

## THE ELECTRIC GRID: PRESENT AND FUTURE

### PRESENT

■ Electricity, produced by a central power plant, flows one way to customers

*Sub stations convert high voltage to lower voltage*

INDUSTRIAL CUSTOMER

BUSINESS CUSTOMER

RESIDENTIAL CUSTOMER

### FUTURE

■ Electricity, produced by a central power plant, wind turbines and solar panels, flows to customers

■ Industrial customers both consume and produce electricity  
 ■ Industrial customers communicate usage information back to the power provider  
 ■ Electricity is stored in utility batteries

■ Residential and business customers both consume and produce electricity using solar panels and wind turbines

■ Electricity is stored in utility batteries

■ Residential and business customers communicate usage information back to the power provider

■ Smart appliances, electric cars and street lights are some of the devices that will communicate to the power provider

■ Electricity is stored in batteries