

# Intellectual Property Forging a Sustainable Future

## Technology development and intellectual property supporting the GX era

Our company has accurately identified important social issues such as responding to climate change and effective use of finite resources, and by approaching these issues from a backcasting perspective, we have been proactively engaged in technology development that contributes to reducing environmental impact and realizing a decarbonized society from an early stage.

As a result, we have filed numerous patents in technical fields related to GX (Green Transformation). These patented technologies support essential elements for a sustainable future, such as utilization of renewable energy, improvement of energy efficiency, and construction of a resource-circulating society.

Going forward, from among these patent applications and other intellectual property, we will select and strategically utilize technologies that have particularly high future potential and can secure competitive advantage, in accordance with the policy of selecting and concentrating businesses. Specifically, we will promote intellectual property strategies to protect and strengthen core technologies in growth areas, and while considering open innovation such as licensing deployment and joint development, we will aim to achieve both the resolution of social issues and the enhancement of corporate value.



## Registration of technologies and patents in WIPO GREEN

Our company is actively registering numerous technologies and patents in WIPO GREEN, an international marketplace for sustainable technologies operated by the United Nations World Intellectual Property Organization (WIPO).



In 2019, our company became a partner of WIPO GREEN and has promoted efforts toward the SDGs (Sustainable Development Goals) in the realm of intellectual property. Led by the Intellectual Property Division, this initiative seeks to contribute to achieving the SDGs with the environmental technologies and patents developed by our company by exploring new ways to utilize intellectual property for a new era, including making patent rights available—which are often regarded as exclusive rights—in specific fields.

To date, we have registered and made more than 70 environmental technologies and patents available in the WIPO GREEN database, supporting solutions to environmental problems that are intensifying on a global scale.

The technologies and patents we register primarily relate to the following fields and contribute to realizing the ideals of the SDGs, which aim to achieve both environmental conservation and economic growth.

- Film mirrors used for concentrated solar thermal power generation, researched and developed from the perspective of next-generation energy
- Dye-sensitized solar cells capable of generating power even under low illuminance

- All-solid-state alkali metal secondary batteries, attracting attention as next-generation technologies for improved safety and longevity
- Planar heating elements that achieve large energy savings through high heat generation efficiency
- Low-environmental-impact, high-performance transparent conductive films printed by inkjet

Our company aims not to confine intellectual property to mere rights protection, but to create new value by sharing it with the world and contribute to realizing a sustainable future. By actively open the technologies and expertise we have cultivated, we will forge paths to solutions together with the international community.

We will continue to pursue innovative technology development that supports the coexistence of environmental conservation and economic growth, and continue challenging ourselves to realize a sustainable future.

### ◆About WIPO GREEN

Established by WIPO in 2013. Composed of an online database and a network, it connects owners of new technologies with individuals or companies that are considering commercialization, licensing, or distribution of green technologies, thereby promoting innovation and dissemination of green technologies and contributing to efforts by developing countries in addressing climate change.

<https://www3.wipo.int/wipogreen/en/>