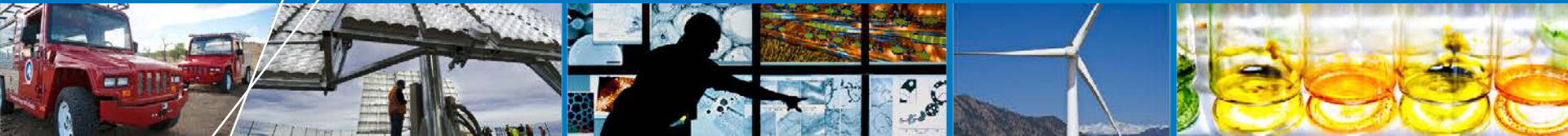


Spring 2012 Composite Data Products – Backup Power

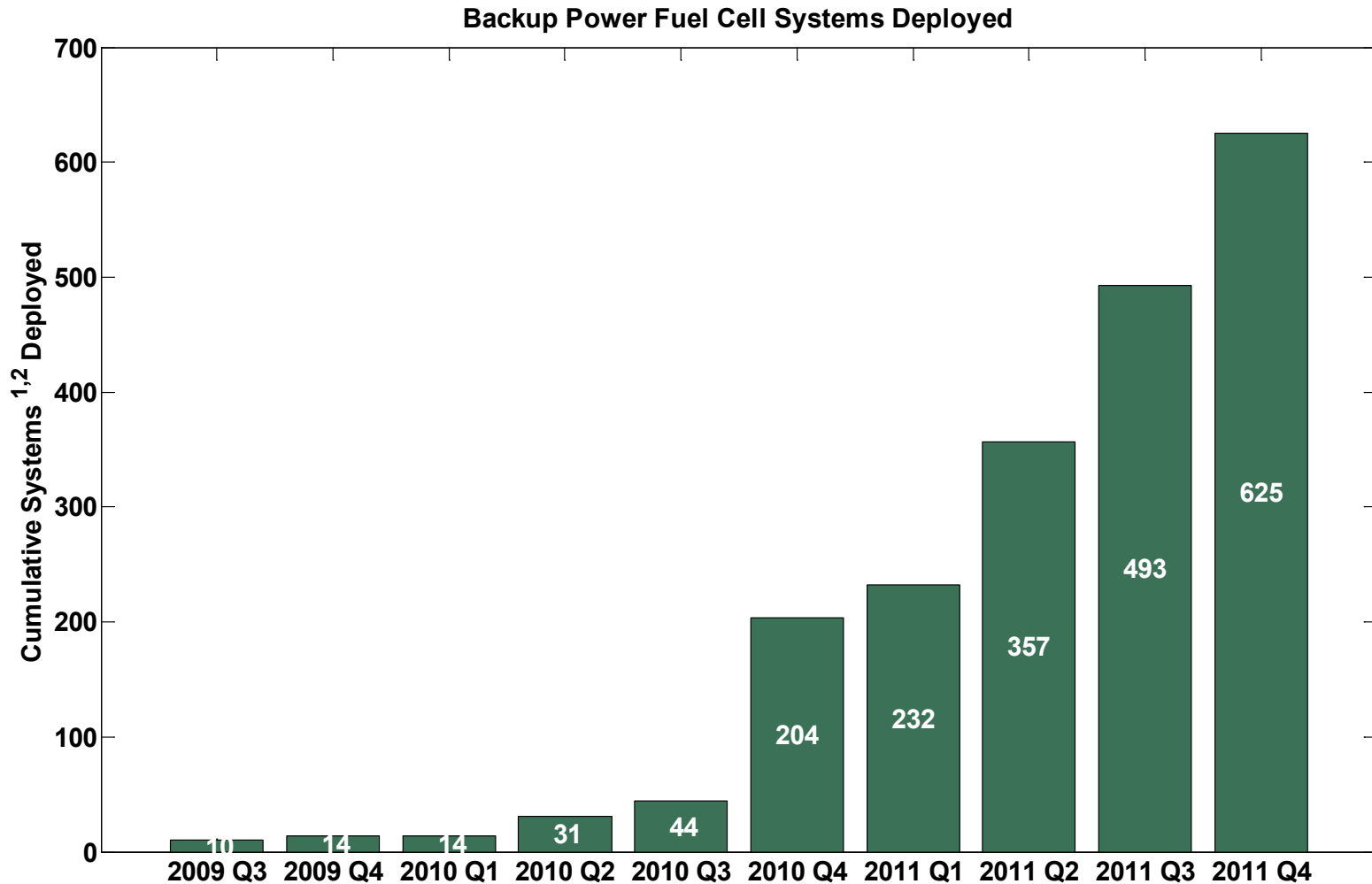


**J. Kurtz, K. Wipke, S.
Sprik, T. Ramsden, C.
Ainscough, G. Saur**

April 3, 2012

NREL/PR-5600-55311

