

# EIA-930 Hurricane Irma Impact Tracking Report

## Monday September 11, 2017, 19:00 hours



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*For additional information contact:*

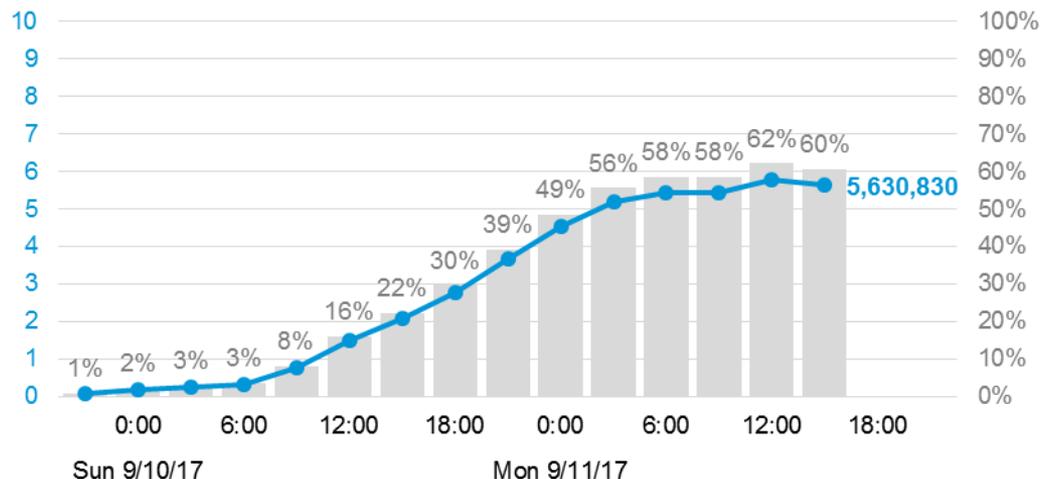
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# Florida's Top 10 Utilities by Customer Size

## Power Outages

### Power outages in Florida's 10 largest utilities

million customers

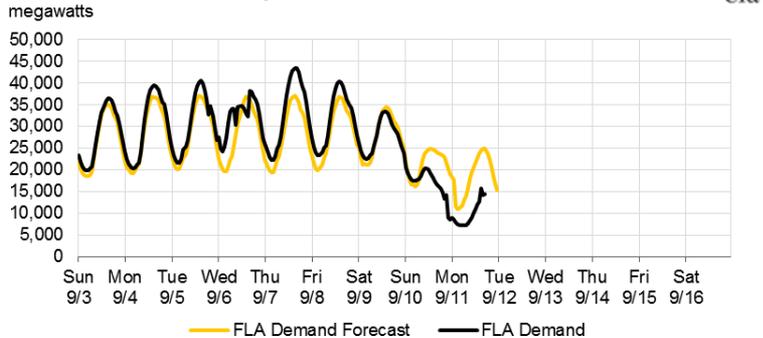


- Power outages in Florida's 10 biggest utilities as of 3 pm Monday affected 5.6 million customers—60% of the utilities' customers. Outages declined slightly from 12 pm Monday.

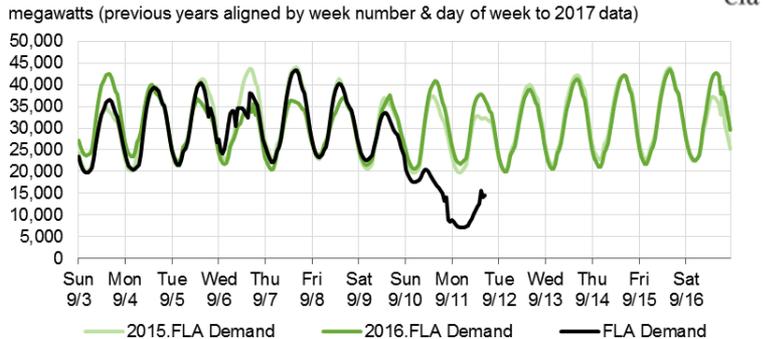
Source: EIA based on data collected from utility outage websites

