Integrated Resource Plan Community Meeting

November 6, 2023

GRU More than Energy IRP

Integrated Resource Plan

Get Connected | A community engagement process.

Welcome

Eric Walters

Interim Chief Sustainability Officer

Integrated Resource Plan

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Welcome

Cantrece Jones
Acuity Design Group

Community Meeting #3 Agenda

Community Meeting Overview
Cantrece Jones, Acuity Design Group Team

GRU Electric System Overview
Chuck Heidt, Project Engineer and IRP Technical Lead, GRU

GRU's Mission and the IRP
Eric Walters, Interim Chief Sustainability Officer, GRU

What is an IRP?
Cantrece Jones, Acuity Design Group Team

Q&A

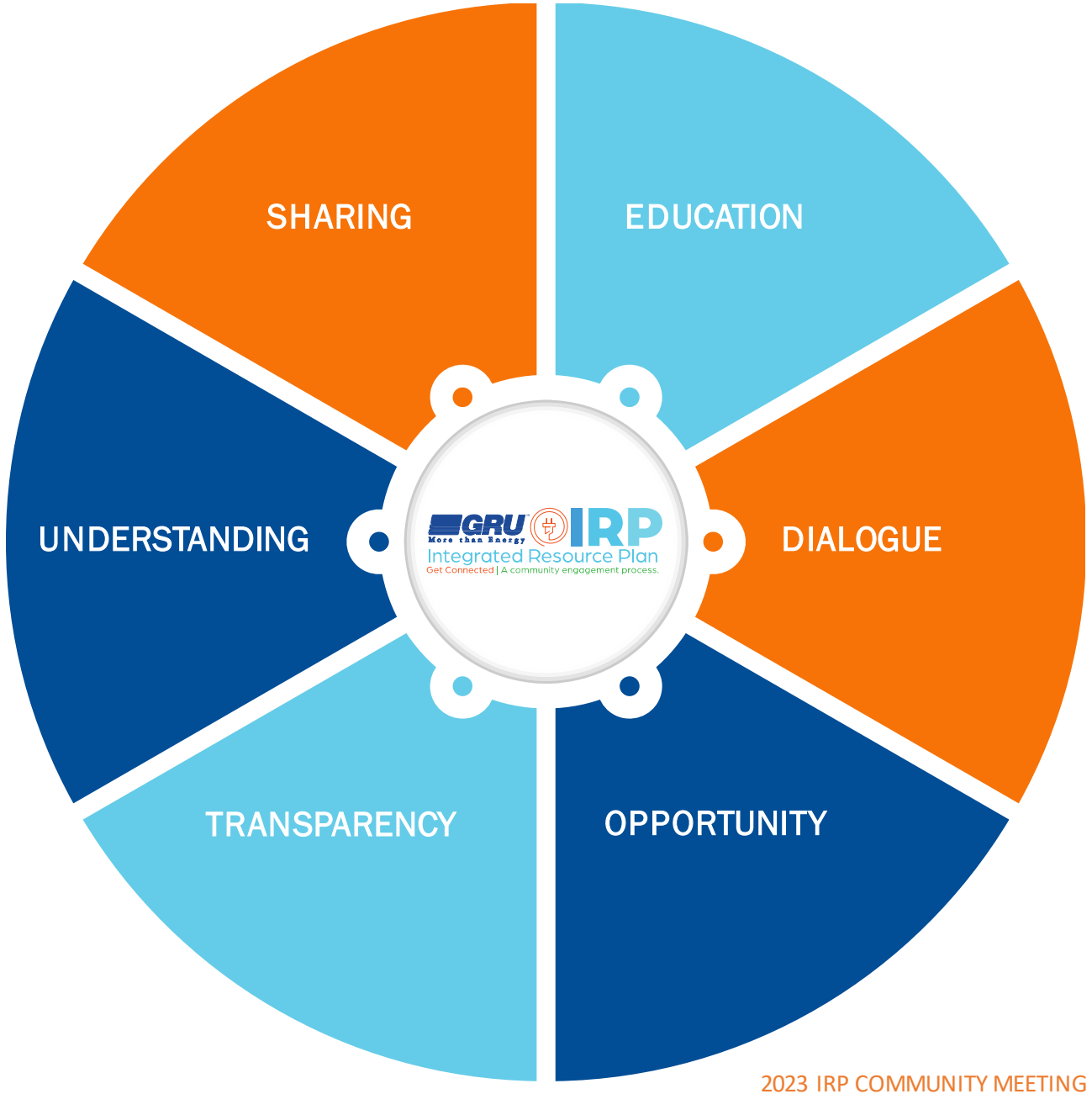
Community Participation Overview

