

# Philips Lighting begins largest LED horticultural lighting project in the world

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- LED grow lights will illuminate greenhouses occupying an area the size of 40 soccer pitches
- Project indicative of trend for large-scale horticultural LED lighting projects supporting domestically grown produce

Eindhoven, the Netherlands – Philips Lighting (Euronext Amsterdam ticker: LIGHT), a global leader in lighting, today announced that it will provide LLC Agro-Invest, Russia's most innovative greenhouse produce company, with LED grow lights to support cultivation of tomatoes and cucumbers in greenhouses covering an area of more than 25 hectares (equivalent in size to about 40 soccer pitches). The project, which is the largest LED horticultural lighting project ever undertaken, will enable year-round growing, help boost yields - especially in the winter - and will save 50 percent on energy costs compared to conventional high-pressure sodium lighting. The project also underlines a global trend for large-scale LED horticultural lighting implementations that can support demand for locally grown produce.

Philips Lighting is working with Dutch partner Agrolux and Russian installer, LLC ST Solutions, which will equip greenhouses in Lyudinovo, Kaluga Oblast, 350 km south west of Moscow, during the next three months. Philips Lighting will provide 'light recipes' optimized for growing tomatoes and cucumbers, training services and 65,000 1.25m long Philips GreenPower LED toplights and 57,000 2.5m long Philips GreenPower LED interlights. Laid end to end, they would stretch 223 km, the equivalent of crossing the English Channel from Dover to Calais more than five times.

"We have a reputation for innovation on a large scale and LED grow lights are definitely the future. They deliver the right light for the plant, exactly when and where the plant needs it the most, while radiating far less heat than conventional lighting. This allows us to place them closer to the plants," said Irina Meshkova, Deputy CEO and General Director, Agro-Invest. "Thanks to this technology we will be able to increase yields in the darker months of the year, and significantly reduce our energy usage," she added.

"This LED horticultural project is the largest in the world. It will reduce the electricity consumed to light the crop by up to 50 percent compared with conventional horticultural lighting and uses light recipes designed to boost quality and crop yields by up to 30 percent in the dark period of the winter," said Udo van Slooten, business leader for Philips Lighting's horticultural lighting business. "Our grow lights are the perfect supplement to natural daylight so that crops can be grown efficiently throughout the year. The project also highlights a growing international trend to replace imports with domestically grown produce, reducing food miles and ensuring freshness," he added.

Notes to Editors:

About Agro-Invest

LLC Agro-Invest is Russia's most innovative greenhouse produce company. Its 43 hectare modern greenhouse complex grows more than 15 varieties of vegetables with an annual production capacity of 25,000 tons. The company acts ecologically, collecting rainwater to water the plants which are pollinated by bees from special beehives within the greenhouse complex. The latter helps improve harvests by 20-25 percent. Protection of the plants is undertaken by natural biological methods. Since 2016, Agro-Invest has sold and marketed its produce under the "Moyo Leto." trademark. The company works with all the federal trade networks in the Russian Federation and is expanding its operations.

#### About Agrolux

Agrolux is a worldwide supplier of assimilation lighting for horticulture. It is the biggest dealer in Philips LED horticultural lighting worldwide. It distinguishes itself based on advice, service and quality. It also produces its own luminaires and exports them to clients worldwide. The company's broad knowledge, extensive experience and innovative technology, make it stand out as a leader in the horticulture sector. It combines good, honest advice with the fast and dependable delivery of lighting luminaires and parts. Established in 2002, Agrolux has grown in size and production numbers annually. Its employees come from diverse sectors within horticulture and offer a wealth of practical experience, providing the best advice and most efficient lighting for horticulture.

For more information on Philips horticultural lighting: [www.philips.com/horti](http://www.philips.com/horti)

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#### About Philips Lighting

Philips Lighting (Euronext Amsterdam ticker: LIGHT), a global leader in lighting products, systems and services, delivers innovations that unlock business value, providing rich user experiences that help improve lives. Serving professional and consumer markets, we lead the industry in leveraging the Internet of Things to transform homes, buildings and urban spaces. With 2016 sales of EUR 7.1 billion, we have approximately 34,000 employees in over 70 countries. News from Philips Lighting is located at <http://www.newsroom.lighting.philips.com> and on Twitter via @Lighting\_Press.