

WISCONSIN DG INTERCONNECTION PRACTICES SURVEY

Utilities & Installers/Contractors
July 2016 Results



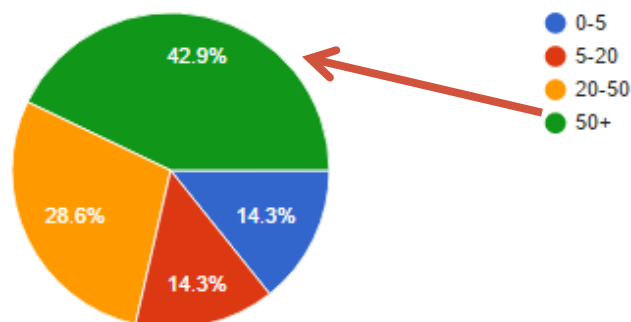
Wisconsin DG Interconnection Survey

- Conducted in July 2016 by WIDRC
- Responses from:
 - 21 Installers/Contractors
 - 9 Utilities
- Asked mostly mirror image questions of utilities & installers/contractors
- Responses are anonymous
- Helped inform and direct development of this Interconnection Forum
- Full results available at www.wisconsindr.org

Survey Results - # of Installations

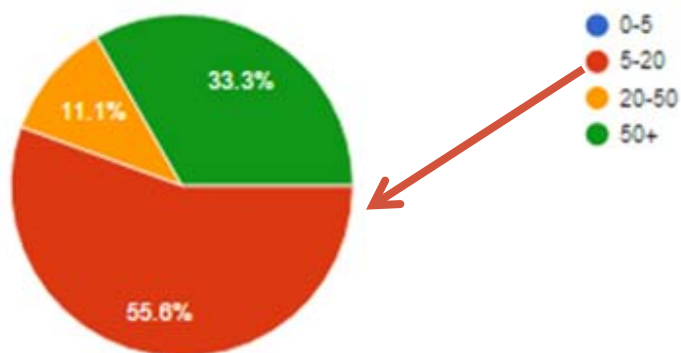
1. How many distributed generation installations have you worked on in Wisconsin?

(21 responses)



1. How many distributed generation installations have been interconnected to your system in Wisconsin?

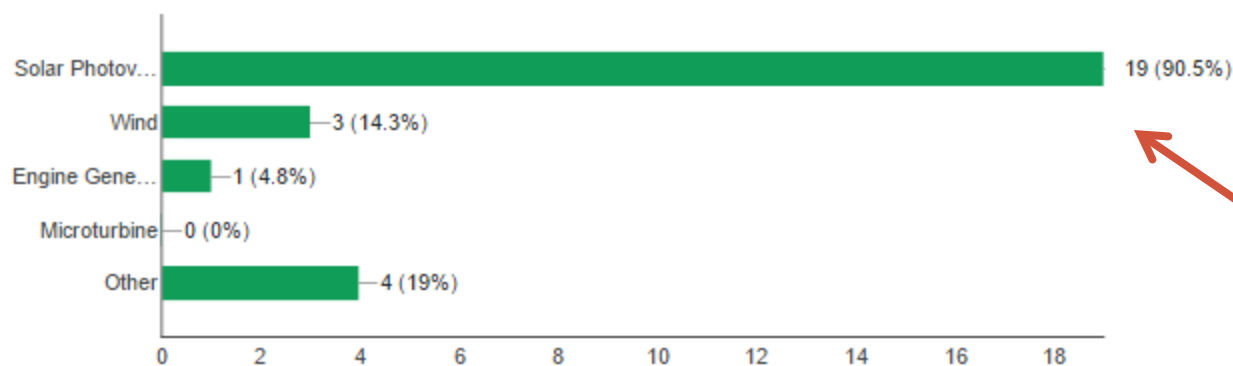
(9 responses)



