

# STRATEGIC UPDATE & FLEXIBLE PATH Board Public Input Session

June 13,2018

**Informational Update** 

#### **AGENDA**



- OVERVIEW
- OPERATIONAL DYNAMICS
- SAVE FOR TOMORROW ENERGY PLAN (STEP)
- OUR FLEXIBLE PATH
- FLEXIBLE PATH OUTREACH IN MOTION



### **OVERVIEW**

### WE SUPPORT OUR COMMUNITY CDS



#### **THE WHY:**

- San Antonio is a prime center for growth & economic development, which will benefit everyone.
- Acknowledging what matters:
  - RELIABILITY
  - AFFORDABILITY & VALUE
  - GREAT SERVICE

#### **OUR FORWARD LOOKING COMMITMENT:**

- We want to share important information with you on the approach & options we have to support our community, economic prosperity & business interests.
  - STARTING WITH OUR FLEXIBLE PATH!!



# POWER TO DREAM

Our **People First** philosophy comes to life through our Power to Dream campaign.

Because everyone has dreams, and those dreams deserve to see the light of day.

# WHICH ALIGNS TO OUR FOCUS ...







#### **RELIABILITY MATTERS!!!**



#### 24 HOURS A DAY 7 DAYS A WEEK 365 EVERY DAY OF THE YEAR

We minimize / prevent outages!





 Our <u>Power</u> / <u>Energy</u> is there for you when you need it!!



# AFFORDABILITY & VALUE MATTER!!!



#### We <u>CONTROL COSTS</u> to:



**SAVE YOU MONEY!** 

#### **GREAT SERVICE MATTERS!!!**



#### **TODAY & TOMORROW**



#### **CPS ENERGY BY THE #'S**



#1

Largest
MunicipallyOwned Electric
and Gas
Company in the
U.S.

\$11B \$2.5B

\$11B in Assets, \$2.5B in Annual Revenue

158

# of Years in Business

#1

Voted Most Trusted Brand in the South Region by MSI #1

Solar Power Production in Texas; Seventh in the Nation **Top 10** 

Engaged Residential Customer Relationship by MSI #1

Wind Power Production in Texas 805K 344K

Electric & Gas
Customers

**NEE (New Energy Economy)** 

\$5B Cumulative Economic Impact

>900 Cumulative new Jobs Added more than 900 new jobs



Premier Credit Rating

#### **BOARD OF TRUSTEES**





John Steen Board Chair

John Steen represents the northeast quadrant of CPS Energy's service area. He is an attorney who previously served as the 108th Texas Secretary of State and as a commissioner of the Texas Department of Public Safety.



Dr. Homer Guevara Jr.

Vice Chair

Dr. Homer Guevara Jr., an economics and government professor at Northwest Vista College, represents the southwestern quadrant of CPS Energy's service territory.



Dr. Willis Mackey

Trustee

Dr. Willis Mackey, a retired public school administrator and current consultant to school districts across the state, represents the southeast quadrant of CPS Energy's service area.



**Edward Kelley** 

Trustee

Edward Kelley represents the northwest quadrant of CPS Energy's service area. Kelley served as President and CEO of USAA Real Estate before retiring in 2005 after 17 years of service.

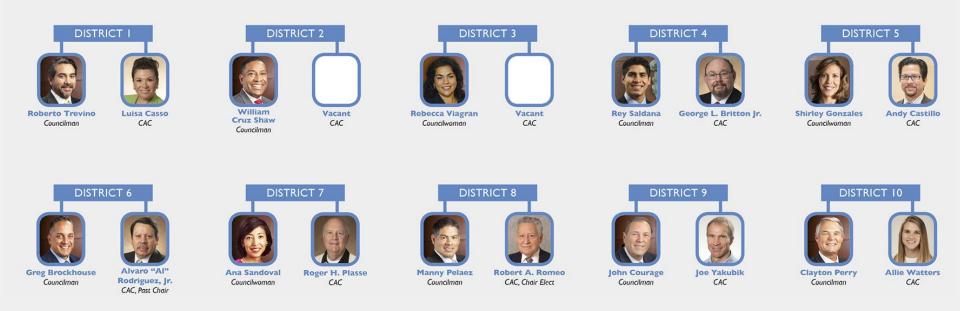


Ron Nirenberg Ex-Officio Member

Ron Nirenberg, as current mayor of San Antonio, serves as an ex-officio member of the Board of Trustees. He will remain on the Board through his current mayoral term.

