

# INFRASTRUCTURE CHALLENGES IN THE ELECTRICITY SECTOR

Panel at the *IRPS* Workshop on

*Infrastructure Upgrades, Consumer Benefits and Capacity  
Payments*

**Panelists**

**Marty Cohen, *Consultant***

**Brad Klein, *ELPC***

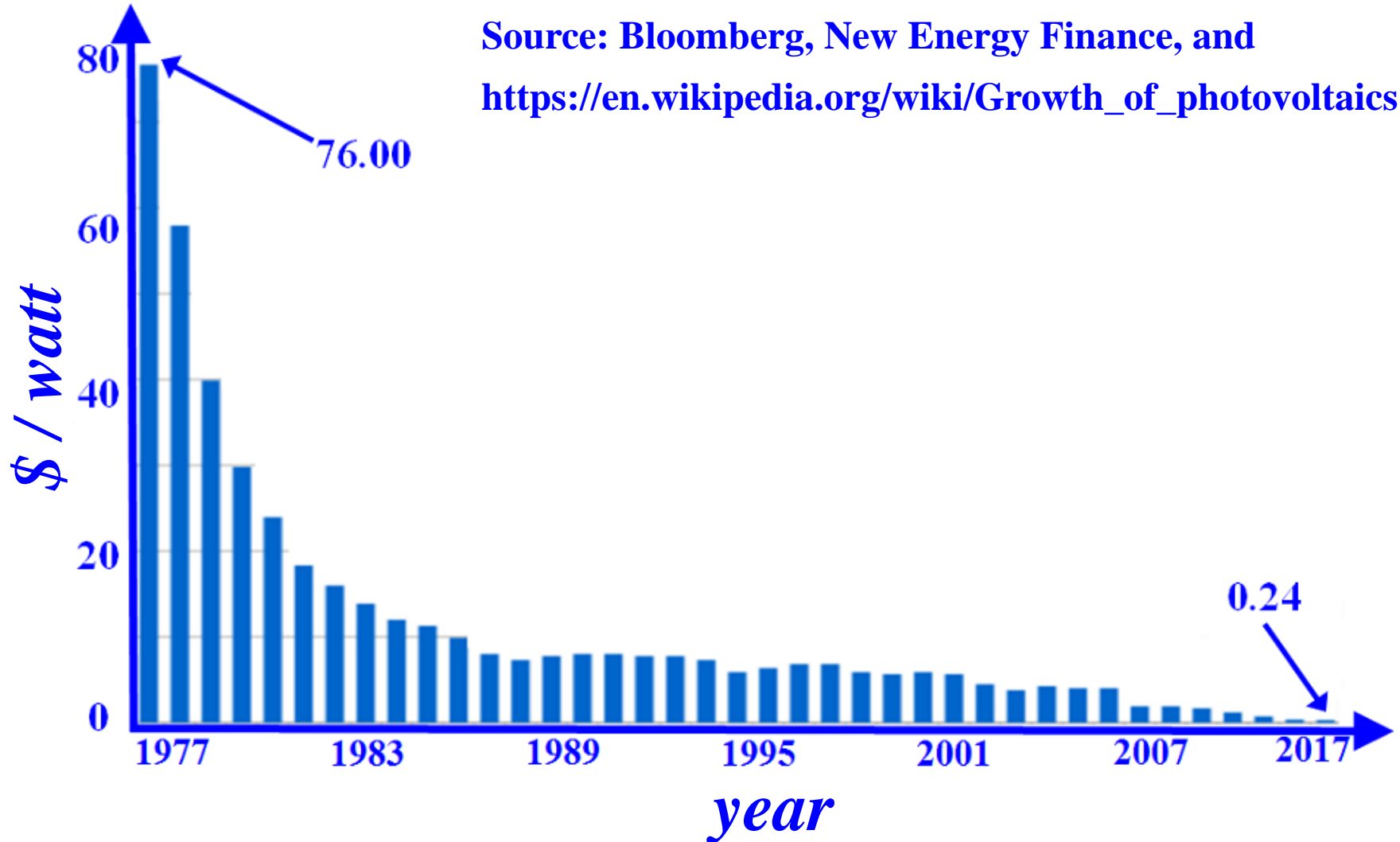
**Peter Tyschenko, *ComEd***

**Moderator**

**George Gross, *UIUC***

*Springfield, IL, October 30 – 31, 2018*

# *PV SOLAR CAPACITY PRICE*



# COMPETITIVE PRICES OF RENEWABLE ENERGY

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- ❑ In the October 2016 *Mexico Energy Auction*, solar sold at about **2.7 ¢/kWh**
