## Case Studies: Restaurant Energy Efficiency

HOSTED BY:





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The Food Service Technology Center (FSTC) program is <u>funded</u> <u>by California utility customers</u> with public purpose program (PPP) funds and administered by the Pacific Gas and Electric Company under the auspices of the California Public Utilities Commission.

Promoting:

#### **Energy Efficiency in Commercial Food Service**



#### Hybrid Midstream Plan: Downstream Enhancements

GAS MEASURES				
	Unit	Estimated Energy Saved (CCF/yr)	Recommended Incentive \$	Est. Incremental Measure Cost \$
COOKING EQUIPMENT				
ENERGY STAR Steam Cookers 5 Pan	Cooker	1,900	\$1,500	\$3 <i>,</i> 500
ENERGY STAR Steam Cookers 6 Pan	Cooker	2,100	\$1,800	\$4,000
ENERGY STAR Convection Ovens	Oven	325	\$500	\$2,000
Combination Ovens	Oven	800	\$1,800	\$6,000
Rack Oven Single	Oven	1000	\$800	\$4,000
Rack Oven Double	Oven	2000	\$1,600	\$5,000
Large Vat Fryers	Fryer	600	\$600	\$2,000
ENERGY STAR Fryers	Fryer	500	\$500	\$1,500
ENERGY STAR Griddles	Griddle	100	\$400	\$2,500
WATER HEATERS				
Pre-Rinse Sprayers (Gas Water Heat)	Sprayer	variable	no change	N/A
CONTROLS				
CKV Hood with Demand Control	CFM Reduced	variable	\$0.50	N/A

#### Hybrid Midstream Plan: Downstream Enhancements

-	Estimated			Estimated
	Energy Saved	Current	Recommended	Incremental
Unit	(kWh/yr)	Incentive \$	Incentive \$	Measure Cost \$
Cooker	11,000	\$450	\$900	\$2,000
Cooker	13,000	\$600	\$1,200	\$2,500
Cooker	16,000	\$750	\$1,500	\$3,000
Cooker	18,000	\$900	\$1,800	\$3,500
Cabinet	1100	\$300	no change	\$700
Cabinet	1600	\$400	no change	\$1.500
Cabinet	2200	\$600	no change	\$1,900
Sprayer	variable	\$30	no change	N/A
t Refrigerator	400	\$75	no change	\$500
Refrigerator	700	\$100	no change	\$600
Refrigerator	1000	\$150	no change	\$700
Refrigerator	1400	\$200	no change	\$1,400
Freezer	600	\$75	no change	\$800
Freezer	1200	\$100	no change	\$1,000
Freezer	2100	\$150	no change	\$1,300
Freezer	3300	\$200	no change	\$1,700
Machina	800	¢150	no change	\$600
Machino	1200	\$150	no change	2000 \$200
Machine	1600	\$500	no change	\$000 \$1,300
f	Lunit Cooker Cooker Cooker Cooker Cabinet Cabi	Estimated Energy Saved (kWh/yr)Cooker11,000 (kWh/yr)Cooker13,000 CookerCooker16,000 CookerCooker16,000 CookerCabinet1000 CabinetCabinet1600 CabinetCabinet2200SprayervariableKRefrigeratorRefrigerator1000 targeratorRefrigerator1000 targeratorRefrigerator1000 targeratorFreezer600 FreezerFreezer1200 FreezerFreezer3300Machine800 MachineMachine1300 MachineMachine1600	Estimated Energy Saved (kWh/yr)Current Incentive \$Unit(kWh/yr)Current Incentive \$Cooker11,000 (kWh/yr)\$450 S600 S600 CookerCooker13,000 (s600 Cooker\$450 S900Cooker16,000 (s750) Cooker\$750 S00Cabinet1100 S300 Cabinet\$300 S600Cabinet1600 S400 S400 Cabinet\$300 S400 S400 S00Sprayervariable\$30 S100 F100 F150 FrezerRefrigerator400 Y75 S100 Frezer\$75 S100 S150 S150 FrezerFreezer600 S150 S100 Frezer\$100 S150 S150 S150 S150 S150 S150 S150 S150 S150 S150 S150 S150 S150 S150 S200Machine800 S150 S150 Machine\$100 S250	LinkEstimated Energy Saved (kWh/yr)Current Incentive \$Recommended Incentive \$Cooker11,000 (kWh/yr)\$450 \$900\$900 \$1,200Cooker13,000 \$600 \$00ker\$600 \$1,200\$1,200 \$1,500Cooker16,000 \$750 \$1,500\$900 \$1,800Cabinet1100 \$300 \$400 Cabinet\$300 \$1600 \$400 \$600no change no change no changeCabinet1600 \$400 \$400 Cabinet\$300 \$100 \$100 \$100 \$150 no changeno change no change no changeRefrigerator400 \$75 \$100 \$100 \$150 \$150 \$150 \$100 \$150 \$150 \$100 \$200 \$100 \$150 \$150 \$100 \$100 \$150 \$150 \$100 \$200 \$100 \$100 \$200 \$150 \$100 \$200 