Note: Also a handout

#### San Antonio City Council Members & Citizens Advisory Committee (CAC)





Note: Also a handout

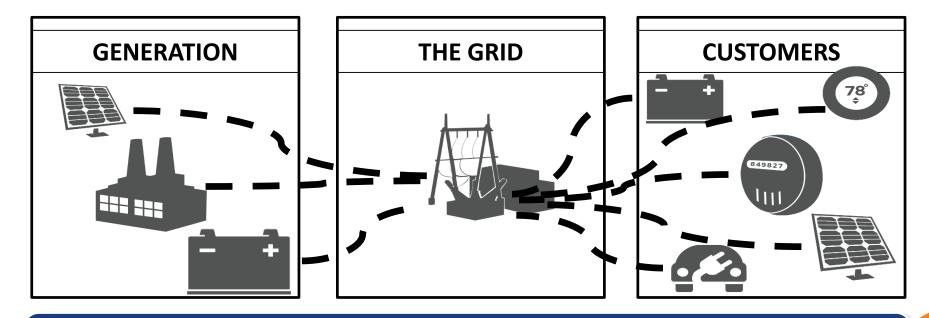


# OPERATIONAL DYNAMICS

#### **OPERATIONAL DYNAMICS**



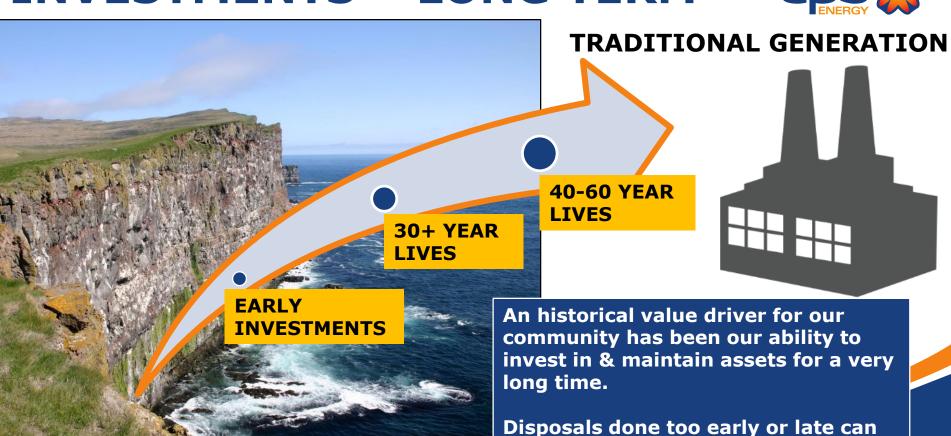
#### WE ARE A FULLY INTEGRATED UTILITY



We operate & manage in all aspects of the utility energy business & the ERCOT market

#### **INVESTMENTS - LONG TERM**



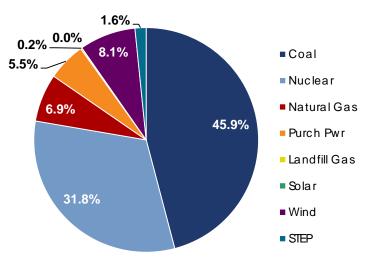


be very costly.

#### VISION 2020

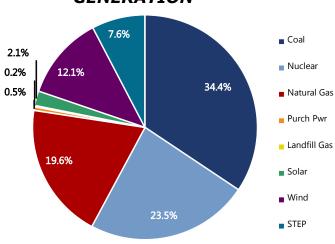


#### 2010 GENERATION



Low - No Carbon Generation Sources = 54% Renewable + Demand Reduction Sources = 15%

#### 2020 PROJECTED GENERATION



Low - No Carbon Generation Sources = 66% Renewable + Demand Reduction Sources = 25%

Vision 2020 transitions CPS Energy from traditional generation power sources to competitively priced power that is based on a diverse generation portfolio



# SAVE FOR TOMORROW ENERGY PLAN (STEP)

# SAVE FOR TOMORROW ENERGY PLAN (STEP)



• **GOAL**: 771 MW of Demand Savings by 2020 (equivalent of the output of a power plant)