# Florida Region (FLA)

## Current demand vs. day-ahead forecast



## Current demand vs. 2015 and 2016



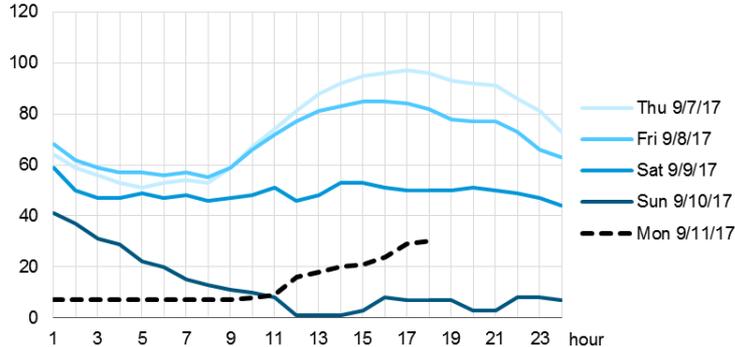
- Aggregate electricity demand (dashed line) for Florida balancing authorities fell most of Sunday and early Monday reaching a low of ~7,200 MW between 4-7 am Monday (compared to ~20,000 MW on similar days in 2015/2016). Demand has increased over the day but remains lower than the forecast for today and significantly lower than previous years.
- Much of the movement in demand appears to be due to Florida Power & Light, the state's largest utility.

Source: EIA, Hourly and Daily Balancing Authority Operations Report (EIA-930) [https://www.eia.gov/beta/realtime\\_grid](https://www.eia.gov/beta/realtime_grid)

# City of Homestead Balancing Authority (HST)

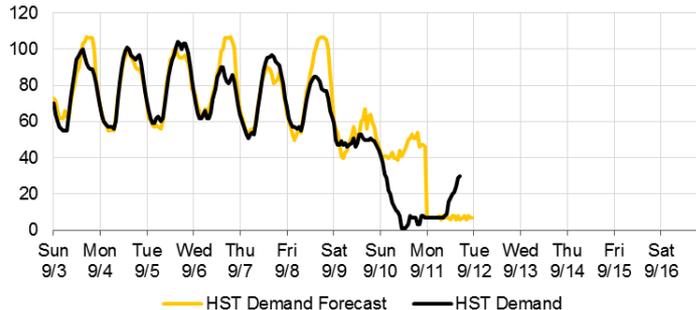
City of Homestead (HST) past 5 days demand

megawatts



Current demand vs. day-ahead forecast

megawatts



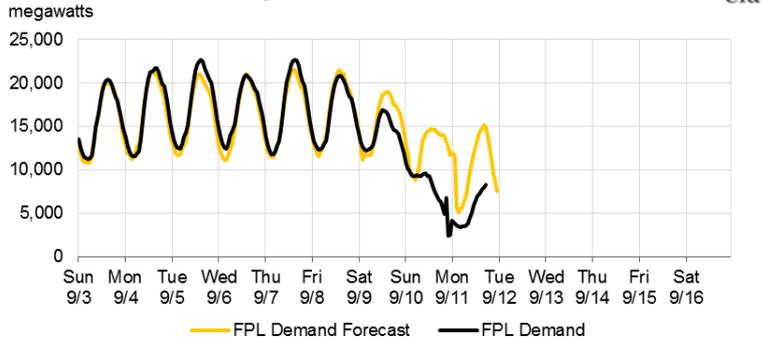
Source: EIA, Hourly and Daily Balancing Authority Operations Report (EIA-930) [https://www.eia.gov/beta/realtime\\_grid](https://www.eia.gov/beta/realtime_grid)

Homestead is located on the southeast coast of Florida and is one of the first U.S. cities and balancing authorities to experience the hurricane.

- Demand in Homestead dropped to zero around noon yesterday and remained at low levels through Sunday and Monday until starting what appears to be a recovery around noon today. Demand remains significantly lower than pre-hurricane levels however.
- Recovery may have begun sooner than expected given that their forecast for today was flat for the entire day at the previously seen low levels (<10 MW).

# Florida Power & Light Balancing Authority (FPL)

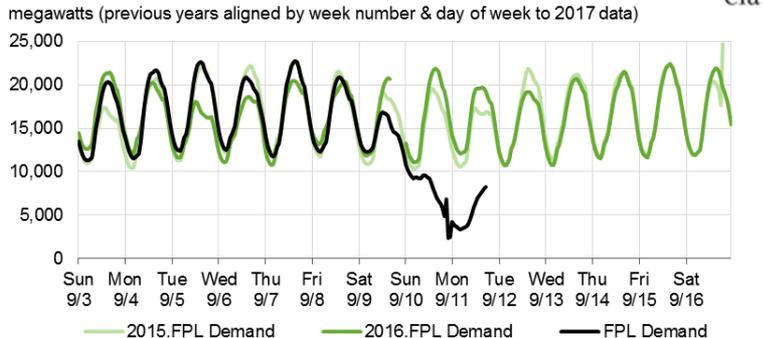
## Current demand vs. day-ahead forecast



FPL is Florida's largest utility serving most of southern Florida and along its east coast (see map on last slide).

