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https://www.ford.com/powertrains/ecoboost/

EcoBoost[®]

EcoBoost engines combine three technologies-turbocharging, direct fuel injection and twin independent variable camshaft timing (Ti-VCT)—for power and efficiency.



Explore 2019 Mustang

MPG EPA-estimated rating of 21 city/31 hwy/25 combined mpg*

EPA-estimated range of 388 miles**

Average Annual Fuel Cost As little as \$1,550 annually†

Average cost to go 25 miles \$2.60†

Average Range

*Disclosures

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Here's How it Works

A lot goes into $\mathsf{EcoBoost}^{\mathbb{R}}$ performance. For example, hundreds of thousands of lines of computer code and related parameters are adjusted to optimize the engine and transmission operation.



Twin Independent Variable Camshaft Timing (Ti-VCT)

Ti-VCT adjusts the opening and closing of both the intake and exhaust valves continuously during engine operation. The timing is controlled to maximize the torque and power at peak demand and to minimize fuel consumption during part load operation.



Turbocharged Performance

Energy from the $\mathsf{EcoBoost}^{\mathbb{R}}$ engine exhaust that would otherwise be wasted rotates a turbine. The turbine is coupled to a compressor that pressurizes incoming air into the combustion chambers, generating a virtually instantaneous surge of on-demand power, significantly increasing output per liter.



Direct Fuel Injection

Direct injection delivers a precise amount of fuel in a fine mist directly into the combustion chamber to maximize the power output.

Ford Models with this Technology

Fiesta >	Fusion >	Mustang >	Escape >
Edge >	Flex >	Explorer >	F-150 >
EcoSport >	Expedition >		
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