



Save up to **20%**  
on the capital cost of  
ThermX installations.

**We are SolXenergy.**  
A collection of  
innovative solutions for  
commercial business



**Contact Us**

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[info@solxenergy.com](mailto:info@solxenergy.com)

Cool  
Innovation



When the sun shines, no other HVAC or refrigeration system in the world can match it's ability to reduce demand side consumption, turning conventional thinking on it's head.

**Better for the bank balance**

Most countries have hundreds if not thousands of uninterrupted sunshine hours every single year. Those using the ThermX™ system exploit this available free energy, reducing the energy cost significantly.

**Better for the planet**

Air temperature control and refrigeration are two of the largest consumers of the world's total energy usage. By embracing natural free energy, with a credible ROI, we can collectively change this.

Up to **73%** efficiencies available

# What is Solar Thermal air temperature control?

A solar thermal assisted heating and cooling system. Utilizing the free energy from the sun to reduce the demand side energy usage of the system.

The international patent pending technology can be used on all types of refrigeration, comfort cooling and heating applications, boasting efficiencies exceeding 70%.

In addition to being supplied as a complete packaged solution for all applications, our solar thermal collection units can also be retrofitted onto most types of existing: screw type, digital scroll, inverter and staged scroll - Refrigeration, HVAC and Chiller systems, both in heating and cooling modes.



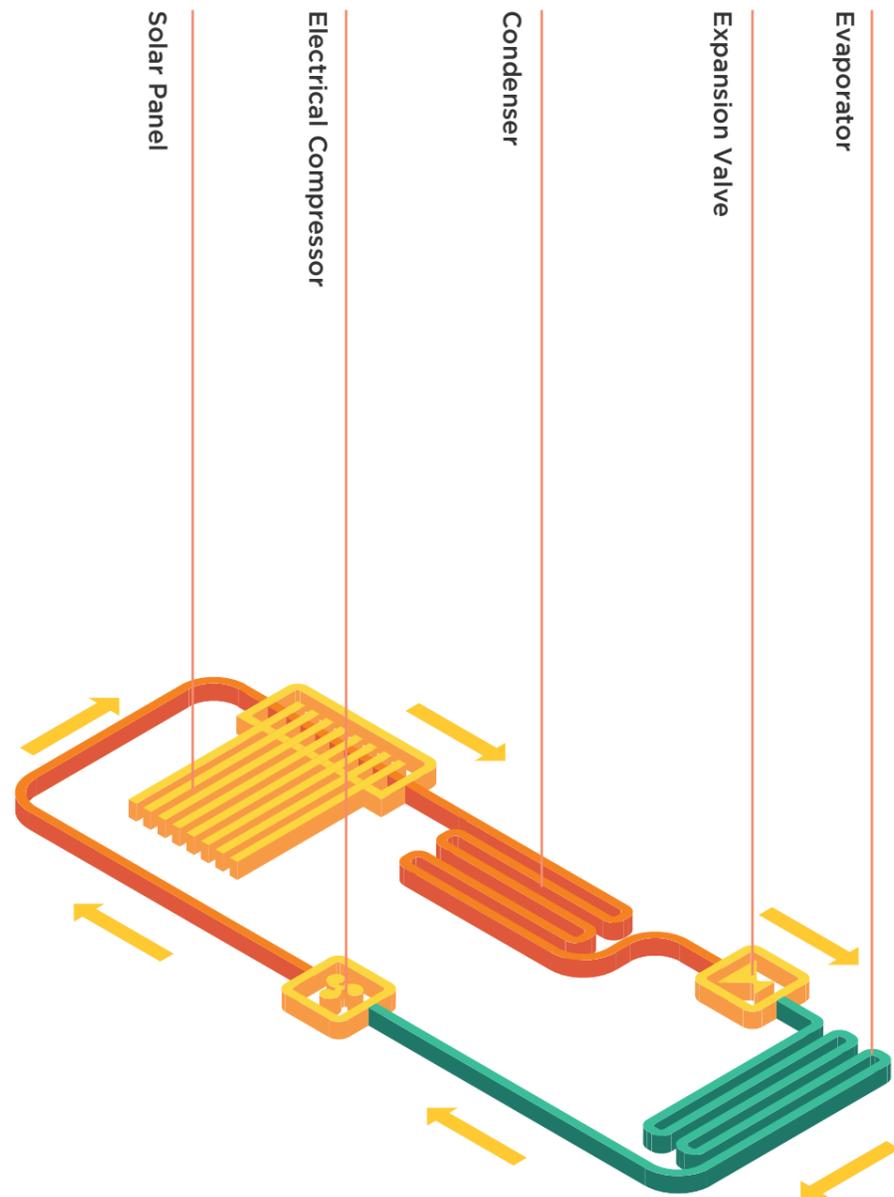
“ They projected a 51% efficiency, frankly we didn’t believe them. We took away a system and tested it ourselves for 6-months – they were wrong, we actually achieved an average efficiency exceeding 63%!

