



KCC's Small Business Energy Program and USDA Rural Energy for America Program

JUNE 25, 2018

Kansas Corporation Commission/ Kansas State University

- ▶ Extended partnership to Kansas State University Engineering Extension in 2016
 - ✓ **Small Business Energy Program**
 - ✓ Energy Education
 - ✓ Facility Conservation Improvement Program

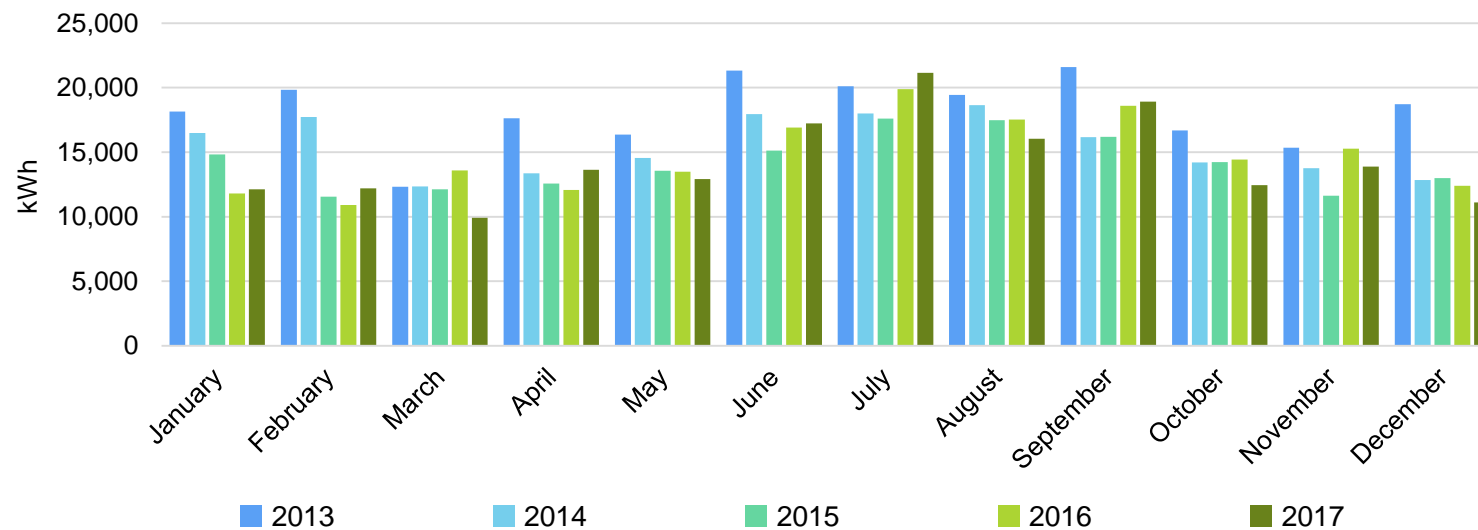
Small Business Energy Program

► Provides –

- ✓ Free energy audits to rural small businesses and agricultural producers
 - For-profit businesses
 - Populations less than 50,000
 - Small Business Administration small business size standard
 - For NAICS Code 445110, Supermarkets and Other Grocery (except Convenience) Stores, SBA size standard is average annual receipts <\$32.5M
- ✓ Technical assistance in applying for U.S. Department of Agriculture Rural Energy for America Program (REAP) Grant
 - If approved, reimburses up to 25% of eligible project costs

