

# Energy Independence

Why should we go for Solar?



**iSolar,** LLC.

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# Eco-friendly resources

- Solar
- Water
- Wind
- Geothermal
- Sustainability:
  - Meets the current requirements without compromising the future needs
  - Does not deplete
  - No negative impact on environment

# What is and how does it work?

**Solar** cells, also called **photovoltaic (PV)** cells by scientists, convert sunlight directly into electricity. **PV** gets its name from the process of converting light (photons) to electricity (voltage), which is called the **PV** effect.

....[www.nrel.gov](http://www.nrel.gov)

# Works with...

- Individual or business
- Investors (leasing firms)
- Non-profit organizations
- Any business organization structure
- Buyer and sellers of tax credits
- Project developers

# Flexibility

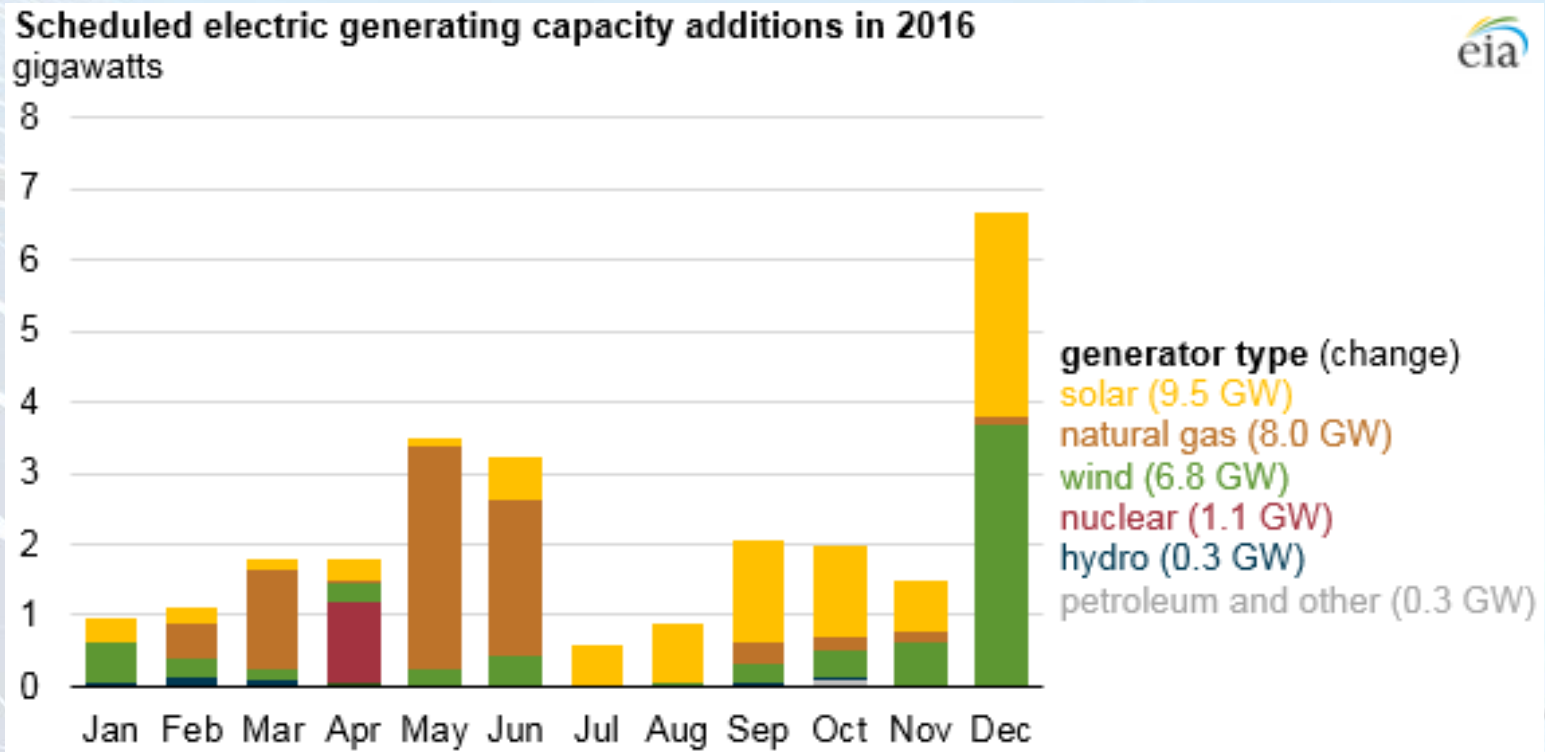
It can be installed at

- Roof top
- Ground level
- Pole mount
- Parking lots
- On river, lake, or stream