- *Those who would like to submit a question related to the Integrated Resource Plan (IRP) must fill out a speaker card for each question. We will address them at the end of the presentation.*
- *Comments related to the IRP can be written on the comment cards provided.*
- *Your comments and questions are public record; please provide the appropriate contact information.*
- *If you have any additional comments or questions related to the IRP, please send them to:* IRP@gru.com.
- *Responses to comments and questions related to the IRP will be posted to the GRU website (www.gru.com/IRP)*

Participation Guidelines

You represent the diverse community we serve.

We appreciate the value that your time and effort will bring to the future of GRU and our region.



What is Important to YOU?

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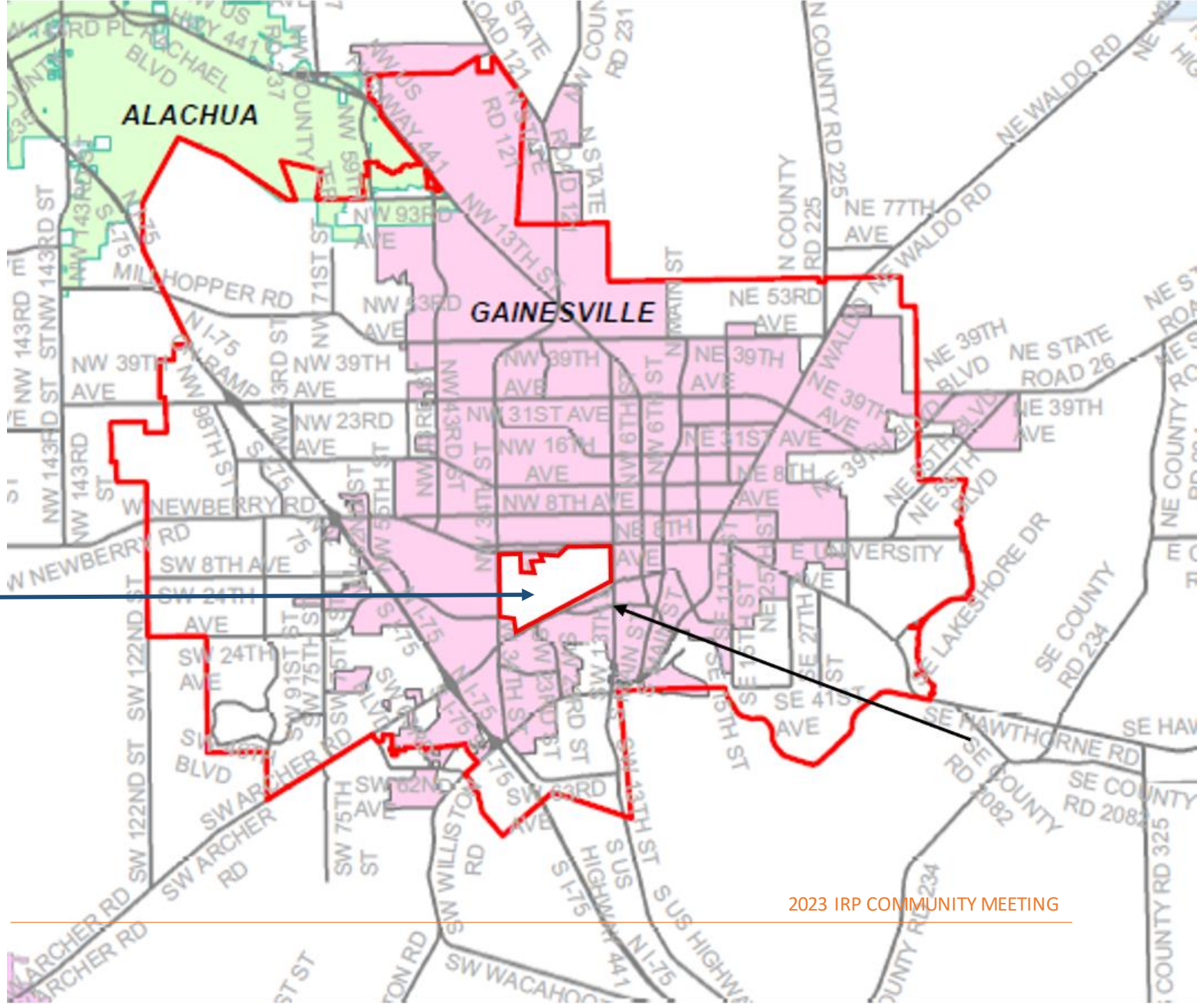
GRU Electric System Overview