Backup Power Fuel Cell Systems Deployed

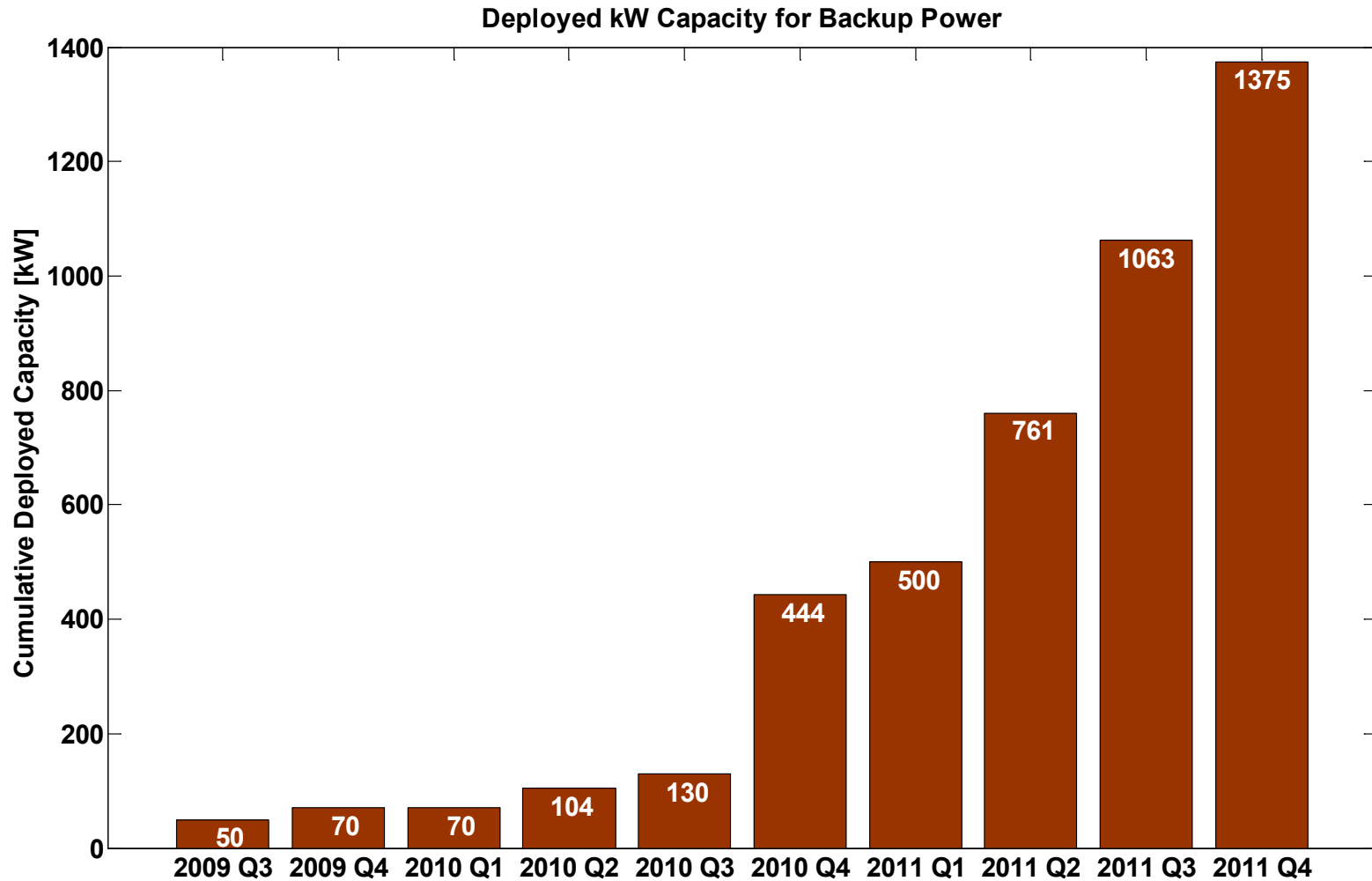


NREL cdp_bu_01

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- 1) Sites may have more than one FC system
- 2) Not all FC systems are supplying operation data

