



Photograph: The Prime Minister of Latvia launching the new facility

SOLAR THERMAL DISTRICT HEATING PLANT

Inauguration Event – Salaspils Siltums, LATVIA

Date: September 12, 2019

Time: 15:00

Project Developer: FILTER SIA & ARCON-SUNMARK A/S

EVENT BRIEF

The opening ceremony of the newly developed solar-thermal based district heating facility was organized by Salaspils Siltums at the project site on September 12, 2019.

The high profile event was attended by the Prime Minister of Latvia, Mayor of Salaspils, representatives from the European Commission, members of the Danish District Heating Association, district heating business clients from Latvia and Lithuania, FILTER Team, Arcon-Sunmark Team, Salaspils Siltums Team and notable guests from the Baltic states.

The event lasted for one and a half hours where the techno-commercial side of the project was explained and how this newly constructed facility will help the local town and position itself as a major example for others. FILTER and Arcon-Sunmark were significantly credited by the respective stakeholders in successfully pulling of this one of a kind renewable facility as per the contract criteria's.

PROJECT BRIEF

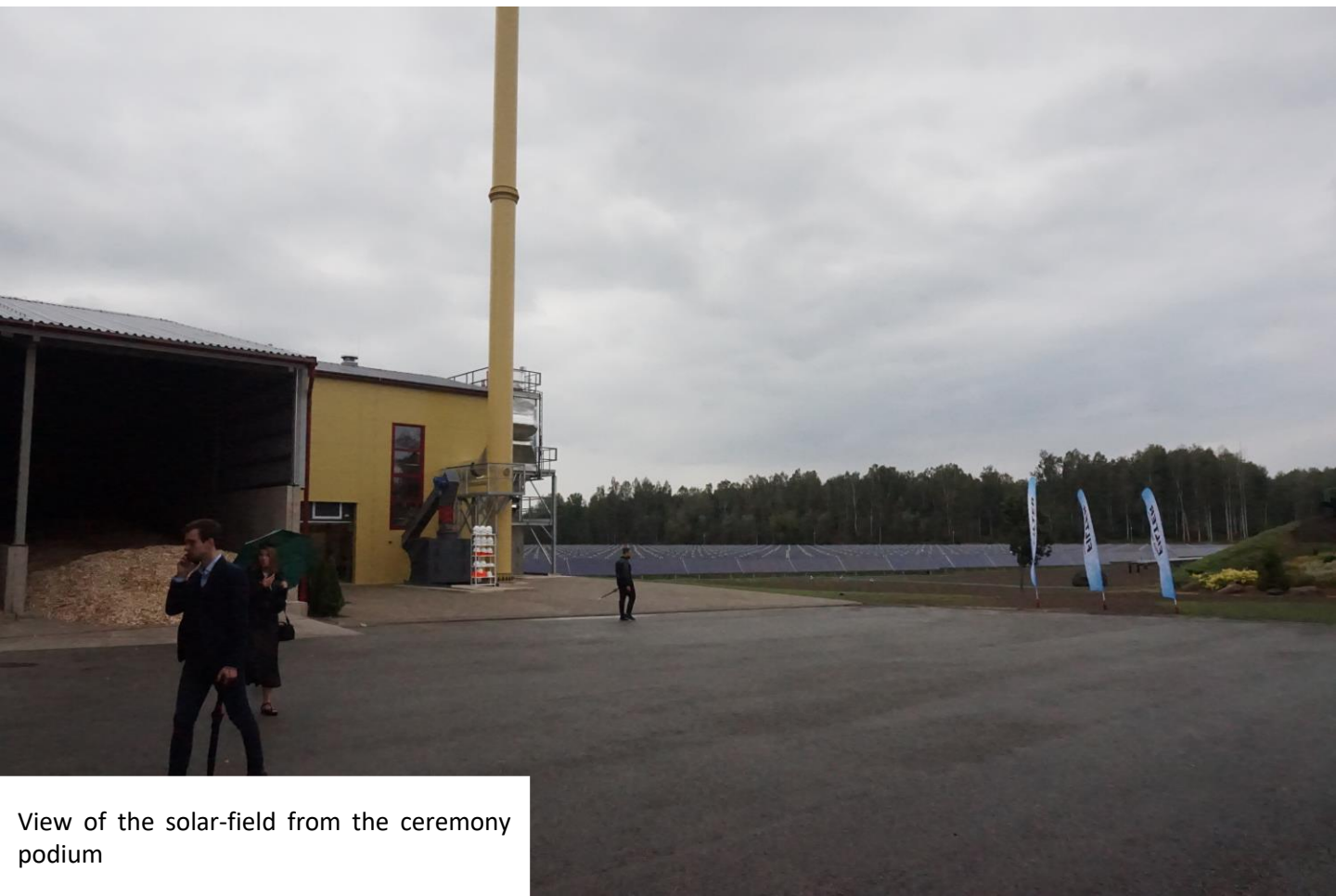
The project served as a transition from conventional district heating to renewable energy based district heating. The principal EPCC for this project was FILTER SIA who partnered with Arcon-Sunmark A/S.