Survey Results – Types of DG

2. What types of distributed generation have you installed in Wisconsin?

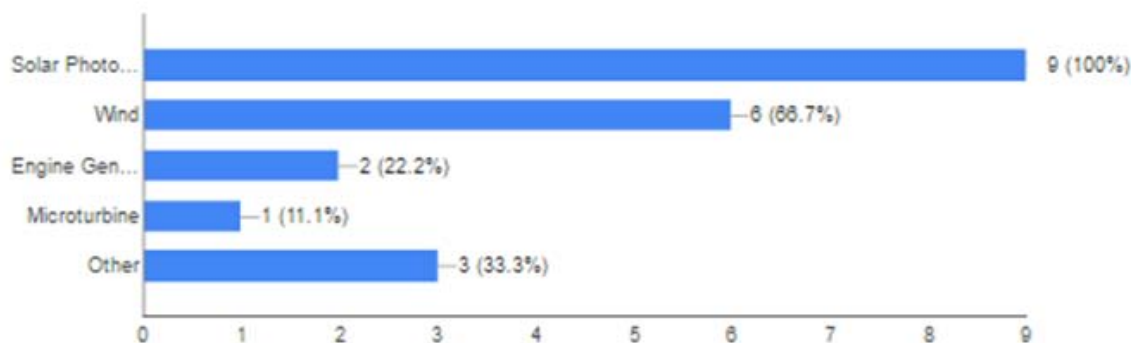
(21 responses)



Solar

2. What types of distributed generation installations exist in your Wisconsin service territory that are interconnected to your system?

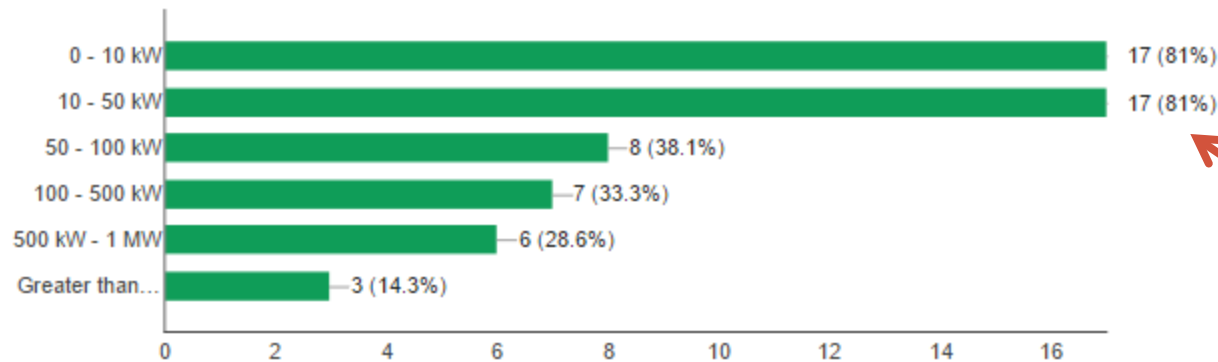
(9 responses)



Survey Results – Sizes of DG

3. What sizes of distributed generation installations have you worked on in Wisconsin?

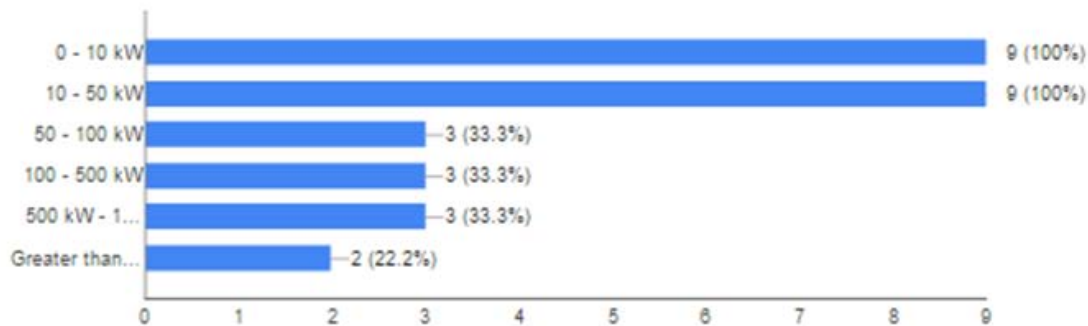
(21 responses)



< 50 kW

3. What sizes of distributed generation installations exist in your Wisconsin service territory that are interconnected to your system?