Robert Williams  
Vice President of Engineering  
Cable & Wireless

Just a few of our blue chip clients:



# How Solar Thermal works...



Efficiencies recorded as high as **73%**



The hotter it gets,  
the more efficient the  
system becomes...

## Controlled vs. uncontrolled systems

Imagine you have an aircraft that is designed to fly at only one speed; 500 mph. Of course this is ridiculous as all aircraft fly at variable speeds, however for the purpose of this explanation let's imagine this for a moment.

While flying the aircraft, you experience a very strong tail wind of 100 mph. This would push the aircraft to 600 mph, dependent on the design:

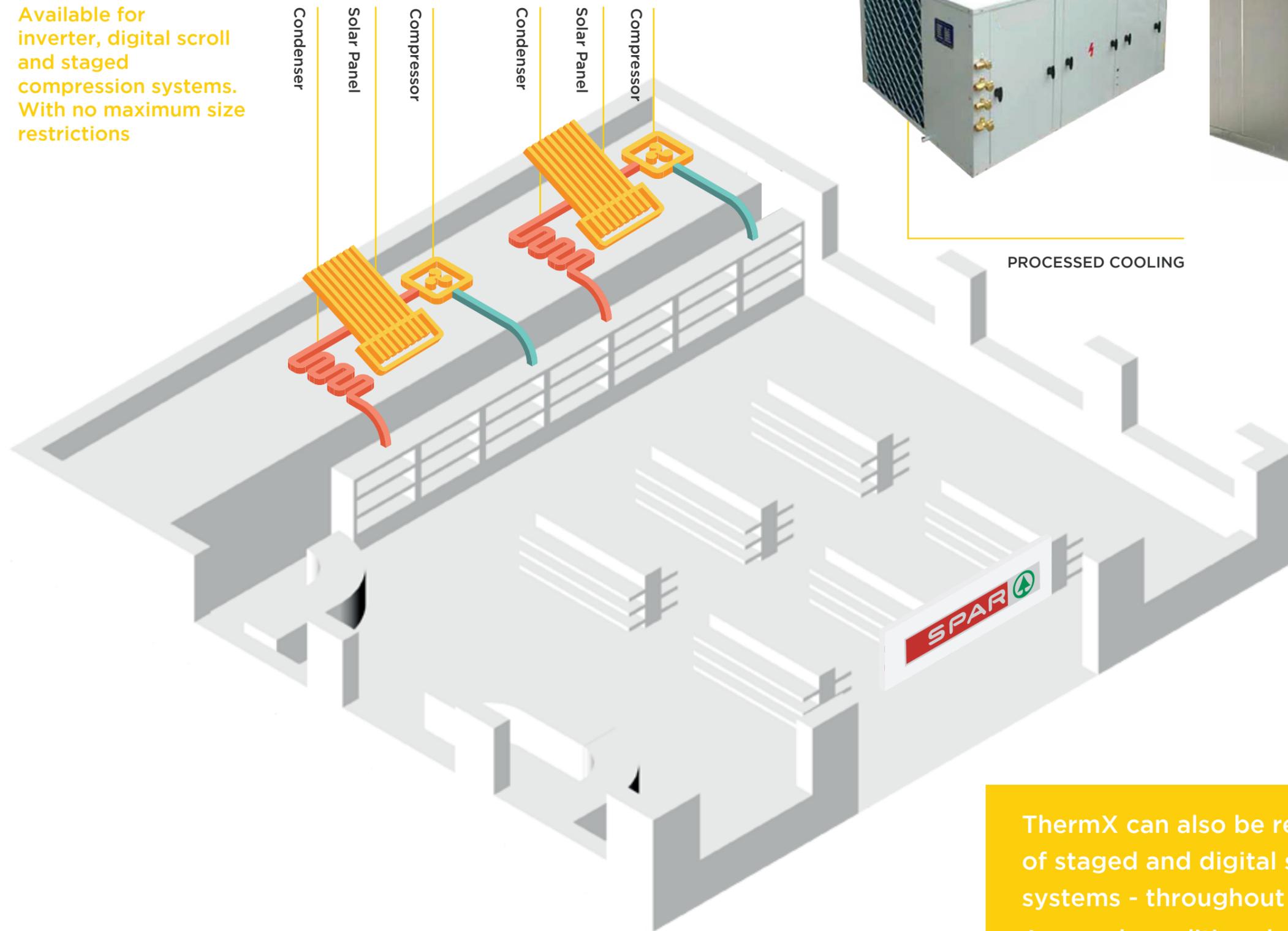
**Uncontrolled 'systems'**- In this case we have an aircraft that is designed to fly at only one speed of 500 mph, nothing more, nothing less, as you would expect from a single fixed speed (on/off) compressor. You have the potential to push the aircraft to a speed of 600 mph, however you can't because the aerodynamics are not capable of this speed, and you can't reduce the acceleration because it's fixed. Therefore you had the potential, but were not able to realise it.

