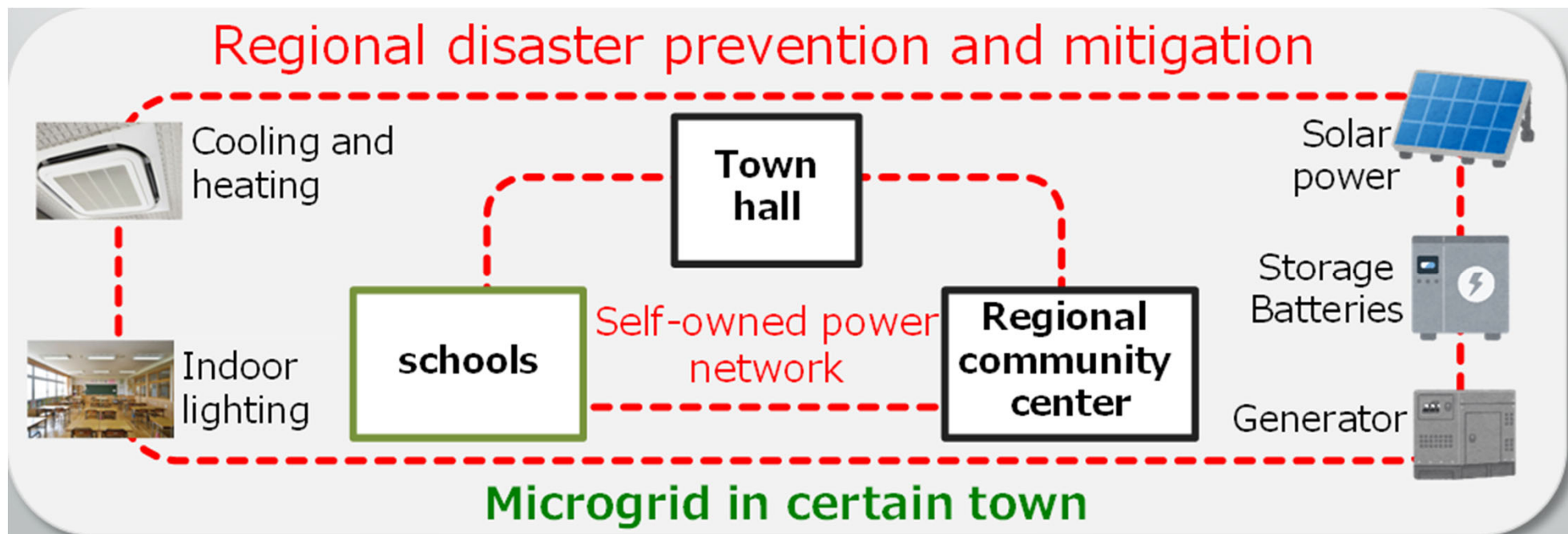


MACNICA Inc.

Summary of technology and advantages

- To establish a self-sustaining power supply mechanism in a certain area by building so-called “Micro Grid System by integrating:
 - ❑ Renewable power generation facility (e.g. Photovoltaic power, etc.),
 - ❑ Large-scale electricity storage system,
 - ❑ Back-up Generator, and
 - ❑ IoT-assisted power supply/demand control and monitoring system



Radiant heating and cooling

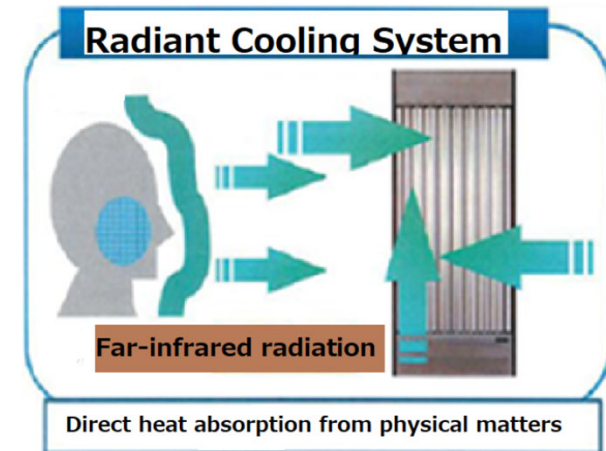
MACNICA Inc.