Chuck Heidt

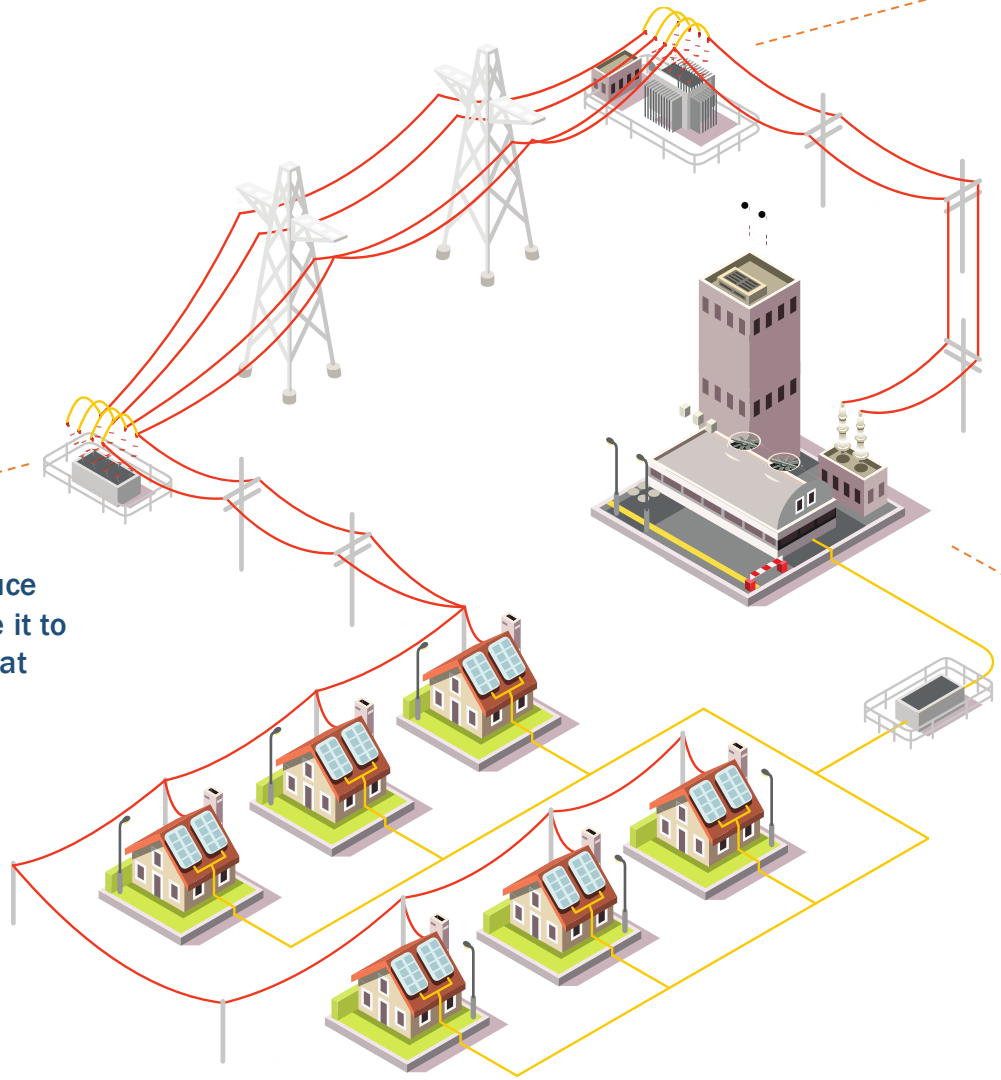
Project Engineer and IRP Technical Lead, GRU

