# Results of HEVTECA Total Energy Simulations: Petroleum Use per Mile

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| | Petroleum: Grid Independent | | | | Petroleum: Grid Connected | | | |
|---|---|---|---|---|---|---|---|---|
| | FC | VC | VO | Total | FC | VC | VO | Total |
| **Cold-started NYCC** | | | | | | | | |
| CV | 299 | 137 | 11,000 | 11,436 | 299 | 137 | 11,000 | 11,436 |
| LW CV | 285 | 159 | 10,500 | 10,944 | 285 | 159 | 10,500 | 10,944 |
| IND2 Pb-acid | 109 | 115 | 4,021 | 4,246 | 99 | 115 | 3,595 | 3,809 |
| CON2 Ni-MH | 115 | 119 | 4,216 | 4,450 | 82 | 119 | 2,855 | 3,055 |
| **Cold-started FUDS** | | | | | | | | |
| CV | 153 | 137 | 5,634 | 5,924 | 153 | 137 | 5,634 | 5,924 |
| LW CV | 136 | 159 | 5,000 | 5,295 | 136 | 159 | 5,000 | 5,295 |
| IND2 Pb-acid | 78 | 115 | 2,861 | 3,054 | 69 | 115 | 2,503 | 2,688 |
| CON2 Ni-MH | 81 | 119 | 2,989 | 3,190 | 53 | 119 | 1,809 | 1,981 |
| **Cold-started REP05** | | | | | | | | |
| CV | 108 | 137 | 3,955 | 4,200 | 108 | 137 | 3,955 | 4,200 |
| LW CV | 91 | 159 | 3,348 | 3,597 | 91 | 159 | 3,348 | 3,597 |
| IND2 Pb-acid | | | | | | | | |
| CON2 Ni-MH | 90 | 119 | 3,304 | 3,513 | 66 | 119 | 2,273 | 2,458 |
| **Hot-started NYCC** | | | | | | | | |
| CV | 299 | 137 | 11,000 | 11,436 | 299 | 137 | 11,000 | 11,436 |
| LW CV | 285 | 159 | 10,500 | 10,944 | 285 | 159 | 10,500 | 10,944 |
| IND2 Pb-acid | 109 | 115 | 4,021 | 4,246 | 99 | 115 | 3,595 | 3,809 |
| CON2 Ni-MH | 115 | 119 | 4,216 | 4,450 | 82 | 119 | 2,855 | 3,055 |
| **Hot-started FUDS** | | | | | | | | |
| CV | 153 | 137 | 5,634 | 5,924 | 153 | 137 | 5,634 | 5,924 |
| LW CV | 136 | 159 | 5,000 | 5,295 | 136 | 159 | 5,000 | 5,295 |
| IND2 Pb-acid | 78 | 115 | 2,861 | 3,054 | 69 | 115 | 2,503 | 2,688 |
| CON2 Ni-MH | 81 | 119 | 2,989 | 3,190 | 53 | 119 | 1,809 | 1,981 |
| **Hot-started REP05** | | | | | | | | |
| CV | 108 | 137 | 3,955 | 4,200 | 108 | 137 | 3,955 | 4,200 |
| LW CV | 91 | 159 | 3,348 | 3,597 | 91 | 159 | 3,348 | 3,597 |
| IND2 Pb-acid | | | | | | | | |
| CON2 Ni-MH | 90 | 119 | 3,304 | 3,513 | 66 | 119 | 2,273 | 2,458 |

Data used for generating the two charts in Jan. 1997 HEVTECA Presentation