Energy Assessments – What We Do

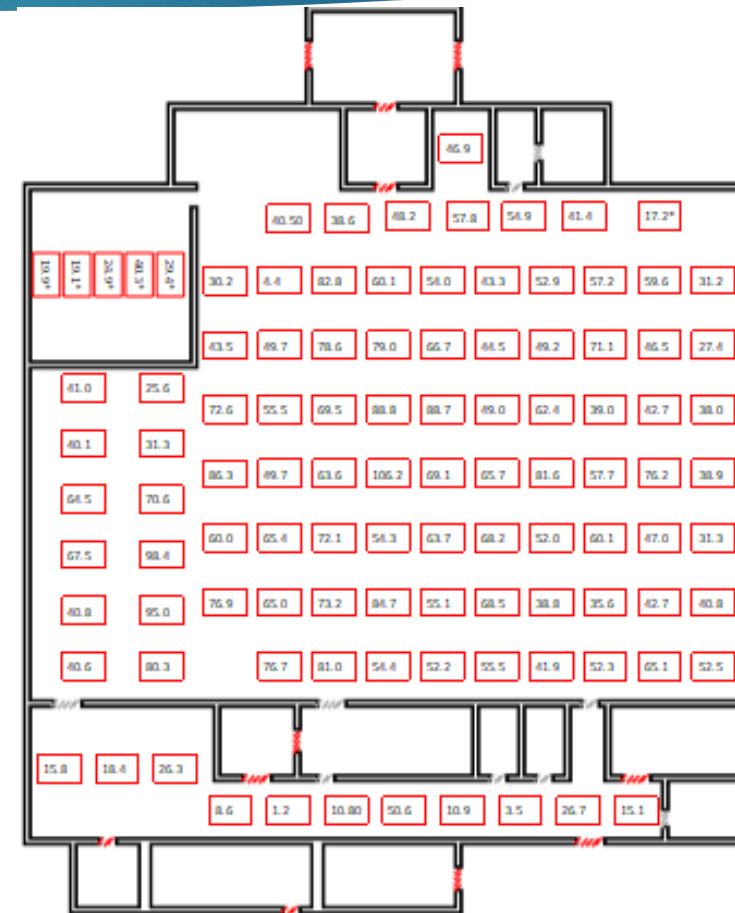
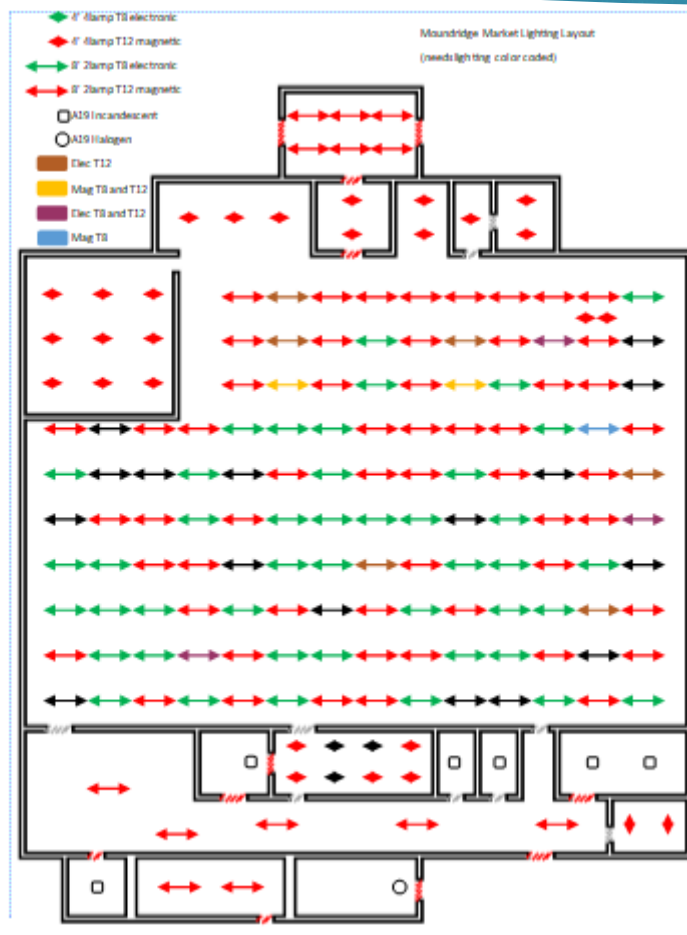
- ▶ Enter electrical and natural gas data (1-5 years)