A 6.5 hectare solar field was setup with 1720 collectors (filled with glycol) that transfer the heat via a heat exchanger to a cylindrical accumulator tank (8000 m³) having an inner diameter of 20 m and net height of 28 m. The solar field was under the scope of Arcon-Sunmark A/S and sits on an effective area of 21595 m². The expected annual thermal output from the field is 12000 MWh (20% of the annual heat from Salaspils Siltums Company). Additionally, a 3 MW biomass based boiler house was constructed along with storage arena for the biomass. All of the heat sources are integrated and synchronized into the existing heating network. It is believed that this new arrangement will reduce heating tariffs by at least 5% starting 2020. The boiler house, accumulator tank and biomass storage arena was under the radar of FILTER SIA.

The net project cost was Euros 7.259 M and main contributors were the EU Cohesion Fund and credit from SEB Bank.



View of the inauguration arena with the heat accumulator, boiler house and woodchip storage shed as a background



View of the solar-field from the ceremony podium



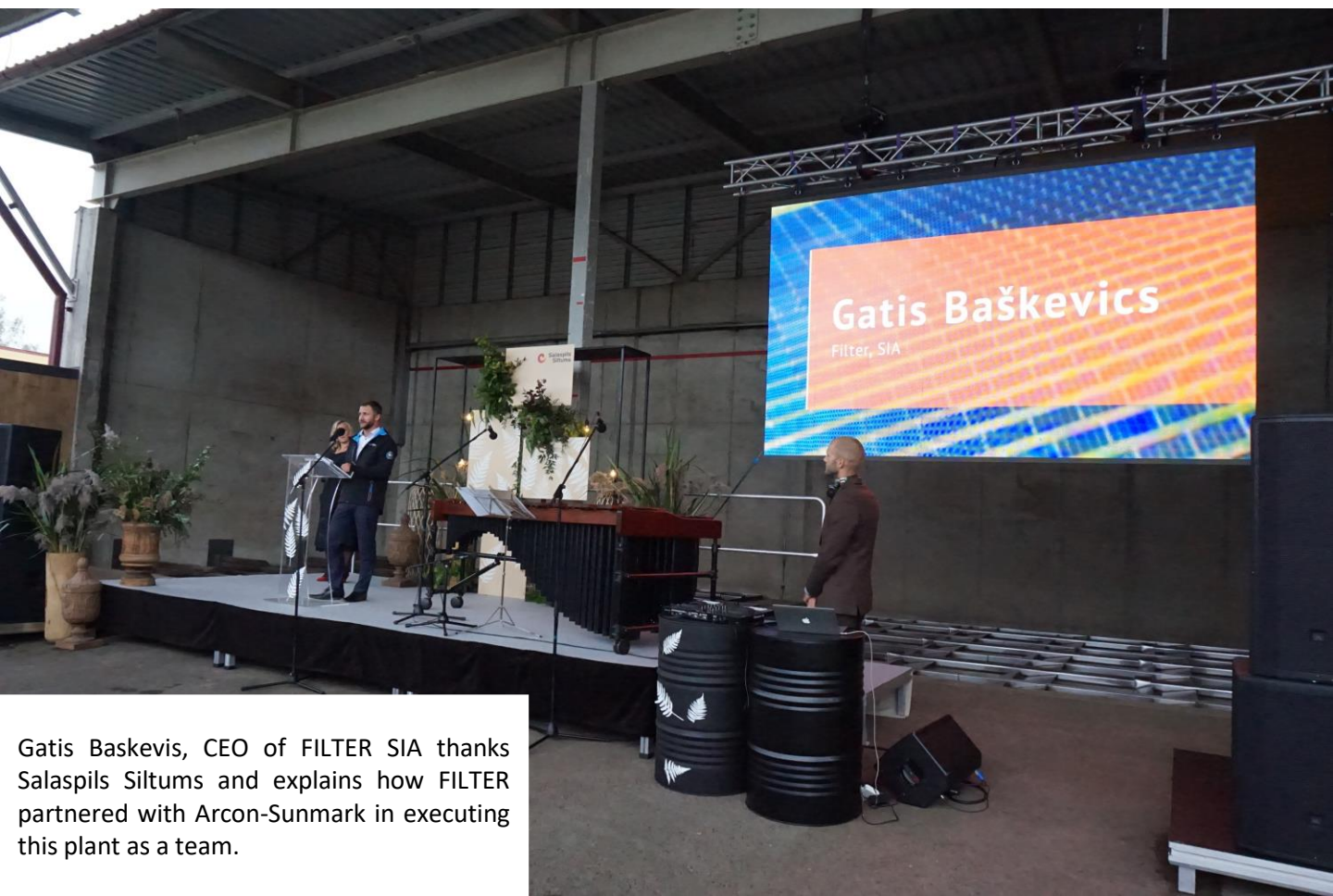
Ina Berzina-Veita, CEO of Salaspils Siltums explains the technical side of things about this project and how Latvia is transforming to a post-soviet era in the context of advancement in district heating



