



# Entergy New Orleans, LLC

Council's UCTTC Meeting

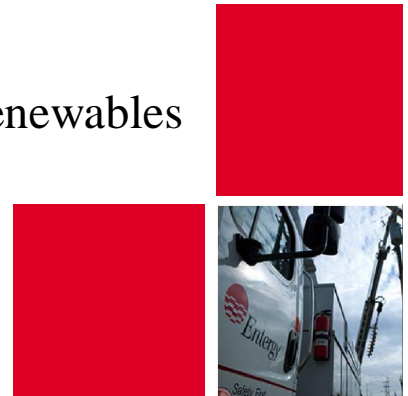
February 14, 2019

# Comprehensive Settlement Offer

Entergy New Orleans proposes a Comprehensive Settlement\* related to Show Cause in Council's Resolution R-18-464. This settlement package includes the following:

- A \$5 million settlement payment
- Third-party ethics training for management-level employees and a revised code of ethics
- Work with the S&WB to provide a reliable power source for their facilities
- Specific additional efforts to reduce outages on the distribution system
- Regular reports on NOPS construction and maintenance costs
- Regular reports on available technologies as a part of the triennial integrated resource plan (IRP)
- Annual reports of NOPS emissions data as submitted to the Louisiana Department of Environmental Quality
- Evaluation of deal structures to facilitate a quicker resolution of the renewables portfolio

\* ENO makes this offer with full reservation of its legal positions.



# Entergy New Orleans and Sewerage & Water Board Collaboration

Entergy New Orleans has formed a Joint Reliability Team to develop short, mid, and long-term options to help with the S&WB's reliability issues.

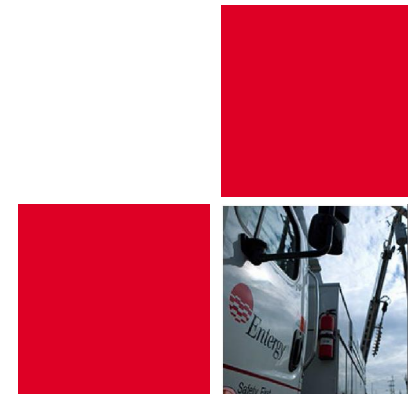
- Short-Term Risk Mitigation: Southport and Joliet Substations
  - Enhanced feeder maintenance and provide monthly infrared inspections
  - Install new primary and backup relaying on transformers
  - Improved communication between Entergy and S&WB
- Mid-Term Improvement Options
  - Option 1 – Sycamore Vault Upgrade
    - Add 2<sup>nd</sup> source of power to vault via dedicated feeder source
    - Upgrade to higher capacity and install automatic transfer switch
  - Option 2 – Fast Bus Transfer
    - Install new vault to house 'fast bus' transfer equipment
- Long-Term Solution
  - Build Transmission Level Service 230/24kv Substation
  - Optimize Electrical Operations



# Renewable Energy – Solar Projects

Entergy New Orleans is excited about incorporating more renewable energy, specifically solar, into our generation mix.

- 5 MW Commercial Scale Rooftop Solar Project with a potential to scale up to 20 MW
- Pursuing approval of an additional 90 MW renewable energy including 20 MW located in New Orleans
- These efforts, added to the company's 1 MW solar power plant with battery storage in New Orleans East, demonstrate our commitment to finding innovative ways to bring renewable energy resources to Orleans Parish



# New Orleans Power Station

## *Reciprocating engines\**

- 128 MW, natural gas-fired
- Fast-start ability to reach full power within minutes
- Smaller reliable source of peaking and reserve capacity
- Assist with grid stability and storm restoration by providing a local source of generation
- Lower emissions
- Minimal groundwater usage



*\* Reciprocating engines are the same engines used extensively in cars and trucks, although on a larger scale for power generation. In addition, they include self-start capability, which enables the company to start the unit even when there is no power on the electric grid.*