## Download Today's Handouts:

#### www.fishnick.com/handouts/20160630



## Today's Learning Goals

#### Learn

- 1. How restaurants are using energy efficient appliances to save energy
- 2. How to find energy efficient appliances
- 3. How to find DTE Energy's incentives for efficient appliances

## Huge Range in Efficiency!

Gas Appliances



## Huge Range in Efficiency!

Electric Appliances



# Comal Berkeley, CA



## High Efficiency Gas Convection Oven

• 210 Therms/yr Savings

# \$85 Annual Energy Savings\$500 DTE Energy Incentive



#### High Efficiency Gas Fryer

• 600 Therms per Year Savings

# \$240 Annual Energy Savings\$500 DTE Energy Incentive



#### • Comal, Berkeley, CA

Fryer - Measured Energy Use			
	OLD Fryer	NEW Pitco VF35 Fryer	
Daily Energy Use (therms)	3.9	1.3	
Annual Energy Use (therms)	1,422	821	
Annual Energy Savings (therms)	-	601	





## High Efficiency Electric Connectionless Steam Cooker

- 14,100 kWh/year Electricity Savings
- 18,000 gal/year
   Water Savings
- \$1,550 Annual Energy Savings\$ 170 Annual Water Savings
- **\$ 900 DTE Energy Incentive**



## High Efficiency Ice Machine

- 2,450 kWh/year Savings
- 13,140 gal/year Water Savings

\$270 Energy Savings\$120 per year Water Savings

**\$150 DTE Energy Incentive** 



## **High Efficiency Refrigerators**

- 4 Identical Refrigerators
- 3,170 kWh/year Savings

**\$350 Annual Energy Savings** 

**\$400 Total DTE Energy Incentive** 



#### High Efficiency Freezer

• 2,450 kWh/yr savings

\$230/yr Energy Savings

**\$300 DTE Energy Incentive** 



Commercial Kitchen Demand Ventilation Control Energy Management System

- 1,220 therms savings
- 1,870 kWh savings

\$690 Energy Savings

\$525 DTE Energy Incentive



### Low Flow Pre-Rinse Spray Valve

- 290 Therms Savings
- 40,500 gal Water Savings

- \$115 Energy Savings
- \$380 Water Savings
- \$ 30 DTE Energy Incentive



## Comal Energy Efficient Equipment Cost Savings

DTE Energy Incentives		ves	Energy & Water Savings			
•	Ice Machine	\$150	Ice Machine \$390			
•	Refrigerators (4)	\$400	• Refrigerators (4) \$350			
•	Freezer	\$300	• Freezer \$230			
•	Convection Oven	\$500	Convection Oven     \$ 85			
•	Fryer	\$500	• Fryer \$240			
•	Steamer	\$900	• Steamer \$1,720			
•	Ventilation Control	\$525	Ventilation Control     \$690			
•	Low Flow Sprayer	\$ 30	Low Flow Sprayer \$490			
•	Grand Total	\$3,125	<ul><li>Total Energy \$3,530</li><li>Total Water \$670</li></ul>			

• Grand Total \$4,200



#### Electronically Commutated Fan Motors in Walk-in Freezer



LED Lighting in the Kitchen, Exhaust Hood, Bar Area & Dining Room



#### High Efficiency Water Heater with Recirculation Pump & Timer



Strip Curtains and Auto Door Closer on Walk-in Cooler



#### Reduce, Reuse, Recycle & Compost

- Dishmachine exhaust hood interlocked with dishmachine
- Ice machines use time clocks for load-shifting
- Coffee machine turned off after hours
- Dining room lights turned off for non-service daylight hours
- Hot water recirculation pump uses time clock