Deployed kW Capacity for Backup Power



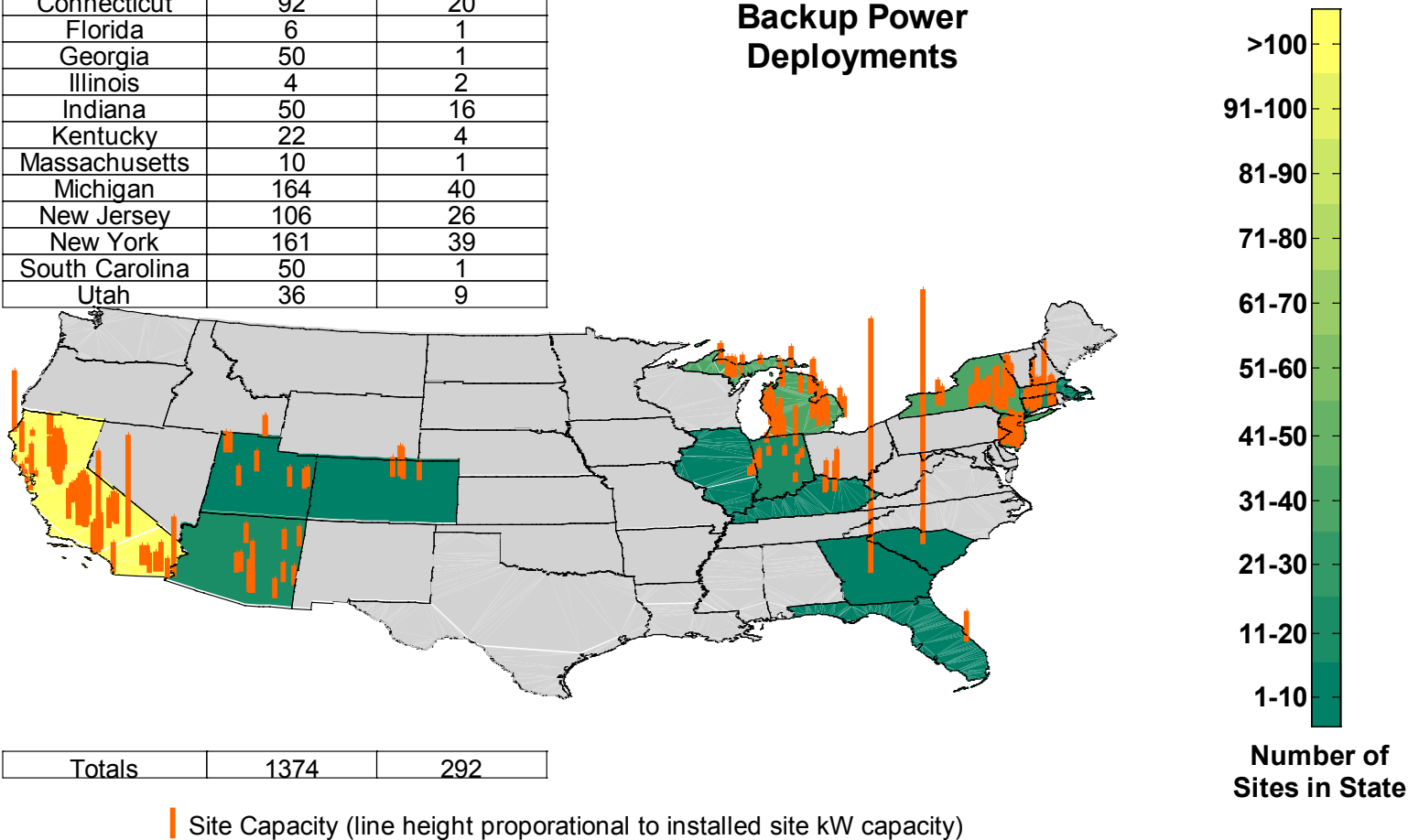
