

Electric Power-Hydrogen Management

Background

- · Realization of sustainable resource and energy use
- · 2050 carbon neutral



Introduction

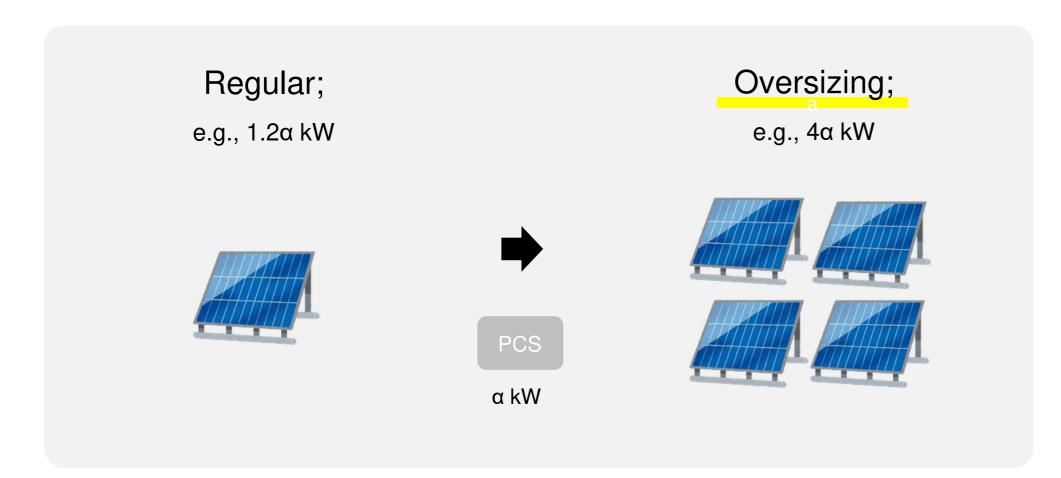
By using overloaded solar panels,

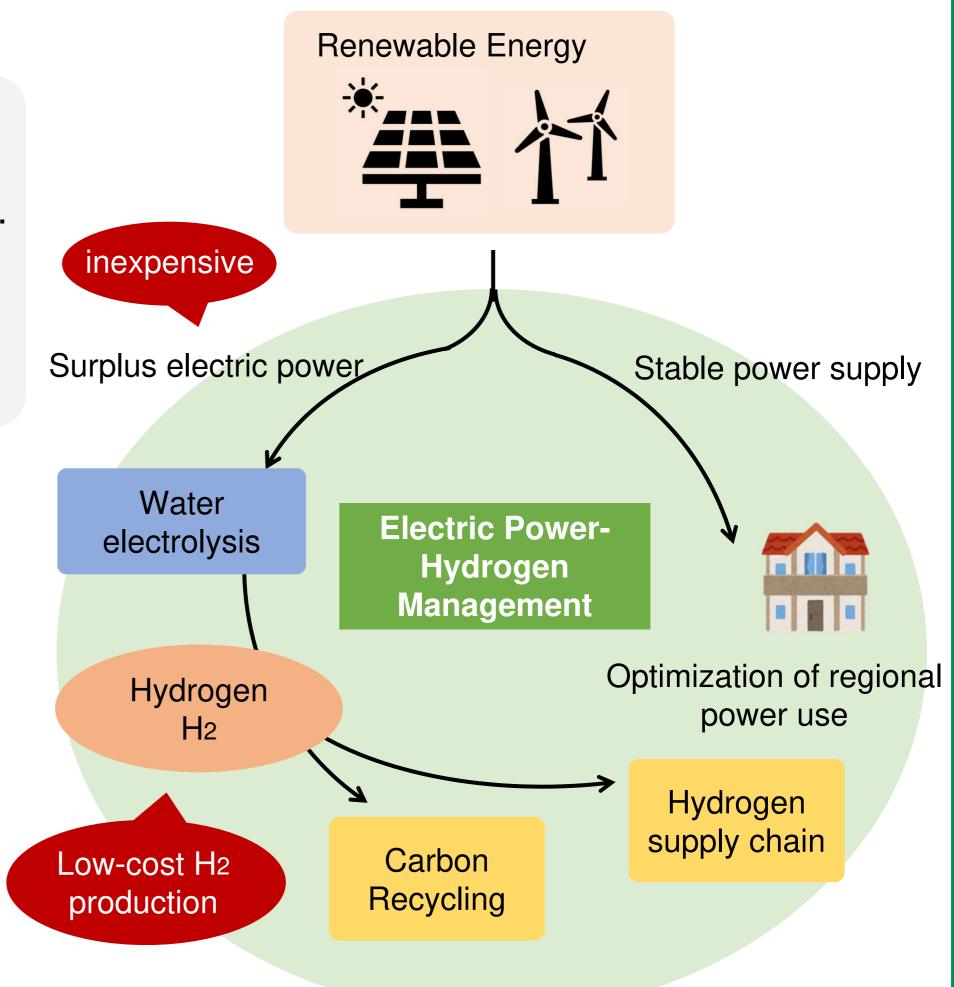
- (1) Increase the amount of electricity that can be used stably
- (2) Hydrogen production can be done with surplus electric power.