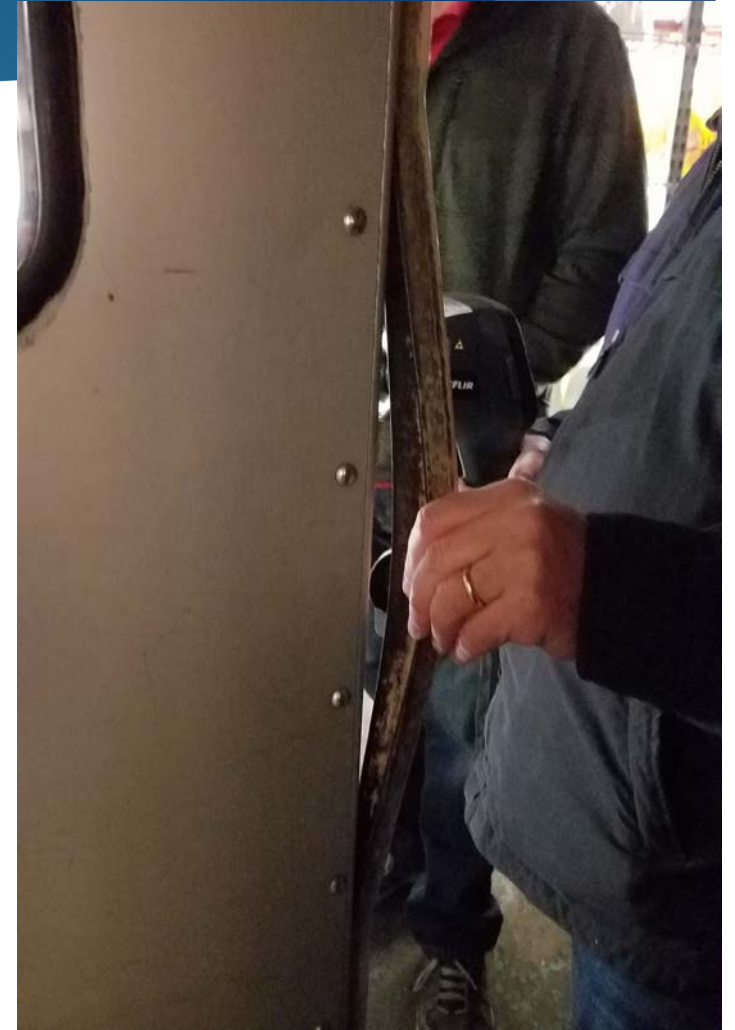
Energy Assessments – What We Do

- ▶ Energy Assessment
 - ▶ Interview owner/manager
 - ▶ Determine square footage
 - ▶ Take pictures of electricity-consuming devices, exterior, building envelope
 - ▶ Take pictures of name plate information for compressors, coolers
 - ▶ Conduct visual inspection of interior, exterior, roof, basement
 - ▶ Collect data using infrared imaging, light meters
- ▶ Energy Report
 - ▶ Yearly and monthly energy consumption
 - ▶ Calculations, simple payback