### Vic's All Star Kitchen Pleasanton







#### **High Efficiency Fryer**

- 7,410 kWh Energy Savings
- 315 Therms Energy Use
- \$992/year savings
- \$749 Utility Rebate





## **High Efficiency Fryer**

- 7,410 kWh Energy Savings
- 315 Therms Energy Use

\$690/year savings \$500 DTE Energy Incentive





## **High Efficiency Convection Ovens**

• 224 Therms per Year Savings

# \$90/year Savings \$1,000 DTE Energy Incentive





## **High Efficiency Griddle**

• 849 Therms per Year Savings

# \$340/year Savings \$400 DTE Energy Incentive





#### • Vic's All Star Kitchen, Pleasanton, CA

Original Lineup	New Lineup	Calculated Savings
Countertop Electric Fryer	Floor Natural Gas Fryer	7,410 kWh (315 therms)
36" Manual Griddle	72" Thermostatic	849 therms
48" Manual Griddle	Griddle	
Conventional Oven (left)	Convection Oven (top)	112 therms
Conventional Oven (right)	Convection Oven (Bottom)	112 therms
Total Energy Savings		757 therms
		7,410 kWh
Total Operating Cost Savings		\$1,120

\*DTE Energy Utility Costs: \$0.40/therm & \$0.11/kWh

	Overview	Pay & Manage	My Usage	Ways to Save	Commu
				My Usage Det	alls My f
ly Energy Use					
ow my natural gas 💙 by year 🗸					
Aug 2011 – Aug 2012 My usage	Old Ec	uipment N	lew Equipr	nent	
566 therms	Deale	15th	r		
425 <b>Gas</b>	reak	June		If you are a Solar or N customer, please visi www.pge.com/solaru for more information	NEM it ipgrade about
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#### It started with a light bulb...

The FSTC recommended energy efficient lighting at Sideboard's original location in the Danville Hotel


### Followed by a Design Consultation...

When Sideboard was moving to a new location, the FSTC provided a suite of energy efficiency recommendations...



### FSTC Recommendations...

- Efficient Fryers
- Efficient Convection Ovens
- LED Lighting
- Lidded Broiler





Energy Efficient Convection Ovens...

### \$1,000 DTE Energy Incentive (\$500 per cavity)





Energy Efficient Fryers...

### \$1,000 DTE Energy Incentive (\$500 per fryer)

### • True Burger, Oakland

Ice Machine – Calculated Energy Use			
	Old Ice Machine	New Machine	
Rate Capacity (lbs/ice/day)	210	410	
Rated Energy Use (kWh/100 lb/ice)	10.3	5.73	
Duty Cycle (%)	100	TBD	
Annual Energy Use Savings (kWh)	-	3,340	
Demand Reduction (kW)	-	1.0	
Hours "off peak"	0	TBD	



### **Fryer Replacement Case Study**

### Location: Chow, Danville

Measured Energy Use				
Hotline Location	Mainline Old Fryer (heavy use)	Mainline NEW Vulcan VK45 Fryer (heavy use)	Grill line Old Fryer (light use)	Grill line NEW Pitco VF35 Fryer (light use)
Daily Energy Use (therms)	3.6	1.3	2.8	1.6
Annual Energy Use (therms)	1,287	452	990	573
Annual Operating	Cost Savings (\$)	\$180*		\$230*

\*Operating cost savings based on a natural gas utility rate of \$0.40/therm.



**Main line Fryer** 



**Grill line Fryer** 

## Real Restaurants Real Savings!

Buy Efficient Get Incentives!

dteenergy.com/savenow

### FOOD SERVICE TECHNOLOGY CENTER PROMOTING ENERGY EFFICIENCY IN FOODSERVICE



### **Oscar W. Larson Company**

Energy Optimization In The Food Service Environment





### The Whole Facility Approach to Energy Management One Bite at a Time!!

 We have been participating in local utility rebate programs since 2009 and have collectively secured <u>millions</u> of dollars in rebate money and over 12 giganous of annual energy savings for our customers.





