Innovation for Our Energy Future

P-20 Urea/Ammonia Distribution Optimization in an SCR Emission Control System Through the Use of CFD Analysis



Gi-Heon Kim, Matthew Thornton National Renewable Energy Laboratory

Light Duty Biodiesel Project Overview

 Evaluating the impact of biodiesel on future engine and emission control system performance

ECS configurations and set-up in test cell and on vehicle



Mercedes C200 CDI



Innovation for Our Energy Future

Objectives

- Develop a 3 dimensional CFD model which can properly address urea/ammonia distribution for SCR system performance prediction
- Optimize system design & parameters for test cell set-up