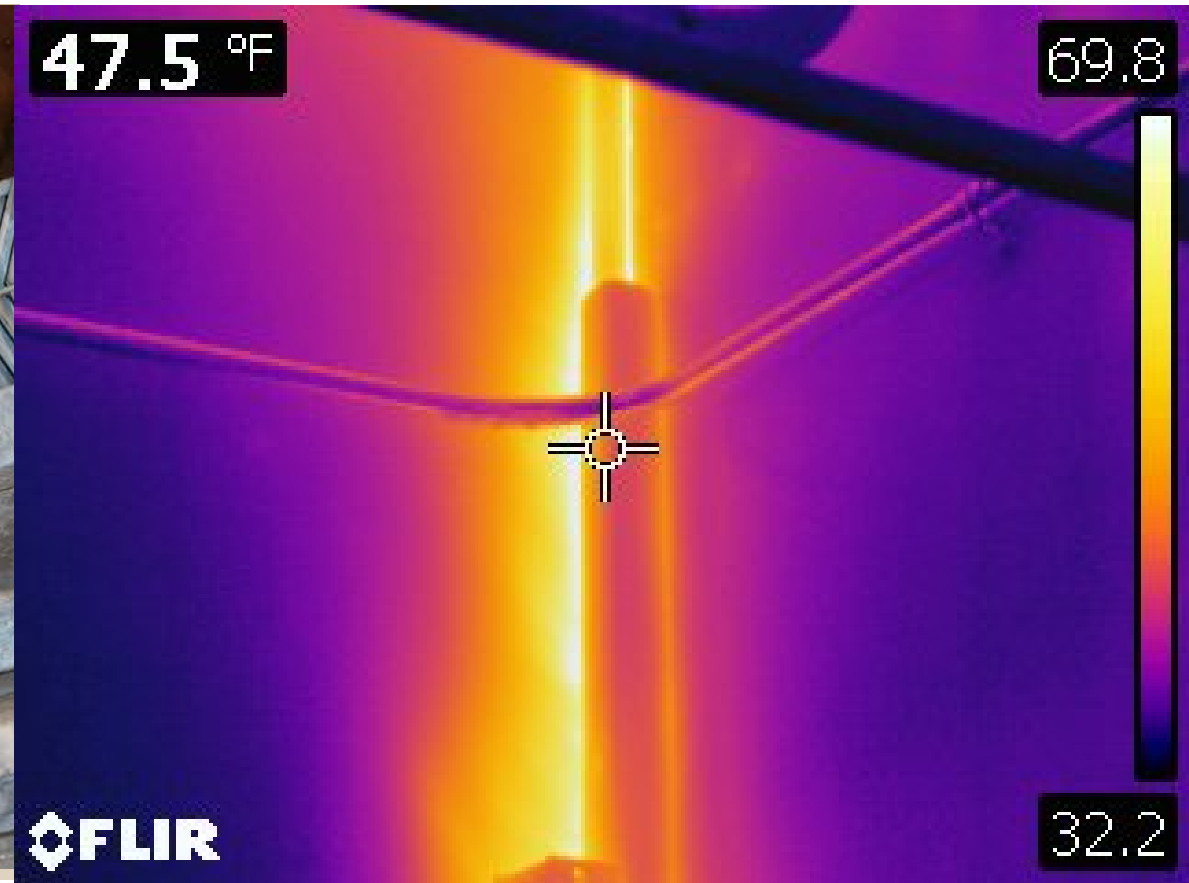
Energy Assessments – What We Do



Energy Assessments – What We See



Energy Assessments – What We See



Energy Assessments – Where We Go



Energy Assessments – Where We Go



Grant Assistance– What We Do

- ▶ REAP Grant Assistance
 - ▶ 4280-3A
 - ▶ SF424
 - ▶ SF424C
 - ▶ SF424D
 - ▶ USDA Scoring Criteria
 - ▶ DUNS number
 - ▶ SAM CAGE Code – notarized letter
 - ▶ Delivery for signature
 - ▶ Delivery to USDA