• **INVESTMENT**: Up to \$849 Million

DEMAND REDUCTION -

Achieved as of FY 2018: 626 MW \*

Category	Programs	Abbreviation
Weatherization	Weatherization	Wx
Residential Energy Efficiency	Res HVAC, Home Energy Assessments, New Construction, Multi-Family, Cool Roof	Res EE
Commercial Energy Efficiency	C&I Solutions, Small Business Solutions, New Construction, Schools & Institutions, Multi-Family	Comm EE
<b>Demand Response</b>	Demand Response	DR
Solar	Solar	



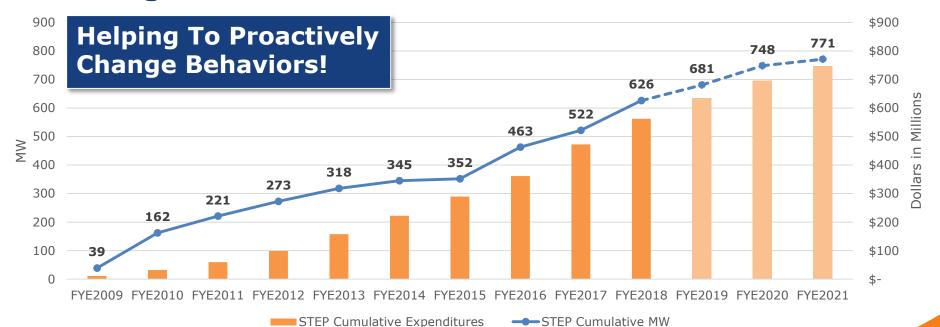
Examples of weatherization in a home



<sup>\*</sup> Pending final measurement & verification

# OUR S.T.E.P. - PROGRAM 1st Major <u>FLEX</u>IBILITY MOVE





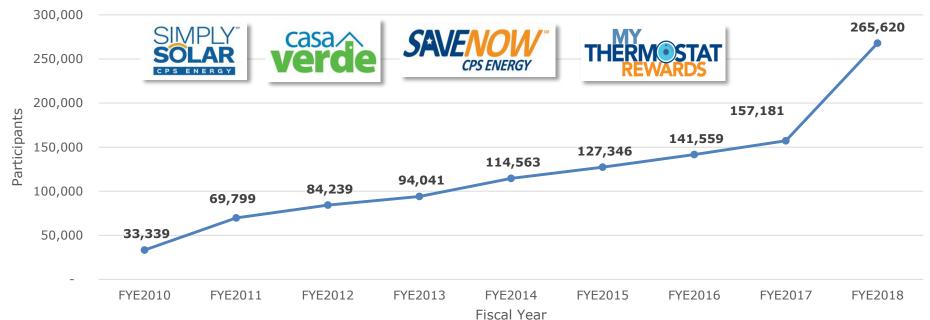
\$'s Supporting Conservation: STEP



\$'s Building another
Coal Plant + Operations
& Maintenance

#### **APPEALING PROGRAMS**





Popularity is increasing: In FYE 2018, we had 265K interactions with customers

#### CONSERVATION: OUR LEADERSHIP IN TEXAS





#### 2016 DEMAND RESPONSE RESOURCES:

CPS Energy – 207 MW
Next Best: Austin Energy – 131 MW
After that: CenterPoint – 120 MW\*

### 2016 WEATHERIZATION FUNDING:

CPS Energy – \$20.1M Austin Energy – \$2.7M Next Best: Oncor– \$5.5M





#### 2016 ROOFTOP SOLAR INSTALLED CAPACITY:

CPS Energy – 34 MW Austin Energy – 10 MW Next Best: Oncor – 12 MW

We're a leader in Demand Side Management (DSM) Programs because of our STEP investment in the community

