



NOSTROMO

COOLING GLOBAL WARMING

Transform commercial buildings' cooling systems into energy-storage assets.

Nostromo developed the most cost-effective, safe and clean Thermal Energy Storage system available, based on water. Commercial HVAC (Cooling) systems are the largest single consumer of energy on the electric grid (up to 25% of total peak demand). As temperatures rise, the need for cooling is growing day by day. Nostromo's Ice-based energy storage system enables renewables integration, lowers carbon footprint, reduces energy costs, and enhances building and community resilience.

NOSTROMO'S SYSTEM IN A NUTSHELL



Commercial cooling systems consume up to 70% of the peak electric load of commercial buildings. Nostromo's next generation Ice-based TES (Thermal Energy Storage) stores energy during off-peak hours/surplus solar and uses it for cooling during peak hours. The system is environmentally friendly. Its proprietary cells are based on water and last 20 years with no degradation.



Minimal Real Estate Footprint. The system's energy density per square foot is significantly higher than other TES technologies and it can be installed on most rooftops or basements.



Designed for both new builds and retrofits. The installation requires a single connection point to the existing HVAC system.



Roof Installation on Medinol, Medical Devices



Nostromo's TES is a great solution for Data centers, office buildings, hotels, manufacturing facilities, shopping malls, cold storage and any HVAC system with a cooling capacity of 200 TR and above.



High performance. Nostromo's system uses a novel encapsulated ice technology with unprecedented round-trip efficiency (>85%). It can discharge 95% of the stored energy within 4 hours at a very stable rate.

BENEFITS

Transform the building's cooling system into an energy-storage asset with economical, operational, environmental, and social benefits.

ECONOMICAL

Reduce the electricity costs for cooling by up to 30%

HVAC System rightsizing - Avoid expansive cooling capacity - Significant CAPEX and OPEX savings.

Utility and regulatory incentives.

Tax Incentives.

HVAC systems last longer and operate more efficiently.

SOCIAL

Promote Environmental, Social and Corporate Government (ESG) goals,

Receive LEED points.

Boost positive social media exposure.

Cooling global warming

ENVIRONMENTAL

Charge more EVs without investing in expensive infrastructure upgrades.

Reduce the facility's carbon footprint.

Extend solar beyond sunset – Enable solar energy power all cooling demands 24 hours a day.

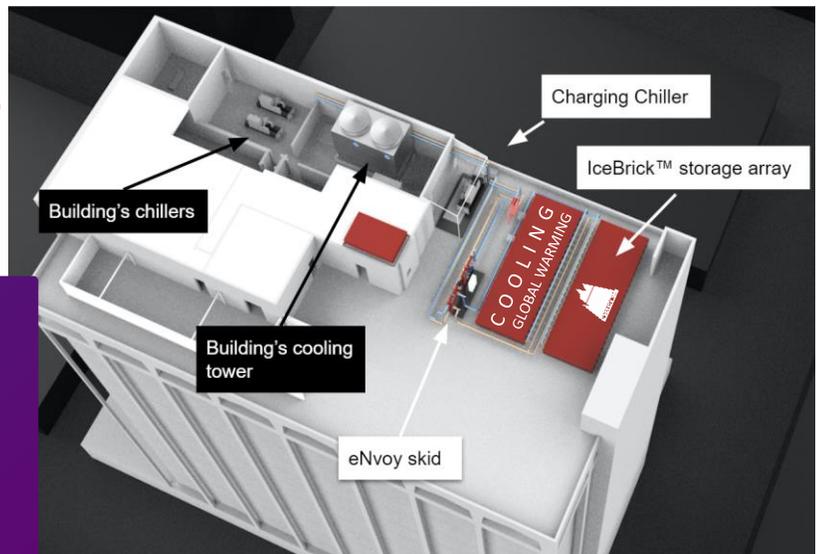
Safe and 100% Recyclable.

OPERATIONAL

Cooling Resilience. Nostromo's system provides a back up for your existing HVAC system.

Reliability. Reducing the load of the backup generator during outages.

Advanced energy management capabilities via a cutting edge application.



Simulation of expected installation in LA, CA, 2021

WHY CHOOSE ICE STORAGE OVER LITHIUM?

LITHIUM-ION STORAGE

Safety Risks

Subject to hazardous materials regulations.

Degradation

30-40% over 10 years.

High environmental impact

& very challenging to recycle.

NOSTROMO STORAGE

Safe

Can be installed anywhere

No degradation

Water doesn't degrade

100% Recyclable