(9 responses)



Most Difficult Aspects of Interconnection

Q5 asked for respondents to choose up to 3 options. Answer options included:

- a. Initial interconnection application
- b. Engineering review
- c. Distribution system study
- d. Timeframe for interconnection
- e. Siting and land rights
- f. Email and phone communication with utility
- g. Installation testing
- h. Insurance requirements
- i. Technical requirements
- j. Distribution system relaying protection communication requirements
- k. Other

Installer options

Q4 asked for respondents to choose up to 3 options. Answer options included:

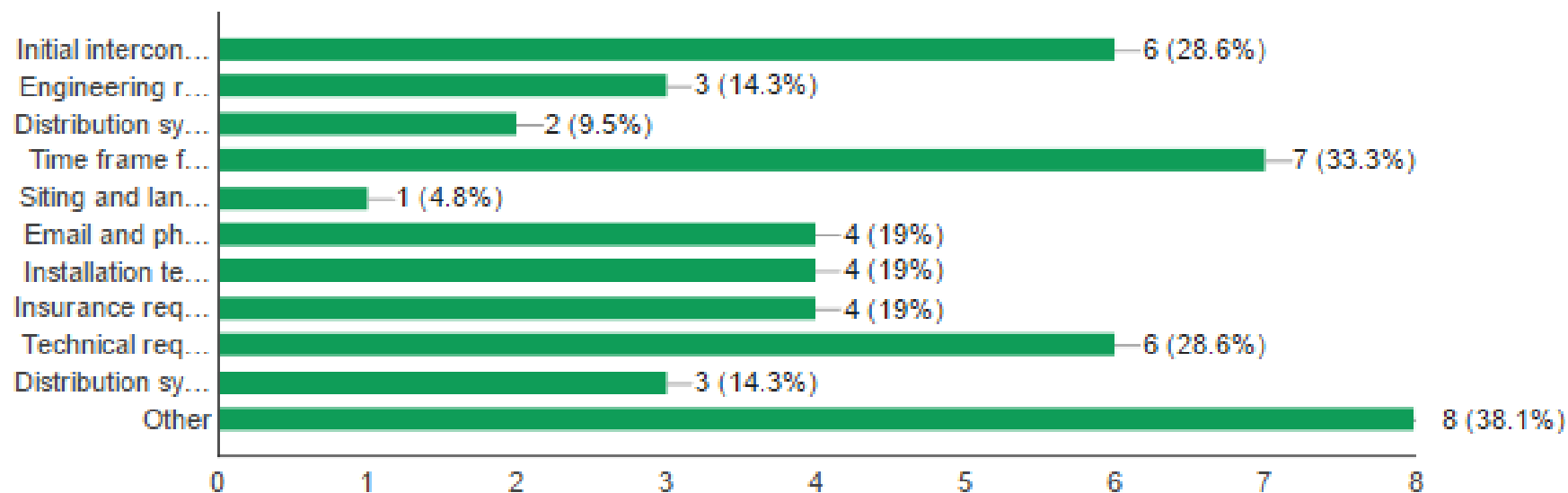
- a. Email and phone communication
- b. Completeness of application form
- c. Installation and compliance with technical rules
- d. Process and timeframes
- e. Understanding and following the parallel generation tariff rules
- f. Scheduling inspections
- g. Other

