

# Centennial Campus

## Town Hall Meeting



# **Centennial Campus-Wide Outage: Saturday, March 31, 2018**

(Backup date: Sunday, April 15, 2018)

## **POWER OUTAGE**

Approximately  
7:30 am - 5 pm

## **STEAM AND CHILLED WATER OUTAGE**

Approximately  
5:30 am - 9:30 pm

Additional localized outages are anticipated over the next year.



# Centennial Campus

## Energy Grid Enhancement Projects





In the 1990s



Today



**WHY?**

The energy projects will boost **reliability**,  
improve **efficiency** and  
prepare for **future energy demand**.

## **ADD: Electrical Circuit and Transformer**

This improves reliability by distributing energy on multiple circuits, providing backup power and creating capacity for campus growth.

## **ADD: Cogeneration at Central Utility Plant**

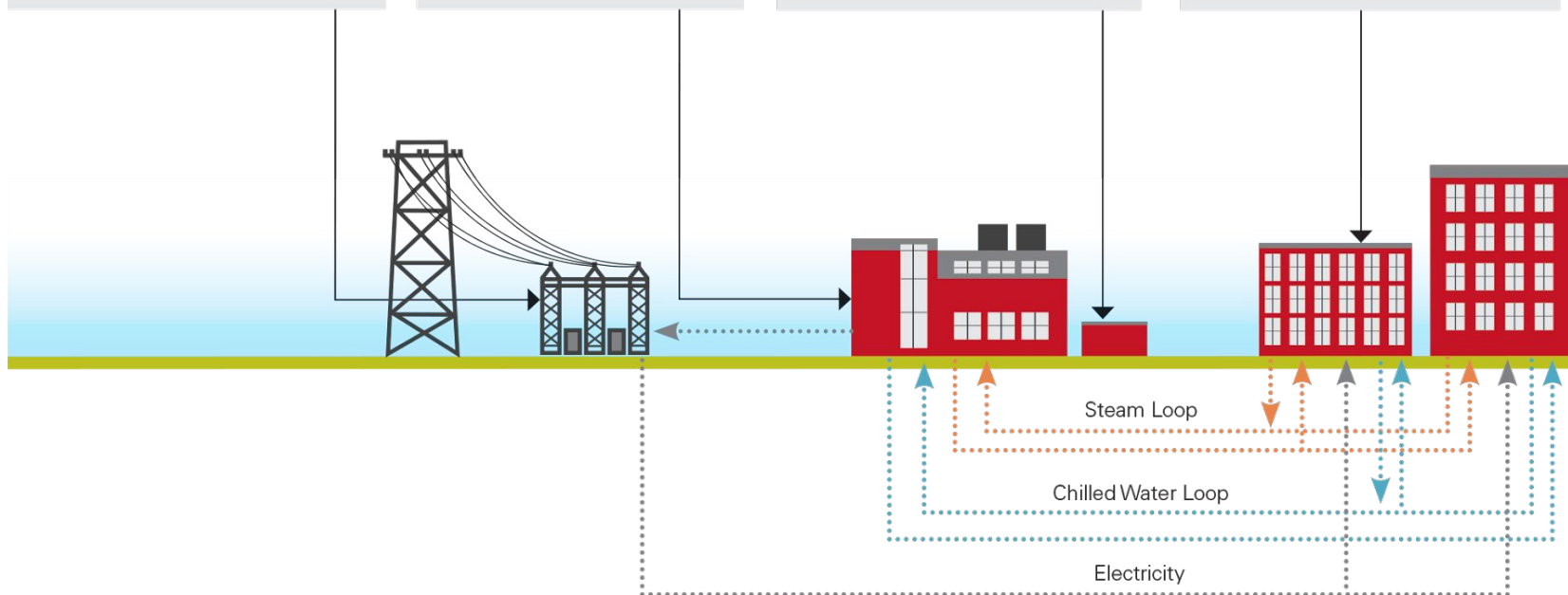
This enables energy generation on campus. By recovering waste heat and converting it to steam, efficiency increases by 40%.

## **ADD: Thermal Energy Storage Tank**

This allows chilled water to be created when electricity is cheapest and stored for use when electricity is most expensive.

## **ADD: Thermal Distribution Upgrades**

This connects additional campus buildings to steam and chilled water supplied by the Central Utility Plant. This creates long-term savings and efficiency.



**Centennial Campus energy grid delivers quality, dependable power to a complex research campus. Here's how:**

**1** Duke Energy Progress provides electricity to a campus-owned substation that distributes energy to buildings.

**2** Central Utility Plant produces chilled water and steam as an additional and more efficient power source.

**3** Chilled water and steam are piped underground to buildings as part of a looped system.



# **These Buildings Are Not Impacted**

**Centennial Campus Middle School**

**Friday Institute**

**1801 Varsity Drive Building**

**1801 Varsity Drive Parking Deck**

**The Greens Apartments**

**The North Shore Condominiums**

**Venture 1**

**Venture 2**

**Venture 3**

**Venture 4**

**Venture Place**

**Venture Deck**

**Wildlife Resources Center**

**WRC Parking Deck**



# These buildings are impacted by the electricity outage

(Impacts power, HVAC, phone, lights, internet)

APPROXIMATELY 7:30 AM - 5 PM

- Alliance 1 and Alliance Deck
- BTEC - Golden Leaf Building
- Centennial Campus Utility Plant
- Centennial Campus West Deck
- Center of Technology & Innovation and CTI Deck
- Conference and Convention Center Parking Deck
- Constructed Facilities Lab
- Engineering Building 1, 2 and 3
- Hunt Library and Parking Deck
- Keystone Building
- Landscape Construction Services Bldg
- Lonnie Poole Clubhouse and Course
- Monteith Research Center and Monteith Deck
- Oval West Parking Deck
- Park Alumni Center
- Partners 1, 2 and 3
- Partners Way Parking Deck
- Poulton Building and Poulton Deck
- Research 1, 2, 3 and 4
- Re-use Water Pump house
- State View Hotel
- Streetlights (All)
- Textiles
- The Point - Chancellor's Residence
- Toxicology Building and Parking Deck
- Wolf Ridge Apartments

**Additionally, these  
buildings are impacted  
by the chilled water  
and steam outage**

**APPROXIMATELY 5:30 AM - 9:30 PM**

- **BTEC - Golden Leaf Building**
- **Centennial Campus Utility Plant**
- **Center of Technology & Innovation**
- **Engineering Building 1, 2 and 3**
- **Hunt Library**
- **Partners 1 and 3**
- **Poulton Innovation Building**
- **Textiles**
- **Wolf Ridge Apartments**





# Assessing Critical Impacts



*Find your facilities coordinator at  
<https://facilities.ofa.ncsu.edu/facilities-coordinators/>*



# Next Steps

Coordinate with your Facilities Coordinator to complete Impact Assessment by 1/19/18 at [go.ncsu.edu/CentennialEnergy](https://go.ncsu.edu/CentennialEnergy)

*Find your facilities coordinator at  
<https://facilities.ofa.ncsu.edu/facilities-coordinators/>*





Complete online by 1/19/18  
**[go.ncsu.edu/CentennialEnergy](http://go.ncsu.edu/CentennialEnergy)**

Centennial Campus Energy Project -  
Impact Assessment

You may edit your response at any time.

\* Required

Name: \*

Your answer

E-mail \*

Your answer

Department/Organization \*

Your answer

Building \*

Choose

Please Describe Your Critical Impact Concern:

Your answer

SUBMIT

Never submit passwords through Google Forms.

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# Questions?

