
Technology Developments: Grid-Connected Heat Pump Water Heaters

ACEEE Hot Water Forum 2018

Session 2A

Wednesday, March 21, 1:30pm

Moderator's Introduction

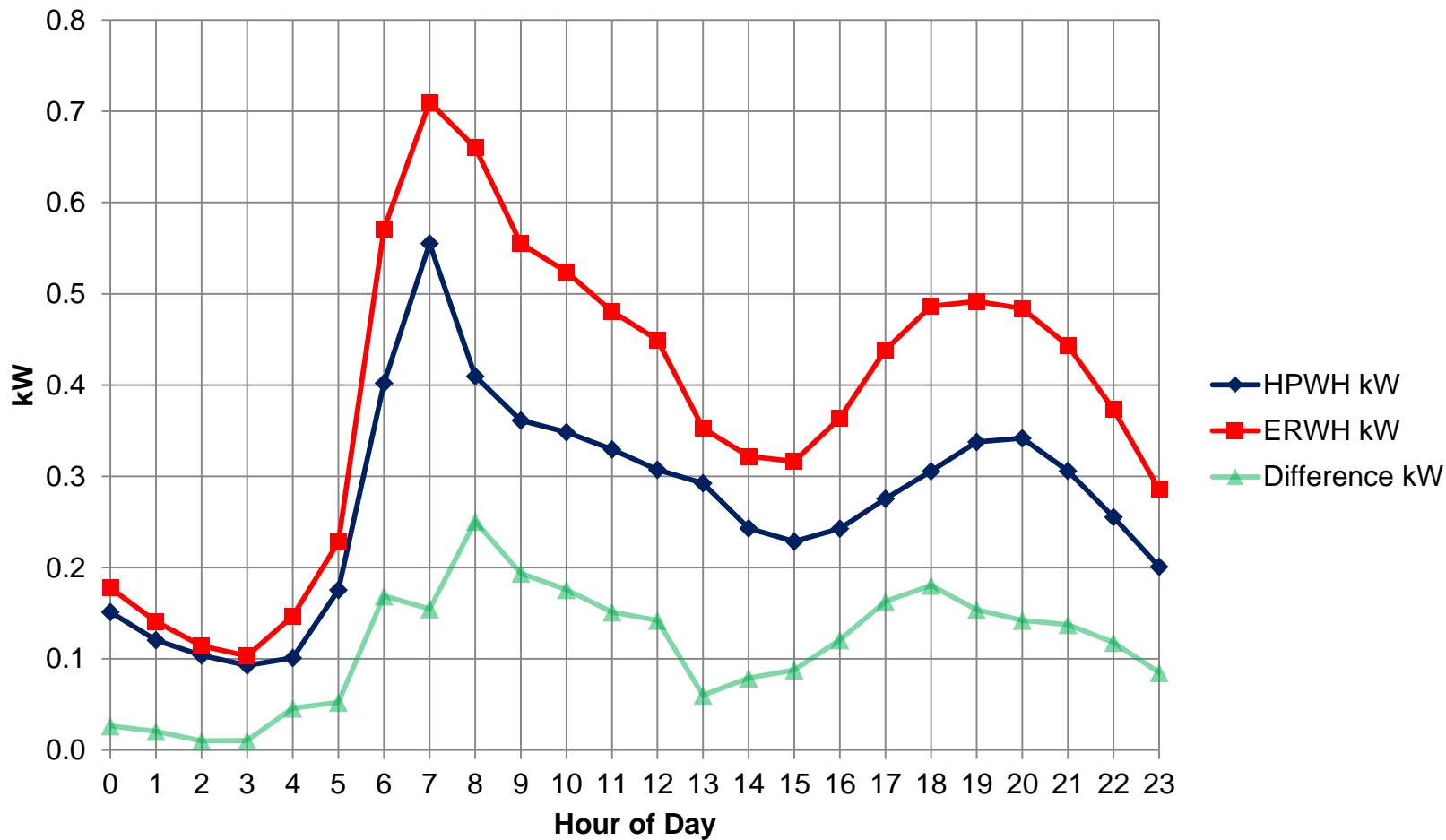
- Moderator: Ben Larson, Ecotope
- Speaker 1: Peter Grant, Frontier Energy
- Speaker 2: Pierre Delforge, NRDC



