULTURE

## GREEN FUTURE: JOURNEY INTO RENEWABLE ENERGY

'From learning energy, to creating energy change.'



Explore renewable energy through real-world examples—from solar and wind to bioenergy, SAF, and hydrogen—while designing small-scale green projects at school.

- ENERGY TRANSITION & CLIMATE ACTION
- INDONESIA'S RENEWABLE JOURNEY
- YOUTH-LED INNOVATION

## EMPOWERING THE GREEN WORKFORCE OF TOMORROW

'Not just choosing a job—finding your role in the green future.'



Introduce students to green jobs, emerging skills, and career pathways Aligned with Indonesia's sustainability transition.

- GREEN SECTORS & FUTURE SKILLS
- INDUSTRY INSIGHTS & REAL CAREER STORIES
- PERSONAL GREEN CAREER MAPPING

## SPEAK UP FOR THE PLANET: GREEN COMMUNICATION

'Because impact grows when stories travel.'



Equip students to communicate sustainability with clarity, empathy, and integrity—transforming ideas into messages that inspire action, not noise

- STORYTELLING FOR BEHAVIOR CHANGE
- SOCIAL MEDIA WITH PURPOSE
- ETHICAL, CREDIBLE GREEN COMMUNICATION



# THE STORY BEHIND THE COLLABORATION

ASRI has grown not because of one big idea, but because many people chose to move together.

From classrooms and communities to creative spaces, and industries, each collaboration brought a new perspective, real action, and shared commitment.

What we built together goes beyond programs and events. It became learning spaces, ongoing projects, and opportunities for students and educators to turn ideas into impact.

**THIS JOURNEY CONTINUES AND THERE IS STILL SO MUCH MORE WE CAN CREATE,**

## WHAT WE BUILT THROUGH COLLABORATION

- LEARNING MODULES BROUGHT TO LIFE IN SCHOOLS
- SUSTAINABILITY PROJECTS ROOTED IN SCHOOLS & PUBLIC SPACE
- SPONSORSHIP & PARTNERSHIP
- CROSS-SECTOR MENTORING AND INDUSTRY EXPOSURE
- COMMUNITY NETWORKS EXPANDED TO SCALE EVERYDAY SUSTAINABILITY ACTION



# STORIES FROM THE COMMUNITY



## BENEDICT WERMTER

### ALSO KNOWN AS “BULE SAMPAH”

“It was amazing to produce the videos for the workshop together with ASRI at Kompas' studios. It is an honour to work with such a professional team combining waste education with video production expertise. I am excited that the workshop featuring Bule Sampah resonates with the audience generating large reach and making an impact on our youth.”



## VERITAS EDUKASI LINGKUNGAN (VEL)

“I am amazed to see that VEL and ASRI sit in the same boat steering the transition of Indonesia's youth to become clean. It needs an army or behaviour change initiatives like VEL and ASRI. Therefore, the VEL team is glad to have found reliable and meaningful partners and we believe that together we can create more demand in the Indonesian society to grow grassroots movements copy pasting our approach.”



# PARTNERS WHO MADE THE IMPACT POSSIBLE





# BE PART OF THE ASRI 2026 JOURNEY



Because shaping the future takes continuity, not one-time action.

ASRI 2026 is an invitation to keep building impact

**FOR STUDENTS, COMMUNITIES, AND  
THE FUTURE WE SHARE.**





A sustainable future is born from learning, dialogue, and collaboration spaces.

## LET'S CREATE IT.



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