- Electricity demand today (black line) shows the same pattern as demand for the Florida region—falling most of Sunday to a low during the early hours of Monday morning before rising over the day but still remaining lower than both the day's forecast (yellow line) and comparable days in previous years (green lines).

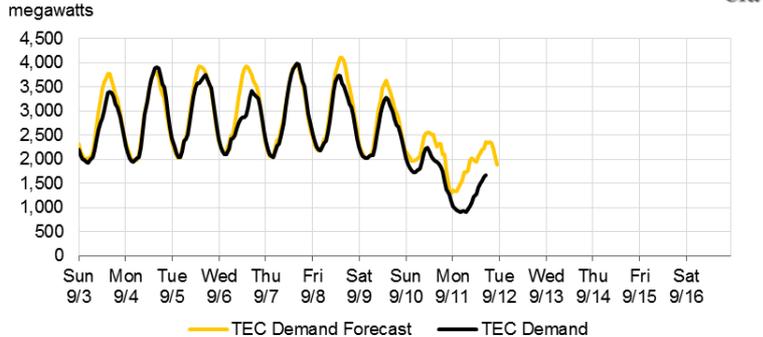
## Current demand vs. 2015 and 2016



Source: EIA, Hourly and Daily Balancing Authority Operations Report (EIA-930) [https://www.eia.gov/beta/realtime\\_grid](https://www.eia.gov/beta/realtime_grid)

# Tampa Electric Balancing Authority (TEC)

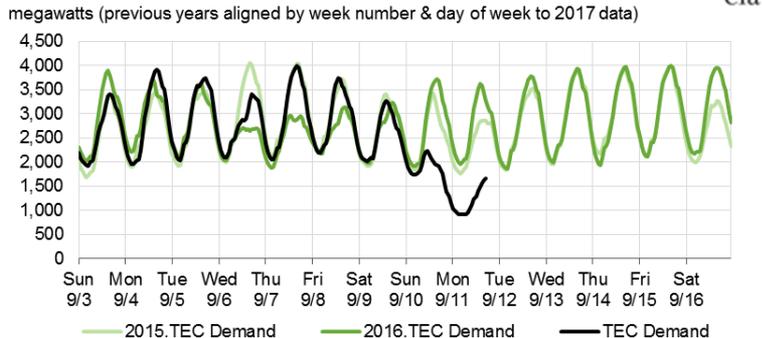
## Current demand vs. day-ahead forecast



Tampa Electric serves the City of Tampa halfway up the west coast of the Florida peninsula.

- Tampa avoided a direct hit by the hurricane. Actual demand (black line) trended below forecast (yellow line) and remains well below demand on comparable days in previous years (green lines).

## Current demand vs. 2015 and 2016

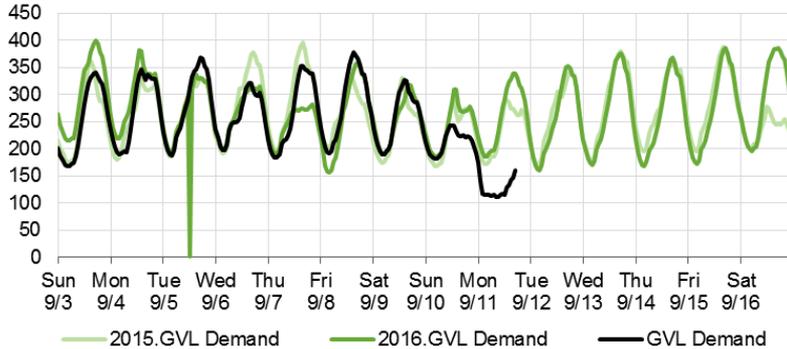


Source: EIA, Hourly and Daily Balancing Authority Operations Report (EIA-930) [https://www.eia.gov/beta/realtime\\_grid](https://www.eia.gov/beta/realtime_grid)

# Gainesville Regional Utilities Balancing Authority (GVL)

## Current demand vs. 2015 and 2016

megawatts (previous years aligned by week number & day of week to 2017 data)



Gainesville is a municipal utility located in the middle of the northern part of the Florida peninsula.