GRU's Service Territory

UF Main Campus (not served by GRU)



How GRU's Electrical System Works



Transmission

Electric current then moves to an interconnected group of power lines and other equipment. These lines move electricity from its source, often transmitting high voltage electric current across great distances.

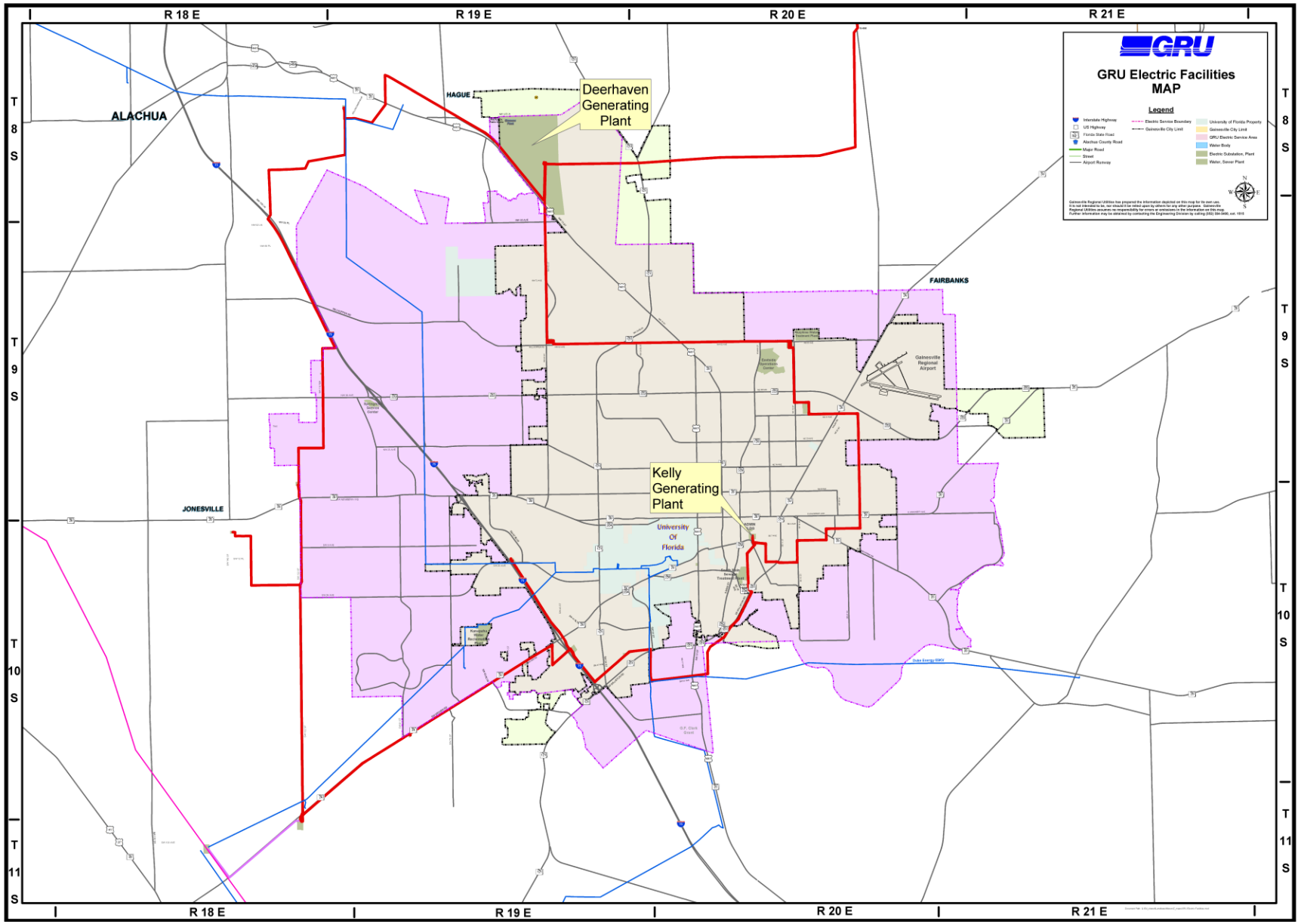
Distribution

Devices called transformers then reduce the voltage of the electricity and move it to another set of lines and equipment that connect directly to the homes and businesses in our community.

Generation

Electricity is generated when certain forces interact with energy resources–sunlight, wind, water, natural gas, coal, oil, nuclear. Various processes convert the potential energy from these resources to electric current, which is the movement of charged particles.

Electric Facilities Map



Electric Transmission & Distribution Assets

TRANSMISSION

GRU's bulk electric power transmission network (System)

- **The System is planned, operated, and maintained to be in compliance with all FERC, NERC, and FRCC requirements to assure the integrity and reliability of Florida's Bulk Electric System (BES).**

The System consists of a 230 kV radial and a 138 kV loop connecting the following:

- **GRU's three primary generating stations**
- **GRU's eleven distribution substations**
- **One 230 kV and one 69 kV intertie with Duke Energy Florida (DEF)**
- **A 138 kV intertie with Florida Power and Light Company (FPL)**
- **An interconnection with Clay at Farnsworth Substation**
- **An interconnection with the City of Alachua at Alachua No. 1 Substation**

DISTRIBUTION

72 distribution circuits feeding 1,458 miles of 12KV distribution circuits with 62.1% underground.

GRU's Mission

Eric Walters

Interim Chief Sustainability Officer

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GRU's Mission

- About GRU:
  - Multi-service utility owned by the City of Gainesville
