February 23, 2017



Look Off-Campus for Achieving Sustainability and Resiliency Goals

2017 IDEA Miami Campus Conference

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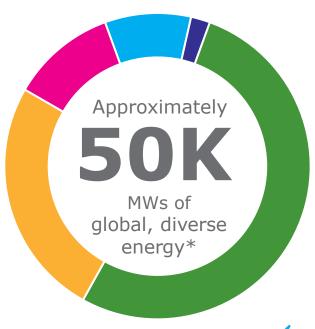


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This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements are subject to certain risks, uncertainties and assumptions and typically can be identified by the use of words such as "expect," "estimate," "should," "anticipate," "forecast," "plan," "quidance," "believe" and similar terms. Such forward-looking statements include our future growth and financial performance, Company operations, developments in renewables, and project development. Although NRG believes that its expectations are reasonable, it can give no assurance that these expectations will prove to have been correct, and actual results may vary materially. Factors that could cause actual results to differ materially from those contemplated above include, among others, general economic conditions, hazards customary in the power industry, weather conditions, competition in wholesale and retail power markets, the volatility of energy and fuel prices, failure of customers to perform under contracts, changes in the wholesale and retail power markets, changes in government regulation of markets and of environmental emissions, the condition of capital markets generally, our ability to access capital markets, unanticipated outages at our generation facilities, adverse results in current and future litigation, failure to identify or successfully implement acquisitions and repowerings, the inability to implement value enhancing improvements to plant operations and companywide processes, our ability to realize value through our commercial operations strategy, and our ability maintain successful partnering relationships.

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*NRG and NRG Yield Assets excluding 1,346 MW thermal, Before non-controlling interest



Nearly **3,000,000**

recurring customers within NRG retail brands



One of the nation's largest

SOLAR

Power generators

Ownership interest in nearly 140 power-generation facilities across 29 states







District Heating and Cooling



- Steam: 454 MMBtu/hr
- 175 customers



Omaha, NE

- Steam: 735 MMBtu/hr
- Chilled water: 29,250 tons
- 120 customers



Minneapolis, MN

- Steam: 1,100 MMBtu/hr
- Chilled Water: 40,000 tons
- 150 customers



Pittsburgh, PA

- Steam: 295 MMBtu/hr
- Chilled water: 12,935 tons
- 50 customers



Harrisburg, PA

- Electricity: 12 MW
- Steam: 370 MMBtu/hr
- Chilled water: 3,600 tons
- 145 customers



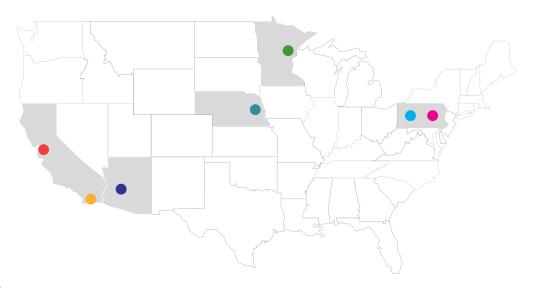
San Diego, CA

- Chilled water: 8,825 tons
- 16 customers



Phoenix, AZ

- Chilled water: 38,100 tons
- 35 customers





Combined Heat & Power



Harrisburg, PA

• 4.1 MMBTU/hr



Bridgeport U, CT

- 1.4 MW fuel cell power plant
- Capacity to deliver 4 MMBTU/hr of heat



Plainsboro, NJ

- 4.6 MW
- 34.1 MMBTU/hr
- 72.3 MLB/hr of boilers
- 3700 tons chilled
- 1,000,000 gallon thermal storage



Princeton, NJ

- Single 248 KW Reciprocating Engine
- 1.45 MMBTU/hr
- 45 tons of chilled water



Dover, DE

- 103 MW
- 70 MLB/hr



San Francisco, CA

- Two 250 kW Reciprocating Engines
- 2.6 MMBTU/hr



San Diego, CA

- 1.5 MW Recip Eng
- 2,000 ton Gas Turbine Chiller
- 940 tons (waste heat to chilled water)
- District cooling



