



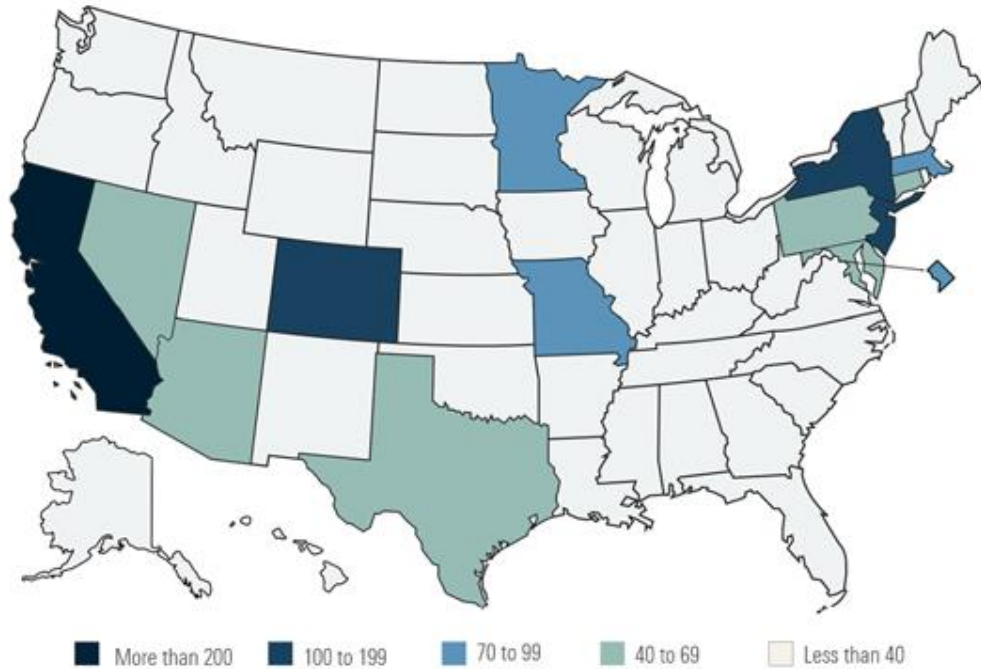
Feasibility of On-Site Renewable Energy Generation at a Manufacturing Facility

By Jeannie Liang



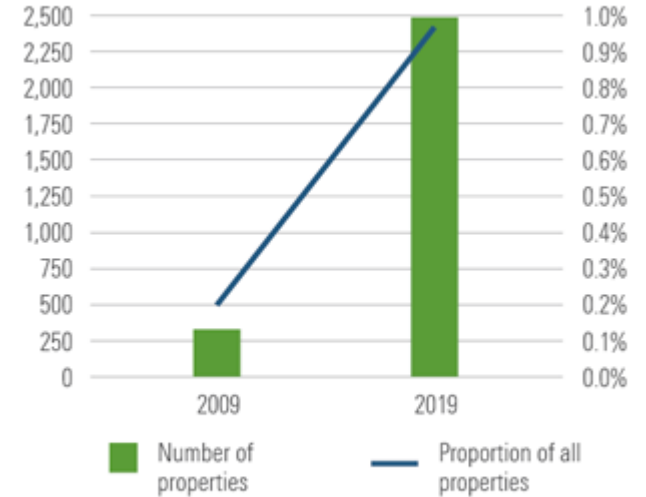
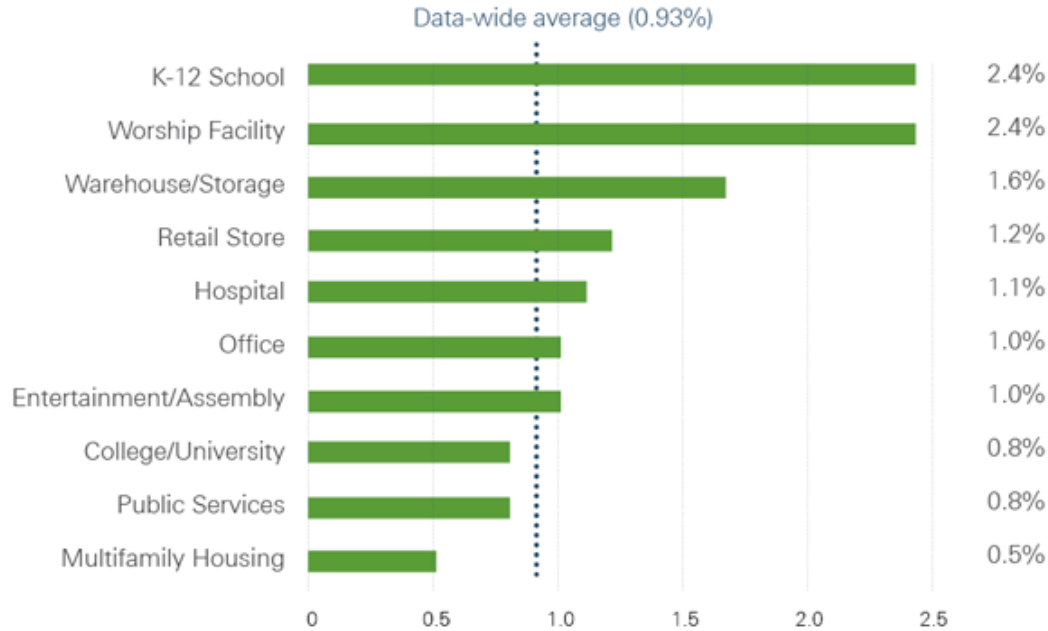
Background