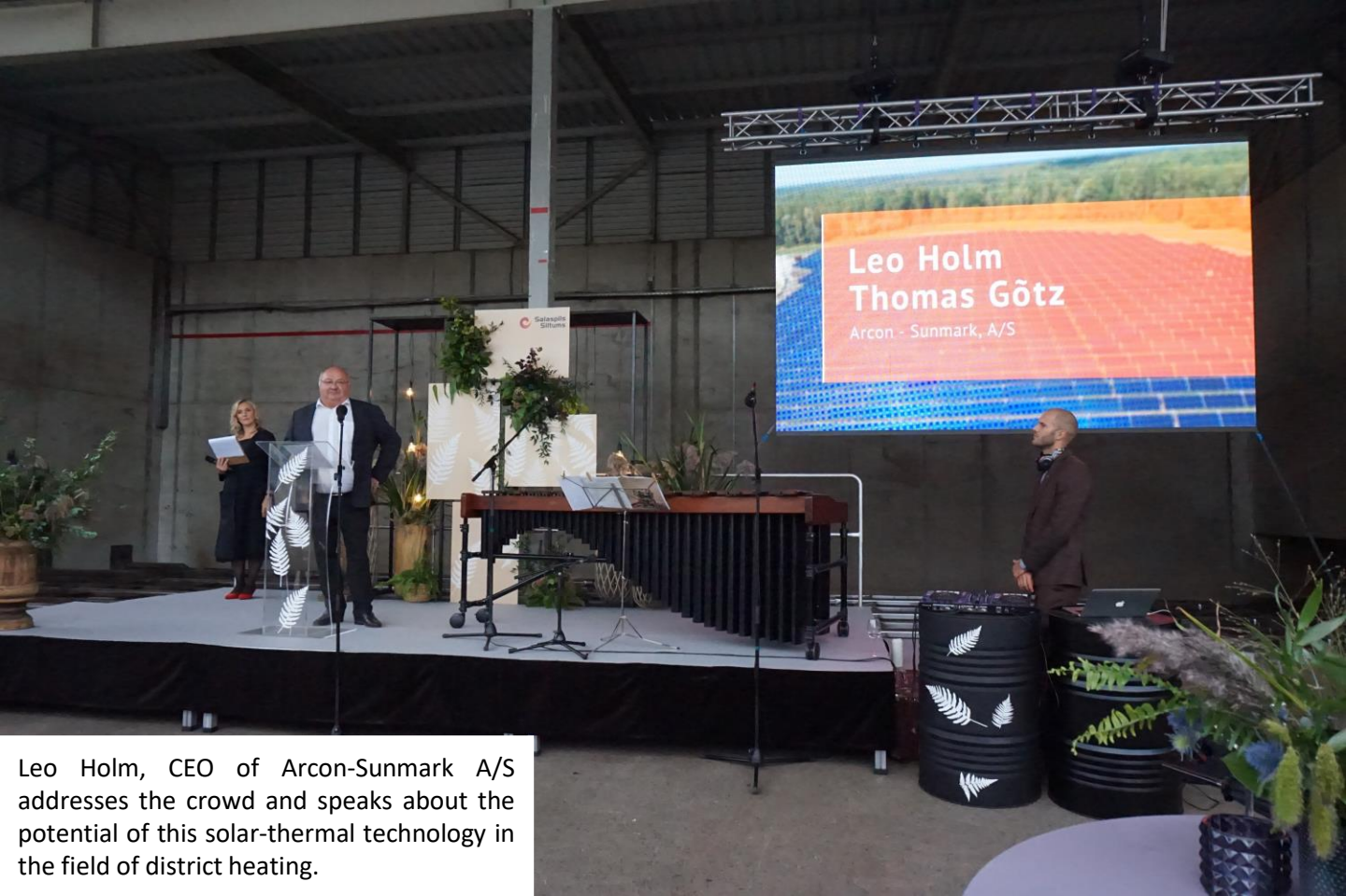
Arturs Krisjanis Karins, Prime Minister of Latvia talks on the need for more of such facilities to benefit Latvia and become an example to the rest of the world through minimization of carbon footprint in running of district heating processes.



Raimonds Cudars, Chairman of Salaspils Regional Council talks about how this new plant will benefit the district.



Gatis Baskevis, CEO of FILTER SIA thanks Salaspils Siltums and explains how FILTER partnered with Arcon-Sunmark in executing this plant as a team.



Leo Holm, CEO of Arcon-Sunmark A/S addresses the crowd and speaks about the potential of this solar-thermal technology in the field of district heating.



Birger Lauersen, VP of Euroheat & Power explains the need for such a facility at other European countries.



View of the boiler house and accumulator tank from the highest accessible point on site.



View of the heat accumulator tank and boiler house with accessory equipment that takes feed directly from the solar collectors.