  - 5th largest municipal electric utility in Florida
  - We serve approximately 100,000 electric customers in Gainesville and surrounding areas, offering:
    - Electric
    - Natural gas
    - Water
    - Wastewater
    - Telecommunications services

Mission:

To provide safe, reliable, competitively priced utility services in an environmentally responsible manner to enhance the quality of life in our community

GRU's Sustainability

What is Sustainability?

- The ability to maintain or support a process continuously over time:
  - Meeting present needs without compromising the ability of future generations to meet their needs
  - In one word: Stewardship
- Three pillars of Sustainability:
  - People
  - Economic
  - Environmental

GRU's Sustainability

Balancing Act

- People
  - Customers
  - Employees
  - Community
- Economic
  - Fiscal Responsibility
  - Find Efficiencies
  - Recognize the long-range path to financial responsibility
- Environmental
  - Protection
    - GRU has a culture of "more than meeting" regulations
  - Intentional Planning

GRU's Renewable Energy

- GRU current renewable generation (~139 MW total):
  - ~18.5 MW of solar feed-in tariff
  - ~14 MW of net-metered solar
  - 103 MW biomass
  - 3.8 MW landfill gas
  - Highest percentage of renewable energy in the state
- Renewable utility-scale options available in Florida: solar and biomass
- Solar will play a significant role in GRU's future

Why is GRU doing an IRP now?

- An IRP is a strategic look at future generation needs and how to meet them
- Performed periodically
- Last IRP was completed in 2019
  - 15 unique scenarios were modeled
  - Common recommendations were completed
  - No long-term path was selected
- Significant changes in pricing and available technology
- Energy landscape has shifted dramatically
- The IRP will inform GRU's decision related to resource planning

What Does the IRP Mean for the Community?