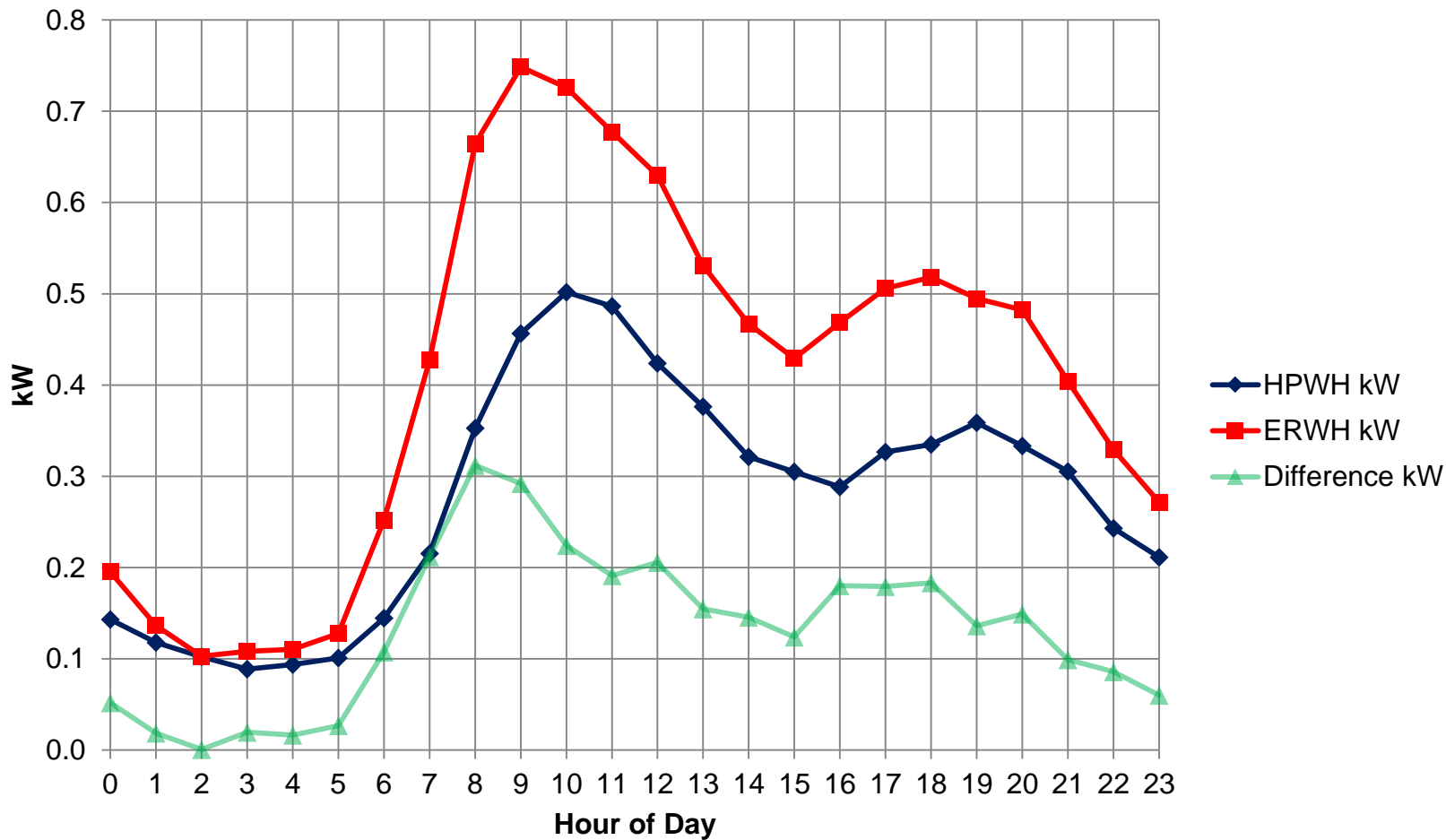
Measured Electric Load Shapes

- Electric Resistance, $n = 166$
 - Heat Pump Water Heaters, $n = 100$
 - Any size. Any installation locations. Any occupancy.
 - Washington, Oregon, Idaho, and Montana
 - Time Span: 2010-2014
 - 6 months to 3 years of data collection
 - Data Collection Interval 1-5 minutes