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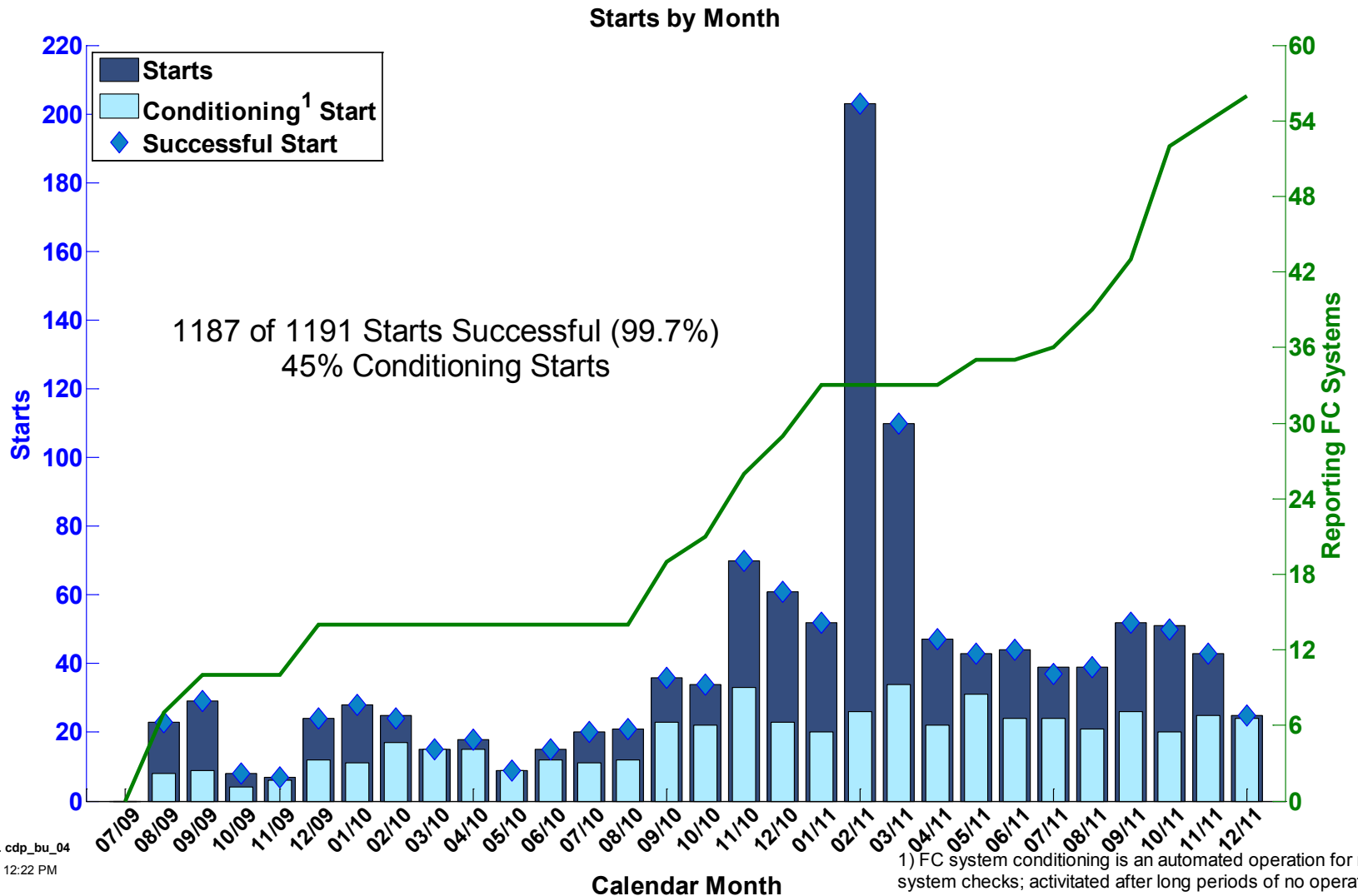
Backup Power Deployments