Summary of technology

- Different from conventional air conditioning system by the forced convection of cooled air, the system cools down physical matters by directly absorbing their heat with the use of aluminum radiant panel.

Technology features / advantages

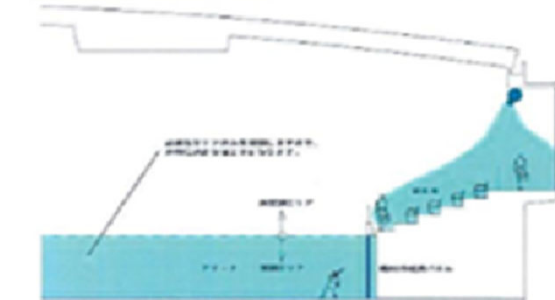
- Mitigate/reduce unevenness in temperature arising in conventional air-cooling system
- No sound and diffusion of dust (no air convection and wind blowing)
- High energy efficiency (80~90% energy saving) by pinpointing the cooling area
- The system can attach to the conventional air-cooling equipment.



Conventional Air Cooling System



Radiant Air Cooling System



High efficiency LED lightings

MACNICA, Inc.

Summary of service / technology

- A Variety of high efficiency LED lighting equipment is available.

ShinyU LED street light, offers high uniformity and safety



Metal Halide 600W

LED 150W



Features / advantages

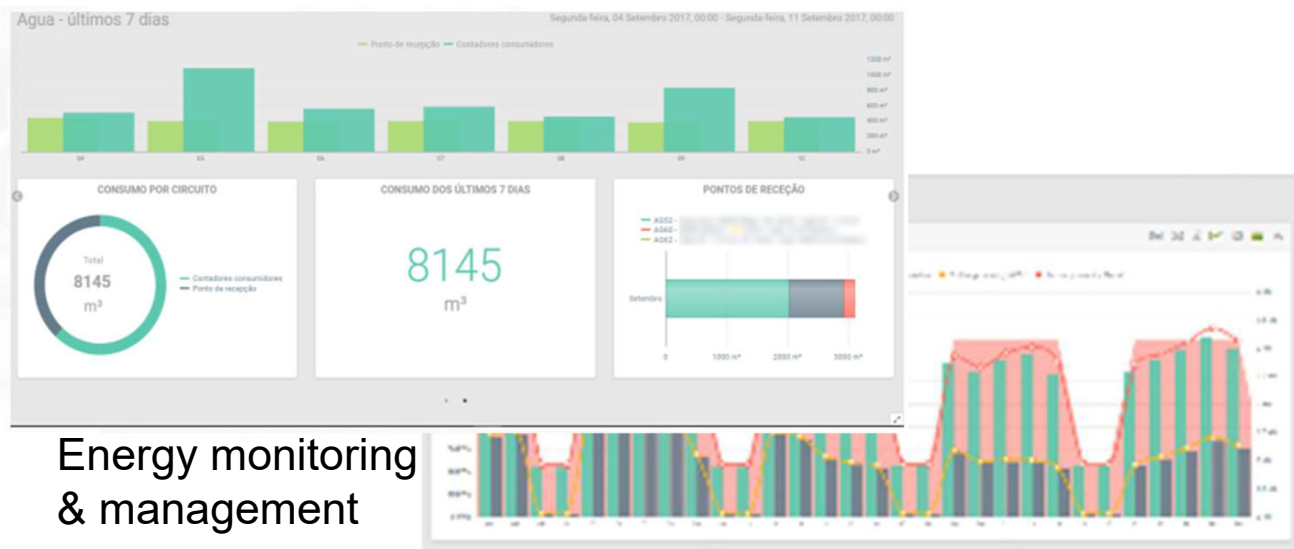
- Longer life of LED light by a single optical source and high-speed heat releasing technology
- High Efficiency distribution of luminous intensity by a special design of optical lens
- Reduction of energy cost through energy savings

Visualization of power consumption

MACNICA Inc.

Summary of technology

- For business sector: complete and integrated solution for monitoring energy consumption
- For home: Energy management solution designed with its low-cost and easy-to-use plug & play solution



Technology features / advantages

- Reducing energy consumption and decrease its associated costs, no matter the business sector.
- Forecast for the electrical consumption and generation of the house. Calculate flexibility for the house electrical consumption and communicate with VPP (Virtual Power Plant) platform.