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Bosch Equips Revive Community in Ft. Collins CO With Efficient Geothermal Comfort

- ▶ Community combines geothermal and solar system to enable Zero Net Energy homes
- ▶ Bosch geothermal heating/cooling/hot water solutions deliver efficiency and energy savings
- ▶ Phase One currently in development – 2,500 sf high performance duplex homes plus townhomes
- ▶ Planned total of 80 units in a 10 acre community

Londonderry, New Hampshire – Bosch is a strategic supplier in Revive Properties' home development located near the Old Town of Fort Collins, Colorado. The homes at Revive Properties are built with a high performance thermal envelope and generate electricity from solar panels, powering a Bosch geothermal system for heating, cooling and domestic hot water.

Every new home in Revive Community will utilize a Bosch geothermal heat pump system for heating and cooling, plus a compatible geothermal-assisted hot water solution supplied by Bosch. The homes are equipped with a solar photovoltaic system to generate electricity. When operated in conjunction with the geothermal system, this combination delivers the most efficient and effective means to achieve Zero Net Energy (ZNE) use. A ZNE home generates as much electrical energy as it consumes throughout the year, with excess energy generation being supplied back into the electric utility grid. The amount of energy each home produces can be tracked and monitored from a mobile app on the internet.

According to Real Estate broker Susan McFaddin, the homes are built with super-insulated 2x6 inch walls and Heat Recovery Ventilation (HRV) to provide efficient thermal envelope and superior indoor air quality. The homes in the Revive community are built to U.S. Department of Energy (DOE) Zero Energy Ready Home standards, a designation that only the top 1% of builders achieves. Sustainable design was used to optimize energy use, storm water management, orchards and gardens.

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“These best practices in construction can help the city of Ft. Collins reach its new proposed Climate Action goals of a 20% reduction in carbon dioxide (CO₂) by 2020, 80% by 2030, and 100% reduction by 2050, since 50% of emissions come from electricity generation.

“The Colorado Energy Office (CEO) is providing a tiered incentive for the purchase of highly efficient new homes, with increasing incentives as a home’s HERS Index Rating decreases. The homes in Revive community achieve HERS rating under 10, and homebuyers qualify for an \$8,000 benefit at closing,” commented McFaddin. Two of the homes recently completed achieve a HERS (Home Energy Rating System) score of negative 8 and negative 16, exceeding requirements of Zero Net Energy Homes.

Revive homes range from 1,144-square-foot two bedroom townhomes for first-time or down-sizing buyers, to 2,500-square-foot main floor master homes with attached 500 sq ft carriage house for those who want extra income from a rental unit or professionals who need a flexible office space.

— Brian Fowler of GeoSource Distributors added, “Homes in the Revive community utilize Bosch ENERGY STAR rated Si Series CE model two-stage heat pumps in the main house, plus a console unit in the separately metered apartment above the garage. Bosch geothermal heat pumps will be connected from each home to an underground heat-exchange-loop infrastructure system, consisting of 350 ft deep geothermal boreholes that utilize the earth’s stored energy from the sun.”

Ground and water temperatures several feet below the earth’s surface remain constant throughout the year, so geothermal energy is one of the most effective and cost-efficient renewable forms of energy. A desuperheater is a device incorporated in the Bosch system to provide domestic hot water from the geothermal unit to a supplemental hot water tank, further reducing each home’s overall energy costs.

Dave Phillips, President of Philgreen Homes said, “The Bosch geothermal systems installed seamlessly and function smoothly. These are the homes of the future, today, and showcase the best of green building practices.”

Bosch business development manager Mark Stimson expressed that “Bosch has long been committed to sustainability. We offer residential developers a suite of smart and efficient products carrying the Bosch brand that resonates with today’s home buyer seeking energy efficiency, convenience and comfort.”

For more information on Revive Properties visit <http://revivefc.com/>.

Press image (attached)

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About Bosch

About Bosch Thermotechnology

Bosch Thermotechnology is a leading source of high quality heating, cooling and hot water systems. The Company offers Bosch tankless, point-of-use and electric water heaters, Bosch and Buderus floor-standing and wall-hung boilers, Bosch and FHP geothermal systems as well as controls and accessories for every product line.

Bosch Thermotechnology is committed to reinventing energy efficiency by offering smart products that work together as integrated systems that enhance quality of life in an ultra-efficient and environmentally friendly manner. For more information, visit

www.boschheatingandcooling.com

About the Bosch Group

The Bosch Group is a leading global supplier of technology and services. It employs roughly 360,000 associates worldwide (as of April 1, 2015). The company generated sales of 49 billion euros (\$54 billion US) in 2014. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including its sales and service partners, Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. In 2014, Bosch applied for some 4,600 patents worldwide. The Bosch Group's strategic objective is to create solutions for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life."*

Additional information is available online at www.bosch.com and www.bosch-press.com, <http://twitter.com/BoschPresse>.

**The sales figure disclosed for 2014 does not include the former joint ventures BSH Bosch und Siemens Hausgeräte GmbH (now BSH Hausgeräte GmbH) and ZF Lenksysteme GmbH (now Robert Bosch Automotive Steering GmbH), which have since been taken over completely.*

Exchange Rate 1 EUR = \$1.11 US.

About Revive Properties

Revive Properties is a collaborative effort to bring sustainable building to North Fort Collins. The local Revive team includes Chad Adams, Adams Bank & Trust (owner and financing); Harvey Yoakum, (project manager), Susan McFaddin, RE/MAX Alliance (marketing and development); Dave Phillips, Philgreen Construction,(general contractor); the CSU Institute for the Built Environment (sustainable design); Greg Fisher (architect); Paul Norton, former NREL (National Renewable Energy Lab) researcher (energy modeling); Gary Schroeder, Doug Schwartz and Norm Weaver, Fort Collins Utilities (energy consulting), Sam Eliason, United Civil Engineers and Laine Landau, WH Smith Surveyors.

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