

# Finance Options

October 16, 2018

Kristy Manning  
Director  
Missouri Division of Energy



# Finance Options Available Now

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\$ Energy Loan Program

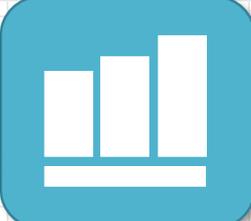
\$ PACE

\$ Federal CHP Tax Credit

# Energy Loan Program FY2018 Cycle



**\$5M** available



**2.75%** interest rate

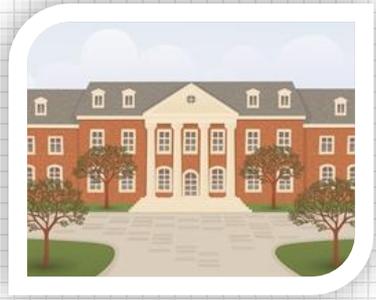
- Up to 10-year loan repayment
- Bi-annual payments



# Eligible Entities Suitable for CHP



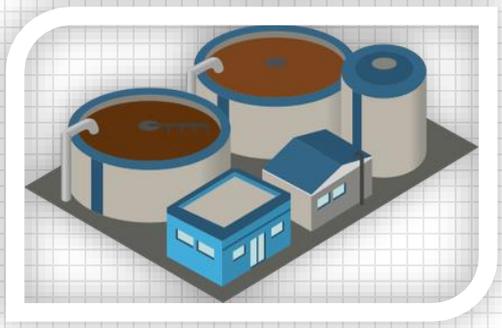
Public & Private  
Not-For-Profit  
Hospitals



Public & Private  
Educational Institutions



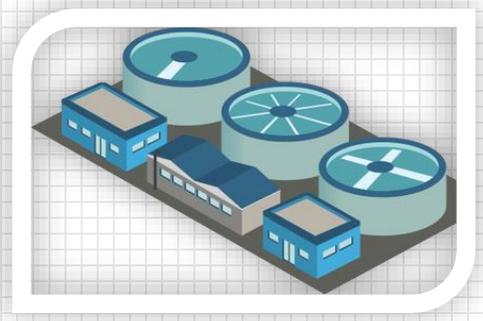
Counties



Sewer Districts



Cities



Water Supply Districts

# Renewable/Distribution Energy



Biomass Boiler Systems

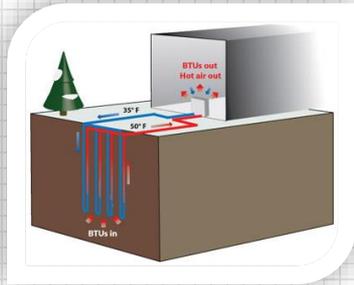


Combined Heat and Power



Solar Photo Voltaic Systems

# HVAC Upgrades



Geothermal Heat Pump



Building Automation



Variable Frequency  
Drives



Variable Refrigerant  
Flow



Chiller  
Replacements



Cooling Tower  
Replacements

# Lighting Upgrades



Lighting Controls



Outdoor Lighting



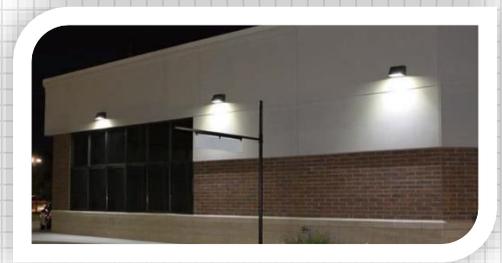
LED Exit Signs



Occupancy Sensors



Indoor Lighting Upgrades



LED Wall Pack Upgrades



**Kim Thompson**  
Chief Financial Officer  
Ozarks Medical Center

# For More Information

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Visit our website:

<http://energyloand.mo.gov/>

## Contact Information

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# Property Assessed Clean Energy (PACE)

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- Voluntary special assessment on property tax bill
- Provide **100% upfront cost**
- Fixed rate loan up to **20 years**
- Annual energy savings > project cost

# PACE— Eligibility

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- Publicly or privately owned property
- Commercial and residential available
- New construction or retrofits
- Reduce energy consumption; build to a more resilient, higher standard

# PACE— Measures

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- Combined heat and power systems
- Automatic energy control systems
- HVAC systems
- Renewable energy systems, including photovoltaic, solar thermal, wind, biomass, geothermal



**MCE**D.MO.GOV  
Missouri Clean Energy District

Make A  
Difference  
Today:  
866-554-4083



# PACE Contacts

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## **Missouri Clean Energy District**

(800) 748-9986

[www.mced.mo.gov](http://www.mced.mo.gov)

## **Set the PACE St Louis**

(314) 499-8756

[www.setthepacestlouis.com](http://www.setthepacestlouis.com)

## **Show Me PACE**

(573) 616-1046

[www.showmepace.org](http://www.showmepace.org)

## **Missouri Energy Savings Program (St. Louis County)**

(314) 499-8756

[www.mo-esp.com](http://www.mo-esp.com)

# Finance Options Available Now

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- \$ Energy Loan Program
- \$ PACE
- \$ **Federal CHP Tax Credit\***

[\\*www.energy.gov/savings/business-energy-investment-tax-credit-itc](http://www.energy.gov/savings/business-energy-investment-tax-credit-itc)

# Federal Business Energy Investment Tax Credit

## Eligibility:

- Commercial
- Industrial
- Investor-Owned Utilities
- Cooperative Utilities
- Agriculture

## Savings Categories:

- Solar Water Heat
- Solar Space Heat
- Geothermal Electric
- Solar Thermal Electric
- Solar Thermal Process Heat

- Solar Photovoltaics
- Wind (All)
- Geothermal Heat Pumps
- Municipal Solid Waste
- **Combined Heat & Power**
- Fuel Cells using Non-Renewable Fuels
- Tidal
- Wind (Small)
- Geothermal Direct-Use
- Fuel Cells using Renewable Fuels
- **Microturbines**

# Federal Business Energy Investment Tax Credit

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## CHP

- 10% of expenditures
- Up to 50 MW
- > 60% efficiency
- After 10/3/2008

## Microturbines

- 10% of expenditures
- Up to 2 MW capacity
- > 26% efficiency
- \$200 per kW

# Thank You!

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**Kristy Manning**  
**Director**  
**Missouri Division of Energy**

**Estimated number of people benefited: 2,127,573**

<b>Sector Entities</b>	<b>Number of Energy Loans</b>	<b>Loan Amount</b>	<b>Annual Savings</b>
<b>Colleges/Universities</b>	<b>19</b>	<b>\$10,461,709</b>	<b>\$1,572,075</b>
<b>Hospitals</b>	<b>13</b>	<b>\$6,147,114</b>	<b>\$898,274</b>
<b>Local Governments</b>	<b>162</b>	<b>\$21,204,988</b>	<b>\$3,296,940</b>
<b>Others</b>	<b>2</b>	<b>\$85,199</b>	<b>\$28,391</b>
<b>Public Schools</b>	<b>415</b>	<b>\$76,333,607</b>	<b>\$10,888,439</b>
<b>Total</b>	<b>611</b>	<b>\$114,232,617</b>	<b>\$16,684,119</b>