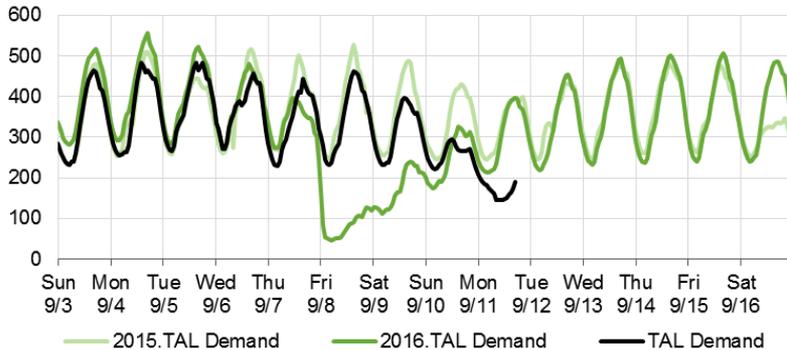
- Electricity demand (black line) flat lined on Monday until about 1 pm and has started to rise again but remains well below demand on comparable days in 2015/2016 (green lines).

Source: EIA, Hourly and Daily Balancing Authority Operations Report (EIA-930) [https://www.eia.gov/beta/realtime\\_grid](https://www.eia.gov/beta/realtime_grid)

# City of Tallahassee Balancing Authority (TAL)

## Current demand vs. 2015 and 2016

megawatts (previous years aligned by week number & day of week to 2017 data)

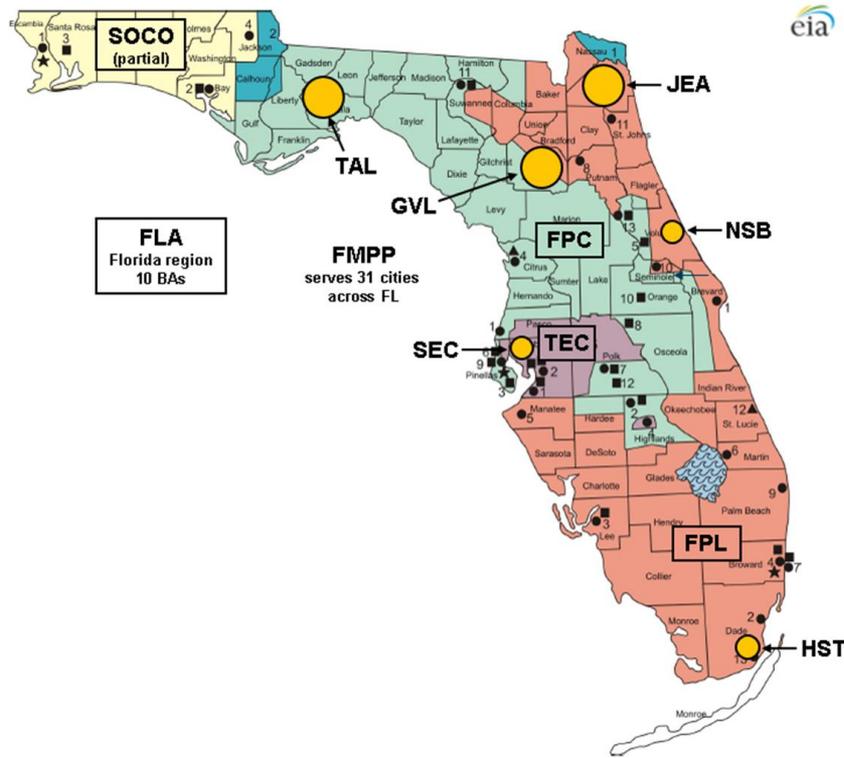


Tallahassee is a municipal utility located in the Florida panhandle.

- Tallahassee stopped reporting data around 8 am this morning, which is when the hurricane was estimated to reach the Tallahassee area. Data submissions resumed this evening at 7 pm and show that demand dipped down after 8 am this morning and remained there for a few hours before rising back up in the afternoon/evening.
- Note the demand for 2016. This reflects the direct hit Tallahassee sustained from Hurricane Hermine.

Source: EIA, Hourly and Daily Balancing Authority Operations Report (EIA-930) [https://www.eia.gov/beta/realtime\\_grid](https://www.eia.gov/beta/realtime_grid)

# Balancing Authorities and Utility Service Territories in Florida



- TAL: City of Tallahassee
- JEA: Jacksonville Electric Authority
- GVL: Gainesville Regional Utilities
- NSB: City of New Smyrna Beach
- FPC: Florida Power Corp.
- TEC: Tampa Electric Co.
- SEC: Seminole Electric Cooperative
- FMPP: Florida Municipal Power (serves 31 cities across the state)
- FPL: Florida Power & Light
- HST: City of Homestead
- SOCO: Southern Company (partially in Florida, not included in FLA region total)

Source: Florida Public Service Commission as augmented by EIA