State	kW Capacity	Sites
Arizona	84	16
California	515	111
Colorado	24	5
Connecticut	92	20
Florida	6	1
Georgia	50	1
Illinois	4	2
Indiana	50	16
Kentucky	22	4
Massachusetts	10	1
Michigan	164	40
New Jersey	106	26
New York	161	39
South Carolina	50	1
Utah	36	9

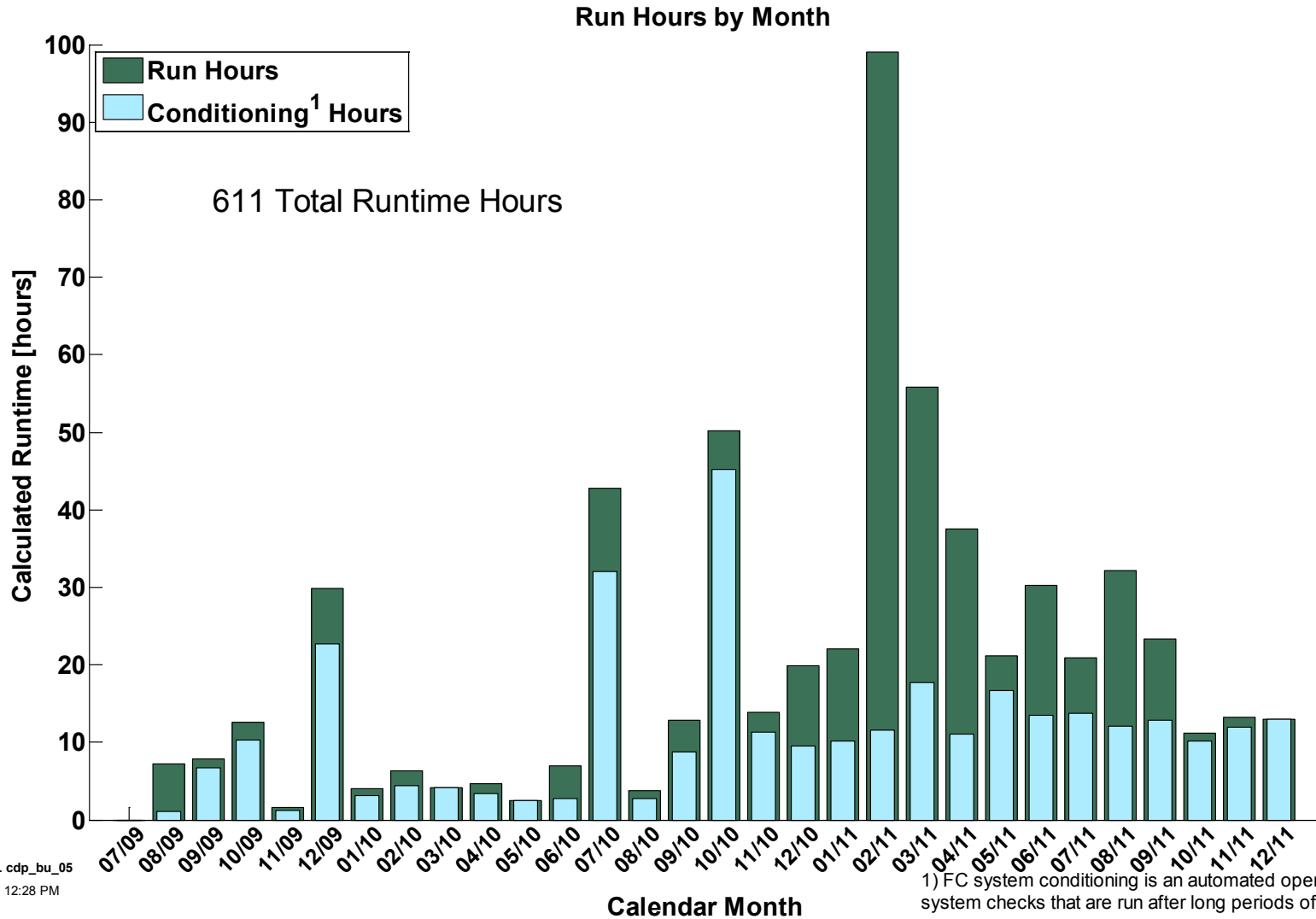
Backup Power Deployments