### Save Energy & <u>Money!</u> Make Your Site More Profitable!

Cut down on your maintenance costs as well as your utility bills by taking advantage of local utility rebate programs:

- •DTE Energy
- •Consumers Energy
- •Efficiency United
- •Energy Smart



- •Lansing Board of Water & Light
- •Michigan/Indiana Power

Restaurants use as much as 5x more energy per square foot than any other commercial building (Energy Star Guide for Restaurants 2012).



### Brighten Your Parking Lot and Cut Back on Energy with New LED Area Lights

### **Benefits**

#### Uses Less Wattage.

1000 watt HID fixture typicallyreplaced by 225 watt LED fixture.400 watt HID fixture typically replacedBy 115 watt LED fixture.

#### Long Life and Warranty.

Most fixtures have a 20 yr expected life. Warranty can be as long as 10 yrs. Minimum of 5 yr warranty to participate in rebate program.

Maintenance savings over the life

Time of fixture.





### Refresh Your Interior Image and Cut Back on Energy with New LED Lighting

### **Benefits**

#### Uses Less Wattage.

220 watt fluorescent fixture typicallyreplaced by 35 watt LED fixture.100 watt incandescent fixture typicallyreplaced by18 watt LED fixture.

#### Dimmable/Color Changing.

Variable or 50% Dimming. Some have color changing capabilities.

#### Long Life and Warranty.

Most fixtures have a 20 yr expected life.

Warranty can be as long as 10 yrs. Minimum of 5 yr warranty to participate in rebate program.





### Illuminate Your Signs with Energy Saving LED Lighting

### **Benefits**

#### Uses Less Wattage.

Wattage can be reduced by as much as Half. Multiple options depending on signage.

### Long Life and Warranty. Most have a 18-20 yr expected

life.

Warranty are typically 5 yr for retrofit options but are dependent on manufacturer.

#### Maintenance Savings.

What are your signs costing you?







### Heating/Air Conditioning & Refrigeration Equipment Upgrades

### **Benefits**

#### **Uses Less Energy**

Designed to meet the new ASHRAE

Standards

#### Warranted Equipment.

Some have 20 years on heat exchangers

Most have 5 years on compressors.

#### Maintenance Savings.

Consider service contracts with quarterly PM Schedules.







### Hybrid Heating/Air Conditioning Equipment RHEEM H2AC Rooftop Unit

#### **How It Works**

- 1 Cold ground water enters the system at the thermal storage tank.
- 2 When there is a call for cooling by the H2AC rooftop (B), the internal pump draws water from the storage tank (A) into the water cooled condenser capturing up to 150,000 btuh of waste heat
- 3 "Free" hot water from the H2AC rooftop is sent to the thermal storage tank (A). This 115 gallon tank can be "charged" up to 120F regardless of hot water usage (peak, off peak, overnight, etc.)
- 4 When there is a need for hot water at a fixture, preheated water not cold ground water flows from the storage tank (A) through the heaters (C) and is provided to the fixtures at the correct temperature

The energy savings is a result of the heaters only boosting the water temp 20F to 45F rather than the traditional 100F temp rise.





### Reduce Walk-In Cooler Energy Consumption with the Installation of EC Motors

### **Benefits**

#### What is an EC Motor.

Synchronous motors that are powered by a DC electric source via an integrated inverter/switching power supply, which produces an AC electric signal to drive the motor.

#### **Uses Less Energy**

Designed to meet the new ASHRAE Standards

#### Fan Cycling Control.

Can be used with fan cycling controls to maximize energy savings.







### Install Controls to Further Monitor and Reduce Energy Consumption

**Communicates** 

### **Controls**





### **KE2 Efficiency Controller**

#### **Benefits**

#### Allows you to see deficiencies.

Monitor equipment performance. Track energy usage. Maintain your food quality Local and remote alarming notification capability.

#### Applebee's

#### <u>Case Study: Jan 4, 2012</u>

New Cond. Unit Controlled by mechanical time clock / thermostat







### Replace Your Prep Equipment With Energy Star Products

### **Benefits**

Uses Less Energy Designed to meet the new ASHRAE

Standards

Warranted Equipment.

Consider manufactures warranty.

Maintenance Savings. Consider repair vs replacement.







### **High Efficiency Water Heating**

### **Benefits**

#### **Uses Less Energy**

Designed to meet the new ASHRAE standards. 30-40% Savings over traditional water heaters.

#### Many Types.

Hybrid heat pump. Direct vent. On demand.





