

The FEV Powertrain Development Award

This award is intended to reward the top three SAE Formula SAE teams for overall excellence in Powertrain development. As such, it considers aspects such as performance, fuel economy, endurance and cost in determining a winner. It is FEV's intent to make this a quantitative award that closely parallels the real-world development environment. For this reason, FEV has determined that the current Formula SAE scoring system will be used as the basis for the award, with the application of appropriate weight factors. This achieves several goals:

1. It uses a quantitative scoring system that is already well known and tested.
2. It emphasizes the elements that are most important in the development of a powertrain.
3. It provides the engineering student and FSAE team with an "equation" that can be optimized, much like the product attribute decisions that today's powertrain designers and developers must make in the conduct of their day-to-day activities.

Scoring

For the purposes of this award, FEV will apply weight factors to the SAE scoring system as follows:

Attribute	Cost	Acceleration	Endurance	Fuel Economy	Total
Max SAE Pts.	100	75	350	50	575
FEV Weight Factor	2.00	2.67	0.57	6.00	
Max FEV Pts.	200	200	200	300	900

Prizes

The first place team will receive a prize of	\$1,250
The second place team will receive a prize of	\$500
The third place team will receive a prize of	\$250