

Introduction



Education

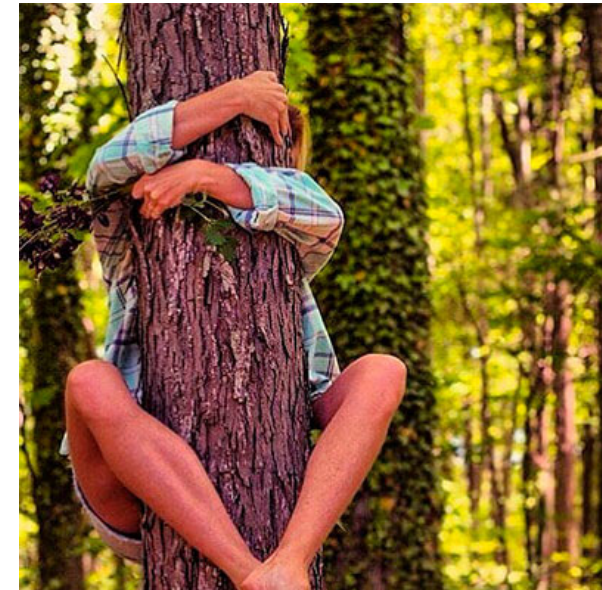
- Bachelor of Science in Mechanical Engineering
- Master of Science in Project Management

Design & Construction

- 21 years of professional consultation
- Specializing in high-performance design & LEED (27 data centers)
- Passionate about sustainability
- Performed energy audit & Energy Saving Performance Contract
- Self-proclaimed rational tree hugger

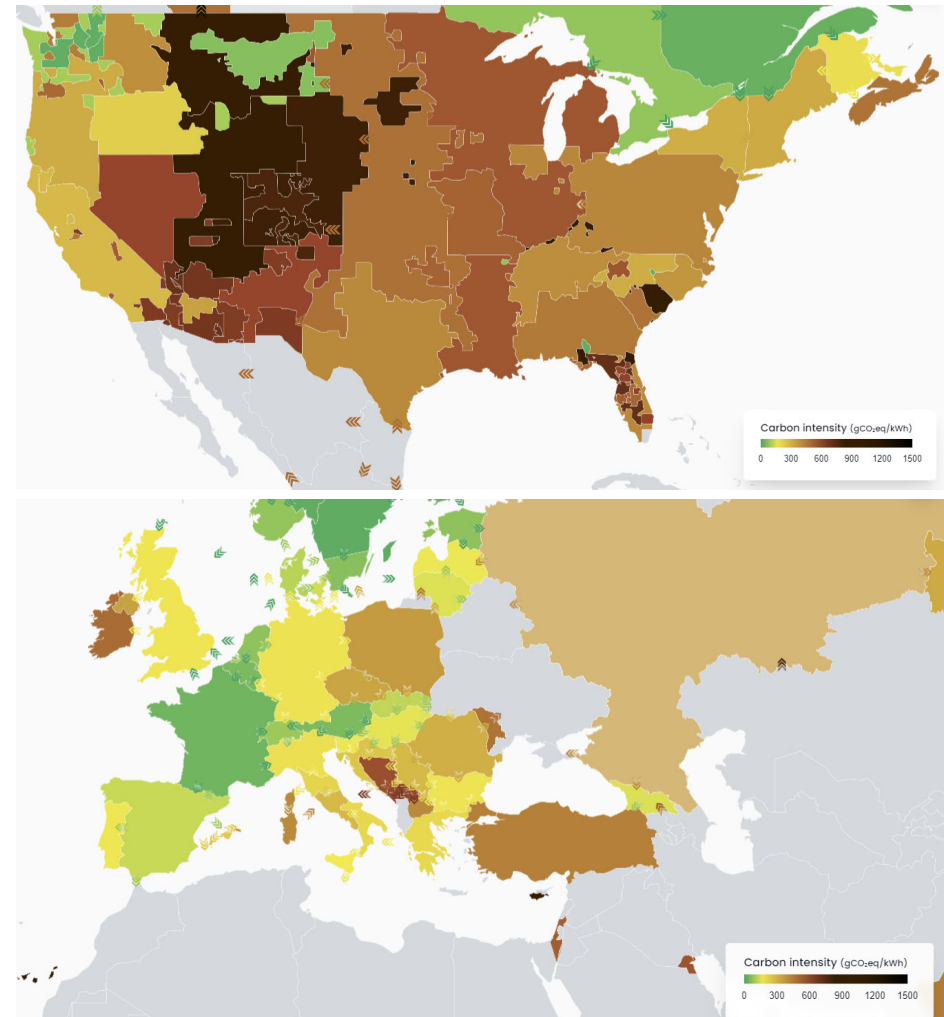
Operation

- Joined Digital Realty Trust in 2021
 - Operate 310 data centers worldwide
 - Offer colocation, scale & hyper-scale operation
- Responsible for the corporate's energy and water consumption
 - Benchmark
 - Conservation
 - Implementation



