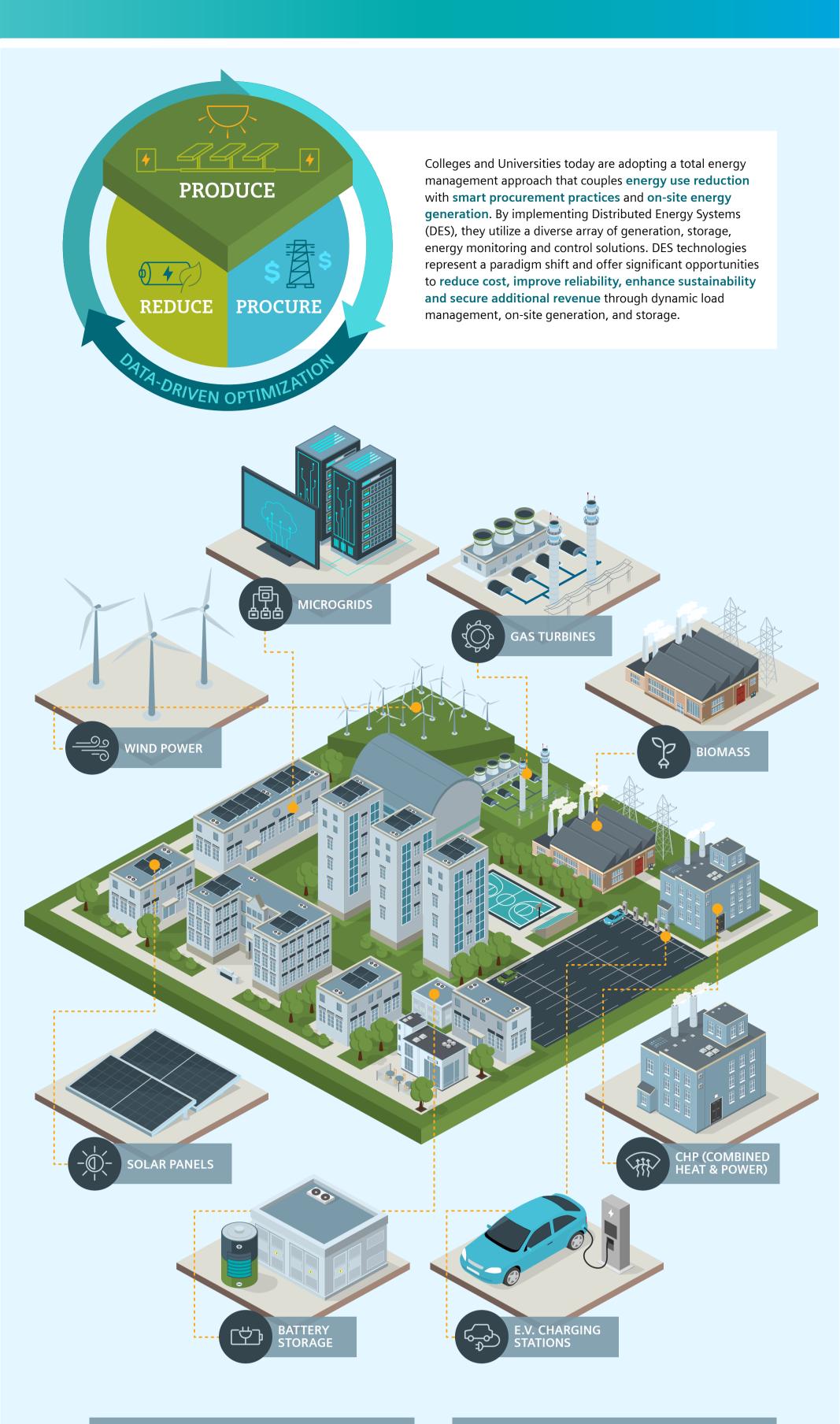
Distributed Energy Systems THE CAMPUS CONNECTION



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Microgrids give educational institutions the ability to optimize their energy portfolio and single point disconnection and independence from the grid, as

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Wind power is a cost-effective source of clean energy. Highly visible, on-campus wind turbines underscore a school's commitment to green power. Power Purchase Agreements from remote wind projects enhance wind power's availability.



Gas turbines burn clean and provide an efficient and cost-effective way for universities to generate electricity at a large range of outputs.



Biomass produces energy without fossil fuels and offers both fuel flexibility and cogeneration



Solar photovoltaic and solar thermal offer space-flexible, cost competitive and visible promotion of clean energy. Can be owned or contracted via Power Purchase Agreement.



Battery storage allows schools to optimize the use of low cost and clean power supplies, while providing supply security.



Electric vehicle charging stations are a visible sign of university green energy commitment.



CHP (Combined Heat and Power) leverages the concurrent and highly efficient production of electricity and useful thermal energy from a variety of fuel sources.

CAMPUS BENEFITS OF EMBRACING A HOLISTIC APPROACH

Cost Savings

Educational institutions can adapt their sources of energy to shifts in volatile market prices, while leveraging a variety of incentives and tax credits.



Energy Efficiency

Real-time data monitoring and multipoint control of buildings, plants, and networks enables operational efficiency.



Security & Stability of Power Supply

In the event of natural or manmade disasters, microgrids and on-site generation can support facilities during emergencies and maintain power quality.



Emissions & Pollution Reduction

Microgrids and DES incorporate renewable, low-carbon energy sources that reduce the impact of the energy systems on the environment, improve air quality, and reduce health risks.

DES SUCCESS STORIES

RGINIA



Embracing Renewable Energy Generation

WESLEYAN UNIVERSITY

Smart Heating Solution

A 100 kW solar array was placed on the roof of a parking garage that annually generates approximately

Solar Implementation

130,000 kWH of electricity

This solar energy saves the equivalent of

208 BARRELS of oil or one acre of forest from deforestation

Implemented a MICROGRID

with a variety of clean and renewable energy sources

These changes have saved them \$3.7 MILLION in annual operating costs

676 kW gas engine saves the university an average of

\$1,000 PER DAY in gas and electricity charges

Siemens provides on-site, end to end, turnkey energy solutions that are making it easier for educational institutions to move forward in modernizing their power infrastructure. Reliable partners, such as Siemens, have the knowledge and expertise to help campuses manage each step of their power resourcing and modernization process. To learn more about Siemens higher education energy solutions, download the full-length white paper-On-Site Energy for Higher Education.



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