### **Basic Energy Management System**





### **Complete Site Monitor and or Control**

#### • HVAC

- Heating
- Cooling
- Destratification Fans
- Energy Management
- Variable Speed Drives
- Service Contracts
- Refrigeration
  - Walk in Cooler/Freezers
  - Stand Alone Case Units
  - Under Counter Units
  - Ice Machines
  - Evaporator Efficiency
  - EC Evaporator Fan Motors
  - Motors





#### **Food Prep**

- **Exhaust Fans**
- Hot Water
- Fryers
- Ovens
- Ranges
- Holding Cabinets

#### **Electrical/Controls**

- Exterior Lights
- Signs
- Interior Lighting
- Service Contracts



### **Centralized Energy Management System**

### **Targets the whole-building design:**

- Reduced energy use by 20-30%
- Reduced maintenance and capital costs
- Reduced environmental impact
- Increased occupant comfort and health
- Increased employee productivity
- Local and remote alarming
- Remote access & control
- Power monitoring
  - Consumption forecasting





### **Bay City Restaurant**

### **BAY C.C. TOTAL PROJECT SAVINGS**

- Removed 89 HID Light Fixtures and Installed 58 LED Light Fixtures
- Replaced 9 Roof Top HVAC Units
- Replaced 10 Evaporator Fan Motors
- Retrofitted 11 Lighted Signs to LED
- Total Project Cost \$284,550.00
- Utility rebates \$23,996.00
- Yearly energy savings \$46,481.00.
- Monthly energy savings \$3,874.00
- Monthly Michigan Saves Financing Payment \$2,683.00
- This project is **cash positive** by **\$1,191.00 a month**.





# 2016 DTE Energy Efficiency Program for Business



## Adam Constantino Outreach Manager



## **Safety First** Exits Restrooms Other site features



### Agenda

- Program Overview
- Commercial Kitchen Opportunities
- Special Offers
- Capuchin Soup Kitchen Energy Efficiency Makeover



# **Program Overview**



## Three types of program incentives

Prescriptive	<ul> <li>Predetermined measures and incentives for the installation of various energy efficient improvements.</li> <li>Incentives typically average 20% to 50% of the incremental cost.</li> </ul>
	Canital investment projects that increase energy efficiency
Custom	and are <b>NOT</b> eligible for a Prescriptive Incentive may qualify as a Custom Measure.
	<ul> <li>Custom Incentives are determined on a case-by-case basis</li> </ul>
	and are paid per unit energy saved (ex: \$0.07/kWh and/or \$4/Mcf).
New Construction Major Renovation	<ul> <li>New facilities/major renovations of existing facilities or change of use projects.</li> <li>Adding load.</li> </ul>



# Commercial Kitchen Opportunities



## **About Restaurant Energy Use**

The bulk of energy demand in restaurant operations comes from the kitchen: cooking and 52% refrigeration. According to ENERGY STAR<sup>®</sup>, a typical restaurant spends \$3.99 per square foot a year on energy. Here is a look at typical restaurant energy usage.\*





## **Savings Possibilities**

Electric Measures	Savings
Interior LED recessed lights/lamps	Up to 75% <sup>†</sup>
Ice machines	15% to 20%*
Refrigerators/freezers	Up to 35%*
Holding Cabinets	65%*

Natural Gas Measures	Savings
Steam cookers	Up to 50%*
Convection ovens	30% to 40%*
Fryers	30%*
Griddles	15%*

† U.S. DOE \*ENERGY STAR®



## **Refrigerators and Freezers**

Equipment Type	Size	Incentive
Refrigerators	< 15 cu ft	\$75.00
	15 – 30 cu ft	\$100.00
	31 – 50 cu ft	\$150.00
	> 50 cu ft	\$200.00
Equipment Type	Size	Incentive
Freezers	< 15 cu ft	\$75.00
	15 – 30 cu ft	\$100.00
	31 – 50 cu ft	\$150.00
	> 50 cu ft	\$200.00


#### **Kitchen Opportunities**



### **Gas Fryers**

Equipment Type	Incentive
ENERGY STAR® Fryers	\$500.00
Large Vat Fryer	\$600.00
ENERGY STAR® Griddles	\$400.00





### **Holding Cabinets**

Equipment Type	Size	Incentive
	Half Size	\$300.00
Hot Holding Cabinets	Three Quarter Size	\$400.00
	Full Size	\$600.00



#### **Kitchen Opportunities**



#### **Ovens**

Equipment Type	Incentive
ENERGY STAR® Convection Ovens	\$500.00
Combination Ovens	\$1,800.00
Rack Oven Single	\$800.00
Rack Oven Double	\$1,600.00







### Michigan-Made bonus

- 15% bonus for certain installed equipment that is 50% manufactured and/or assembled in Michigan (excluding packaging).
  - Some Prescriptive measures are not eligible.
  - o Custom projects are not eligible.
  - Look for the check box on the Application next to qualified measures.



