

<http://manualplace.com/download/mazda-skyactive-engine-information/>

What's all this **Skyactiv**

nonsense anyway?

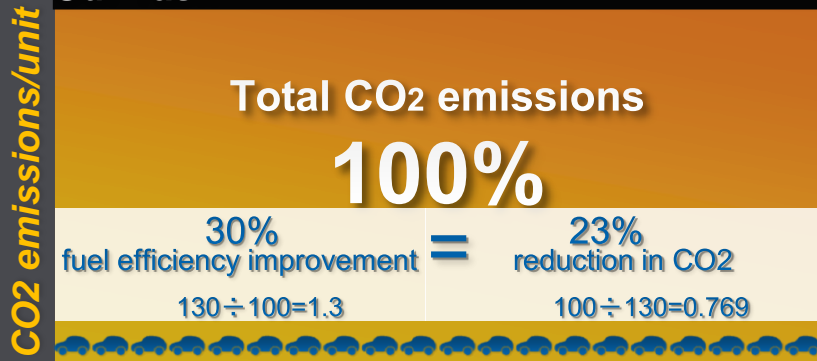


Dave Coleman

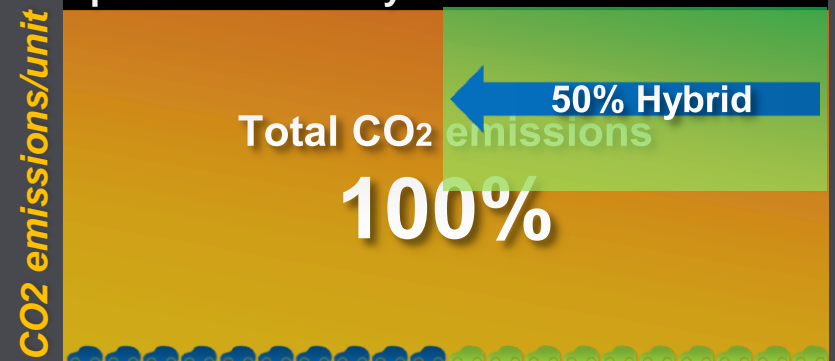
Manager, Vehicle Evaluation and Technical Communication

**This is the cut pages sample. Download all 57 page(s) at: [ManualPlace.com](http://ManualPlace.com)**

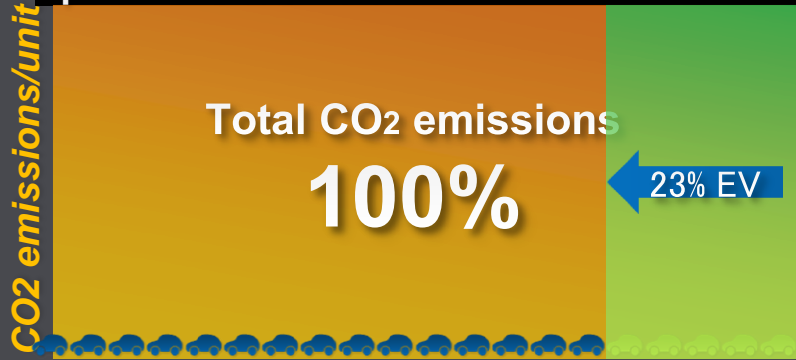
### Our Task



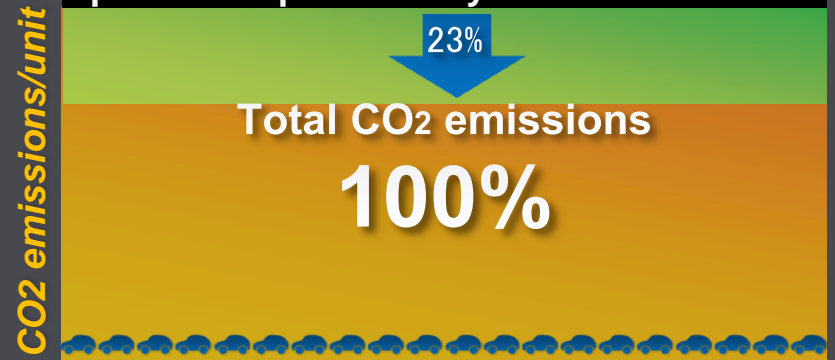
### Option 1: Bet on hybrids



### Option 2: Bet on electric



### Option 3: Improve every car we sell



# Development starts with a clean slate



B6 Engine → BP Engine → MZR Engine

FS Engine

KL V6 Engine → Cyclone V6 Engine

Skyactiv-g

Skyactiv-d

Skyactiv-chassis

Skyactiv-Body

Skyactiv-Drive

Skyactiv-mt



1983



FNR-series AT

1980



G-series MT

F-series MT

AA6 MT

## Contributors to 30% improvement

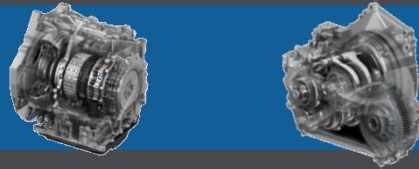
### Engine



SKYACTIV-G  
SKYACTIV-D

15%  
20%

### Transmission



SKYACTIV-drive SKYACTIV-MT

4-7%  
1%

### Weight Reduction



SKYACTIV-Body & Chassis

3-5%

### Synergies, model substitution and nit picking

Enough%

**Total 30%**

## *Each new model will be at least 100kg lighter than its predecessor*

### Development targets

- Increase rigidity 30%
- Reduce weight 8%
- Top crash safety performance



### Weight loss strategy

- Efficient structure
- High-tensile steel (no exotic materials yet)
- Common body structure concept across many models