

18, January, 2024

Furukawa Electric Power Systems Co., Ltd.

Sumitomo Corporation Power & Mobility Co., Ltd.

Implementation of a project to test and adopt Japanese snow damage prevention products in the Republic of Kazakhstan

Sumitomo Corporation Power & Mobility Co., Ltd. (President and CEO: Masahiro Narikiyo; hereinafter referred to as “SCPM”) and Furukawa Electric Power Systems Co., Ltd. (President and CEO: Kazuya Ono, hereinafter referred to as “FEPS”) agreed with UranEnergo LLC, transmission lines operating company in the Republic of Kazakhstan, to conduct a pilot project to evaluate the effects for snow damage developed and manufactured by FEPS for overhead transmission lines operated by UranEnergo LLC. A memorandum of understanding was signed during “Japan-Kazakhstan Business Forum” in Astana, Kazakhstan on January 12.

UranEnergo LLC is a transmission line operating company established by Kazatomprom, a state-owned nuclear power company in the Republic of Kazakhstan, and supplies electricity to uranium mining companies developed by Kazatomprom. The company has been struggling for many years with power outages and damages to their power transmission facilities caused by the large amount of snow accretion on their transmission lines during winter seasons.

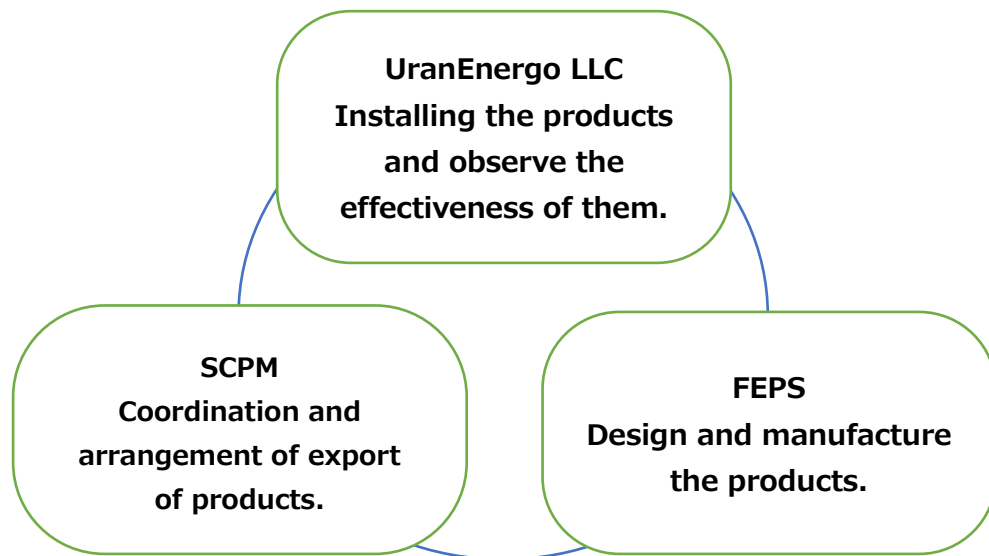
SCPM, a subsidiary of Sumitomo Corporation, which has invested in Kazatomprom's uranium mine development, has an interest in FEPS's technologies such as Counterweight and SR (Snow-Resistant) Ring, which are widely used in Japan to prevent snow damage to overhead transmission lines, and, together with FEPS, has promoted the technologies to UranEnergo LLC. Since the company shows their interest in this technology, all the three parties agreed to make a memorandum of understanding for the pilot project. The pilot project will be executed during the winter season of 2024-2025 year and the effectiveness of Counterweight and SR Ring will be observed.

The combination of Counterweight and SR Ring shows high effectiveness in preventing heavy snow accretion on overhead transmission lines and promoting the fall of snow that has adhered to transmission lines.

In addition to Counterweight and SR Ring, FEPS has developed and manufactured a variety of products to prevent snow damage to overhead transmission lines, such as Loose Spacers that can effectively suppress conductor galloping (a phenomenon in which transmission lines oscillate up and down significantly due to the lift generated by ice and snow on the lines and strong winds). With these countermeasure products for snow damage, FEPS has contributed to stable supply of electric power in both Japan and overseas.

SCPM and FEPS will continue their efforts to contribute to the stable electric supply in the Republic of Kazakhstan by verifying the effectiveness of FEPS's proprietary technology in the country.

<Scheme of the pilot project>



<Description on Counterweight and SR Ring>



Counterweight

* Installing counterweights can strengthen the torsional stiffness of the wire and reduce the snow accretion.



SR Ring

* Attaching these rings onto a stranded wire at a certain interval facilitates the drop-off of lumps of wet snow by preventing lumps from sliding spirally around the strand.

<Corporate Profile>

◇LLP Uranenergo

Establishment : 2006

Representative : General Director, Tastanbekov Timur Asylkhanovich

Head Office : 160000, Republic of Kazakhstan Shymkent

Business Description : Transmits and distributes power, operates
electrical networks

◇Sumitomo Corporation Power & Mobility Co., Ltd.

Establishment : March, 1970

Representative : President and CEO, Masahiro Narikiyo

Head Office : Chiyoda-ku, Tokyo

Business Description :

- Trade in automobiles, automobiles related products, rolling stocks and electric power project facilities etc.,,
- Development and implementation of social infrastructure projects such as electric power .

◇Furukawa Electric Power Systems Co., Ltd.

Establishment : October, 2012

Representative : President and CEO, Kazuya Ono

Head Office : Yokohama-shi, Kanagawa

Business Description : Transmission and Substation Equipment、

Distribution Equipment、 Electric Power Cable Connection、

Measurement Instrument etc...