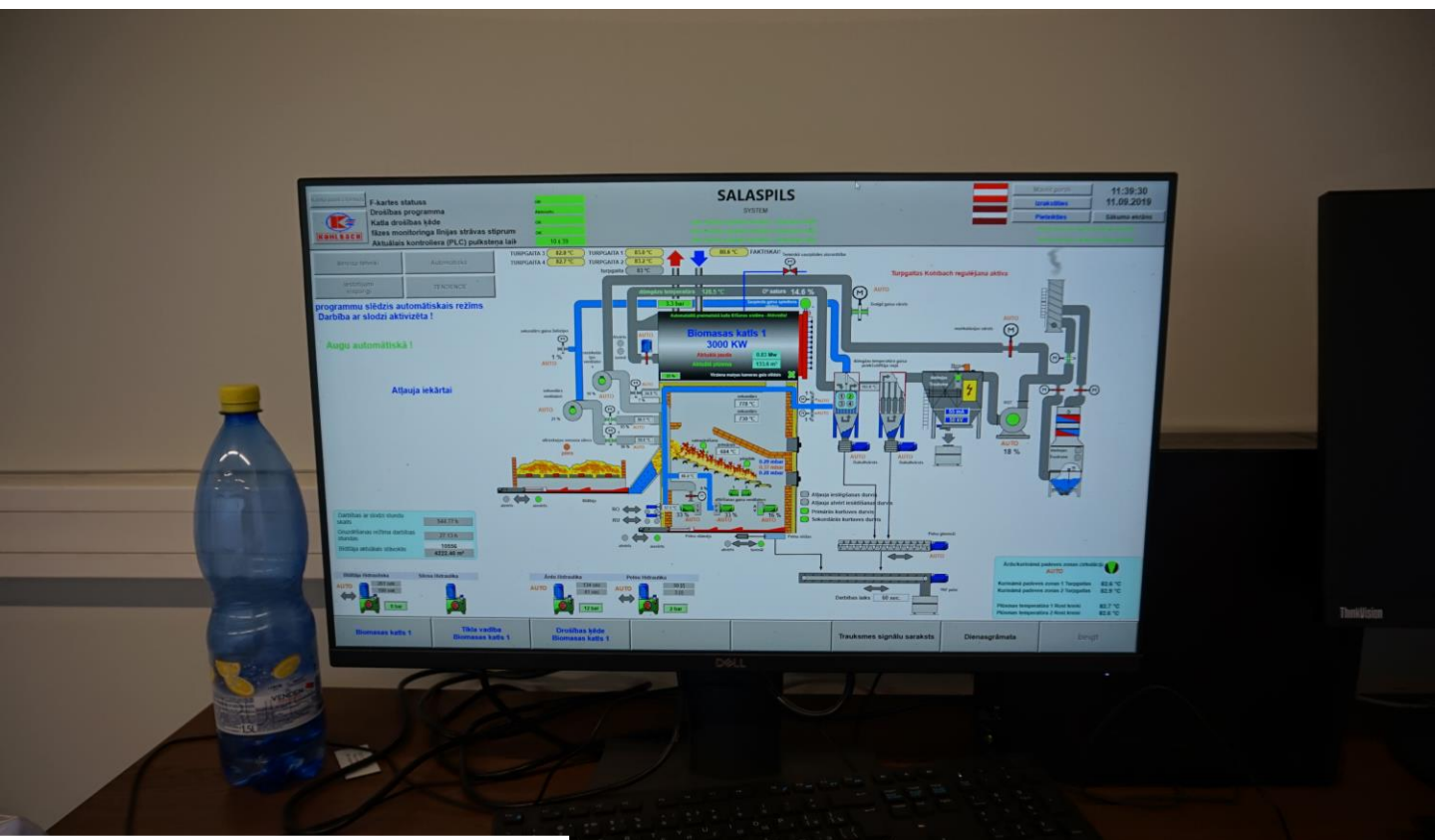
Solar-collector field view from the top of the boiler room which was under the scope of Arcon-Sunmark A/S.