Utility options

Survey Results – Installer Difficulties

5. Which of the following are the most difficult aspects of working with an electric provider on an interconnection?

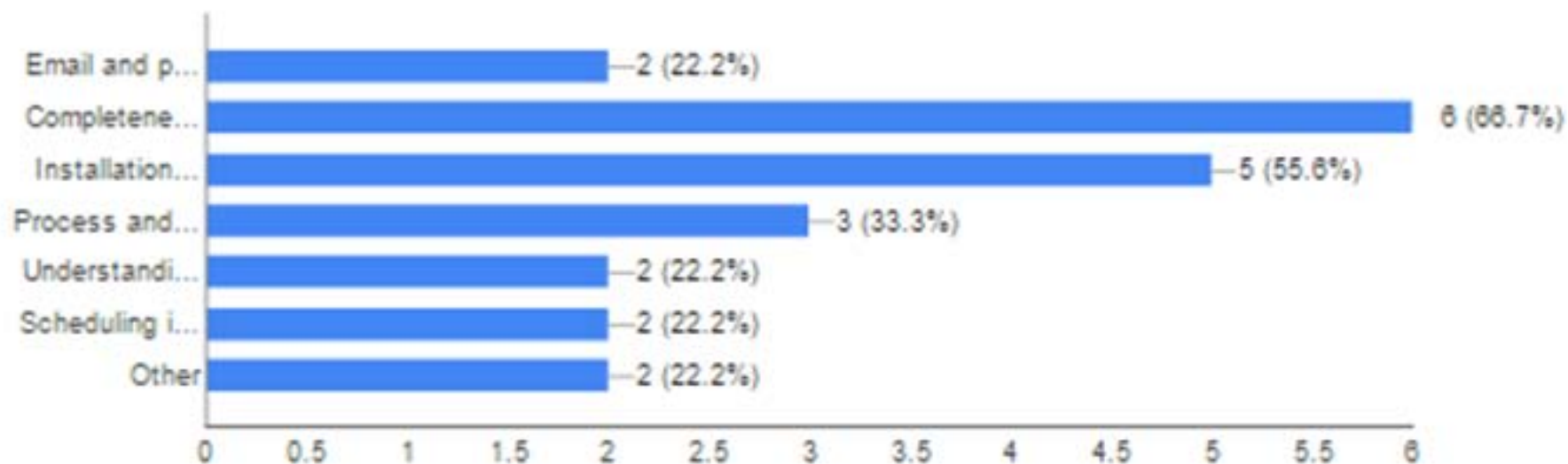
(21 responses)



Survey Results – Utility Difficulties

4. Which of the following are the most difficult aspects of working with an installer/contractor or customer on an interconnection?

(9 responses)



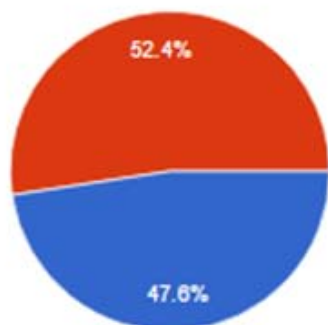
Survey topics – Other Questions

- Utilities were asked:
 - Would the use of an online application process streamline the interconnection process for your company?
 - What barriers exist in your company to implementing an online interconnection application process?
- Installers were asked:
 - Whether they knew the characteristics of the distribution lines they were asking to interconnect to, and if not, why not?
- Both were asked:
 - What improvements to the interconnection process would you suggest?

Survey Results – What to Discuss

11. If you could spend time with utilities discussing one of the following, which would you choose?

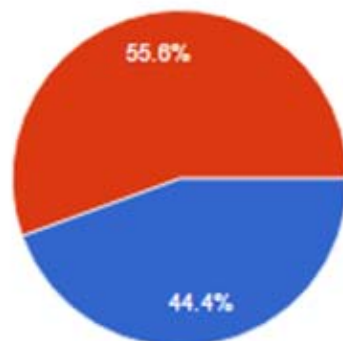
(21 responses)



- Interconnection process - timelines, paperwork, procedure
- Technical interconnection details - technical requirements, equipment standards, study procedures

10. If you could spend time with installers discussing one of the following, which would you prioritize?

(9 responses)



- Interconnection process - timelines, paperwork, procedure
- Technical interconnection details - technical requirements, equipment standards, study procedures

So let's discuss!

