



Renewable Energy

An Overview

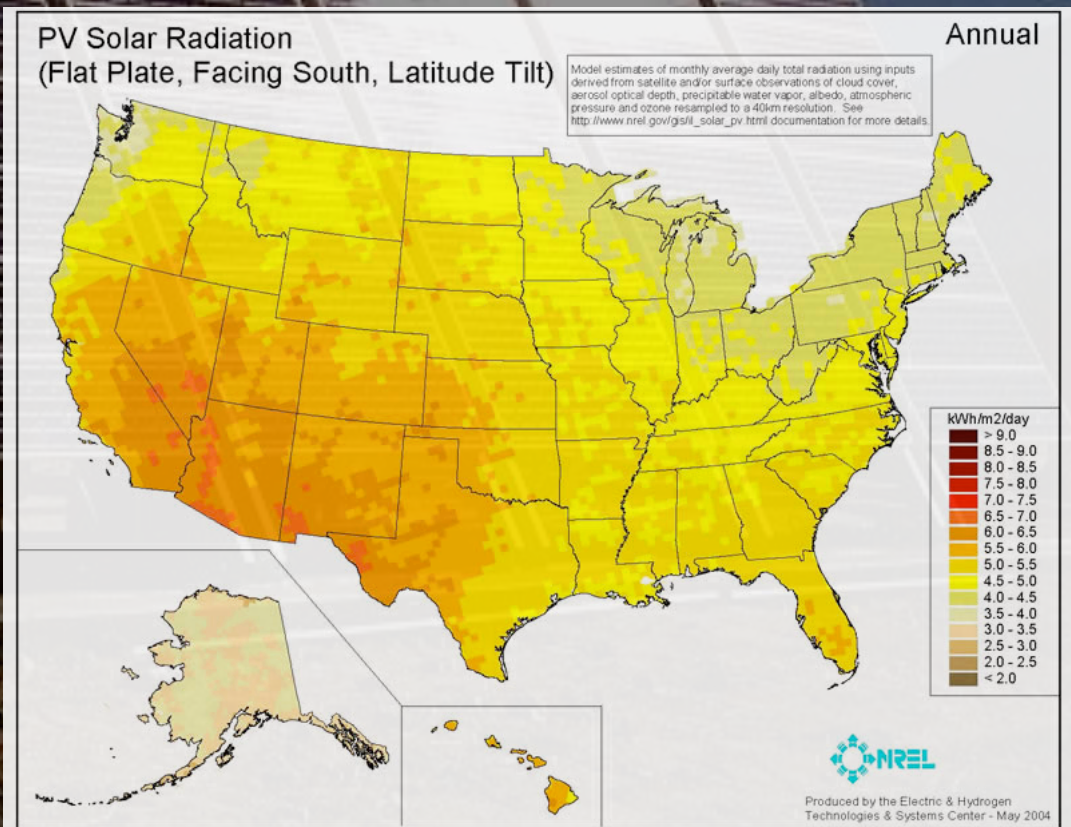


Coming Up

- Solar Power
- Solar Water Heating
- Wind Power
- Geothermal Heating and Cooling
- Incentives