**Controlled 'systems'**- Now we have an 'engine' with a variable speed so we can now reduce the acceleration. Reducing down to 400 mph plus the tail wind of 100 mph we still achieve a total speed of 500 mph, however we are now saving huge amounts of gas.

This is exactly what solar thermal does. We use an engine (the compressor), which has the ability to slow down in variable or staged modes, simply because the tail wind (the Solar Thermal Collection System) allows the engine to achieve the original speed (cooling capacity) without the additional fuel consumption.

# Refrigeration innovation

Available for inverter, digital scroll and staged compression systems. With no maximum size restrictions



PROCESSED COOLING



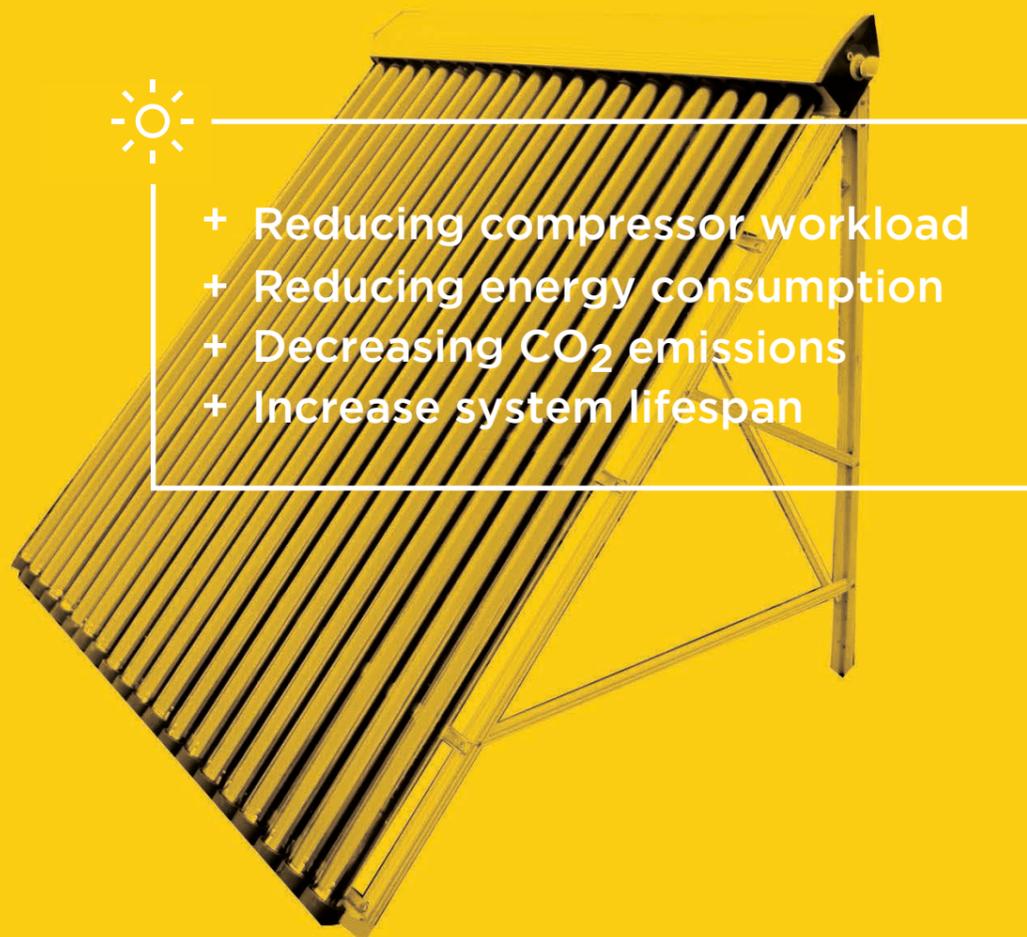
CHILLED STORAGE



AIR CONDITIONING

ThermX can also be retrofitted onto most types of staged and digital scroll commercial refrigeration systems - throughout all temperature ranges. Age and condition dependent.

Clever, Clean,  
Green Innovation



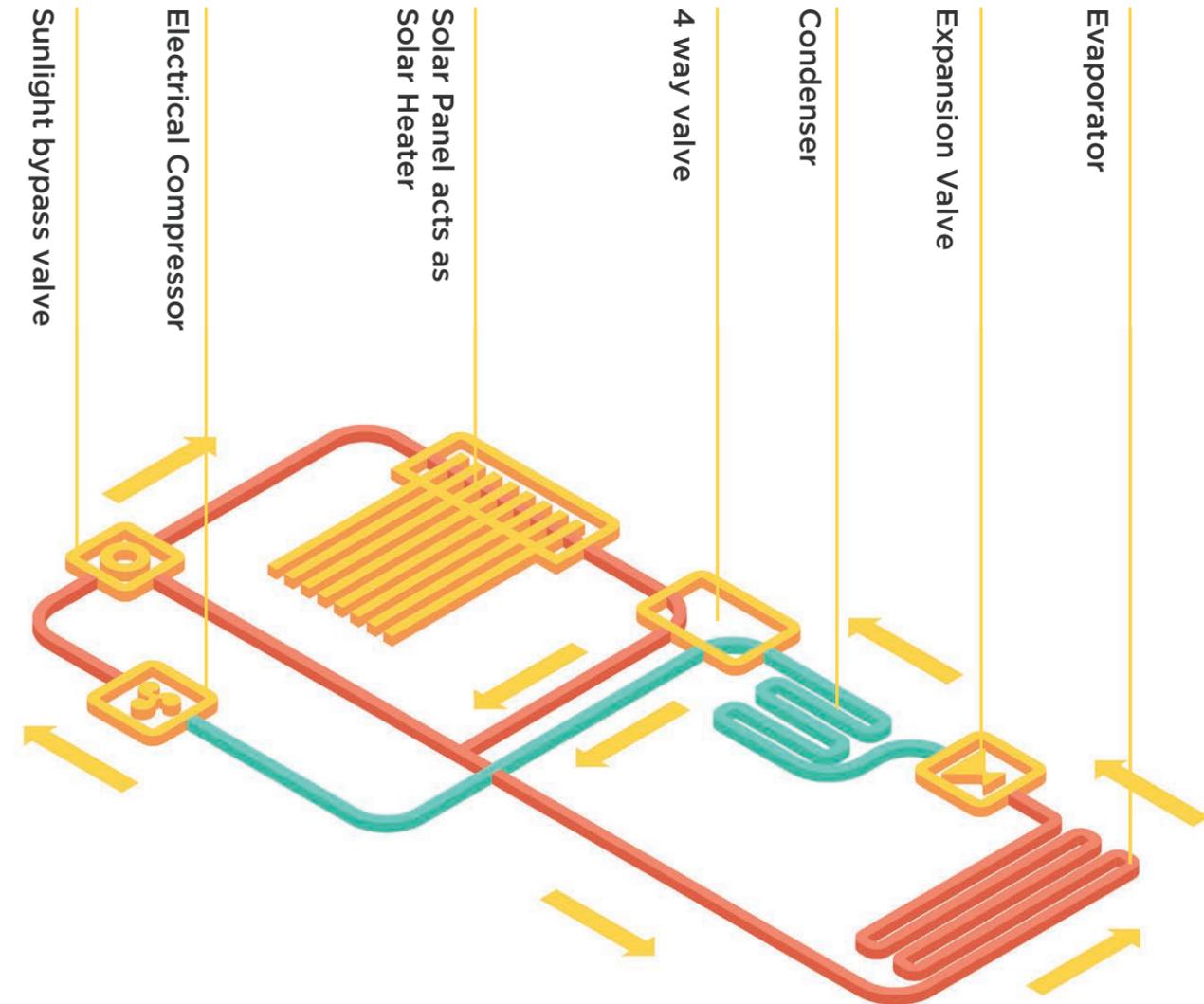
- + Reducing compressor workload
- + Reducing energy consumption
- + Decreasing CO<sub>2</sub> emissions
- + Increase system lifespan

