



Greenlight New Day. New Way.

Denise Gardner
Community Relations Manager




Meet DRP

Partner Highlight: Denise Gardner

Denise Gardner, the new community relations manager for Detroit Renewable Power's (DRP) parent company, Detroit Renewable Energy, is hitting the ground running with some lofty goals for community outreach in 2014. The role of community relations manager is the first of its kind for the company and was developed to strengthen DRP's relationship with the local community.

Born and raised in Detroit, Denise has made her home for the past 11 years in the neighborhood adjacent to DRP. Denise is an active member of her community and a strong advocate for the responsible growth and government of her city. Prior to her new role, Denise worked in the City Clerk's Office and served as executive assistant to Mayor Dave Bing. She helped support Mayor Bing's programs and community initiatives.

When asked what Denise is looking forward to

in her new role she says, "I am most excited to get out there and start speaking to our neighbors about DRP, to hear their concerns, answer their questions and help educate them about DRP's role in the community."

Denise would also like to get the city government involved in discussions that highlight DRP as an asset to the sustainability of the city.

"I want to engage and educate the legislative body about what we do," says Denise. "This will include welcoming them to tour the facility, relaying our plans and goals, and keeping them informed on related issues."

When asked what she thinks her biggest challenge will be, Denise says, "Change in perception. The community hasn't been able to hear DRP's voice about the issues at hand

– I'd like to change that." She goes on to say, "I joined this organization because I saw their desire to be open, transparent, and forward facing to the community and I knew that was something I wanted to be a part of."

When asked about the financial challenges the city is facing, Denise is optimistic, "Detroit has seen its highs and lows. People are invested in the community here. New companies are coming in and creating opportunity. We as citizens have to take responsibility for our community by loving and caring for it while we ride out this tough time." •

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Terms Defined Highlighted in this issue of "Greenlight":

Monofill noun. – a landfill intended for one type of waste only.

Beneficial Ash Use noun. – use of ash that provides a functional benefit — that is, where the use replaces the use of an alternative material or conserves natural resources.

Solar Water Distiller noun. – a tool that aids in removing salts and other impurities using the sun's energy to obtain pure water for drinking.



A Note from John O'Sullivan



Welcome back to "Greenlight," Detroit Renewable Power's newsletter dialogue with our employees, business partners, and citizens and neighbors in Detroit.

There's a lot of attention on all the positive change happening in Detroit. The City has a new Mayor, a new City Council, and an uplifting outlook for economic prosperity and public safety. In Mid-town alone, we've seen an explosion of retail growth and the addition of more than 300 housing units since 2012. National companies and local entrepreneurs have brought new energy and

opportunity to the Mid-town streets we share with more than 30,000 residents.

Although Detroit Renewable Power is part of a global renewable energy industry, we're first and foremost a responsible corporate citizen in a vital Detroit neighborhood. Our daily operations protect public health and supply clean, renewable electric energy and reliable steam for businesses and homeowners. Our businesses employ and support hundreds of workers and local vendors. And our role in the City of Detroit gives government and taxpayers a clean, cost-efficient alternative to more expensive and less sustainable waste disposal alternatives. We actively partner with local schools to give students early, practical exposure to important science, energy, and environmental subjects and

play key roles in key civic organizations. We're proud to serve a valuable role for the City at this critical time. While Detroit undergoes a visible and dynamic revival on the world stage, Detroit Renewable Power will work hard in the background to quietly achieve clean energy and environmental goals, cement lasting community partnerships, and bolster local economic development. •

Best Regards,

John O'Sullivan
President, Detroit Renewable Power



Community Connections

DRE Supports Detroit Police Department's Holiday Outreach



Residents enjoy gifts and food at a surprise holiday party.

Detroit Renewable Energy, Detroit Renewable Power's parent company, was proud to help the Detroit Police Department bring holiday cheer to local residents in December.

Residents of the Colony Arms and Martin Luther King apartments were surprised with a holiday party that included gifts and food provided by Detroit Police, the UAW and local businesses, including DRE. Both apartment buildings were the sites of police raids late last year, and the

police returned to the residences to bring some holiday cheer to the much-deserving residents and their families.

"The team at Detroit Renewable Energy cares deeply about our community and we know the holidays can be a tough time for some families as they struggle to make ends meet," said Steve White, chairman and CEO of Detroit Renewable Energy. "We are proud to support the Detroit Police Department and help make the holidays a little brighter for deserving families here in Detroit."

The Detroit Police Department's holiday parties were featured in a news story in the Detroit News, which can be viewed here:

<http://www.detroitnews.com/article/20131219/METRO01/312190113>

Golightly Students Looking Ahead to 2014

2014 is shaping up to be a busy year for the Education to Life program at the Golightly Education Center. Starting this month, students will witness improvements to their school garden area by the introduction of new garden beds for the vegetables they will be planting this spring, a new rain barrel house, and a rain garden. This February, students will be painting and installing birdhouses as well as conducting experiments with solar water distillers, solar ovens, and compost. •

"Whatever your life's work is, do it well. A man should do his job so well that the living, the dead, and the unborn could do it no better." –Martin Luther King Jr.



FAQ The Tip Floor.

Addressing the issues that matter most to our community is a priority at DRP and we strive to provide in-depth, well-educated responses to the inquiries we receive. In this section, we highlight some of the most frequently asked questions posted to our website. To submit a question to Detroit Renewable Power, please visit our website at www.detroitrenewablepower.com.