# Adaptability

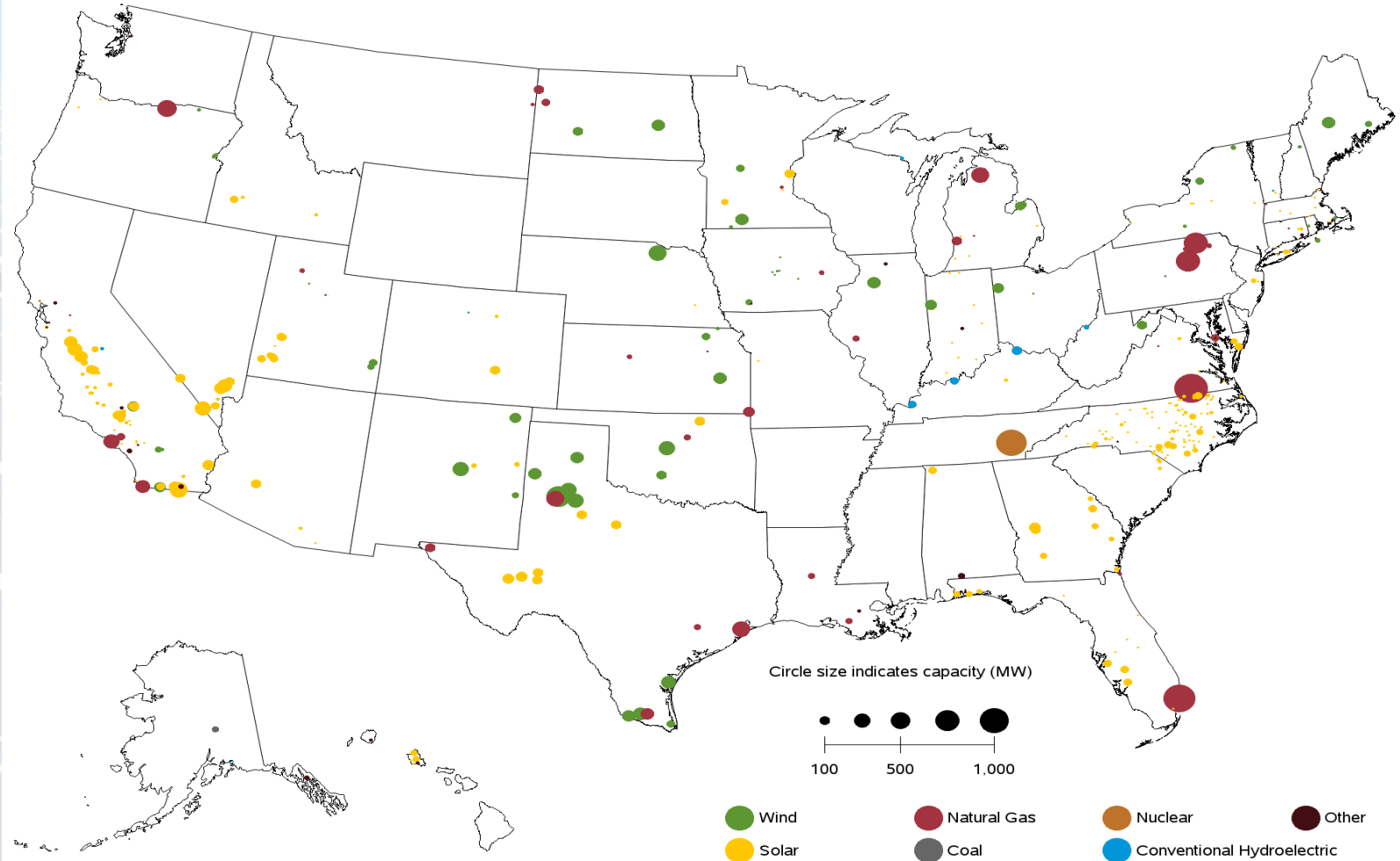
- Easily adaptable at the lowest level of our economic and social structure
- At any place, by anyone, of any capacity, for any use, with reasonably any budget
- Supported by governments and electric utilities

# Solar will add more generation in 2016 in the US



# NC will add more solar in 2016

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from January 2016 to December 2016



Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'



# Advantages

- Raw material is democratic; available everywhere
- No pollution
- No raw material cost
- Silent and very low maintenance
- Reliable and proven technology
- Scalable, equipment warrantied
- Decentralized power

# Economic incentives

- Reduce or no electricity charges
- 30% Federal Tax credit
- Accelerated depreciation effect for business
- State tax credit
- Rebate from utilities
- Property tax abatement
- Increased property value

# Generation and Utilization

## Generation

- Any capacity, it is scalable
- Small for residential/commercial
- Large for commercial, community level
- Very large at utility scale

## Utilization

- For own use
- Excess to grid or sell

# Equipment

- It is an electrical equipment just like a dishwasher at home
- Sturdy and long lasting
- ~25 year lifespan
- OEM warranty: 10-12 years
- Can withstand rain, hail, snow, dust, or wind
- Better efficiency

# Financing options

- Own sources – cash
- Home/business equity line
- Equipment financing
- Leasing
- Private financing

# Interested in...

- Energy independence?
- Combat climate changes?
- Financing planning?
- Tax incentives and rebates?
- The latest technology?
- Leadership/environmental stewardship?

# Why iSolar, LLC.

- In energy sector for last sixteen years
- Clear understanding of objectives and goals
- Simulation using the latest software
- Proper and economical sizing and engineering
- Optimum generating capacity
- Timely regulatory compliance: HOA, PUC, Utility, Building permit
- Certified contractors
- Local team for 25 years
- Timely completion
- Follows prudent business practices as per ISO-9001.

# Contact



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