

energy|now™

DISTRIBUTED
GENERATION

PORTFOLIO

WHERE INNOVATION MEETS DEMAND

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Energy|now™ – Leading the way with innovative distributed generation technologies

At DTE Energy Technologies, Inc., our mission is simple: to become the preeminent provider of distributed generation solutions. In a complex and evolving energy environment, we see distributed generation as a practical, versatile and effective way to satisfy the current and future energy requirements of homeowners, businesses and industrial users. Under the brand energy|now, we offer an expanding portfolio of best-of-breed distributed generation products and services aimed at delivering reliable, continuous, consistently high quality power that is economical and environmentally friendly.

DTE Energy Technologies, Inc. was formed in 1998 as an unregulated subsidiary of DTE Energy to target new solutions for the challenges created by the changing energy industry. Our affiliation with DTE Energy provides us with access to a wealth of utility expertise and a deep understanding of the needs of energy consumers.

Our strategic plan is to continually invest capital and technical expertise to develop, acquire and market cutting-edge distributed generation technologies, along with a comprehensive and unique complement of services to fully support our customers. Our status as an unregulated subsidiary also enables us to pursue other opportunities for energy|now, such as energy information systems that operate over the Internet and investments in telecommunications infrastructure and construction.

Our energy|now products and services and the partnerships we are establishing with distributors and manufacturers around the world position us at the forefront of the distributed generation industry.

We invite you to explore the exciting world of energy|now-where innovation meets demand.



DISTRIBUTED GENERATION



Distributed generation is the use of small-scale power generation technology close to the load being served. Distributed generation products provide an on-site source for electrical power, and perhaps thermal energy, to single or multiple facilities.

A number of factors, including deregulation, environmental issues, T&D electric capacity constraints and the skyrocketing demand for high quality power, have encouraged the growth of distributed generation as a complement, or alternative, to traditional grid-supplied power. Stakeholders in distributed generation include energy companies and utilities, equipment suppliers and distributors, regulators, the financial community and energy consumers.

DTE Energy Technologies, Inc. is committed to taking a leadership role in distributed generation because of its significant potential to lower energy costs, improve reliability, reduce emissions and expand energy supply options. Distributed generation is a rapidly evolving industry that involves the constant evaluation of new technologies, a role to which DTE Energy Technologies, Inc., with its unique blend of utility and technical expertise, is well-suited.

The energy|now difference

Energy|now is unique in the industry for its end-to-end approach to distributed generation. We are truly your single energy source when it comes to utility experience, application engineering and design, emerging technology expertise and system management and support.

A full portfolio of distributed generation products – Our energy experts are continually exploring emerging, best-of-breed technologies to add to an already broad portfolio that includes fuel cells, internal and external combustion engines and turbine systems.

Utility expertise – Our utility background enables us to understand grid interconnections, an important aspect of successful field operation. All energy|now products are designed to work safely with all grid configurations. We conduct a rate analysis for each project and can help guide you through the complex utility issues frequently associated with distributed generation installations.

Expert application engineering – Without engineering expertise, it can be difficult and confusing to determine the best distributed generation solution for your facility. Energy|now application experts will assess your overall needs and design solutions that meet your current and future energy objectives.

System operations management – Because distributed generation places the responsibility for managing equipment and operations on the owner, we've included the energy|now System Operations Center™ (SOC). The SOC provides centralized, end-to-end management of the vital functions required to serve electric loads and maintain the reliability of on-site power systems.

Cost-saving opportunities – The multi-level services provided by the SOC help you take advantage of opportunities that enable your facility to operate at maximum efficiency and with minimum cost of ownership. From energy trading to combined heat and power to load aggregation, we'll help you implement practices that help ensure the highest return on your distributed generation investment.

Microgrids – The breadth and diversity of the distributed generation products and services in the energy|now portfolio make it possible for DTE Energy Technologies to lead the way in bringing microgrid systems to market. Energy|now Microgrids™ provide continuous, economical, on-site power to multiple users and facilities in developments, complexes and premium power parks. Energy|now experts can design microgrids using fuel cells, turbines, internal and external combustion engines and other generation technologies.

Strong alliances and partnerships – Strong utility industry ties, distributorships, technology agreements and channel partnerships make up the vast network of experience, support and expertise that enables us to provide complete, innovative and reliable distributed resource solutions.

System Operations Management / Customer Support – Because distributed generation places the responsibility for managing equipment and operations on customers, the energy|now portfolio includes the System Operations Center (SOC) and Customer Support Services. These services provide centralized, end-to-end management of the vital functions required to serve electric loads and maintain the reliability of on-site power systems.