The Michigan-Made affidavit can be downloaded at: <u>dtetradeally.com</u>



### **Multi-Measure bonus**

- 20% bonus on multiple categories submitted on the same Application
  - when no single category is more than 75% of the Application.
    - Our Catalog highlights measures (MM) that appear in both electric and gas that may qualify.



This Fact Sheet can be downloaded at: dtetradeally.com



### Financing from Michigan Saves

- 0% financing on up to \$50,000 for up to 36 months
- 2.99% financing on up to \$150,000 for up to 60 months
- 1.99% financing on up to \$150,000 for up to 60 months for municipalities and K-12 schools





## Capuchin Soup Kitchen Energy Efficiency Makeover



### **Selection of Capuchin Soup Kitchen**

- Energy Audits performed at several DTE Energy customer locations by DNV GL
- DTE Energy Customer (Electric and Gas)
- Food Service equipment focus
- Hours of Operation
- Overall condition/age of equipment
- Community impact







- Category: Lighting
  - Interior
  - Exterior





Location	Qty	Existing Equipment	New Equipment
Interior	162	84w Troffer Fixtures	CREE ZR24-35 W LED Fixtures
Interior	10	Light Switches	Occupancy Sensor OSS10_INW Wall Mount
Interior	10	Fluorescent Exit Signs	LED Exit Sign E-XPL Series -0.8W
Exterior	11	T5 Wall Packs	LED XSP Series Wall Mount 42W/25W
Exterior	5	(4) Pole Mounted & (1) Building Mounted 400w HID Fixtures	CREE LED OSQ Series 112W/168W
Interior	6	Fluorescent Refrigerated Lighting Fixtures	CREE LED 4' WS4 50W-64W
Interior	4	1 x 4 Troffer Fixtures	CREE ZR1-44W 1' x 4' LED Troffer
Interior	12	Restroom Wrap Fixtures	UR2-48 and UR3-48 4' 2L 44W LED
Interior	5	8' Tandem Fluorescent Fixtures	UR2-48 and UR3-28 4' 2L 44W LED



- Category: HVAC
  - Programmable Thermostat





- Category: Food Service
  - Tilting Skillet
  - Holding, Heated, Refrigerator Cabinets
  - Cook/Hold Oven
  - Dishwasher Conveyor Type
  - Strip Curtains
  - Door Gaskets
  - EC Evaporator Fan Motors

- Exhaust Fan Hood Replacement
- Coffee Urn
- Cold, Hot and Serving Counters



#### **Capuchin Soup Kitchen**



### **Natural Gas Measures**

#### • Category: HVAC

- Programmable thermostat
- Domestic hot water





#### **Capuchin Soup Kitchen**



### **Natural Gas Measures**

- Category: Food Service
  - Convection oven
  - Combi-oven
  - Fryer
  - Stationary kettle
  - Countertop hotplate and griddle
  - Charbroiler







### Savings

	Savings	Savings Percentage
Total Savings – Electric kWh/year	41,353	19%
Total Savings – Mcf/year	314.1	19%

#### **Capuchin Soup Kitchen**



### **Demonstration Center**

#### Demonstration Center

- Tours available for DTE customers interested in food service technology upgrades
- Please contact the DTE Energy Efficiency Program for Business





#### In Summary

- Program Overview
- Commercial Kitchen Opportunities
- Special Offers
- Capuchin Soup Kitchen Energy Efficiency Makeover



# If you have questions, please contact our office

#### Email: Saveenergy@dteenergy.com

## Phone: 866.796.0512 (press option 3)

#### Fax: 313.664.1950

Website: dteenergy.com/savenow Website: dtetradeally.com



: www.linkedin.com/in/dteenergysaveenergy