

# **IAEC**

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# Rate Design

- IAEC Role
- Rate Design Principles & Options
- Penetration of Synchronous Generators for IAEC Member Cooperatives
- Solar Generation relative to Electric Cooperative peaks

# IAEC Role

- Changing over time
- PURPA Rate Making Standards
- IUB Recommended Rate Making Standards

# Rate Design Principles & Options

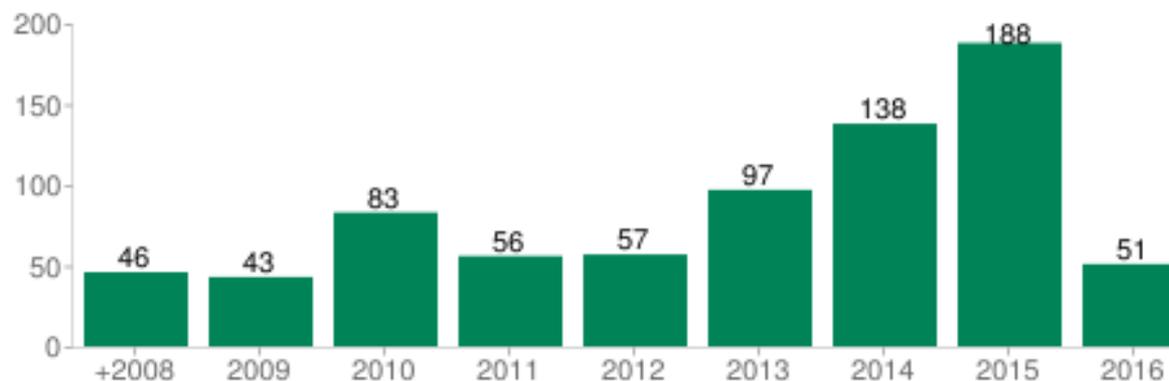
- PURPA Title 1
- Chapter 20

# Penetration of Synchronous Generators for IAEC Member Cooperatives

## By Year

Average	76
+2008	46
2009	43
2010	83
2011	56
2012	57
2013	97
2014	138
2015	188
2016 (through April 2016)	51