Small Business Energy Program – Results

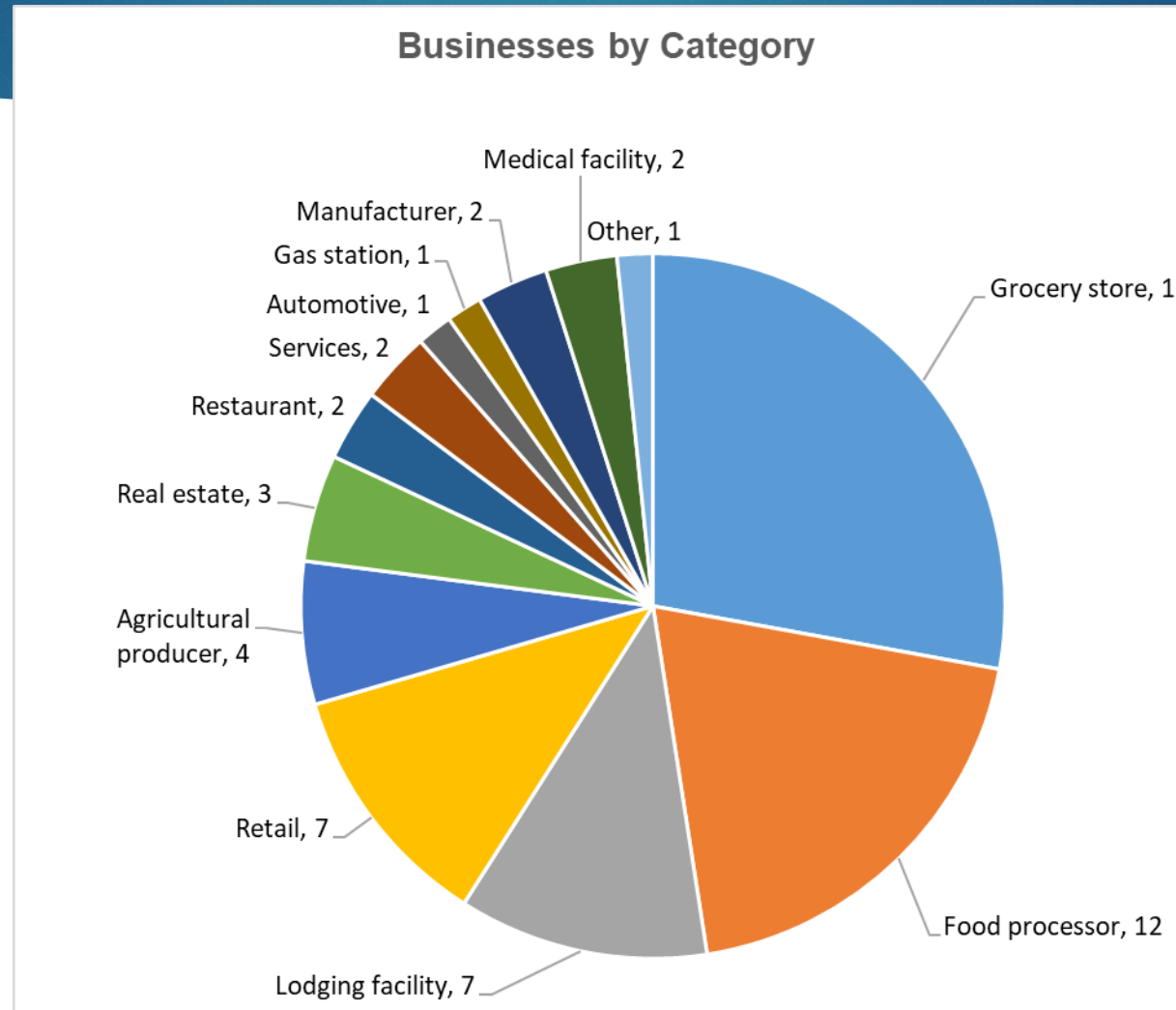
- ▶ 57 energy assessments (as of March 27, 2018)

- ✓ 2,900,000 kWh savings
- ✓ \$306,000 savings
- ✓ 35 counties

- ▶ REAP grants

- ✓ 21 applied
- ✓ 10 approved (remaining grants are all pending)
 - USDA contribution - \$138,700
 - 1,750,000 kWh savings
 - \$200,000 annual savings

Small Business Energy Program – Businesses



Small Business Energy Program – Projects

- ▶ 81 projects, 61 facilities

Lighting	35	43%
Refrigeration	14	17%
Renewable energy	14	17%
Building envelope	10	12%
Equipment replacement	5	6%
HVAC	3	4%

Small Business Energy Program – Lighting

- ▶ 35 projects (43%)
- ▶ 1,378,000 kWh savings
- ▶ \$142,900 annual savings
- ▶ \$538,650 total project costs
- ▶ Average payback – 3.7 years
 - ✓ 34% of projects with payback < 3 years
 - ✓ 60% of projects with payback < 5 years

Small Business Energy Program – Before and After



Before



After

Small Business Energy Program – Before and After



Before



After

Small Business Energy Program – Before and After



Before



After

KCC/K-State Staff

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