

Pilot Projects in the Baltic Countries

About the company

- Nordic Commodities AS is a Norwegian project developer working in the fields of
 - ✓ Energy efficiency
 - ✓ Renewable energy
 - ✓ Power Markets and Demand side response
 - ✓ Biotechnology
 - ✓ Smart solutions for financing, customer relations
 - ✓ Management of investment portfolios
- The staff has experience since the 1980-ies in energy markets, investment strategies, financial products etc.
- The company has contracts for project development, fund management and market introduction for several leading international high-tech companies
- Nordic Commodities AS is the Norwegian representative of the Swedish investment fund management company Alfakraft Fonder AB, under the supervision of the Swedish Financial Authorities (Finansinspektionen).

The Partners



Enfo AS – a leading Norwegian provider of Demand Side Response and Energy Management solutions



Nordic Commodities / Green Energy One are members of St. Petersburg Cleantech Cluster / Global Cleantech Cluster Association



Green Energy One AS - a Norwegian investment company funding projects in Smart Technologies and energy efficiency



Easylend AS/PLC – a Norwegian crowdfunding company with a leading platform to offer investment opportunities and loans



FIRST St. Petersburg Energy Service Company – a Russian/Norwegian joint venture in energy efficiency



LED Dynamics LTD – US manufacturer of patented high quality LED lighting equipment



OXY Solutions AS - a Norwegian producer of patented technology for water with high oxygen content – for beverages and medical purposes

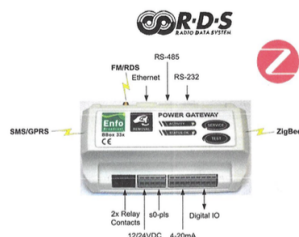


Aispot AS – a Norwegian company with mobile App that helps retail and destinations engage customers and increase loyalty.

Smart Houses and Smart Grids

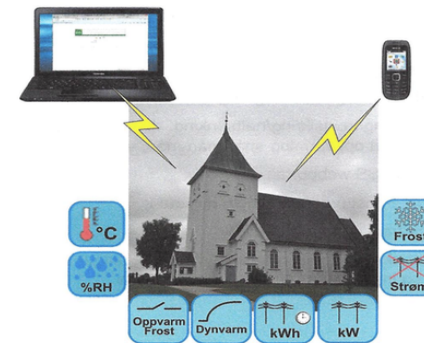
- Smart Houses/ Smart Grids and Demand Side Response/Energy Management – to introduce optimization of electricity consumption, both the level and the pattern of consumption, based on communication with market prices and Energy Management Systems. EMS is used by customer to control, monitor and evaluate ESMs and the DSR in cooperation with large electricity consumers, grid company and power retailers,

- The Enfo eFlex unit



- The Enfo eFlex unit is installed at the customers premises and connected to electric circuits

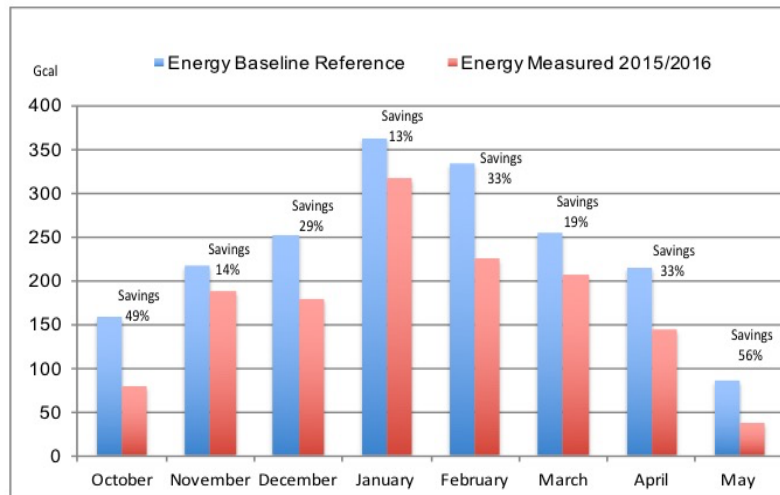
- The eFlex used in a church



- The eFlex meters and sensors are connected to applications and managed automatically or operated by personnel

The Heating System

- Heat Central Optimisation – to introduce control systems and hot water flow management equipment in apartment buildings. The ESM will be based on experiences from St Petersburg, where GEO has a pilot project in cooperation with FIRST St. Petersburg Energy Service Company and the Homeowners Associations and apartment owners and heat supplier. The ESM has been proven successful over two years.
- Documented savings in St Petersburg