ASU-Tempe, AZ

- 8.3 MW
- 80 MLB/hr steam
- 10,000 tons chilled water



Tucson, AZ

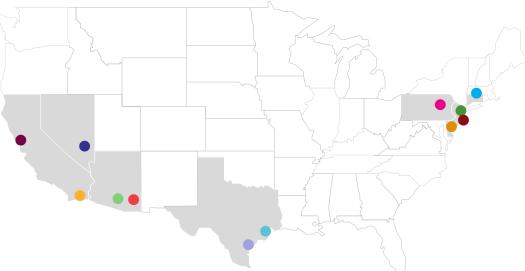
- 1.6 MW
- 46 MLB/hr
- District heating & cooling



Henderson, NV

- 90 MW CC
- 140 MLB/hr







Corpus Christi, TX

- 560 MW
- 1 MLB/hr steam



San Jacinto, TX

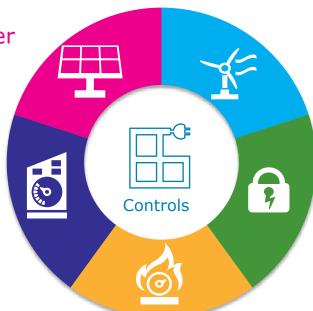
- 176 MW
- 1200 MLB/hr



Microgrid Systems

Solar – Providing power during daytime peak

Smart Energy –
Manages the load to
optimize resources
and cost



Wind – Can complement solar and provides low cost renewable generation

Thermal Storage,
Batteries and Backup
Generation – Provides
reliable source of energy

Combined Heat and Power -

Maximizes thermal costs savings and efficiencies

Network of distributed energy resources that can either be tied to the grid or "islanded" allowing a building, city or campus to leverage diversified fuels and technologies to provide clean, reliable and high-quality power.



Integrated Energy Systems

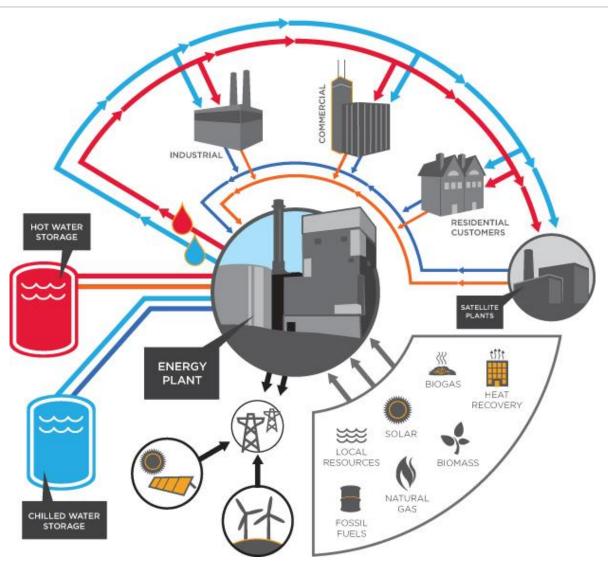


Integrated energy systems
On-site power generation that
keeps critical infrastructure
running regardless of external
circumstances

Resiliency	Reliability	Sustainability
Can create an island in case of grid failure, by closing the grid connection and using the facility's own energy production to run the facility	Approximately 90% uptime with CHP, and up to 99%+ with added batteries or backup generators	Options for reduced emissions, integrated renewables and energy savings



Integrated Thermal Smart Grid





District Energy/CHP/Microgrid – Community Scale Energy Solution

- Underground network of pipes "<u>combines"</u> heating and cooling requirements of multiple buildings
- Creates a "market" for valuable thermal energy
- Aggregated thermal loads creates <u>scale</u> to apply fuels and technologies not feasible on single-building basis
- Fuel flexibility & distributed generation improves energy security, strengthens local economy





