



# GreenNY

## Fuel-Efficient Vehicles



### Why buy or lease a fuel-efficient vehicle?

- Fuel efficient vehicles have lower operational costs than traditional gasoline cars and depending on electricity prices, battery electric vehicles (BEVs) and plug-in hybrids (PHEVs) can be much cheaper.
- New York State set a target for 25 percent of its non-emergency light duty fleet purchases to be zero emission vehicles by 2025. To achieve this, State fleets must acquire and deploy growing numbers of PHEVs, BEVs, and potentially, fuel cell vehicles (FCV), when available.
- The State is committed to reducing both its greenhouse gas emissions by 40 percent from the 1990 levels and its total carbon emissions by 85 percent by 2050. The transportation sector is responsible for the largest amount of greenhouse gas emissions and using more fuel efficient vehicles, including in State fleets, is vitally important for lowering these emissions.
- Many agencies are already successfully deploying fuel efficient and alternative fuel vehicles.

### How to choose the right vehicle for your needs?

It is best to first consider how the vehicle will be used to determine which type of fuel efficiency is most appropriate. Each type of vehicle has differing strengths, so fleet managers should consider usage for each vehicle purchased to choose the technology that best fits the fleet's needs.

- **Traditional Hybrids** feature a gasoline engine, supplemented by a small electric motor powered by regenerative braking and do not need to plug in. They are best for long trips (greater than 50 miles).
- **Plug-In Hybrid Electric Vehicles (PHEVs)** use an electric motor for a limited range (up to 53 miles) when the battery is fully charged, then automatically switch to gasoline; need to plug in to charge and gain the most benefits. PHEVs are best for traveling shorter distances (30-50 miles), but do not need to be limited to short range travel.
- **Battery Electric Vehicles (BEVs)** exclusively use an electric motor and have a range of up to 250 miles; must plug in to charge and operate vehicle. BEVs are best for short trips (under 50 miles) with a dedicated place to plug in.

### When is the best time to buy a fuel-efficient vehicle?

Whenever you need a new vehicle! Your fleet business plan should incorporate fuel efficient vehicles each year along with your other vehicle purchases. In addition, check the Database of State Incentives for Renewables and Efficiency website at <http://www.dsireusa.org/> to see if there are State or federal incentives available to lower the price.

### How do state agencies procure fuel-efficient vehicles?

To comply with Executive Order No. 4, all passenger vehicles must meet specific requirements. For more information, visit: <https://ogs.ny.gov/greenny/passenger-cars>

You can purchase fuel efficient vehicles in the same manner as traditional vehicles, using the New York State Vehicle Marketplace: <https://vehicles.nyspro.ogs.ny.gov>.

In addition, the Department of Environmental Conservation and the Office of General Services occasionally organize aggregate purchases of fuel efficient vehicles to lower the price for all purchasers. To find out if there is an aggregate purchase taking place when you are ready to buy, please contact:

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## State Agencies are Going Electric!

### This year alone, several agencies have purchased Electric Vehicles:

- The Department of Environmental Conservation purchased four Chevy Volt PHEVs for their fleet in 2016. This represented all of their light-duty sedan purchases for that year.
- The New York Power Authority added 10 Chevy Volts to their fleet.
- The Office of General Services added two Chevy Volts to their fleet.
- The Office of Parks, Recreation, and Historic Preservation added two Chevy Volts to their fleet.