Q How is Detroit Renewable Power contributing to the economic development of Detroit?

A Detroit Renewable Energy, Detroit Renewable Power's parent company, strongly believes that the long-term sustainability of its business requires that the company regularly contribute to the positive economic development of Detroit.

As of December 2012, DRE provided jobs to over 268 Detroit area workers with more than 260 of these jobs being full-time roles. According to the Michigan Economic Development Corporation (MEDC) evaluation, one new full-time employment position equates to \$200,000 in local business.

DRE looks to Michigan-based vendors,

whenever possible, for goods, products, and services for each of its companies. Currently, DRE is able to spend more than 57 percent of its vendor dollars in Michigan, and expects this percent to increase each year.

Learn more about how DRE is contributing to the Detroit economy in their Sustainability Report: www.detroitrenewablesr.com



Energy from Waste

In-Depth

Energy-from-waste projects such as Detroit Renewable Power help communities extend landfill capacity by decades by reducing municipal waste volumes by up to 90 percent. But the process still leaves a combustion ash product that requires approved disposal. In 2013, DRP generated more than 184,000 tons of combustion ash, sending it all to a **monofill** designed for hazardous waste materials.

Responding to a petition filed by Detroit Renewable Power in 2012, however, the Michigan Department of Environmental Quality (MDEQ) has notified DRP that the facility's combustion ash residue is non-hazardous and, therefore, approved for disposal in a licensed Type II sanitary landfill, which is designed to accept only residential and non-hazardous industrial waste.

Up-Close

While the ash residue from DRP is safely disposed as a non-hazardous waste, some countries reuse energy-from-waste ash in construction. Germany beneficially reuses about 70% of its ash; the Netherlands about 90%, and the Bahamas recycles all of its EFW ash for artificial reefs and shore abatements. U.S. government and industry groups are working to establish standards and increase **beneficial ash use**.

DRP's petition included the meticulous collection of 2,232 ash samples over a 40-day period in 2012. The analyses focused on samples of ash leachate – rain or ground water that passed through the ash and collected any soluble constituents. We also documented the mechanical, chemical, and handling systems we employ to manage the ash and reduce fugitive dust emissions during operations.

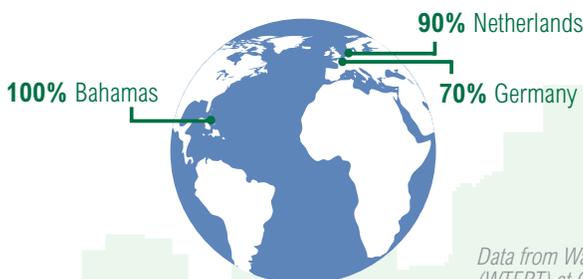
The MDEQ ruling is welcome news, both improving DRP's economics and illustrating yet another way that energy-from-waste operations are environmentally safe and secure.

Did you know?

Detroit Renewable Power is Detroit's largest recycler, using highly regulated combustion technology to safely recycle municipal solid waste into renewable energy and recovered materials. In addition to renewable energy, each year Detroit Renewable Power recovers, recycles, and returns to commercial markets more than 39,000 tons (78 million pounds) of ferrous metals.

Detroit Renewable Power also recovers thousands of tons of non-ferrous metals from the waste stream annually.

Worldwide EFW Ash Reuse



Data from Waste-to-Energy Research and Technology Council (WERT) at Columbia University



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High Points

DRE and General Motors Partner for a Sustainable Future



Detroit Renewable Energy (DRE), Detroit Renewable Power's parent company, is proud of its close partnership with General Motors (GM). Today, GM and DRE are working together on a number of projects to achieve a sustainable future in Detroit.

Late last year, GM and DRE announced a renewable energy

project to turn solid municipal waste from Metro Detroit into process steam that will be used to heat and cool portions of GM's Detroit-Hamtramck assembly plant. DRE is currently in the process of building a pipeline, expected to be complete later this year, which will allow steam to travel 8,300 feet from the Detroit Renewable Power energy-from-waste facility to the GM Detroit-Hamtramck plant. Once operational, the GM/DRE project will represent 12 percent of GM's global renewable energy goal of procuring 125 megawatts of renewable energy by 2020. The project enables DRE to further expand its sustainable use of renewable energy in supporting Detroit's long-term environmental and economic security.

In 2013, GM also announced that its world headquarters, the GM Renaissance Center, was completely landfill-free. All waste from daily operations at GM's Renaissance Center is now recycled, reused or converted to energy, diverting 5 million pounds of trash annually from landfill. This achievement was made possible thanks to a number of GM partners, including Detroit Renewable Power. Each month Detroit Renewable Power receives roughly 10 loads of waste from the Renaissance Center each, which is processed at the facility and then converted to energy. •

Safety Spotlight

As spring approaches, stay safe by doing some "spring cleaning" of your home's safety equipment:

1. Test smoke alarms, change batteries if necessary, and remember to replace smoke detectors every 10 years.
2. Test carbon monoxide detectors and change batteries if necessary.
3. Most hardware and home improvement stores sell combination smoke and carbon monoxide detectors for under \$40—an investment that could save your life!

Visit the National Safety Council's "Safety at Home" website (at www.nsc.org/safety_home) for more tips!