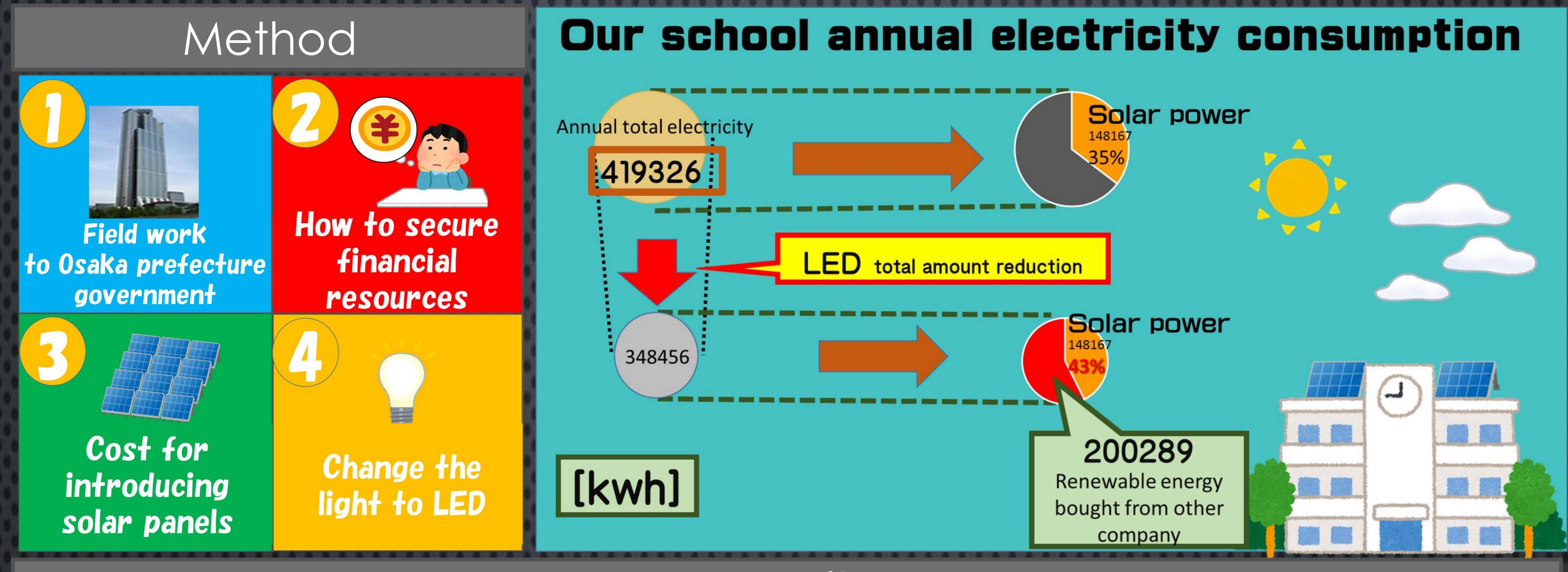
