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FUTURE ENERGY CHICAGO SIMULATION

Future Energy Chicago engages guests in state-of-the-art, multi-player simulation, based on real-world data, to find solutions to our city's energy challenges.

The simulation game inspires guests to work together in teams of up to six players to envision Chicago's energy future, while an MSI facilitator rotates the teams through five stations.

At each station, players will design a different element of a more energy efficient Chicago—a future car, house, neighborhood, transportation system, and future power for the city. The games combine digital media with three-dimensional displays that enhance the realism of the simulation. The goal? To maximize energy efficiency while considering the various pros and cons of each choice that's made. Along the way, new constraints and opportunities appear, causing guests to evaluate their current choices. A colorful and dynamic 24-foot wide scoreboard keeps track of each team's progress via virtual "energy points."

Future House

All parts of a house—as well as the things inside of it—use energy, so a combination of choices and technologies can make homes a lot more energy efficient.

Take on the role of an energy consultant with the Future House component. Discover what is most efficient in the home—inside and out—by changing computers, windows, and even roofing. You can select options like lights, appliances and televisions, including both products on the market and cutting-edge technologies. Using pro and con lists that reflect costs, lifestyle benefits and energy use, you will optimize a home that is energy efficient and comfortable.

Future Car

Cars use a lot of energy and different technologies have trade-offs, so a combination of energy-saving choices can make cars more efficient, while still meeting functional transportation needs.

Think like an automotive engineer when playing in the Future Car simulation. Design energy-efficient vehicles that leave today's cars in the dust. Choose between engine types, body materials and transmission options, and discover the possible energy impact of personal accessories like heated seats, stereo systems and paint color. You'll see your automobile built before your eyes, as the choices you make are projected in real time onto a three-dimensional car model. Once you have designed a car you like, discover how energy efficient it really is in a test drive, and re-evaluate your choices to improve your car even further. Put the car to its final test in the Road Rally down an animated Lake Shore Drive and see if your car can outlast the vehicles commonly driven today.

Future Neighborhood

Bringing the places we go frequently closer together can reduce the need for car travel and the amount of energy we use.

You'll take on the role of an urban planner in Future Neighborhood by designing a neighborhood that's walkable, energy effi-

cient and fun to live in. When a business is selected, see how far people must travel to reach it; the further people need to go to reach their favorite places, the more time they spend in energy-wasting cars. By arranging a mix of residential spaces and public places like schools, stores and hospitals close together, watch as fewer cars appear on the roads and more pedestrians fill the sidewalks. Players can make the neighborhood even more energy-efficient by stacking businesses on top of each other, lowering the consumption of any individual element in a building and creating space for more amenities that make the neighborhood a nice place to live.

Future Transportation

Building good public transit networks gets people where they want to go quickly, reduces cars and traffic on the roads and saves substantial amounts of energy.

Looking at a bird's eye view of Chicago and the surrounding suburbs, take on the role of transportation planners. Re-invent the public transit system by building a network of buses, trains, and protected bike paths that efficiently connect the Chicago region and take energy-wasting cars off of the road. Work together to find the best transportation options and create a network that eliminates traffic jams, connects important destinations and delivers the people of Chicago where they need to go.

Future Power

We always need a mix of power sources to provide enough power for Chicago. Each power source comes with consequences and considerations.

Work as power engineers in Future Power, the only Future Energy game where energy is generated, and not saved. You'll choose the power sources that fuel Chicago. Pro and con lists provide an in-depth look at the sources behind everyday energy consumption—like natural gas, coal, nuclear, wind—and help you choose options that balance high energy output with low pollution emissions. As the simulation moves towards the future in later rounds of the game, you must contend with stricter pollution limits, and new technologies like biofuels and solar power become more viable. You'll see your choices reflected in real time on a three-dimensional model of downtown Chicago, which lights up with your energy color as you power the city.

The *Future Energy Chicago* simulation game is not included in Museum Entry and requires an additional timed-entry ticket that can be included in a Museum Explorer ticket package. Visit msichicago.org for more information about session times and purchasing tickets.

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