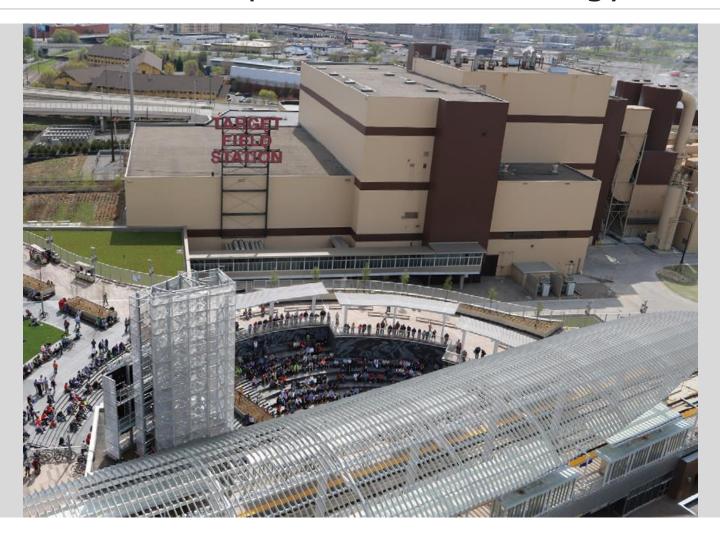
Interconnection with Neighboring District Energy Systems to Capture Synergies



- Decrease production costs
- Monetize excess capacities and individual redundancies
- Increased reliability and resiliency
- Increased operational and maintenance flexibility



Hennepin Energy Recovery Center – Downtown Minneapolis Waste to Energy Plant





Back-up Power and Demand Response Opportunities

Reliability and asset backed Demand Response



Natural gas and diesel backup generation systems to meet your facility power needs



Provides reliable power in the event of a utility outage

Can help support utility reliability while also earning a shared DR revenue stream



Arizona State University (Tempe Campus)





On-site Solar

Sun Devil Energy Center CHP

Total Tempe Campus System

- Electrical Capacities 16 MW PV, 9 MW CHP, 6 MW Thermal Storage, 8 MW Diesel Gen
- Thermal Capacities Steam 200,000 lb/hr, CHW 30,000 tons (mech), Thermal Storage 6,000 tons







Off-site PPAs enable low-risk renewable energy procurement at constant energy prices, and help achieve corporate sustainability goals



Red Rock Solar Plant (Grid-Scale Solar) PPA



Arizona Public Service Co. (utility)

40 MW, located near Casa Grande, AZ

Off takers

- Arizona State University
- Pay Pal
- No upfront capital investment



Renewable Energy Certificates (RECs)



Off-site Renewable Sources





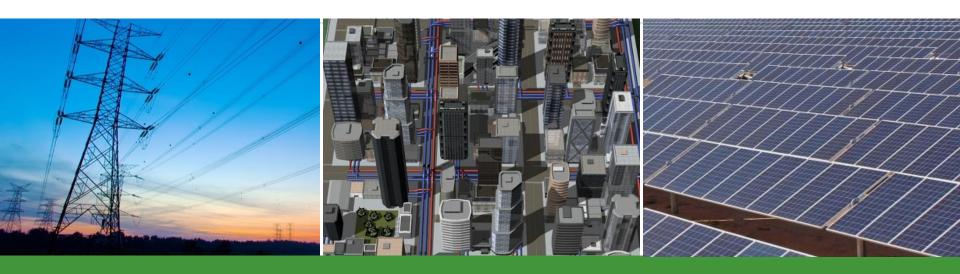
Other Sustainability/Resiliency Possibilities



- Purchase Renewable Natural Gas –
 Wastewater treatment biogas
- Export garbage, oil and bio-mass to processing facilities
- Virtual Power Plants extended electrical grid
- Energy Storage
 - Thermal
 - Batteries
 - EVs



Summary – Looking beyond your Campus



Looking beyond your Campus

- Electric and Gas Utilities investigate their programs
- City, State and Federal initiatives
- IDEA MADE program do it at your local level

- Neighboring district energy systems – interconnection possibilities
- Other local energy initiatives



Thank you.