Number of properties with onsite renewable energy systems by state

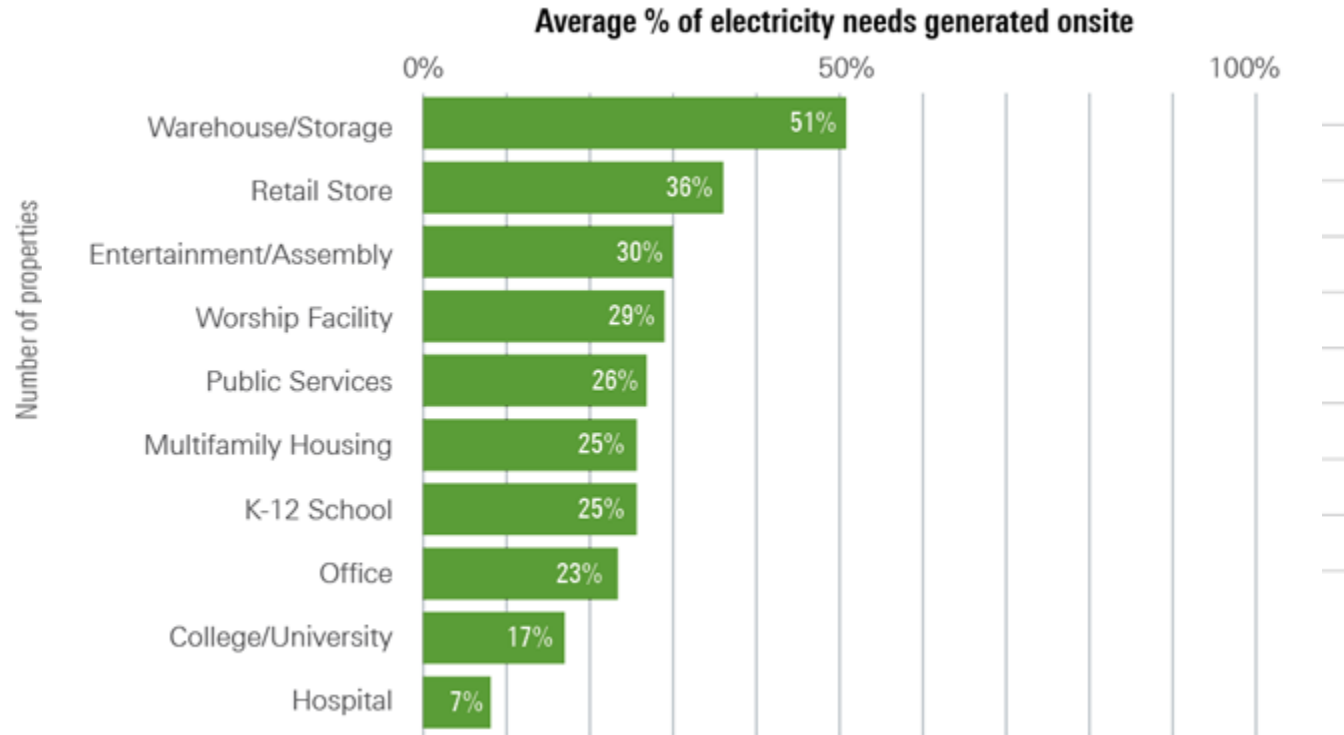


Background

Percentage of buildings that generate renewable energy onsite



Background



Solar Power

- Solar panels
- Solar hot water
- Solar process heating and cooling



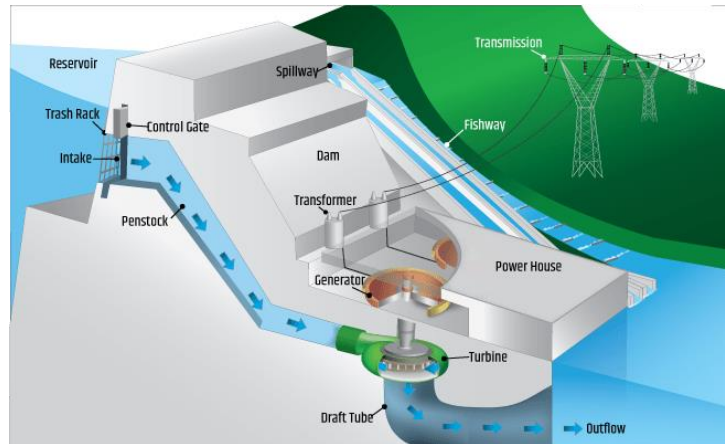
Wind Power

- Small Wind Turbines
 - Payback period ~6 years

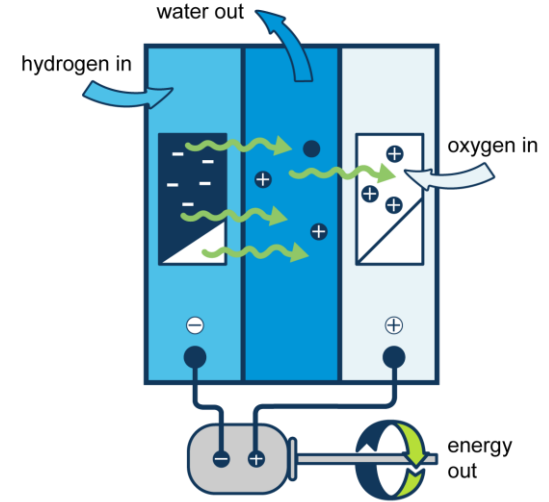


Other Possible Methods

- Geothermal
- Biomass
- Landfill gas and other biogas
- Low-impact hydropower
- Fuel cells



Hydrogen fuel cell



Source: Adapted from National Energy Education Development Project (public domain)

Conclusion

- Great solution to lower load on the power grid
 - Prevents brownouts and blackouts
- Saves money on energy bills
- Helps the environment



Thank you!