

# A star behind the scenes

## HIGHLY EFFICIENT CHP DUO REDUCES COSTS IN THE ARENA RIGA



*The dash for the puck, the unbridled energy of international basketball giants and gripping concerts from world stars thrill hundreds of thousands at the Arena Riga. The two patruus engines are the silent stars behind the scenes.*

The Arena Riga was built in the Latvian capital for the 70th World Ice Hockey Championship in 2006. Since then, it has become a highly sought venue for international sports, music and

cultural events. The stadium can accommodate up to 14,500 people. Since 2014, the arena has produced most of the energy it needs itself.

Two 2G patruus CHP plants running on natural gas were installed as a duo in a Twin Pack container. Together, they provide a total electrical output of 600 kW and thermal output of 760 kW. Both the electricity and the heat are used one hundred percent on site.



### Ice production expenses significantly reduced

Ice rinks are generally known to require large amounts of energy. The main potential for optimization here lies in the generation of cooling energy for the ice. That's why the Arena Riga uses most of the energy produced by its CHP plants for pre-cooling in ice production. The use of two modules in different sizes means the energy production can always be adjusted flexibly as needed. Not least, it significantly reduces energy expenses.



#### Arena Riga

[arenariga.com](http://arenariga.com)

patruus 200, patruus 400

Natural gas

200 kW, 400 kW electrical

256 kW, 504 kW thermal

Container solution