- We are glad that you are here
- Touch point for community
- Input to how the community meets its energy needs
- Economic and environmental input

What is an IRP?

Cantrece Jones
Acuity Design Group

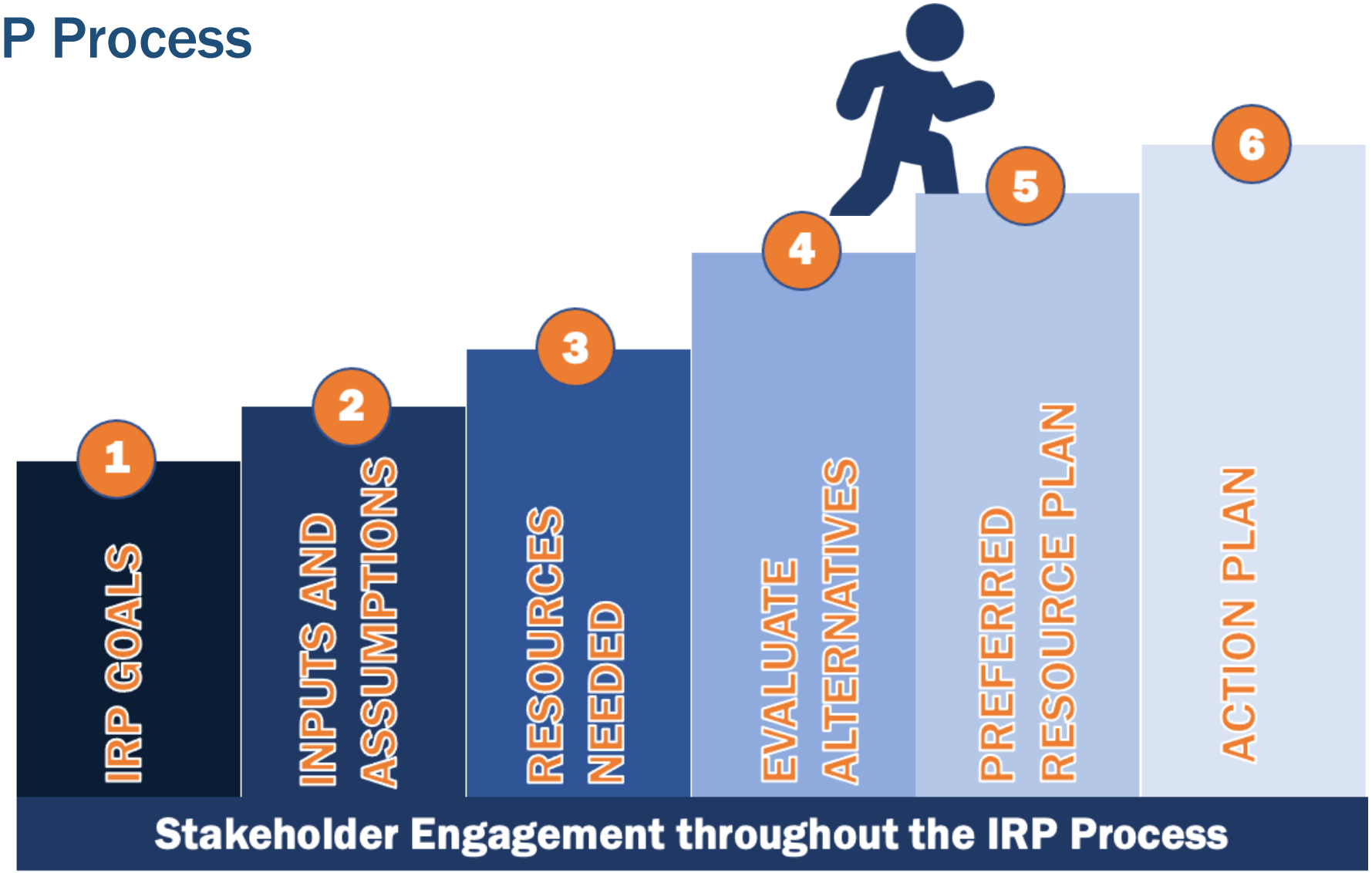
What is an Integrated Resource Plan?

