

# GRU Solar

## Solar Snapshot

October 25, 2021



# GRU Solar

## *Key Takeaways*

- GRU was an early pioneer of behind-the-meter solar in Florida
- Today, GRU's mission is to pursue commercial-grade solar projects
- All solar generation currently produces challenges for utilities
- Solar will play a significant role in GRU's future generation portfolio

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## *Current Profile*

***Solar Feed-in-Tariff (FIT) – Primarily commercial solar installations that pay owners per unit of energy sent to the grid***

- 258 projects adding up to 18.5 MW
- 20-year contracts
- First contract in 2009
- Program suspended in 2013
- Final contract expires in 2034

***Net Metering – Rooftop solar installations***

- 742 customer projects adding up to 11.8 MW
- Ongoing

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## *Near-Future Profile*

### *Power Purchase Agreement with Origis Energy*

- 50-megawatt solar facility
- Battery system to compensate from loss of sunlight (among largest in state)
- No associated rate increases
- ~10,000 homes powered
- 68,000 tons of avoided carbon emissions each year

### *Excellent Terms*

- 20-year contract with two additional five-year negotiated terms
- Purchase options at eight, 12 and 16 years

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## *Challenges*

- **Origis Energy is in mediation over facility location**
- **Long-term battery storage not yet cost-effective**
- **Requires traditional generation to compensate for loss of sunlight**
- **Eventual disposal of used solar panels and batteries**

## **Solar FIT**

- **~\$4 million premium in 2020**
- **Solar FIT energy cost GRU \$251.10 per MWh in 2020, while GRU's average system cost was \$32.15 per MWh for the same period**

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## *Looking Further Ahead*

- GRU continues to make strides toward net-zero carbon emissions
  - 47% reduction in carbon emissions since 2007
- Promising developments in long-term storage solutions
  - Flow batteries, iron-air batteries, etc.
- Experience from first array will lead to efficiencies in future solar projects
- Future strategic planning efforts will always include solar generation





# Questions?