

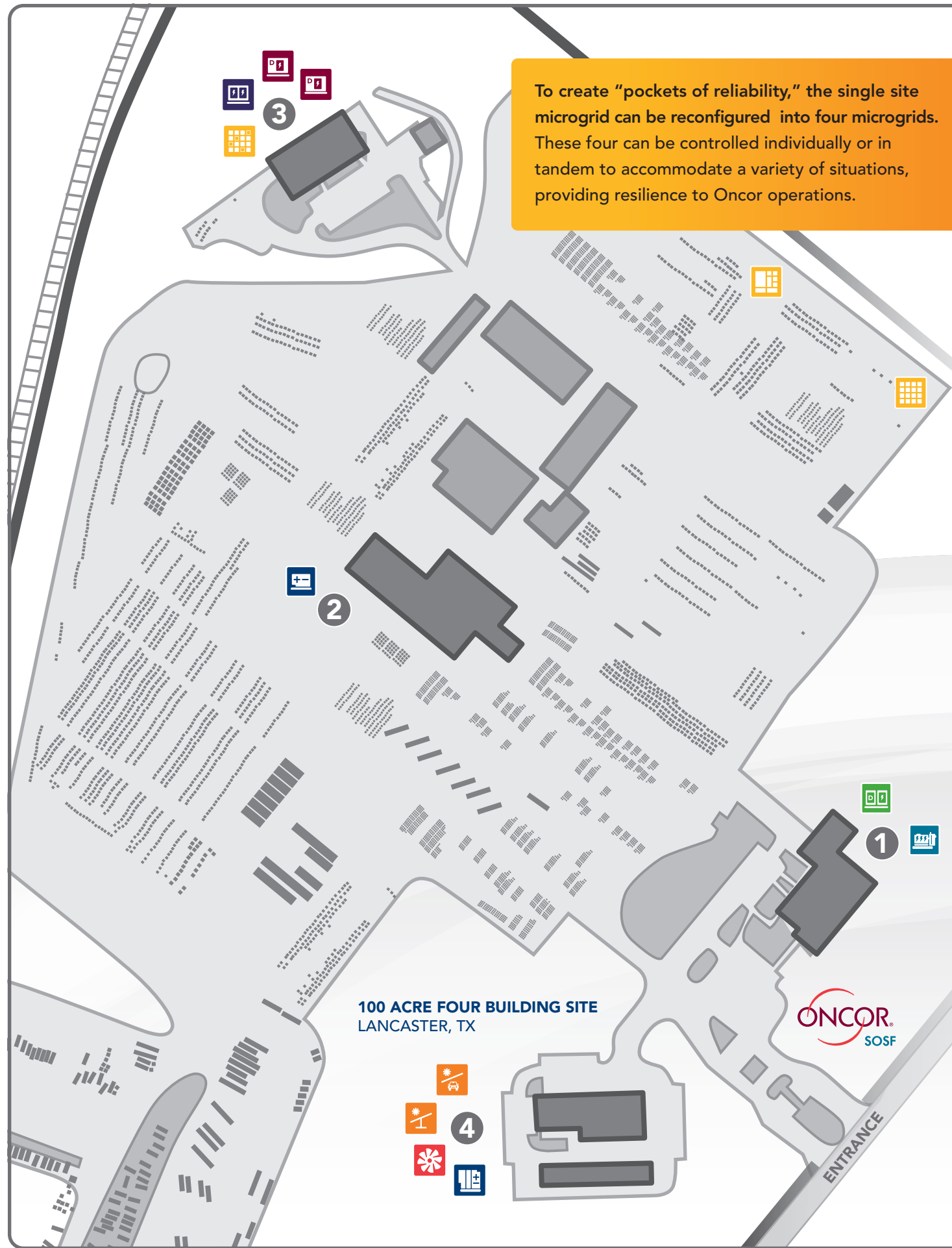
# TECHNOLOGY DEMONSTRATION & EDUCATION CENTER

To create "pockets of reliability," the single site microgrid can be reconfigured into four microgrids. These four can be controlled individually or in tandem to accommodate a variety of situations, providing resilience to Oncor operations.

Oncor is committed to leading changes in grid technology and customer expectations. Through the Technology Demonstration & Education Center, we will demonstrate the value of technologies that work safely, reliably and in harmony with the emerging grid. As the grid transforms to accommodate changing customer needs, Oncor will be leading the way. **Enjoy the tour!**

A mix of modern distributed resources, traditional utility equipment, and advanced utility switching and control capabilities, give this operational site flexibility to meet a variety of situations. The total electric load for this site can be as high as 1,500 kW.

Onsite generation resources can provide as much as 396 kW for normal site operations, and can reach as much as 989 kW for emergencies during loss of grid power. Integrating distributed storage, solar, and microturbine into grid operations will be a key focus.



## ONCOR SOSF SITE

INTELLITEAM ON GRID SOURCE PRIMARY METER POINT

SWITCHGEAR

## METER SERVICES (1)

45kW GAS RECIPROCATING GENERATOR

210kW DIESEL GENERATOR

## TRANSFORMER SHOP (2)

25kW COMMUNITY ENERGY STORAGE

## TRANSMISSION OPERATIONS CENTER (3)

175kW DIESEL GENERATOR

175kW DIESEL GENERATOR

50kVA UPS (UNINTERRUPTIBLE POWER SUPPLY)

MICROGRID CONTROL SYSTEM

## ENVIRONMENTAL LAB (4)

MICROGRID DEMONSTRATION/EDUCATION CENTER

106kW SOLAR CARPORT

8kW GROUND-MOUNTED SOLAR

65kW MICROTURBINE

200kW LI-ION BATTERY STORAGE



# ONCOR TD&E CENTER: WHERE TECHNOLOGY IS TAKING THE GRID

## KEY CONTRIBUTORS

**AXIUM SOLAR**  
axiumsolar.com

**S&C ELECTRIC COMPANY**  
sandc.com

**CORGAN**  
corgan.com

**SCHNEIDER ELECTRIC**  
schneider-electric.com

**HORIZON POWER SYSTEMS**  
horizonpowersystems.com

**TESLA MOTORS**  
teslamotors.com

**PRIM CONSTRUCTION**  
primconstruction.com



[ONCOR.COM](http://ONCOR.COM)

# TECHNOLOGY DEMONSTRATION & EDUCATION CENTER

ONE OF THE **MOST ADVANCED** MICROGRID SYSTEMS IN THE COUNTRY.

**"Paradigm-breaking Microgrid in Texas"**

– Renewable Energy World

**"Oncor Microgrid gives a peek into the future of distributed energy"**

– Utility Dive

**"With this project, Oncor is challenging the idea that utilities cannot innovate."**

– Energy Efficiency Markets