- Integrated Resource Plan (IRP) is standard practice within the electric utility industry
- Specific to GRU, the IRP will provide a roadmap to meet the future power requirements of the Gainesville community
- IRP is used as a resource for strategic planning to inform GRU's decisions related to:
  - Economics
  - Reliability
  - Environmental Responsibility

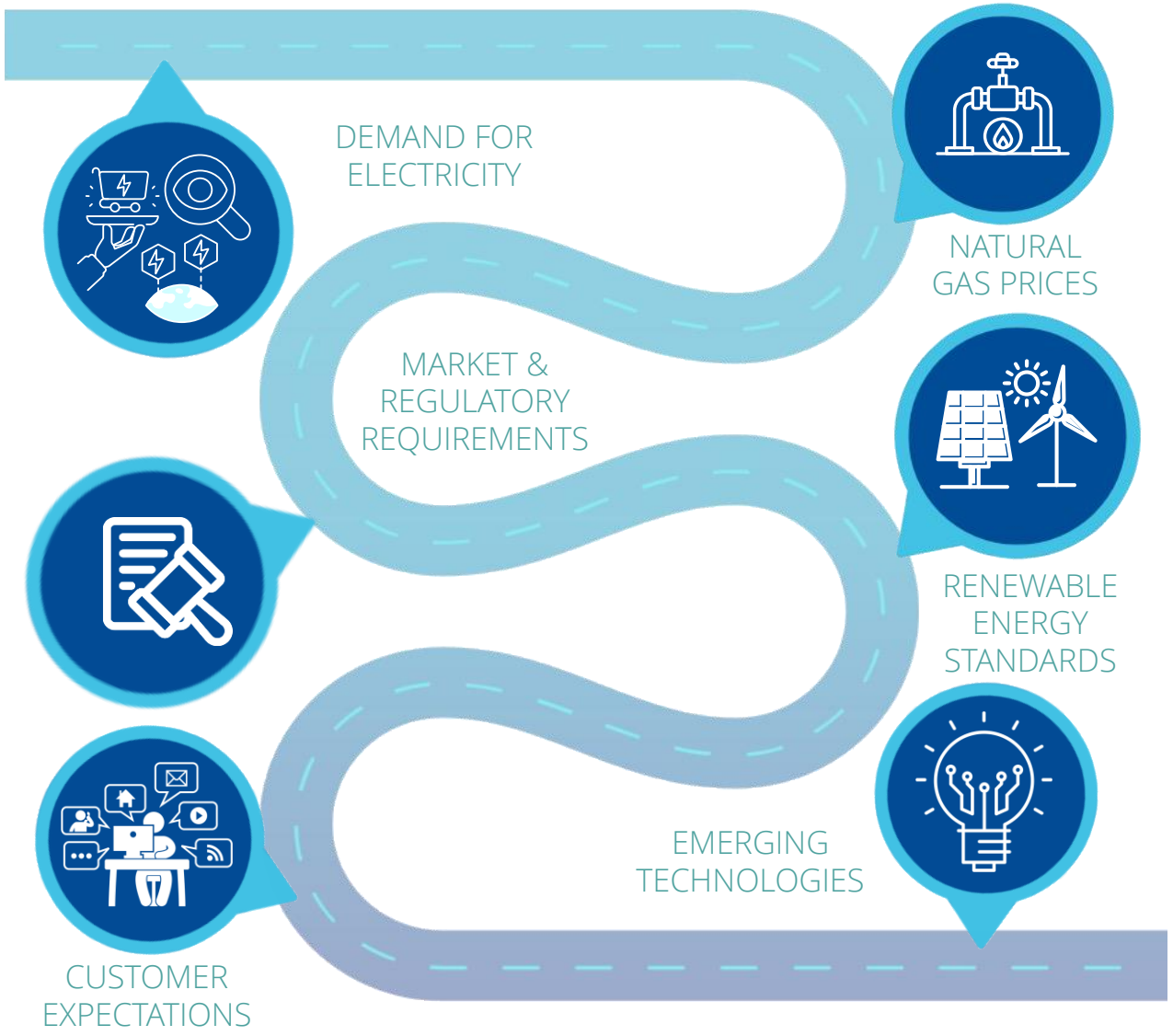
IRP Considerations

- Existing generating resources
- Demand and energy forecasts
  - Customer growth
  - Electrification
  - Electric vehicles
