

PROBLEM

Problems arise when used cooking oil (UCO) is poured down the drain, which affects residents, communities and municipalities:

- UCO solidifies into thick layers inside drain pipes and sewers, constricting the water flow. This can result in unsanitary back-ups and overflows onto streets, basements or rivers;
- Grease clogged sewers lead to foul-smelling odors and rats;
- One single liter of UCO pollutes 1000 liters of water - oil spreads into a fine layer that affects underwater fauna and flora;
- Problems lead to increased cost of sewer system maintenance (4,26 \$/pers/year according to San Francisco Public Utilities Commission);
- Due to the problems that UCO causes to the sewer system, the cost of water purification increases (2,45 EUR/UCO litre according to Dubai's wastewater treatment plants);



Provectus Middle East process UCO (Used Cooking Oil) to biodiesel.

<http://www.thebiodieselcompany.ca>

<http://www.glySCO.ca>

Provectus Middle East is also involved in Solar panels, Biogas energy, and Wind, Solar, general electricity Hybrid system for MEES System.

Salient features of our technology for Modular Electric Energy Storage system:

- **Highly Differentiated Battery Technology:**
 - Pioneer of Lithium Ion Battery & Battery Systems for Clean Transportation/Smart Grid
 - Proprietary Lithium Super Polymer®: Platform Technology
- **Works with a range of partners and can provide a wide range of power storage from:**
 - 150 Watt-hour cells
 - 20-200 kWhr energy block
 - Megawatt container size batteries for power storage
- **Applications include:**
 - Solar/ wind energy storage
 - Residential and commercial rooftop solar
 - Telecom tower
 - UPS
 - Off-peak energy storage
 - Peak shaving
 - Load leveling, and
 - Remote off-grid power

Grid Applications & Product Line

Renewable Energy: requires storage to become reliable domestic energy option



Urbanization: demand growth challenges all parts of the infrastructure

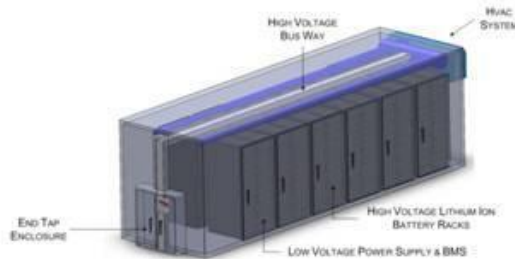


EnergyBlock : Mid-Size, 20 to 200 kWh PB25 - 400V

- Utility Scale Systems designed to provide Energy Firming and Off-peak Storage
- Electric Energy Storage solutions have the most flexibility in performance and ultimately lowest cost
- Current demonstration in Ontario, Japan, several large installations under review



1.5 MWh Energy Storage



Strong Growth Market Wins against Global Competition

Lithium Ion Battery manufacturer who does not use the toxic NMP solvent-based process

- **LOW COST:** Unique non-NMP Cell making process; dramatically lowers the CapEx; OpEx and future liabilities for Lithium Ion battery production.
- **SUSTAINABLE:** Dramatically lowers future liabilities to OEM partners. No risk from pollution during manufacturing – nontoxic solvent
- **FLEXIBLE:** Cell making can be scaled to smaller incremental production volumes - more efficient scale.
- **FASTER:** Cell making production process allows fast increase in production. Thus allowing more Efficient scale.

Conclusion:

This region is abundant of sunlight all year long with good wind corridors and the MEES system is hybrid and the applications are great....A true Renewable Energy Solution.