



## City of Gothenburg Green Bonds Investor Letter

City of Gothenburg issued the very first Nordic 'green' bond in September 2013. With the issuance, the City of Gothenburg is a pioneer in the Nordic region for using the green bond financial framework, developed by SEB together with The World Bank and other Swedish investors. The issuance is part of a potential SEK 2 billion green bond programme from Gothenburg to help fund environmental projects.

**Eligible Projects** may include:

- Renewable Energy (solar, wind, wave and hydro)
- Energy Efficiency
- Waste Management
- Water Management (efficiency)
- BioFuel (from forestry waste)
- Smart grids
- Sustainable housing (ex. infrastructure and construction)
- K2020 public transport development program
- Environmental (max 20%)
- Development of new nature conservation areas
- Water clearing facilities

*City of Gothenburg Green Project Portfolio may comprise investments in the following areas: Renewable Energy (solar, wind, wave and hydro)*

*Energy Efficiency, Waste Management*

*Water Management (efficiency) BioFuel (from forestry waste), Smart grids, Sustainable housing, Public transport development program, Environmental (max 20%), Development of new nature conservation areas, Water clearing facilities.*

*At the end of December 2013, the City's Green Project Portfolio comprised of 3 loans across 3 different companies/committees in the Group, totaling 500 million kroner, meaning that the entire proceeds from the first green bond were drawn down..*

## Project Selection Process



Treasury and Environment Departments work side-by-side in project selection process, thus uniting the two areas in a way it hasn't been done before.

## Lackarebäck water treatment and purification filters

Existing Stage 1 ( annex North ) keeps the works being completed , while installation / mounting of the VA process equipment ( pipes , pumps, carbon filters and ultrafilters ) continues until mid- 2014.

After that the commissioning of the new processing plant parts. In Stage 2 ( annex South ) is the concrete foundation to be erected . The new standby power and switchgear building is completed and commissioned . Construction works is broadly on schedule – with the commissioning of Stage 1 in December 2014 and Phase 2 in October 2015.



**Göteborgs Stad**  
Kretslopp och vatten



## Electric cars

Introduction of electric vehicles is the focus of Gatubolaget. In 2013, the company delivered electric car # 100 to the city committee in Angered. Thus, the City Council's goal of 100 electric vehicles in the city by 2015 have already been fulfilled. In connection with the introduction of electric cars, Gatubolaget has got four quick charger for electric cars, the last of those coming into place in 2014. Gatubolaget believes there is scope to change most of the city's passenger car fleet to electric cars.



GATUBOLAGET

## GoBiGas

GoBiGas project aims to gasify wood raw material for the production of biogas that will be distributed at existing gas grid . The project is divided into two stages with a demonstration plant as the first stage and then a commercial facility that second stage . The first phase is designed to produce 160 GWh / year , equivalent to fuel to about 16 000 cars in years , and the second phase is scheduled to produce 640 to 800 GWh / year. The project is run in close collaboration with both academia ( Chalmers ) and suppliers ( Valmet on Lundbystrand , Gothenburg).

For GoBiGas project's first phase started excavation work in 2011 and installation in 2012. The facility is now completed and commissioning is underway. In 2014 , the plan is to get the demonstration plant in continuous operation for evaluating technology choices , function and performance . In parallel with the execution, a major focus was placed on participation in various fora to improve the economic conditions for the production of biogas.

 **Göteborg Energi**

