Facts about Duke Energy

• 150+ years of service
• Fortune 250 company
• Regulated Utilities is our largest business segment and primary source of earnings growth
• 104,000 square miles of service area
• 6 states: North Carolina, South Carolina, Florida, Indiana, Ohio, Kentucky
• 7.2 million retail electric customers
Out with the Old Map
Project Goals

• Automate hand drawn maps using GIS data
• Update 3,441 map sheets daily for 2,117 circuits
• Consolidated changes into one system- the system of record
• Change management- get users onboard
• Improve an old product that hasn’t changed in decades
• Create scalable product across all regions
Data

- Smallworld
- Oracle
- Shapefile
Data Processing

- Tables from the database do not meet the needs of the project
- Tables from other non GIS sources
- ArcPy to the rescue
Python- MBG Extents
The Map and How It’s Generated… with python.
Comparison
Automation

• Just a bunch of .bat files
• Scheduled tasks
• Translate data
• Process data into a useable format
• Analysis of system changes
• Map it, all 3500 plus sheets
Conclusion

• We did it!
• Reduced labor costs
• Three week turn around for map update reduced to 24 hrs
• Scalable Solution
• Award winning project
• IGIC Excellence in GIS 2015
THANK YOU!

Aaron Crary
aaron.crary@duke-energy.com

Brianna Powers
brianna.powers@duke-energy.com