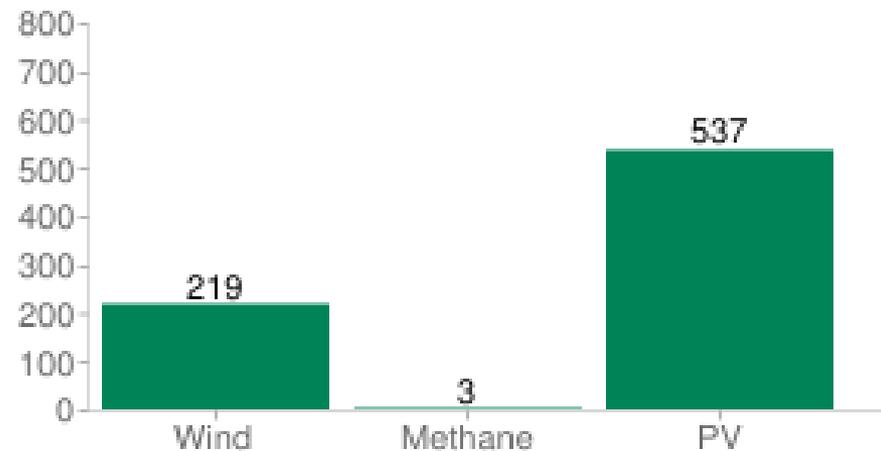
## 759 YTD Interconnections



# Penetration of Synchronous Generators for IAEC Member Cooperatives

## By Generation Technology

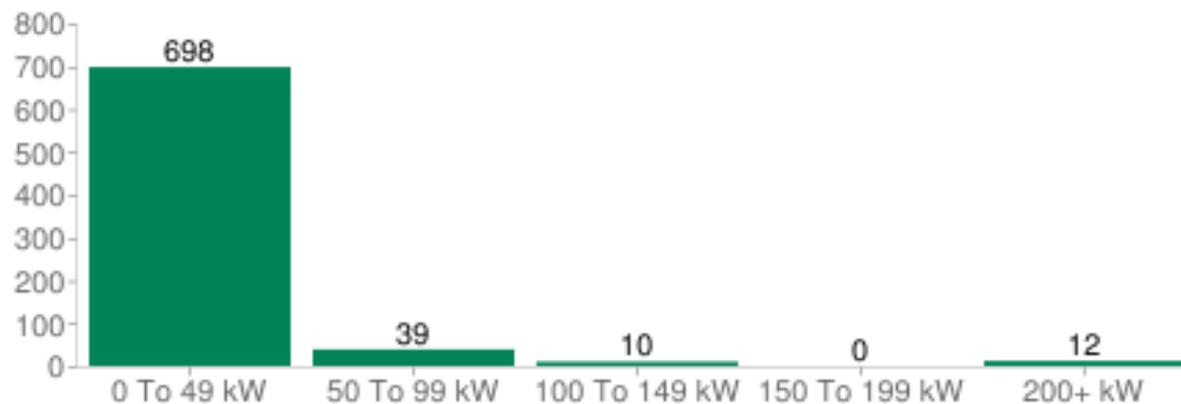
Wind	219
Methane	3
PV	537



# Penetration of Synchronous Generators for IAEC Member Cooperatives

## By Size

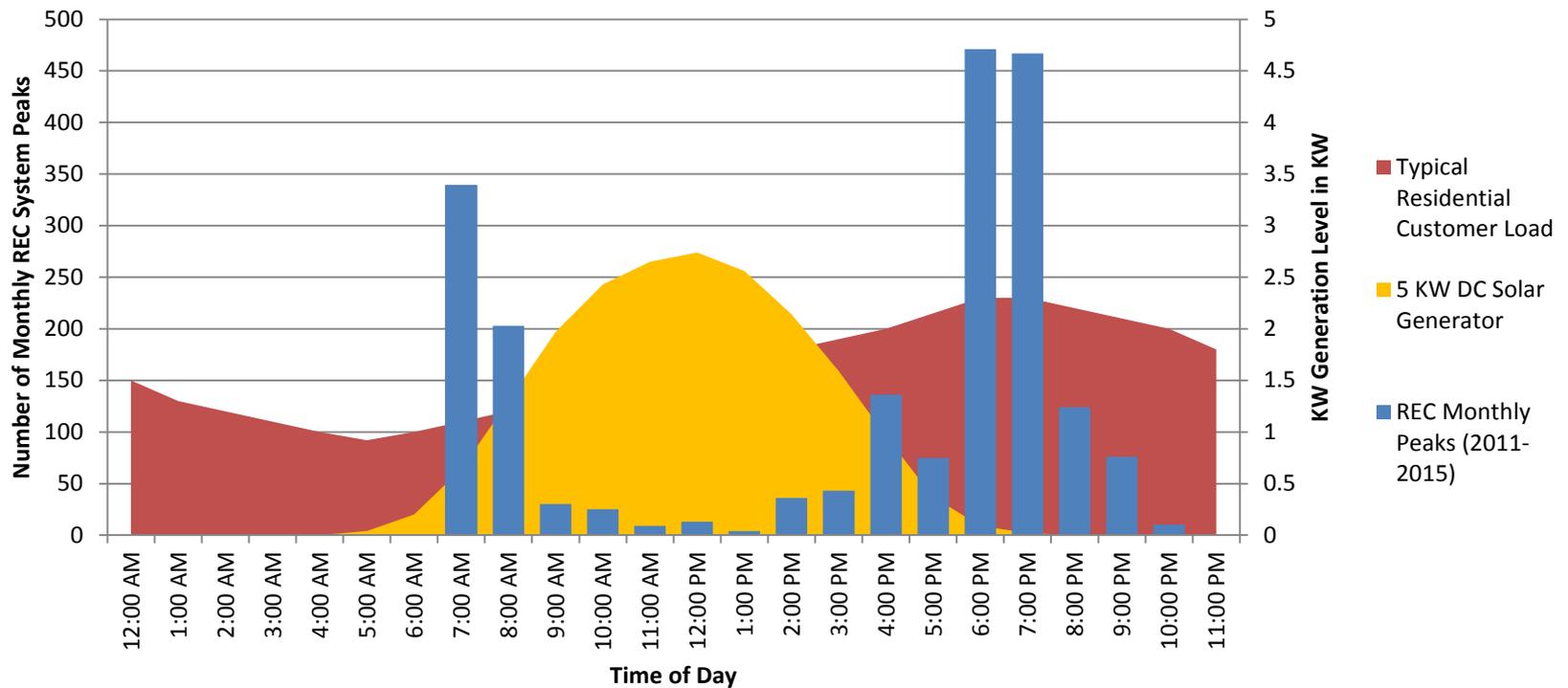
Average	35 kW
0 To 49 kW	698
50 To 99 kW	39
100 To 149 kW	10
150 To 199 kW	0
200+ kW	12



## 3 Part Rate Structures

- Applicable to all customers (IPL Approach)
- Applicable to only customers with DG-Prospective (MEC Approach)

## *85% of electric cooperative system peaks occur outside of the core solar generation window*



Sources:

Typical Residential Customer Load Source: Iowa Utilities Board Docket NOI-2014-0001

5 KW DC Solar Generator Source: pwwatts.nrel.gov

REC Monthly Peak Source: Iowa Utilities Board Utility Annual Reports

- Questions?