- ❑ An Xcel Energy solicitation set a new *solar + battery* record at a median price of **3.6 ¢/kWh**
- ❑ In the same solicitation, the median *wind + storage* bids came in at **2.1 ¢/kWh**

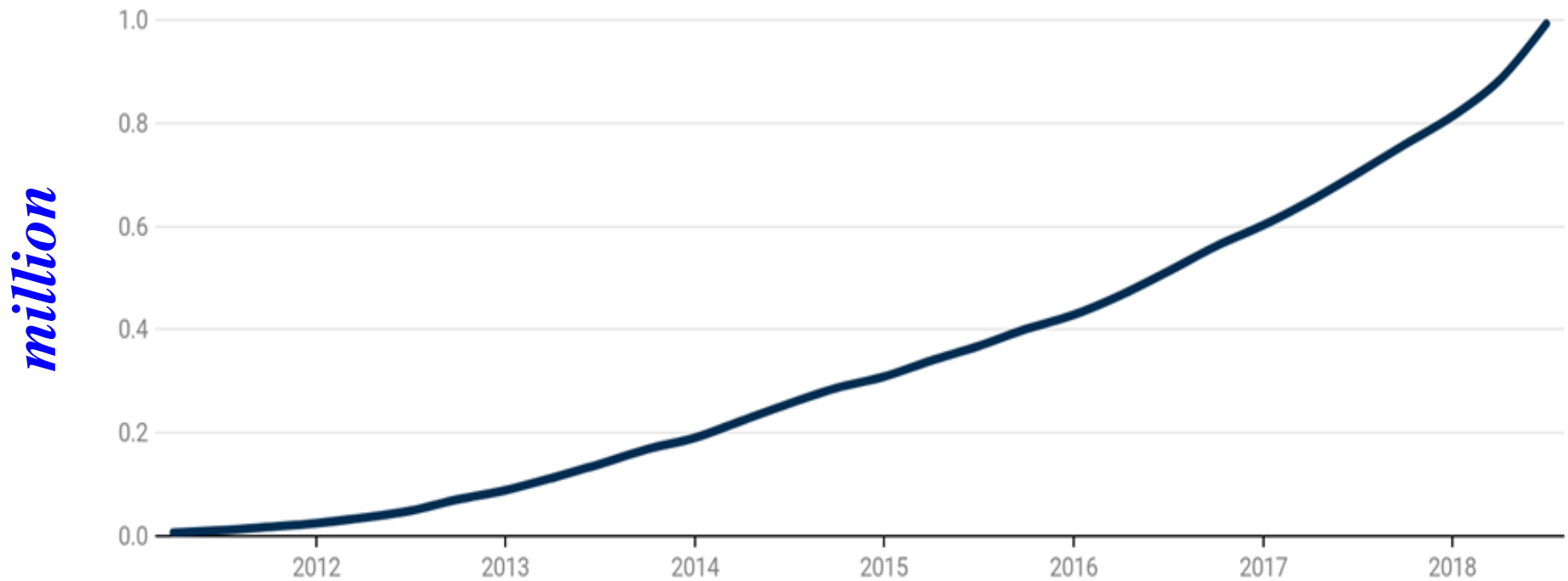
# COMPETITIVE PRICES OF RENEWABLE ENERGY

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- ❑ The *3<sup>rd</sup> Mexico Energy Auction* average price in October 2017 was *2.057 ¢/kWh*
- ❑ The earlier solicitation in *Chile* accepted an offer of solar energy at *2.148 ¢/kWh*
- ❑ The *Saudi Arabian* auction in October 2017 had a bid for a 300–MW solar resource at *1.786 ¢/kWh*