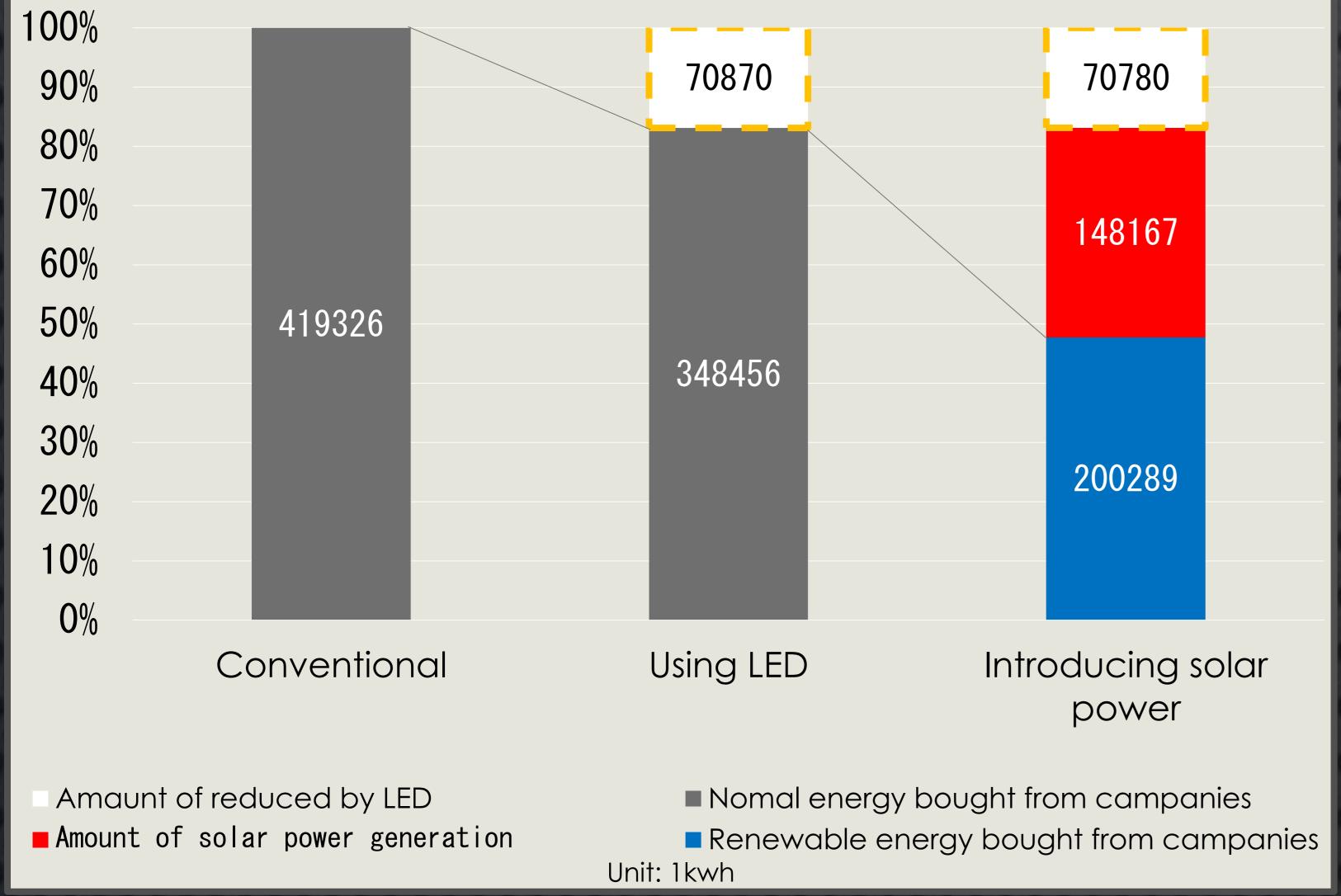
BANK