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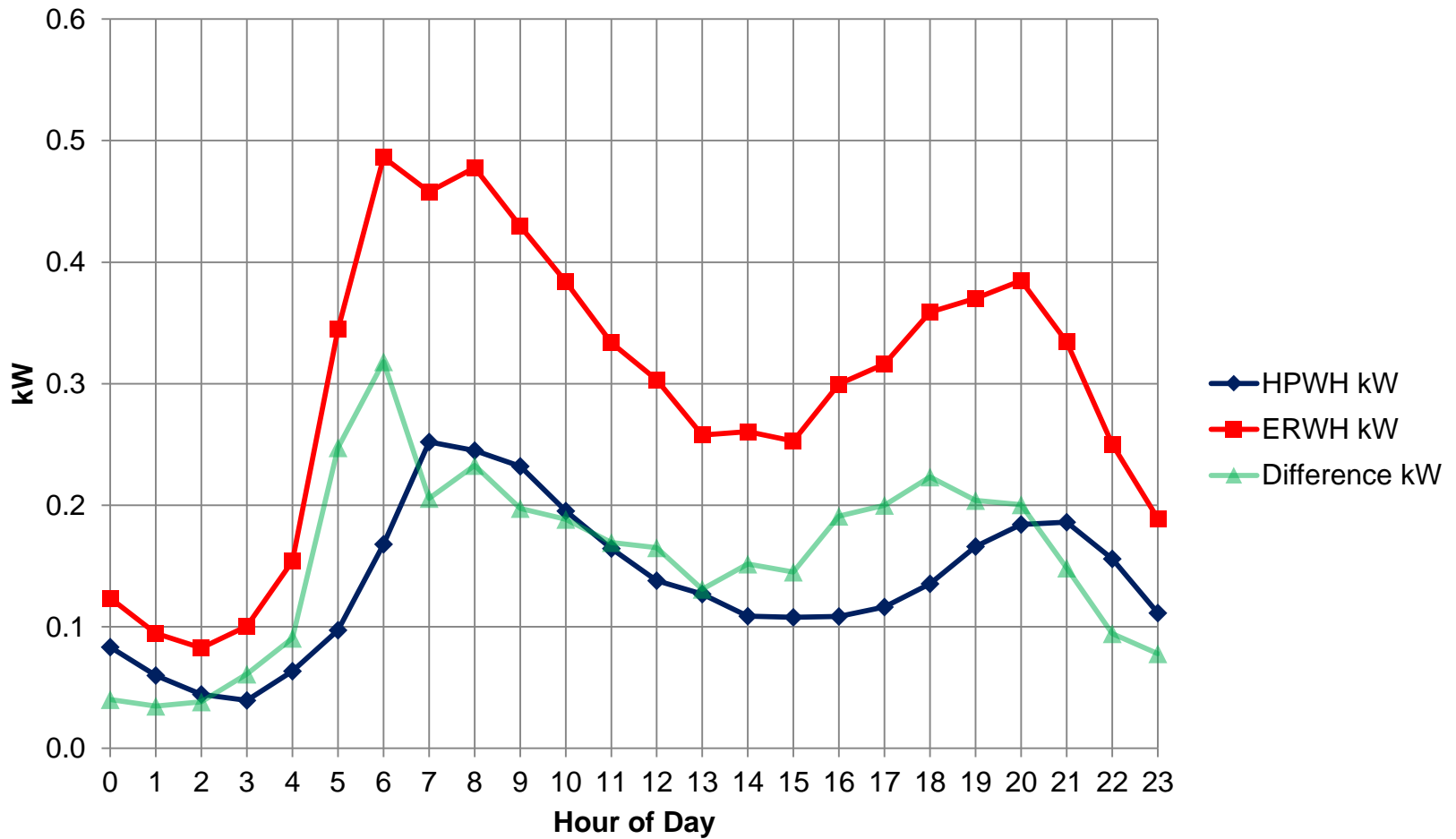
Weekday December-January-February Water Heat Load Shapes



Weekend December-January-February Water Heat Load Shapes



Weekday June-July-August Water Heat Load Shapes



Weekend June-July-August Water Heat Load Shapes