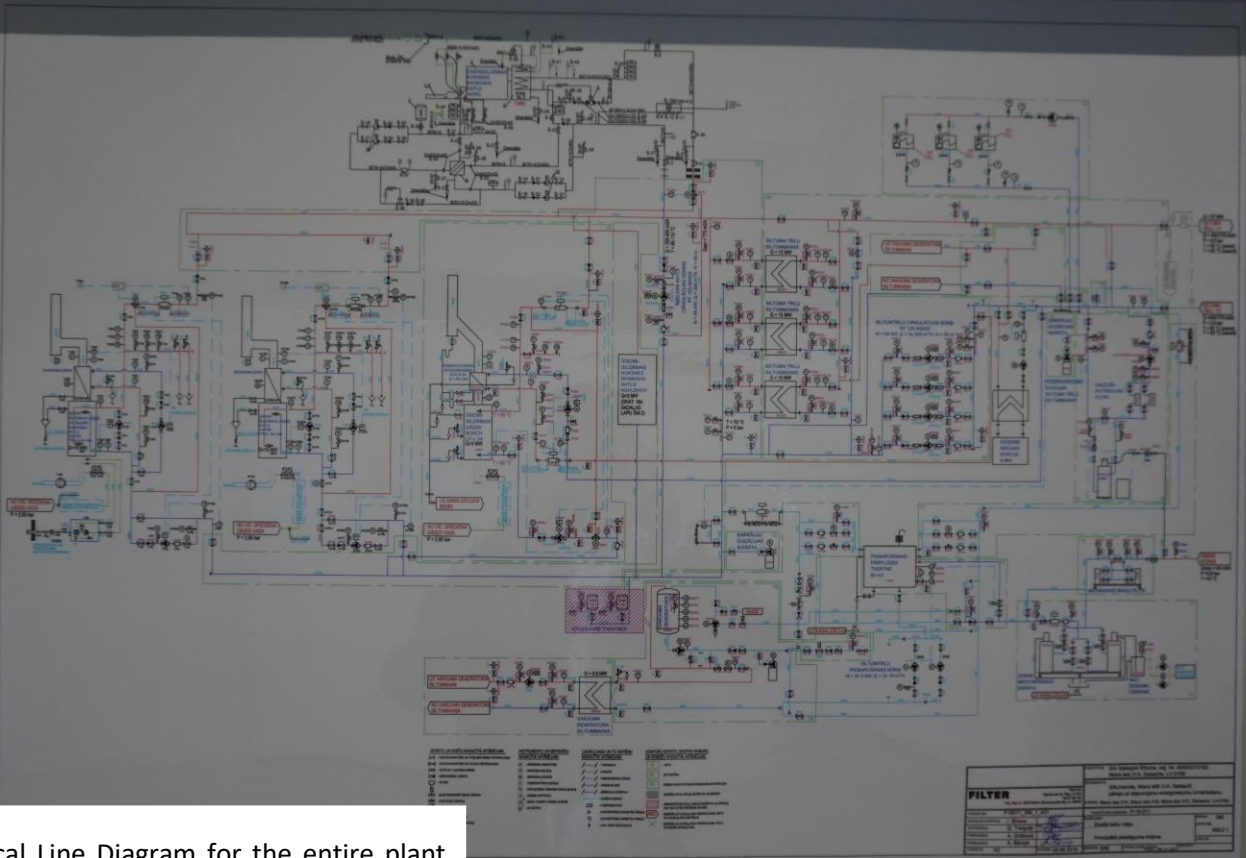
Aerial view of the smoothed solar-collector field with manned flags before the inauguration event.



Inside view of the newly constructed biomass boiler house.



Real-time monitoring display for operators at the control room.



Technical Line Diagram for the entire plant being placed inside the control room.



Gift from FILTER SIA to the CEO of Salapils Siltums as a token of appreciation.



Photograph: FILTER SIA Team and Arcon-Sunmark A/S Team with the CEO of Salaspils Siltums at the project site

FILTER is an international technology firm operating in the field of energy and water in select regions of eastern Europe, namely Estonia, Latvia, Lithuania, Bulgaria, Belarus and Russia. We build combined heat and power plants, solar-thermal based energy facilities, water treatment plants, boiler houses and specialize in a variety of ecosystem products, solutions and services.

HEADQUARTERS

Telephone: +372 606 6666
Email: filter@filter.ee
Address: Läike tee 9, Peetri, Rae vald, Harjumaa 75312, Tallinn, ESTONIA

© 2019 FILTER. All rights reserved.