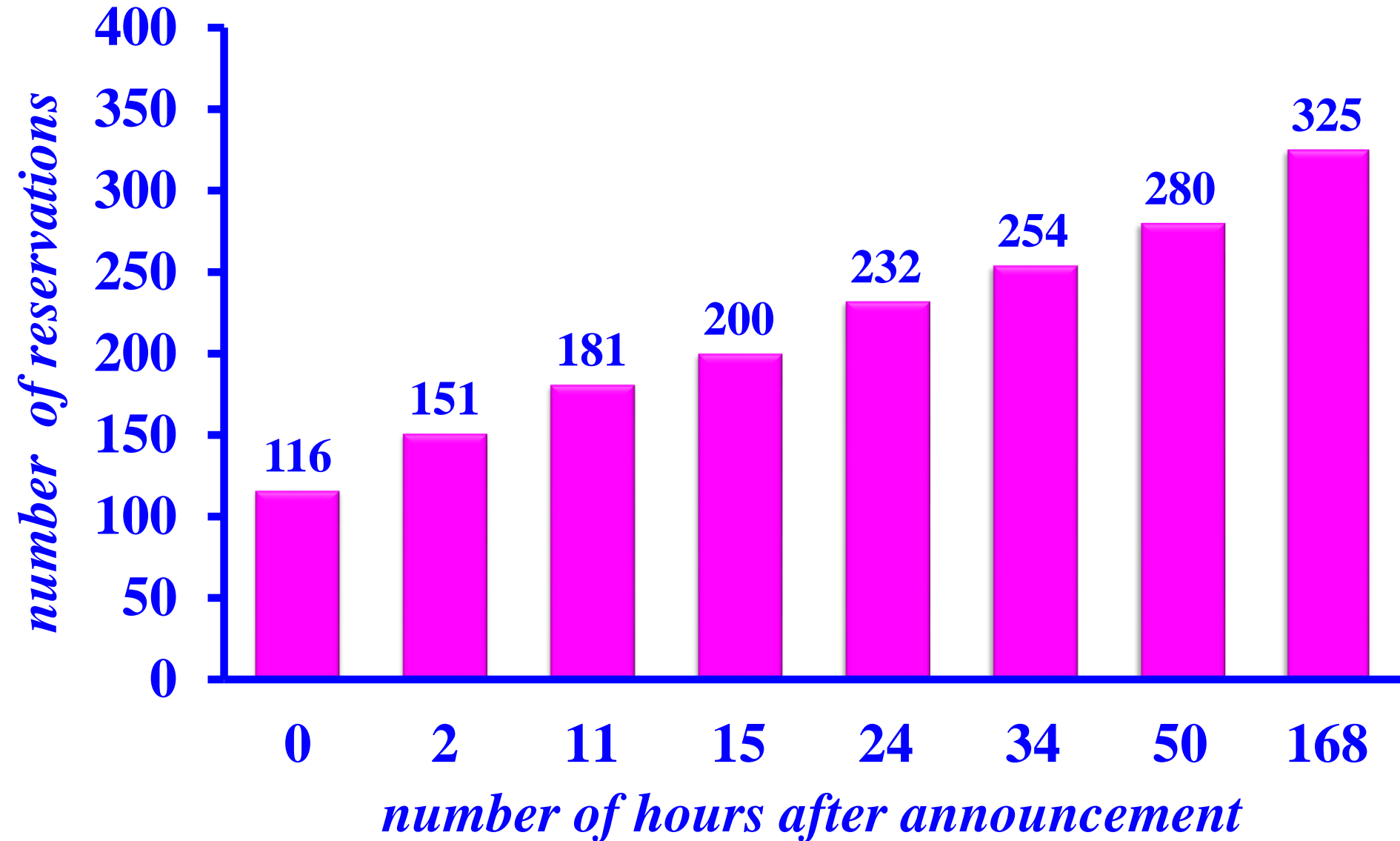
# *US CUMULATIVE EV SALES: 2011–2018*

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*Source: <http://energyfuse.org/u-s-reaches-1-million-electric-vehicle-sales>*

# *TESLA MODEL 3 RESERVATIONS*



# BEYOND THE SMART GRID...

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