Solar Power

- Current Technology
- Future Technologies
- Potential

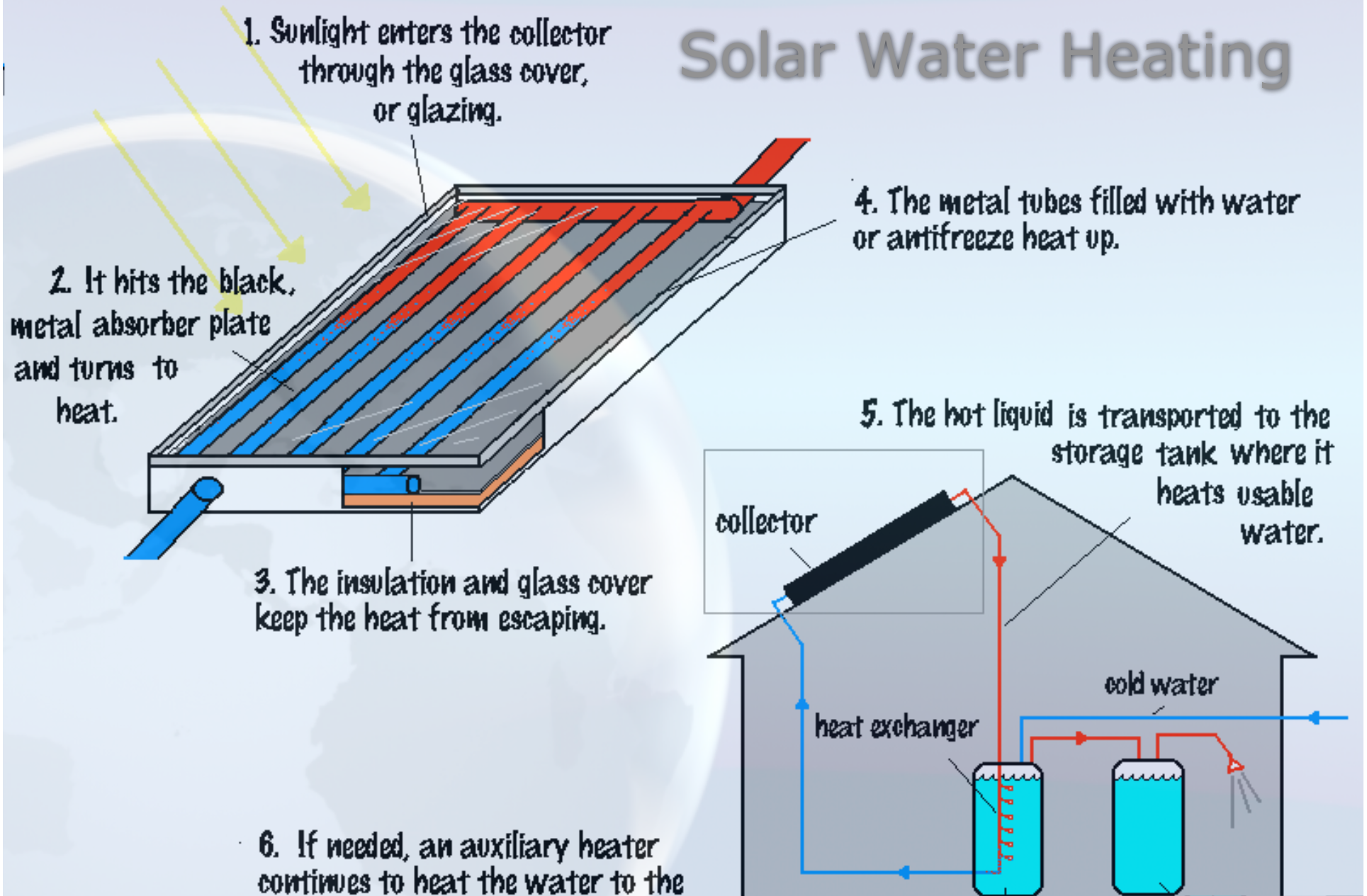


Solar Water Heating

