

City of Liberty

City Engineers

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City of Liberty



City of Liberty's Birth

- Our mayor's great grandmother dreamed of having a city independent of the foreign oil supply.**
- She had witnessed several wars that were based on foreign oil trade.**

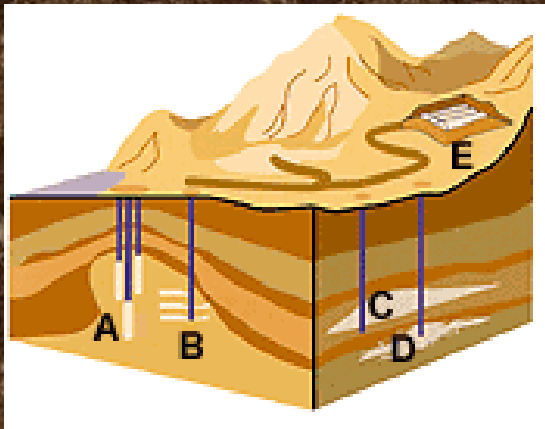
City of Liberty's Energy System

- **It provides a steady flow of energy independent of other countries fuel supplies. (This means that we only depend on our own supply of fuel.)**
- **Our energy system is a solid oxide fuel cell system.**
- **Fuel cells are very clean because they reduce air pollutants since the combustion process is not used.**
- **The solid oxide fuel system can turn our non-renewable natural gas into renewable fuel.**

City of Liberty's Fuel Supply

Our main source of fuel is natural gas.

Storage: Salt caverns are used to store the natural gas. In the caverns it is hard for the gas to escape and pollute our air.

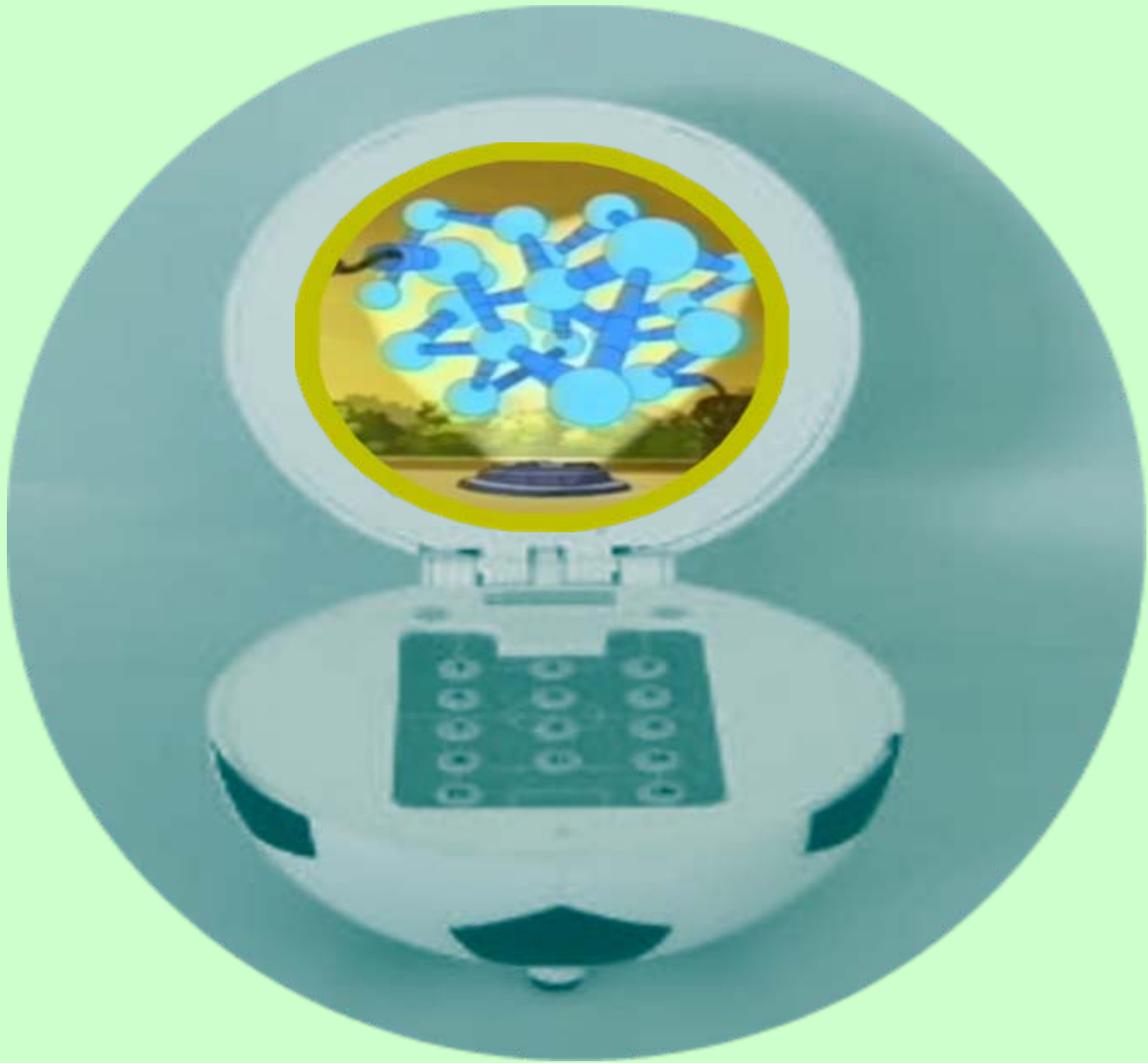


Landfill supply: Our alternative fuel is methane, which comes from the landfill. This process is favorable to our environment because it reduces the emission of methane in the air.