## ZERO ENERGY SCHOOL

The progress of global warming has become a serious problem in the world. Renewable energy is not widely used in Japan compared to other countries in the world. So in this study, we aim the target which public facilities like school consume zero fossil fuels.



## Result

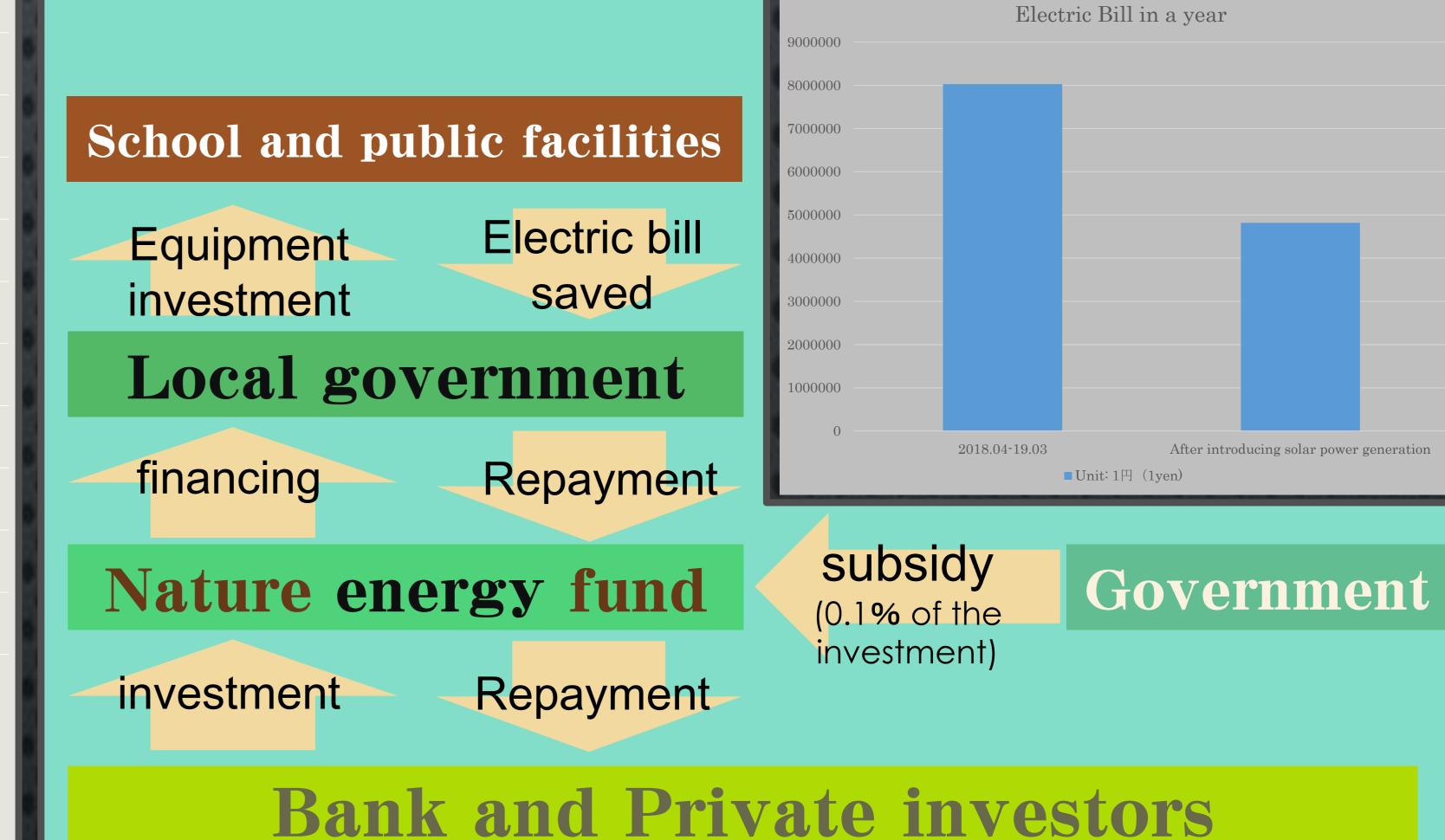


The cost of achieving zero energy within the facility would be enormous. Therefore, by combining energy creation and energy saving, more than 50% will be provided in the facilities.

By combining the rest with renewable energy from off-site power companies such as large-scale solar and wind power generation, zero energy can be realized while reducing installation costs.



Ministry of Education, Culture, Sports, Science and Technology (文部科学省) (2014). The report of Zero Energy School Promotion Committee Osaka Prefectural Government (大阪府) (2014). Osaka Energy local production for local consumption action program.



## $40,000,000 \div 2,632,928 = 14.46$ The fund can recoup its investment in 14.4 years.

After introducing solar power generation :

 $(13.08+1.79+2.90) \times 419,326kwh+(47,919.60 \times 12)=8,026,458$ 

 $(13.08+1.79+2.90) \times (419,326-148,167)$ kwh+ $(47,919.60 \times 12)=5,393,530$ 

Utilize private capital

2. Spread quickly

8,026,458-5,393,530=2,632,928

3. ZERO ENERGY SCHOOL is feasible

Conclusion

## NEXT STEP

2018.04-2019.03 :

- 1. Emergency generator
- 2. Battery for bad weather