- Passive Types
- Active Types
- Tank-less Water Heaters

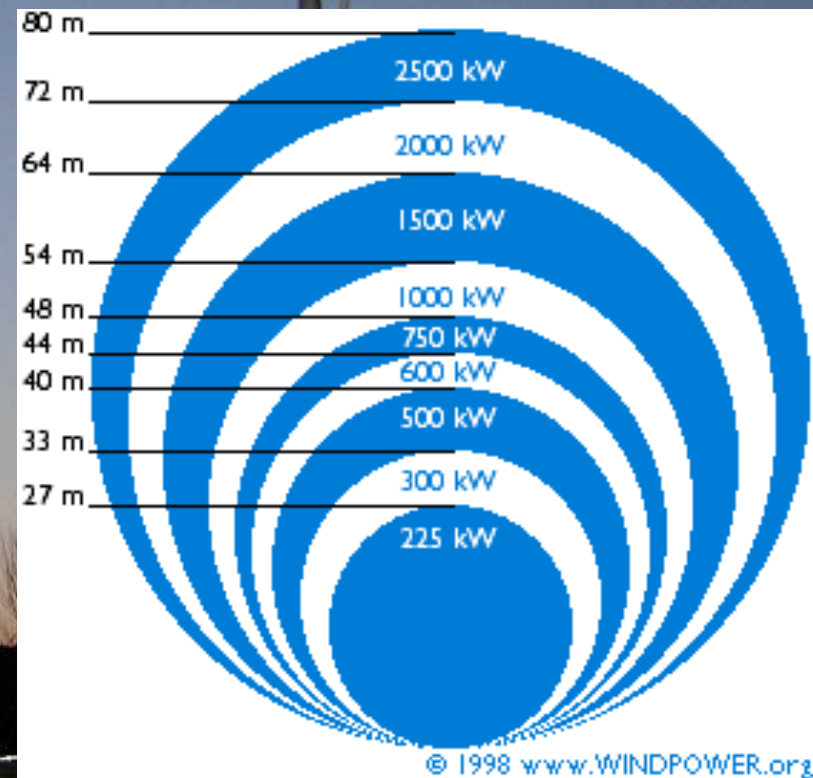
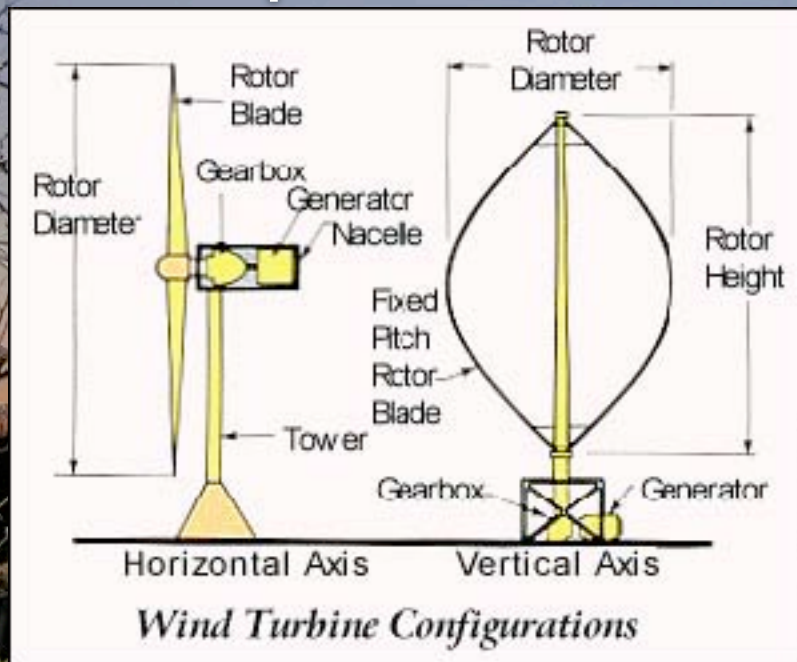