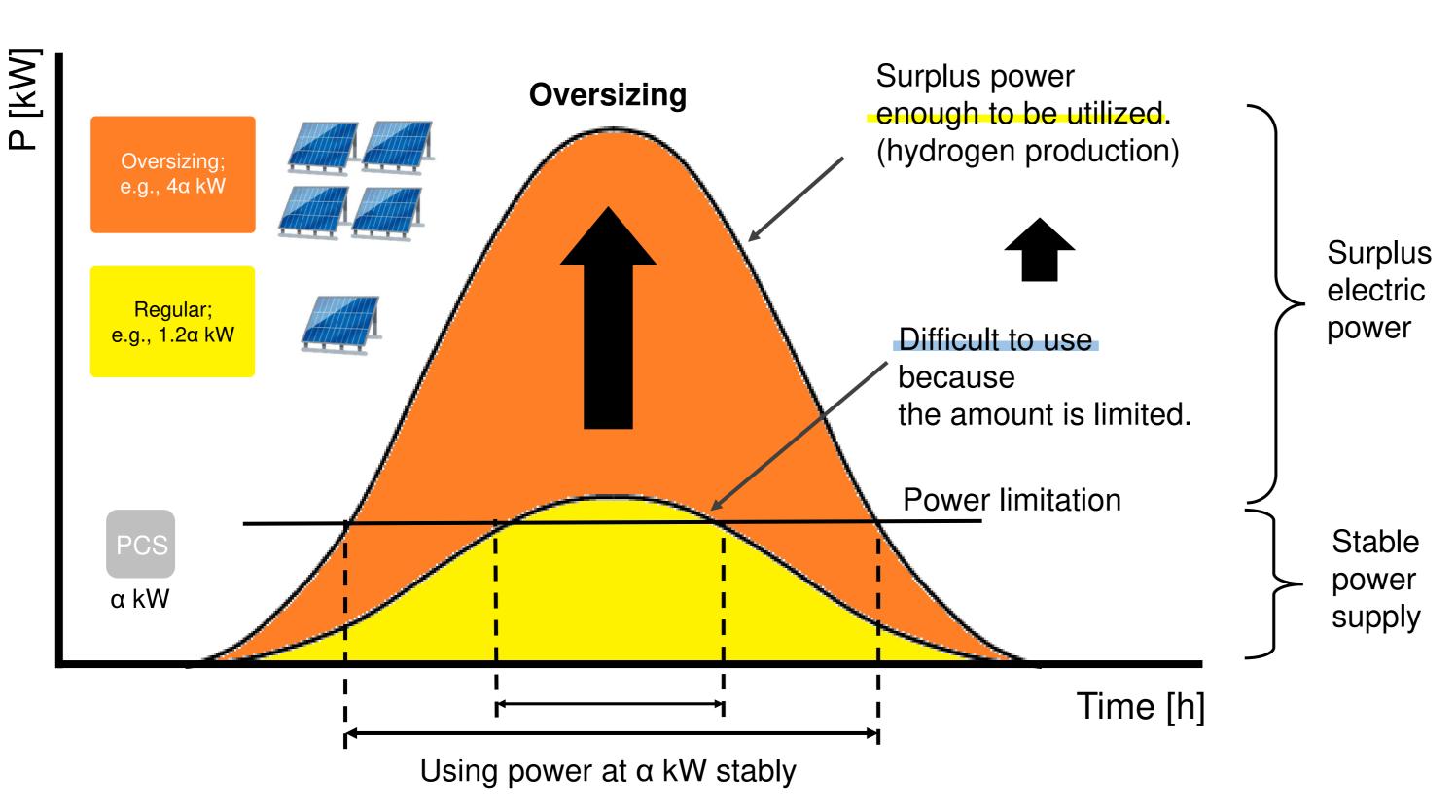
By using this method we can produce hydrogen at low cost.

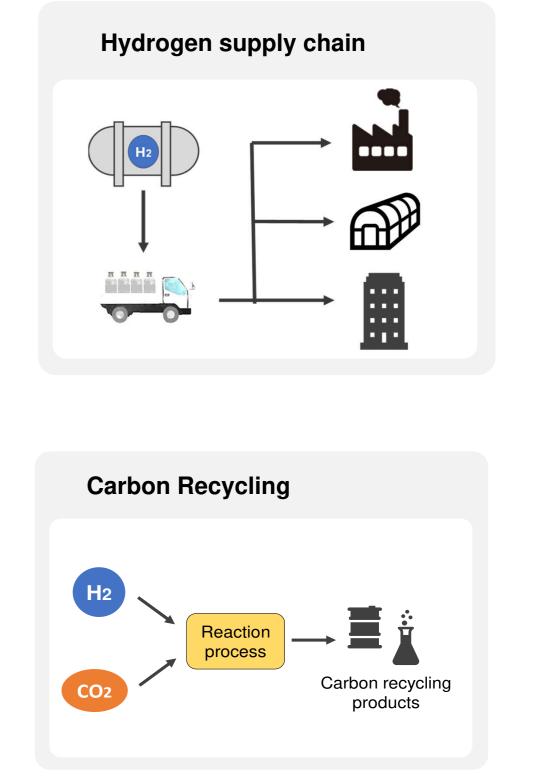
Oversizing PV array





Value-based electric power separation





Conclusion

Effective use of renewable energy

- PV design/management: oversizing and value-based power separation
- Low-cost hydrogen production with inexpensive surplus electric power