How the City of Liberty is Powered

- **Our solid oxide fuel cell power plant is able to provide enough kilowatts for our entire city.**
- **In case of emergencies, we have 14 solid oxide fuel cells units placed in buildings throughout the whole city.**



City of Liberty's Communication System

- The HCS (Holographic Communication System) uses specialized phones for its communication system.
- HCS phones are in the shape of a ball. They open when accessed. The person you are talking with will pop up as a hologram, allowing you to talk to him or her face-to-face.

City of Liberty's Communication System

- **The HCS phone system allows you to check your e-mail from any place in the world.**
- **It protects your computer from viruses and invaders that want to harm your computer.**
- **It has packet switching capabilities. This means that the data has multiple paths to flow. Therefore, several phone calls can occupy the same space.**

Using Solid Oxide Fuel Cells' By-Products in our Transportation System



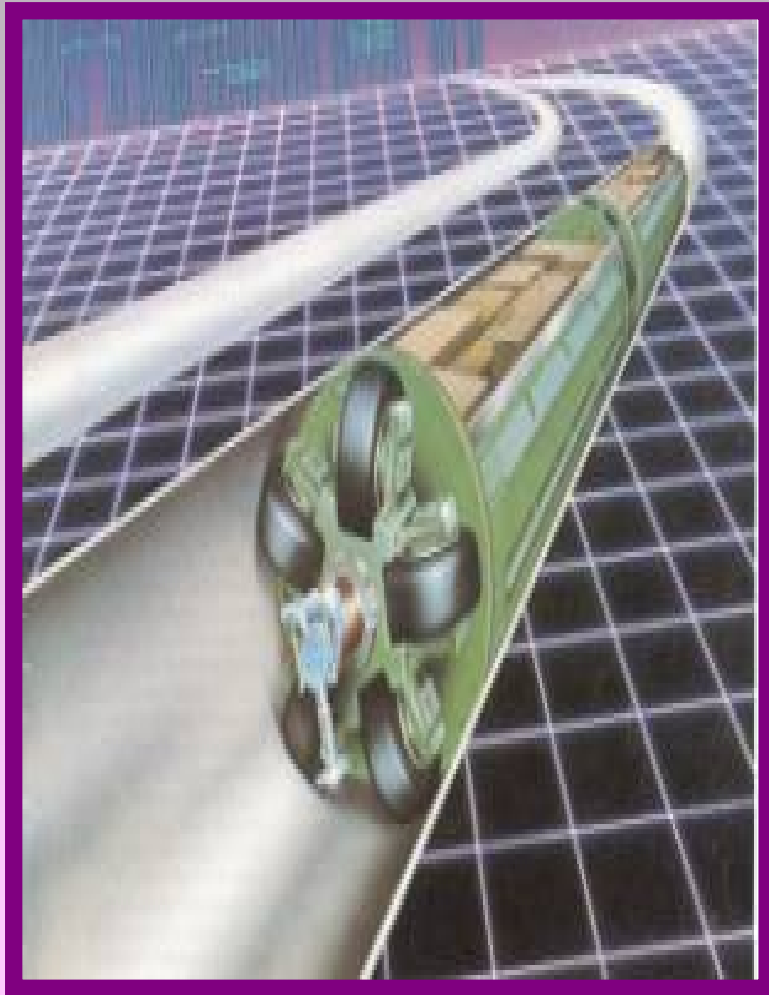
PASSENGER VEHICLES

- Vehicles are powered by steam that is the by-product of the fuel cell system.
- The vehicles receive the steam through an underground pipeline system.
- Vehicles are equipped with dual power systems that allowed them to be powered by the steam or electricity.

City of Liberty's Mass Transportation System

- **Our Hi-Speed Air Train (HSAT) System provides transportation for our city.**
- **It is powered by solid oxide fuel cells that are on-board each vehicle. Since the cells produce steam also, they provide the cooling system for our customers during warm weather.**
- **It is an elevated system that also provides a quiet ride even at hi-speed.**
- **Since HSAT is fully powered by fuel cells, it does not pollute the air.**

City of Liberty's Freight Transportation



- **Capsule (Wheeled) pipelines are used to transport freight such as mail, parcels, grains and other products.**
- **The steam from the solid oxide fuel cells provides the energy for the turbines that move the capsules through the pipeline.**
- **They reduce traffic congestions because less freight trucks are used.**



*City of Liberty is a wonderful place to
make your home.*

It has a worry free-environment.