THE ENERGY|NOW PORTFOLIO

Energy|now products and services are designed to meet the diverse and changing needs of commercial, industrial and residential energy consumers. Our comprehensive portfolio encompasses best-of-breed technologies in a broad range of generation capacities. Products can

be used individually or combined in microgrids to supplement, enhance or replace the utility grid. This flexibility allows customers to optimize distributed generation applications to meet the demand for power that is reliable, high quality, clean, uninterrupted and cost-efficient.

XC SERIES

EXTERNAL COMBUSTION SYSTEMS

Energy|now XC Series external combustion engines are the first such systems in the 25 kW range designed for commercial distributed generation applications. Systems provide a clean, quiet, cost-effective way to supplement grid-supplied power to meet growing electric capacity demands.

XC Series units feature a flexible combustion system that can handle a variety of fuels, including natural gas, propane, landfill gas and digester gas. Advanced system design results in high engine efficiency at full loads. Emissions are low enough to meet stringent requirements around the world, without compromising engine performance or reliability.

XC Series systems are well-suited to commercial applications where:

- low cost, low quality fuels are readily available
- hot water heat recovery is desired to help reduce overall energy costs and optimize environmental benefits
- continuous, reliable power is essential
- peak shaving can help eliminate expensive utility demand rates

XC SERIES EXTERNAL COMBUSTION SYSTEMS



IC SERIES INTERNAL COMBUSTION SYSTEMS

Energy|now IC Series internal combustion systems incorporate the latest advances in engine, generator, power electronics and control technology for distributed generation applications in the 75 kW to 1 MW range. Systems provide reliable, efficient, on-site power for a wide range of commercial and industrial applications.

75 kW to 150 kW IC Series systems are available with either synchronous generators or with the optional compact iGen permanent magnet generators that deliver higher part load efficiencies and power quality.

ENI mid-range systems from 250 kW to 800 kW utilize conventional synchronous generators designed to deliver reliable, efficient electricity and heat energy generation in a single package. Systems include controls and utility paralleling switchgear in a sound-attenuated installation-ready ISO shipping container.

The internal combustion engines run on natural gas or propane and use advanced lean-burn combustion technology to achieve high net electrical efficiency. Models are available with stoichiometric engines and catalysts to meet the most stringent emissions standards. Engine efficiency at full power is higher than that of comparable technologies.

Additional benefits provided by IC Series systems include:

- grid-independent and grid-parallel operation
- low noise levels
- low life cycle costs
- easy serviceability
- combined heat and power capability

IC SERIES

INTERNAL COMBUSTION SYSTEMS

T SERIES

MINI-TURBINE SYSTEMS

Energy|now T Series mini-turbines are the first mini gas turbine systems available for mid-range commercial and small industrial distributed generation applications. Their broad range of thermal and electrical characteristics makes them a practical choice for applications ranging from high thermal loading to microgrids for sites up to 3,000 kW.

These highly efficient mini-turbines feature proven components which include compact and rugged aero derivative engines from Walter and other sources to be announced. Turbo Genset will supply high-speed, axial flux electric generators. The genset design configuration allows for redundancy that enhances power reliability and availability. Units are quiet and environmentally friendly.

The versatility of T Series mini-turbines makes them ideal for a wide range of energy applications:

- for Combined Heat and Power (CHP) applications, in which waste heat is recovered for water heating, space conditioning or process use in facilities with high thermal requirements
- for continuous baseload operation, especially where power quality or low emissions are required
- as a premium power source for critical applications requiring uninterrupted, high quality electricity
- for peak shaving to significantly reduce overall energy costs
- in microgrids where multiple units provide redundancy for high reliability

T SERIES

MINI-TURBINE SYSTEMS



R SERIES

RECIPROCATING ENGINE SYSTEMS

R SERIES

RECIPROCATING ENGINE SYSTEMS

The energy|now R Series includes both diesel and natural gas reciprocating engine generator systems in a wide range of capacities. These systems provide standby, prime and continuous power to commercial and industrial facilities and standby power for residential applications. Our partnerships with major generator manufacturers enable us to offer competitively priced, reciprocating engine products. Our systems are custom-engineered to meet the specific requirements of each application.

DTE Energy Technologies provides a complete line of switching solutions from the leading manufacturers in the switchgear industry. In the event of a power outage, energy|now reciprocating engine systems can be online within 10 seconds. In addition to standard open transition transfer switches, a complete line of closed transition switches and paralleling gear is offered.

The energy|now portfolio includes more than 100 models of continuous-duty, prime power systems in capacities ranging from 8 kW to 5,000 kW, and either 50 or 60 Hz. These energy|now reciprocating engines can power critical applications for businesses and homes without relying on the grid for power. Our energy|now sales team has the proven expertise and knowledge to help you find a continuous-duty solution for any commercial or industrial need.