- The ESM implemented in a heating central has given documented savings

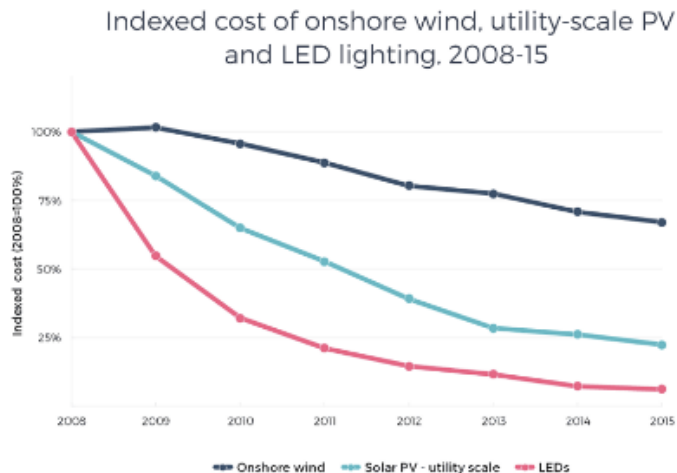
- The equipment from Danfoss



- The equipment is automated and has been in operations for two heating seasons

LED Lighting

- LED lighting – to introduce LED technology in additional applications, including public buildings, parking houses, auditoriums, offices etc. In cooperation with building owners and businesses and institutions. Typical saving 40 % compared to other lighting technology. The LED units to be used are high quality and heavy duty equipment also suitable for demanding environments, like cooling and freezing, industrial buildings, outdoor lighting etc. The equipment has proven record from installations in 2007.



- The prices of High Quality LED lighting equipment has been reduced
- Several providers will be used, both equipment manufactured in USA and Russia

Crowdfunding with documentation of CO2 emission reduction

- The Pilot Projects will develop the concept of financing solutions based on commercial incentives and to introduce Energy Service Contracts and private external financing into ESM and Smart technologies. This will take place in in cooperation with investment companies, banks and public funding institutions. The investors into the ESM will receive mission reduction documentation based on the reductions in CO2 emissions from the investment projects.

CIC AS
Dokumentasjon av miljøeffekt av lån.

Følgende dokumentasjon utarbeides ved tegning av lån og deretter hvert regnskapsår.

Långiver

Lånebeløp

Dato for innbetaling lån

Dato for beregning av miljøvirkning

Total investering i portefølje av prosjekter i CIC AS pr

Dokumentert energisparelse av portefølje pr dato for tegning av lån kWh/NOK/år

Dokumentert reduksjon CO2 utslipp av portefølje pr dato for tegning av lån kg CO2/NOK/år

Dokumentert resultat for regnskapsåret

Energisparelse kWh/NOK

Redusert CO2 utslipp kg CO2/NOK

Besparelsen av energi er dokumentert i rapporter basert på avtaler mellom CIC AS og selskaper partnere. Avtalen med hver energiforbruker beregner på årlig basis reduksjon av forbruk som følge av hver investering.

Besparelsen av energi regnes om til CO2 enheter basert på den gjennomsnittlige faktor for utslipp av CO2 fra energiforbruk og som fastsett iht internasjonale standarder.

Kontingenter

CIC AS



- The CO2 emission reduction will be documented and environmental benefits calculated for investors, similar to CO2 emission quota calculations and based on a concept by CIC AS (Norway).
- The Pilot Project will cooperate with partner Easylend AS (Norway and Cyprus) to develop a crowdfunding solution

Oxy Nordic Life – water with high oxygen content

- Oxy Solutions' patented oxygenation technology, OXY GEN, is a machine for oxygenating water. The technology make it feasible to dissolve oxygen in water up to 10 times more than what is found in water at equilibrium. The OXY GEN machine can easily be integrated to any production line. Oxygenation technology for beverage offers beneficial effects on human health. Oxygenated water increases the level of free dissolved oxygen in blood, thus increased performance can be expected.



- Oxy Nordic Life – sport, energy, and water in one beverage – increasing the energy level with no added calories



- The OXY BIO SYSTEM – oxygenation technology for cultivating cells in bioreactors – improving production efficiency and yield

App for the tourist and travel industry

- Aispot is a technology start up making next generation mobile services using blockchain and IoT (internet of things). We offer clients an online platform with a range of ready-made mobile services, a simplified CMS to manage it – and an insight dashboard to understand and serve their customers.



- Aispot Mobile Wallet helps user collect loyalty score not only through shopping, but even engagement in each store, feedback, gaming and membership in association.



- Aispot has integrated loyalty programs from email clubs, to bonus and partner benefit schemes, VIP services and loyalty banking

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