#### **TEXAS BENCHMARKING**



### Our broad range of DSM Programs compare favorably to other electric providers in Texas

	Commercial Residential					Solar			R&D								
Utility	Commercial DR	Recommission MTP	Commercial EE	Lighting	Schools & Gov.	New Homes	Weatherization	Residential EE	EE Kits	Retail Buy Down	Residential HVAC	Residential DR	In-School Education	Solar Rebate	Community Solar	Roofless	Research & Development
AEP Central (Corpus Christi)	✓		<b>√</b>		<b>√</b>	✓	<b>√</b>	<b>√</b>			<b>√</b>	<b>√</b>		<b>√</b>			
Austin Energy	✓		✓	✓	✓	✓	<b>√</b>	✓		✓	✓	<b>√</b>		✓			✓
CenterPoint (Houston)	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>√</b>	✓	<b>√</b>	<b>√</b>	✓		<b>√</b>						<b>√</b>
CPS Energy	✓	✓	<b>√</b>	✓	<b>√</b>	✓	✓	<b>√</b>	✓	✓	✓	✓	✓	<b>√</b>	✓	<b>√</b>	✓
Oncor (Dallas)	✓		<b>✓</b>				✓	<b>√</b>						<b>√</b>			✓
El Paso Electric	<b>√</b>		<b>√</b>				<b>√</b>	<b>√</b>	<b>√</b>	✓			✓	<b>√</b>	✓		✓

#### **COST EFFECTIVE**



Cost effectiveness of rebates has improved 49% since FY15 through a combination of adjusting incentives & declining technology & implementation costs





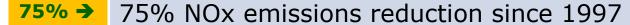


### OUR FLEXIBLE PATH

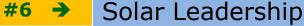
#### **GOALS & APPROACH**



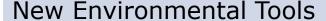
- 65% → Low-carbon generation
- 20% → Renewable energy capacity in power generation mix
  - Purchase of cleaner Natural Gas "Rio Nogales" Units
  - Purchase of 450MW of utility scale solar



- Closure of J.T. Deely Coals Units 1 & 2 in 2018
- Using a more efficient product lower sulfur fuel



High National Ranking by Environment Texas



- Air Quality Sensors
- Smart Sniffer "Gaston"





We continue our commitment to sustainability & being an engaged environmental steward

## DEVELOPING A FLEXIBLE FUTURE



AGAIN RELIABILITY MATTERS: Traditional generation is playing the role of "virtual storage" for renewable energy until energy storage technology scales up

Now: Renewables and Traditional Generation







<u>Future: Renewables and</u> <u>Energy Storage</u>









#### **COMMUNITY DIALOGUE =** MORE ENGAGEMENT



Customers Environmental Businesses Others

**Partners** Input

City of **San Antonio CPS Energy** 

**Policies Priorities** 

**ASPIRATIONAL GOALS** 

**PATH TO THE GOALS** 

Traditional Generation Technology & Innovation Design Strategy Manage Plan & Strategy

Our decisions reflect the values & priorities of our community!

### WHY THE FLEXIBLE PATH, WHY NOW?



Technology is evolving & changing now, & at a rapid pace. Flexibility is needed for us to meet your needs & desires in a responsible way.







#### WHY FLEXIBILITY MATTERS



#### **Traditional**

(Historical)

- Predictable customer load
- Predictable customer growth
- Consistent generation levels





40+ Year Baseload Assets

**Traditional Power Plants** 

### Flexible (Future)

- Energy Efficiency
  - Equipment using less energy
  - Declining use per customer
- More Potential for Renewables
  - Intermittency in generation
  - Renewables serving off-peak hours
- New technologies on the horizon







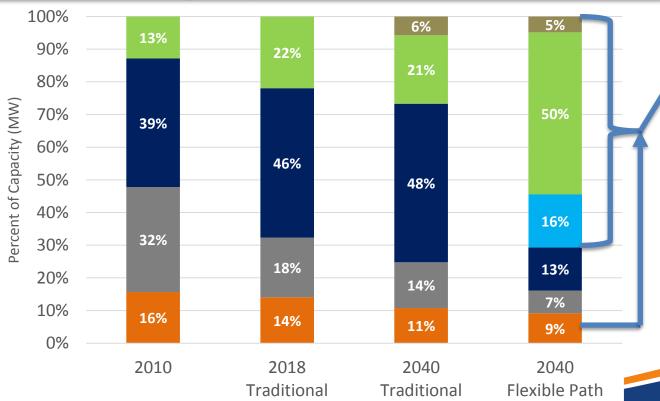
Need Ability to Adapt

Flexible Generation Path

#### FLEXIBLE PATH - CAPACITY MIX



### We will adjust our plan as new competing technologies provide more benefits



70%+!

