

# SEMAR UGM Cars Win Double in Energy-Efficient Car Competition

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Semar UGM team has won again awards in automotive competitions for Indonesian students. In *Energy-Efficient Car 2019 (KMHE)* competition held by Higher Education Directorate General in Universitas Negeri Malang, East Java, from 24 - 28 September 2019, Semar UGM became the winner of the Urban Gasoline and eco race categories.

“The Semar UGM team has sent two energy-efficient cars to the event, namely Semar Urban Gasoline and Semar Proto Electric,” Azza, non-technical manager of the team on Monday (30/9).

Azza said the Semar Urban Gasoline car had reached a mileage of 385 km/lt of fuel. It is like a 4-wheel city car on 4-stroke machines using gasoline with the 110 cc capacity. It uses sophisticated fuel induction technology to regulate the outburst and amount of fuel to be injected into the machine.

Driven by Mechanical Engineering student, Wahyu Santoso, the car’s body is super light using Carbon Fiber Composite and aluminum chassis.



“It’s the combination of efficient machine technology and super light weight body that made SEMAR Urban Gasoline car the winner of Urban Gasoline category in the competition,” said Fikri, chairman of Semar UGM team. The competition was joined by 45 universities that sent 62 teams with 80 car units.

He added that the UGM team also joined the prototype category competition with their Semar Proto Electric cars. Semar Proto Electric uses low power with super efficient controller that has been developed by the team and Lab I-Green under the guidance of Dr. Eka Firmansyah. The three-wheeled car was able to reach a mileage of 297/kWh, but unfortunately was disqualified due to electric wiring errors.

The competition this time has a new category, eco race. Eco race tested the fastest and most energy efficient car to do a 6-lap race. Three winners of urban in all categories using gasoline, etanol, electricity and diesel, took part in this event. And once again, the Semar Urban Gasoline car driven by Zein Nurrahman won the eco race in just 9 minutes and 23 seconds using 34 mL of fuel.

Dr. Jayan Sentanuhady, the team supervisor, expressed appreciation over the achievement.

“This is extraordinary, the UGM students can get a double strike. It’s rare. I think this is the result of the hard work of the team that had worked night and day to prepare for the competition,” said the Mechanical Engineering lecturer who also chairs the UGM’s Automotive Innovation Centre.

Jayan added the biggest challenge facing Semar UGM next is the *Shell Eco-Marathon 2020* to be held in Sepang, Kuala Lumpur, and *Driver’s World Championship* in Europe.

“Those will be tougher and more challenging because the teams to compete are the best ones who come from around the world,” he said.

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