R Series systems can provide peace of mind that comes with:

- assurance that critical applications will continue to be powered
- alternative, on-site power that eliminates peak demand charges
- a unique, remote system operations management package
- an experienced group of sales professionals, application engineering experts, and comprehensive customer service

Energy|now FC Series fuel cells provide a reliable, economical and efficient alternative to traditional electric service. Fuel cells produce electricity via an electrochemical reaction. As a result virtually no emissions are released, making it one of the most environmentally friendly producers of power.

FC Series fuel cells are powered by natural gas or propane that is converted into or from hydrogen. The hydrogen gas combines with oxygen to produce DC electricity, releasing heat and water vapor in the process. An inverter converts DC power to AC, resulting in clean electricity.

DTE Energy Technologies offers fuel cells through a partnership with Plug Power, developer of the proton exchange membrane fuel cell system. DTE Energy Technologies is the exclusive distributor of Plug Power fuel cells in Michigan, Illinois, Indiana and Ohio.

The fuel cell also offers:

- environmentally-friendly and clean operation
- high and uninterrupted power quality
- heat and electricity created without combustion results in quiet, clean energy

FC SERIES FUEL CELLS



ENERGY|NOW SYSTEM OPERATIONS CENTER™ & CUSTOMER SUPPORT

The energy|now System Operations Center™ (SOC) and Customer Support services help residential, small-to-large commercial and industrial customers optimize the performance of their on-site generation systems.

The SOC monitors distributed generation operations, end-to-end, 24 hours a day, 7 days a week, alerting health monitoring and operation center personnel of potential problems so that preventative maintenance can be completed without necessitating customer operation.

The SOC is unique in its ability to handle numerous generation units across many customers anywhere in the world. The SOC provides three levels of service – preventative monitoring and maintenance, scheduling and dispatching; and interconnections and energy trading.

energy|now Customer Support offers distributed generation owners a wide variety of services. The service provides maintenance, parts, monitoring, warranty support and service professionals who are available 24 hours a day, 7 days a week.

SOC and Customer Support Services enable customers to:

- use distributed generation without having to be energy experts
- use energy trading to create additional revenues
- schedule maintenance to keep power disruptions at a minimum
- receive constant monitoring to assure the highest levels of service
- outsource the operation of distributed generation service

ENERGY|NOW SYSTEM
OPERATIONS CENTER
& CUSTOMER SUPPORT

energy|now Microgrids™

THE ENERGY|NOW PORTFOLIO

MICROGRID

SYSTEMS

Energy|now Microgrids™ are small-scale energy supply and delivery systems that generate electricity on or near the user's site for single or multiple users and facilities, such as new developments, power parks and existing buildings and complexes. Microgrids offer customers opportunities for high power reliability, high quality power, cost-effective energy, and the capability of selling surplus energy.

A typical microgrid system includes multiple on-site generators with an underground delivery network and interconnection to the grid (optional). Energy|now experts can design microgrids using a variety of distributed generation technologies, including fuel cells, mini-turbines and internal and external combustion engines.

The microgrid system also:

- creates new revenue streams for builders and real estate owners
- reduces the cost of extending the utility grid to remote locations
- creates power parks for critical electric users

ENERGY|NOW MICROGRIDS™



energy|now™

**To learn more about
how energy|now
products and services
can meet your current
and future energy needs,
please visit our web site
at www.dtetech.com,
or call us at 1.877.DTECH11
or 248.668.9530.**

DTE Energy Technologies

DTE Energy Technologies, Inc., a subsidiary of DTE Energy, is a diversified high-technology company offering a broad range of products and services to solve the energy-related challenges of commercial and industrial customers. These specialized solutions are designed to simplify the energy decision-making process and help businesses achieve significant energy or operating cost reduction.

DTE ENERGY TECHNOLOGIES, INC.

*MICHIGAN

37849 Interchange Drive
Farmington Hills, MI 48335
1-877-DTECH11
(248) 668-9530

ONTARIO, CANADA

275 Renfrew Drive, Suite 109
Markham, Ont. L3R 0C8
(905) 475-3232

OHIO

13 East Main Street
Versailles, OH 45380
(937) 526-5180

MINNESOTA

1715 Lake Drive West
Chanhassen, MN 55317
(952) 448-6313

SOUTH CAROLINA

7715 Park Place Road
York, SC 29745
(803) 684-0085

ILLINOIS

440 Quadrangle
Bolingbrook, IL 60440
(414) 479-9035

PENNSYLVANIA

3466 Progress Drive, Suite 206
Bensalem, PA 19020
(215) 245-9007

SOUTHERN CALIFORNIA

17330 Brookhurst, Suite 295
Fountain Valley, CA 92708
(714) 968-1914

NORTHERN CALIFORNIA

333 Sunset, Suite 220
Suisun City, CA 94585
(707) 435-9300

*Corporate headquarters

Other energy|now offices will open in the country in the coming months. For an updated list, please visit our website at www.dtetech.com