

# Ice that doesn't melt in the desert

2017 ENERGY SHOWCASE WINNER  
SPORTS VENUE



## The San Diego Ice Arena

The San Diego Ice Arena was built in 1975, but Mark and Philip Linssen didn't acquire the facility until 2000. With the arena being open 363 days a year, from 4 a.m. to 2 a.m., they had a decision to make when they took over. Either close the arena while they developed their plan for new equipment and facility upgrades, or stay open for the tight-knit group of figure skaters and hockey players that consider the arena their second home. They decided to stay open and make the upgrades, for their skaters, in phases.



### Total control

How do you get all the different pieces (chillers, evaporative condenser variable frequency drives, dehumidifier) to keep the place running like a well-oiled machine? You install an Energy Management System that can be expandable for future equipment additions and optimizes the savings for the facility by running all the various components from one program ([sdge.com/ti](http://sdge.com/ti)).



**"When we took over the arena, we were at about 3,700 kWh/day and didn't think we could come close to zero net energy. However, after putting together a plan, being innovative and implementing over 11 energy-efficiency measures we are now at 750 kWh/day and foresee a day that we may get to our zero net energy goal."**

— Mark Linssen, Owner- quoted (right)  
with Philip Linssen, Owner

### Be innovative in finding solutions

The San Diego Ice Arena was wasting 3,000 gallons of ice down the drain when the ice resurfer was finished. They knew there had to be a way to reuse the ice and found the sub cooler snow melt. Now the ice they collect converts into water, held in a reclamation tank and then is used to pre-cool the refrigerated liquid line that runs under the ice to keep it cold.



### Looking up

Not only did they install all new LED lighting, but they added a dimmer to the system as well. During hockey games, they can crank the lights to 100%, but at other times they can now dim the lights to 45% of the original lighting and customers see no difference. And with their new silver e-ceiling insulation which helps keep the cool air in the building, and everything is looking up when it comes to savings for the facility ([sdge.com/bizrebates](http://sdge.com/bizrebates)).

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