TOYOTAs Environmental Challenge

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Environmental Challenge 2050

- New Vehicle Zero CO₂
- Life Cycle Zero CO₂
- Plant Zero CO₂
- Minimized Water Usage
- Recycling based Society
- Harmony with the Nature
Drivetrain strategy

- **BEV DOMAIN**
  - Small home-delivery vehicles
  - Personal mobility
  - Electricity

- **HEV/PHEV DOMAIN**
  - Short-distance use
  - Passenger cars

- **FCEV DOMAIN**
  - Full-size trucks
  - Delivery trucks
  - Route buses

- **FCEV (BUS)**
  - Hydrogen
  - TRAVELING DISTANCE

- **BEV**
  - Engine
  - Fuel
  - Battery

- **HEV**
  - Generator
  - Fuel
  - Battery

- **PHEV**
  - Engine
  - Fuel
  - Battery

- **FCEV**
  - FC (Fuel Cell)
  - Hydrogen Tank
  - Battery
Development of “Hydrogen Society”

- Mirai Production 30,000/yr (2020)
- Usage of TOYOTA Group synergies including Busses, Trucks, Forklifts, stationary Systems

**TOYOTA**
- Hydrogen Bus

**TOYOTA – Project Portal**
- H₂ Truck @ LA Port

**Toyota Material Handling**
- H₂ Forklift

**Aisin Seiki**
- H₂ systems for domestic use