General Problems

- Sustainable goal is not cohesive
- Different business priority
- Sustainability is not a common goal
- Different cost center
- Not recognize the wholistic non-sustainable penalties
- Lip service
- Old Mindset
- Business as usual



Business / Engineering Challenges



Business

- Identify and partner with strategic stakeholders
- Establish a sustainability leadership
- Define sustainability in your organization
- Analyze sustainability and its value (cost/risk/potential)
- Develop sustainability goals -> strategies -> plans -> projects

Engineering

- Reduce energy consumption
- Reduce peak demand
 - Deploy more solar panels
 - Deploy battery storage
 - Deploy ice thermal storage

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English 1.800.EDISON (1.800.334.7661)
 Español 1.800.95.LUCES (1.800.955.8237)
 Hearing/Speech Impaired 1.800.572.5789 (TTY)
 Federal Video Relay Services (VRS) Fedvrs.us/session/new

Total Amount Due by 8/22/23 **\$3.94**

METER INFORMATION

Read Dates	Meter Number	Load Type	Reading Type	Previous	Present	Difference	Multiplier	Usage
6/29-7/31	270859509	I/O w/ Flow Thru	kWh From Grid	Actual	Actual			420
6/29-7/31	270859509	I/O w/ Flow Thru	kWh To Grid	Actual	Actual			308

CHARGE DETAILS

Residential - Single 6/29/23 - 7/31/23 (32 Days)

MISCELLANEOUS

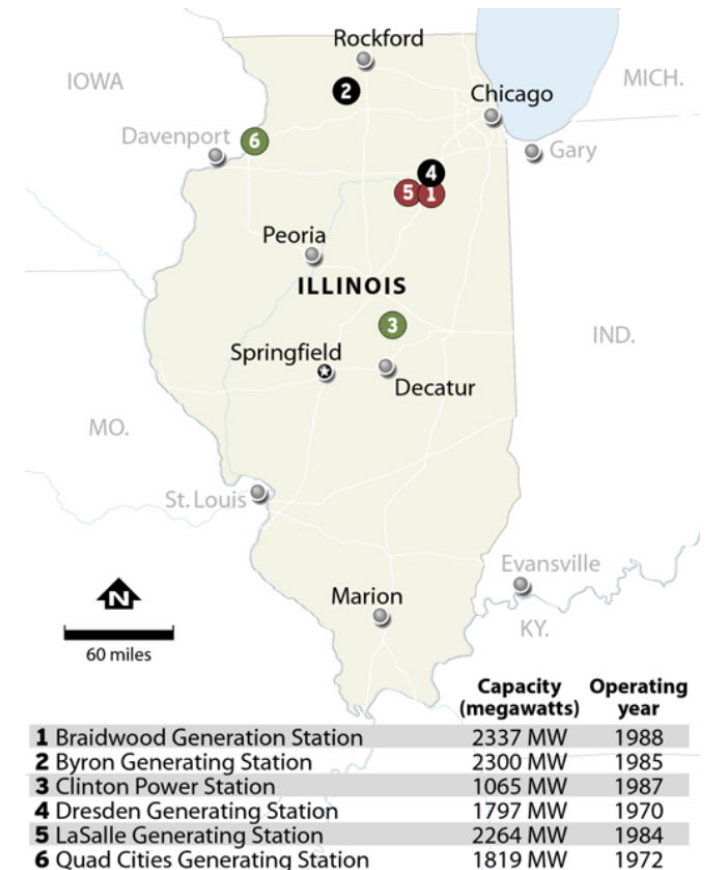
Net Metering Excess Gen - Rollover 596 kWh

\$0.00

Consequences



- As of August 1, 2023, there were 54 commercially operating nuclear power plants with 93 nuclear power reactors in 28 states
- In Illinois there are 11 operating commercial nuclear power reactors at 6 sites, generating about 50 percent of the state's electricity, or 12% of U.S. nuclear power generation in 2021.
- Avoid building another nuclear power plant
- Avoid blackout



Final Statement



- Regarding Grid Modernization, to achieve Greater Chicago's Carbon & Equity goals, a critical obstacle to collectively overcome in 12 months is to
 - accelerate business alignment focusing on sustainability
 - deploy energy saving projects, renewable energy and energy storage