Built for  
performance

ThermX systems are purpose built for all types of applications across all aspects of refrigeration & air temperature control. There are virtually no applications that ThermX can not be partnered with to achieve improved efficiencies.

ThermX can also be retrofitted onto most types of inverter, digital scroll, screw and staged scroll commercial HVAC and chiller systems - across all temperature ranges. Age and condition dependent.

## Eco-advanced Heating



ThermX Air Conditioning systems are manufactured by one of the largest A/C manufacturers in the world. Available with digital scroll, inverter and staged compression, with no size restrictions; ranging from single splits through to heavy industrial chillers and VRF's.



SolX Energy also boasts a number of complementary innovations, designed to reduce energy consumption in all aspects of commercial business.



- Check out your local and national government tax and/or utility incentives, or speak with your SolX Energy contact.
- ThermX qualifies for many government tax and/or utility incentives in many different countries around the world, including the UK and the USA.
- Such incentives can reduce the already attractive ROI's on our technology down below 1.5yrs in many cases and in some cases even lower.



Efficiency Through Innovation

## Innovation Validation



“It’s still very early days, but so far we are seeing efficiencies over 50% reduction in electricity. We do need to get at least a few more months under our belt before we can commit to further installs, however it all looks positive so far.”  
 - *Justin McKay, Cummins Global Facilities Leader.*



“Initial testing of the first applications of the clean energy systems have shown a dramatic 90% reduction in talent trailer generator idling and fuel usage, furthermore we expect our latest line being manufactured at this time to be approximately 30% more efficient than our initial results.”  
 - *Andre Champagne, CEO of Hollywood Trucks.*



“We installed the trial system in May 2014, and then left it with the C&W engineers to conduct their own testing. Over the following six months C&W’s own engineers monitored SolXenergy’s performance and stability in detail. We projected an energy efficiency of c.51% at the outset, however at the follow up meeting they told us we were way out! Our test system performance was much higher than this and totally smashed our projections and more importantly their expectations.”  
 - *Greg Uptagrafft, Powerplus Bahamas, President.*



“When SolXenergy approached us, we were on board from the outset. We have huge annual electricity costs, so we are open to anything that helps us reduce this overhead. It’s early days, so we can’t verify exact figures, but what I can say is that so far they are looking in line with what was originally projected. If that turns out to be the case, we will be looking at further installations.”  
 - *BWG Spar operator, Bernard Kealy.*



“They have already reduced the energy usage in seven of our sites by an average in-excess of 36%, so they were clearly the right partner for this project. What’s more, their affiliation with SolXenergy refrigeration technologies ensured a perfect fit. So far they are producing results that are in-line with their own projections and therefore our expectations.”  
 - *Richard Cox, Kay Group MD.*



“We successfully integrated the Intel Quark™ technology with SolXenergy’s ingenious energy solution at a local supermarket outlet (Leixlip, Ireland) as an evaluation site. The Platform and overall solution allows for real-time, remote assessment of energy supply (renewables) and usage within the store, giving opportunity for breakthrough intelligence and hence further efficiency actions.”  
 - *Brian Quinn, Director of the Intel Labs Europe Innovation Program.*

## Efficiency through innovation - without the cost



**TEXACO**



**Mercedes-Benz**



**Cable & Wireless  
Communications**



**Generator  
Technologies**



**HOLLYWOOD  
TRUCKS**



**CHINGFORD**