  - Customer-sited renewables
  - Demand-side management/energy efficiency/conservation
- Natural gas, coal, and biomass fuel price projections
- New generating resources
  - Renewables
  - Conventional
- Emissions of carbon dioxide (CO_2)

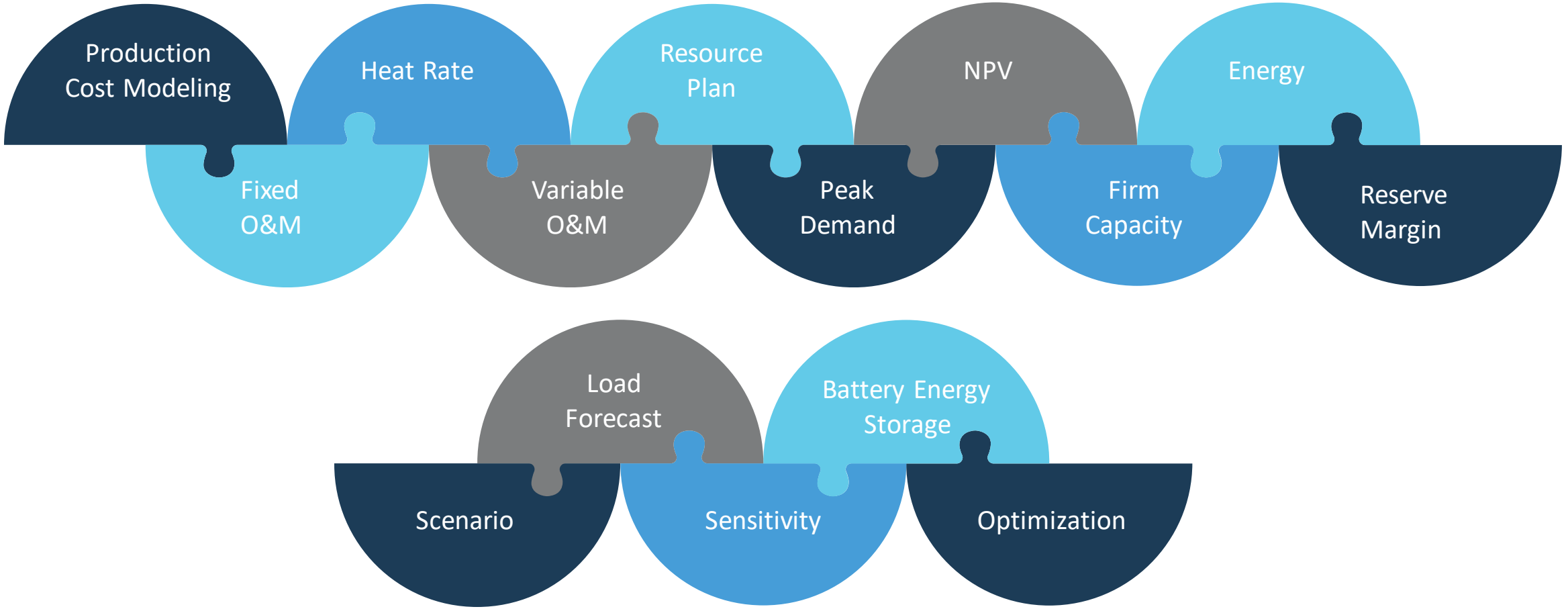
The IRP Process



The IRP Process



Integrated Resource Plan Terms



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Thank you!

For more information about the IRP and to sign up for notifications email us at IRP@gru.com and visit the website for updates gru.com/IRP