# WÄRTSILÄ – USA PLANT REFERENCES



**Alabama - 41 MW**  
Mobile Bay 41 MW (1998)

**Alaska - 247 MW**  
Eklutna GS (MEA) 171 MW (2012)  
City of Ketchikan 10 MW (1996)  
Red Dog 40 MW(2000,1999,1993,1988)  
Unalaska 6 MW (1998)  
Dutch Harbor 10 MW (2004)  
Nome 10 MW (2004)

**Arizona - 188 MW**  
Sundt (TEC) 188 MW (2017)

**Arkansas - 18 MW**  
City of Paragould 18 MW (2000)

**California - 270 MW**  
Modesto (MID) 50 MW (2008)  
Humboldt (PG&E)163 MW (2008)  
Red Bluff (S&S) 57 MW (2001)

**Colorado - 229 MW**  
Plains End I (TYR) 113 MW (2001)  
Plains End II (TYR) 116 MW (2006)

**Florida - 102 MW**  
South Energy Center (GRU) 8 MW (2015)  
Tallahassee Substation 12 19 MW (2017)  
Tallahassee Hopkins 94 MW (2017,2019)

**Hawaii - 82 MW**  
Kauai Utility 32 MW (1991)  
Scofield (HECO) 50 MW (2015)

**Illinois - 25 MW**  
University of Illinois Chicago 25 MW (1999)

**Indiana - 8 MW**  
City of Rensselaer 8 MW (2005)

**Kansas - 171 MW**  
Midwest Energy 76 MW (2007)  
Midwest Energy 28 MW (2014)  
City of Iola 11 MW (1999)  
Coffeyville 56 MW (2015)

**Louisiana - 209 MW**  
City of Alexandria 65 MW (2014)  
El Paso 16,000 Hp - 12 MW (1990)  
Entergy NOPS 132 MW (2018)

**Maryland - 20 MW**  
BG&E 14 MW (2001)  
Calvert Cliffs (BGE) 6 MW



**62 Plants - Total Capacity 3,565 MW**

(2019) Plant Order Date

● Power Plants greater than 100 MW

Plants Under Construction (8)

- ★ Wärtsilä Headquarters for the Americas
- ★ Wärtsilä Service Centers & Offices
- ★ Greensmith Offices

**Michigan - 256 MW**  
(1999) Detroit Airport 17 MW  
(2015) Marquette Energy Center 51 MW  
(2017) Baraga (WEC) 56 MW  
(2017) Negaunee WEC 132 MW

**Minnesota - 103 MW**  
(2011) Hutchinson (HUC) 9 MW  
(2017) Westside (RPU) 47 MW  
(2015) Shakopee (MMPA) 47 MW

**Mississippi - 35 MW**  
(1999) Batesville (KM) 16,000 Hp 12 MW  
(2017) Benndale W31 (CE) 23 MW

**Missouri - 12 MW**  
(2000) City of Kennett 12 MW

**Montana - 18 MW**  
(2014) Sydney (MDU) 18 MW

**Nebraska - 9 MW**  
(2016) Falls City 9 MW

**Nevada - 118 MW**  
(2004) Western 102 (Barrick) 118 MW

**New Jersey - 9 MW**  
(2001) Mannington (DCO) 9 MW

**New Mexico - 47 MW**  
(2010) Lovington (LCEC) 47 MW

**North Dakota - 112 MW**  
(2014) Pioneer III (BEPC) 112 MW

**Ohio - 11 MW**  
(2004) Miami Univ 11 MW

**Tennessee - 12 MW**  
Portland (KM) 16,000 Hp 12 MW (1999)

**Texas - 854 MW**  
Denton Energy Center (DME) 225 MW (2016)  
Antelope (Golden Spread) 170 MW (2009)  
Greenville (GEUS) 25 MW (2008) (2014) Stillwater (SEU) 56 MW  
Pearsall (STEC) 203 MW (2008)  
Red Gate (STEC) 225 MW (2012)  
Moss Bluff 8,000 Hp 6 MW (2013) Port Westward 2 (PGE), 225 MW  
(2001) Albany (Wah Chang) 16 MW

**Washington - 39 MW**  
Boulder Park (Avista) 32 MW (2001)  
Olympic View (MCPUD3) 7 MW

**Pennsylvania - 23 MW**  
(2002) Chambersburg 23 MW