RENEWABLES / NEW TECH

&

<u>80%!!</u>

**NON-EMMITTING** 

■ Storage/Tech

Renewables

Flex Gen

Gas

Coal

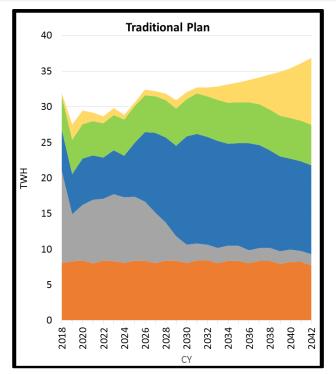
Nuclear

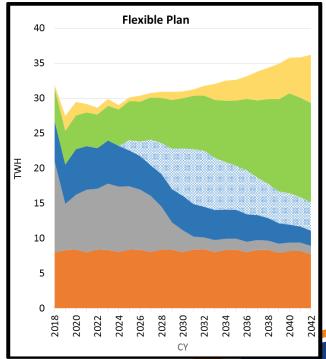
#### **ALL GEN MIX (TWh) - YEARLY**





The Flexible Path increases renewable generation & gives our customers more options



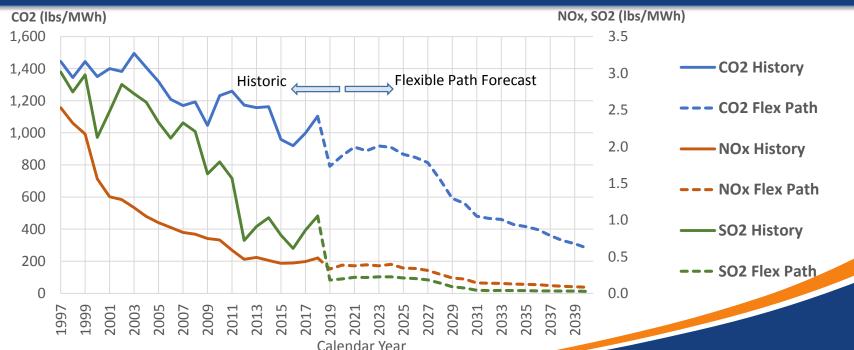




### CPS ENERGY EMISSION INTENSITY REDUCTIONS THROUGH FLEXIBLE PATH

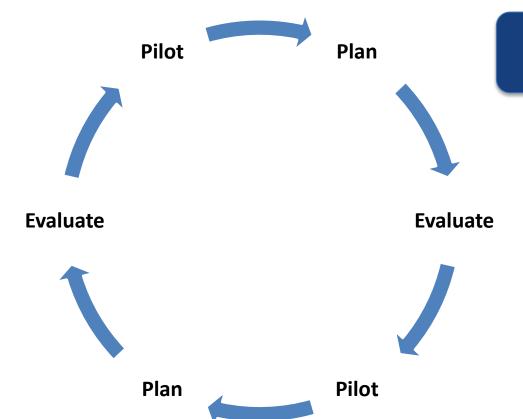


By 2040, the Flexible Path reduces the intensity of CO2, NOx, & SO2 emissions by 80%, 97%, & 99%, respectively, as indexed to 1997



# IN SUPPORT OF YOUR MISSION & GOALS





### We are being thoughtful about our city's future

- ➤ **Pilot** solar and battery storage peak shifting Pilot other battery uses
- ➤ Plan for evolving integrated processes mitigating risk and enhancing our customers experience
- **Evaluate** pilots and plan future programs

### **Our Flexible Path**

#### **IN ACTION!**

New solutions



**Energy storage** 







# FLEXIBLE PATH OUTREACH IN MOTION

# OUTREACH: FLEXIBLE PATH - COMPLETED



<b>Event Date</b>	Group	Speaker(s)	
3/8/18	San Antonio City Council	Paula Gold-Williams	$\checkmark$
3/21/18	Environmental Stakeholder Group	Paula Gold-Williams, Cris Eugster	<b>✓</b>
3/21/18	Citizens Advisory Committee	Frank Almaraz	<b>✓</b>
4/3/18	CPS Energy Spring 2018 Energy Workshop	Paula Gold-Williams	<b>√</b>
4/4/18	Real Estate Council	Paula Gold-Williams, Paul Barham	<b>✓</b>
4/10/18	San Antonio Chamber Energy & Sustainability Committee	Kathy Garcia	<b>✓</b>
4/18/18	Civic Breakfast Group	Paula Gold-Williams	<b>√</b>
5/4/18	Working Session with Environmental Group	Cris Eugster & Leadership	<b>✓</b>
5/18/18	Federal/State Delegation	Rudy Garza, Kathy Garcia	<b>✓</b>