Solar Water Heating



Wind Power

- Vertical Axis
- Horizontal Axis
- Swept Area

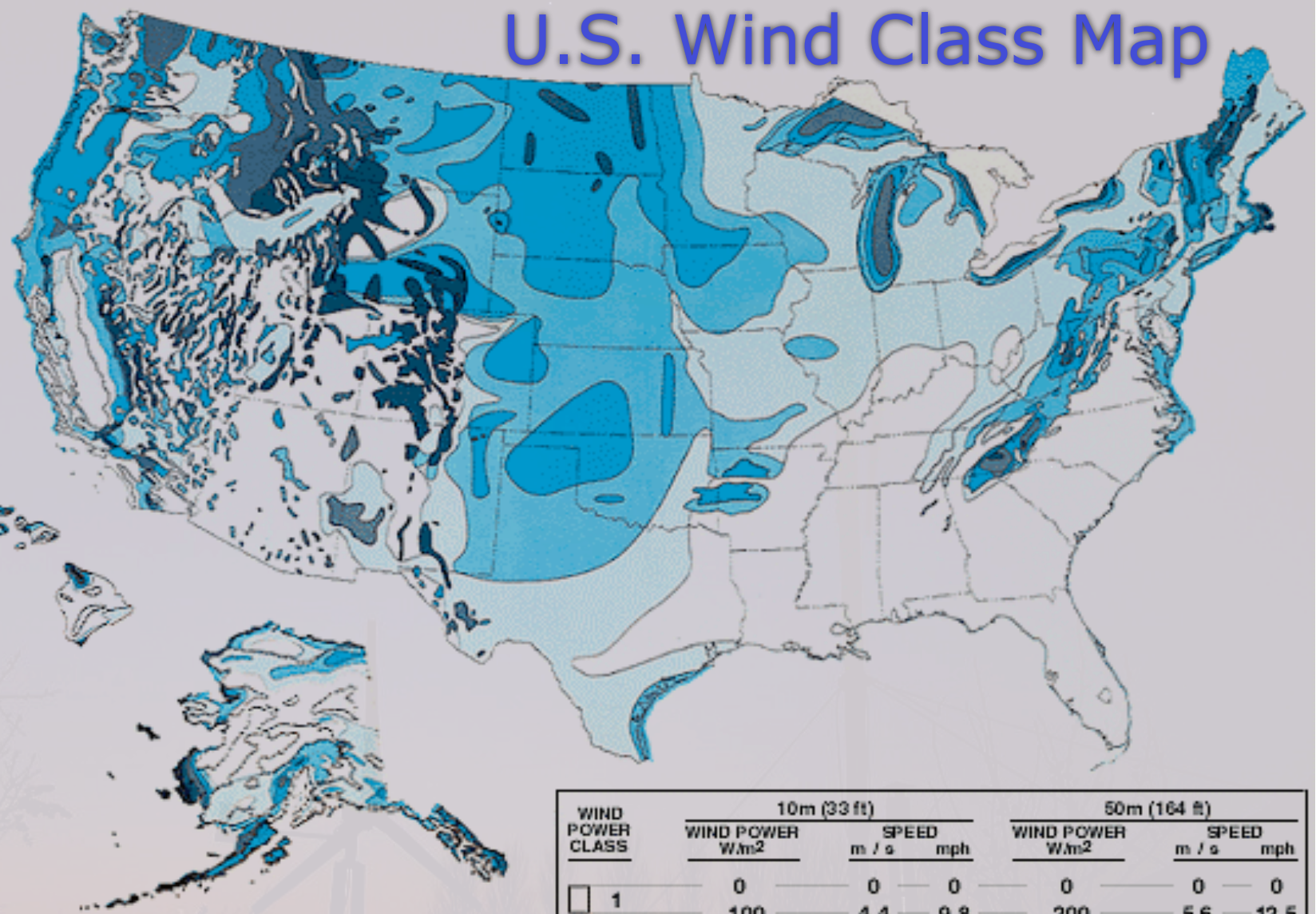


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A Pictorial History of Wind Power



U.S. Wind Class Map

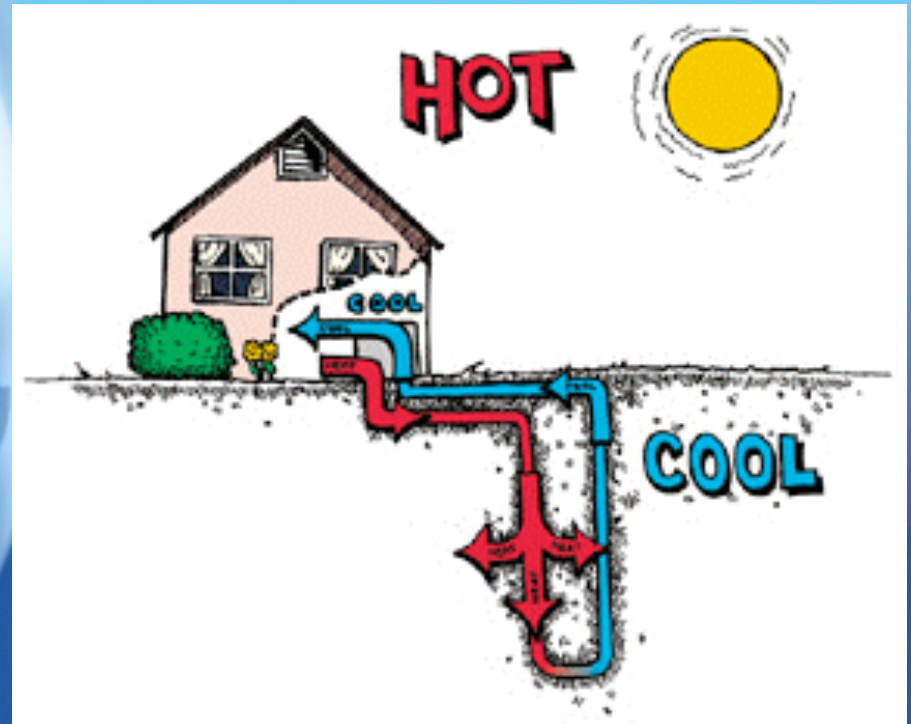


WIND POWER CLASS	10m (33 ft)			50m (164 ft)		
	WIND POWER W/m ²	SPEED m / s	SPEED mph	WIND POWER W/m ²	SPEED m / s	SPEED mph
1	0	0	0	0	0	0
2	100	4.4	9.8	200	5.6	12.5
3	150	5.1	11.5	300	6.4	14.3
4	200	5.6	12.5	400	7.0	15.7
5	250	6.0	13.4	500	7.5	16.8
6	300	6.4	14.3	600	8.0	17.9
7	400	7.0	15.7	800	8.8	19.7
	1000	9.4	21.1	2000	11.9	26.6

RIDGE CREST ESTIMATES (LOCAL RELIEF > 1000 FT)

Geothermal Air Conditioning

- Passive Heating and Cooling
- Efficiency
- Simplicity



Incentives

- Federal
- State
 1. Net Metering
 2. Tax Rebates
- Power Company



Strategies

- Multiple Sources
- Site Specific System Design
- Efficiency