Paula Gold-Williams @ Real Estate Council

# OUTREACH: FLEXIBLE PATH - COMPLETED



<b>Event Date</b>	Group	Speaker(s)	
5/22/18	North San Antonio Chamber Board of Directors	Cris Eugster, Cory Kuchinsky	✓
5/24/18	South San Antonio Chamber Board of Directors	Rudy Garza, Polo Moncada	<b>√</b>
5/29/18	NCTONA	Rudy Garza, Maria Garcia	<b>✓</b>
6/5/18	West San Antonio Chamber The State of Energy Attendees	Maria Garcia, Jesse Hernandez	<b>√</b>



Rudy Garza & Maria Garcia @ NCTONA Association Meeting

#### OUTREACH: FLEXIBLE PATH - SCHEDULED



Event	Group	Speaker(s)
6/13/18	CPS Energy Board Public Input Session	Paula Gold-Williams
6/18/18	New Energy Economy Partners	David Jungman POC (Speaker TBD)
6/20/18	West SA Chamber State of the Utility	Paula Gold-Williams
6/27/18	San Antonio Chamber Board of Directors	Paula Gold-Williams



# 12 "SIMPLE SUMMER SAVINGS" EVENTS











### "SIMPLE SUMMER SAVINGS" SCHEDULE



Event Date	Time	Venue	
Event Date	Time	venue	
Saturday, May 12, 2018	9:30 am – 12:00 pm	Our Savior Lutheran Church	District 8
Thursday, May 17, 2018	5:30 pm – 7:30 pm	Somerset Multi-Purpose Center	Somerset, TX
Tuesday, May 22, 2018	5:30 pm – 7:30 pm	St. Mary Magdalen	District 1
Thursday, May 31, 2018	5:30 pm – 7:30 pm	Cuellar Community Center	District 6
Saturday, June 2, 2018	9:30 am – 12:00 pm	The Neighborhood Place	District 5
Thursday, June 7, 2018	5:30 pm – 7:30 pm	Hamilton Community Center	District 10
Tuesday, June 12, 2018	5:30 pm – 7:30 pm	St. Anthony's Church Hall	Elmendorf, TX
Saturday, June 23, 2018	9:30 am – 12:00 pm	<b>Southside Lions Community Center</b>	District 3
Tuesday, June 26, 2018	5:30 pm – 7:30 pm	Hardberger Park Ecology Center	District 9
Thursday, July 12, 2018	5:30 pm – 7:30 pm	Pre-K for SA East Center	District 2
Saturday, July 21, 2018	9:30 am – 12:00 pm	Ramirez Community Center	District 4
Thursday, July 26, 2018	5:30 pm – 7:30 pm	St. Dominic Church	District 7

#### **SUMMARY**



WE ARE COMMITTED TO LISTENING

- WE WILL MAKE IMPROVEMENTS, AS NEEDED
- WE WILL CONTINUE TO CONTROL COSTS & KEEP EVERYTHING IN BALANCE

• OUR FLEXIBLE PATH IS "FLEXIBLE"



#### Thank You

#### **GLOSSARY**



- <u>SIMPLY SOLAR</u>: Thinking about going solar? Our customers now have three options for expanding solar in our community. And Simply Solar is CPS Energy's "seal of approval" for all three options: <u>Roofless Solar, Solar Host & Bring Solar Home</u>
- **CASA VERDE**: Casa Verde offers eligible customers an average of \$5,000 in free energy saving improvements that can lower their bill, especially during the summer and winter months. Recipients save an average of \$350 a year on their energy bill.
- **SAVE NOW**: CPS Energy offers a wide range of rebate programs and low cost/no cost solutions to help you save money. Marketed under the Save Now umbrella, these programs are available to both residential and commercial customers. Examples include incentives to upgrade equipment, like AC units, lighting, and pool pumps. We also offer Home Energy Assessments and Express Building Tune-ups to help you be more energy efficient.
- MY THERMOSTAT REWARDS: We now have even more options to help you to manage your energy use! With My Thermostat Rewards, you can receive a free, installed, programmable thermostat (\$300 value) from CPS Energy or purchase your own qualified Wi-Fi model, install it yourself, and get a valuable bill credit from CPS Energy.
- <u>DEMAND SIDE MANAGEMENT (DSM)</u>: The modification of customer's energy demand through various efficiency programs and methods such as financial incentives and behavioral change through education.