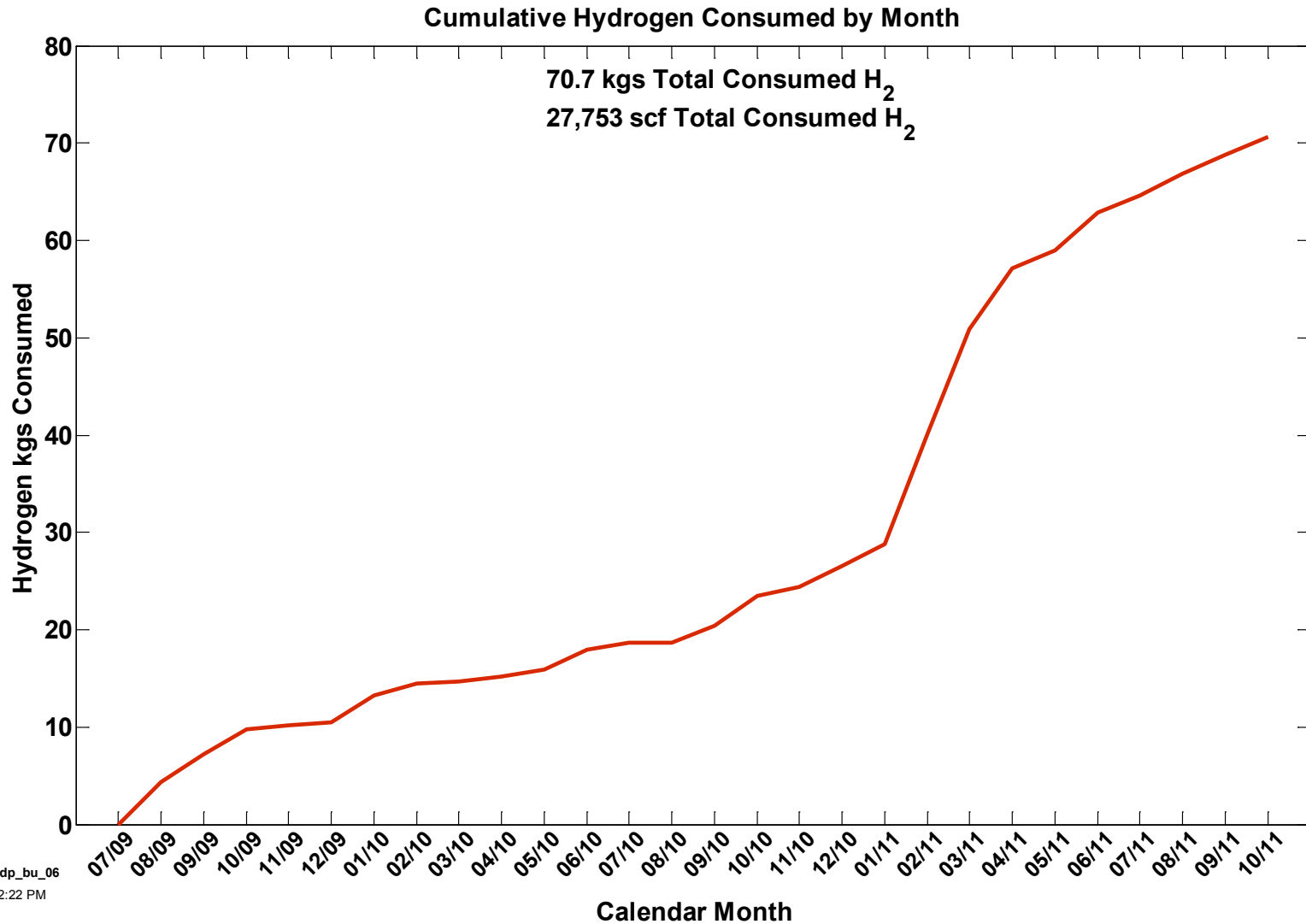
Fuel Cell System Starts by Month



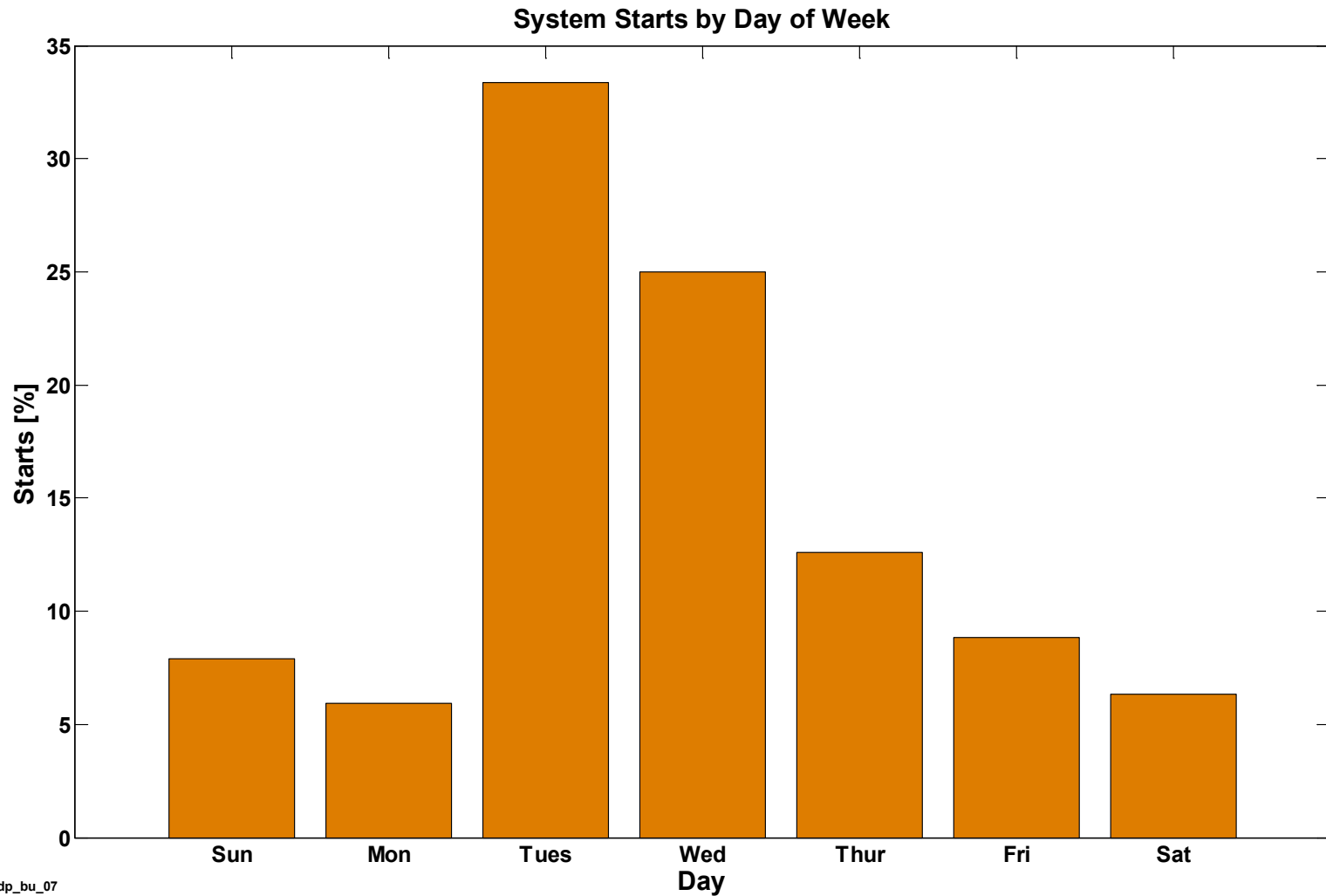
Fuel Cell System Run Hours by Month



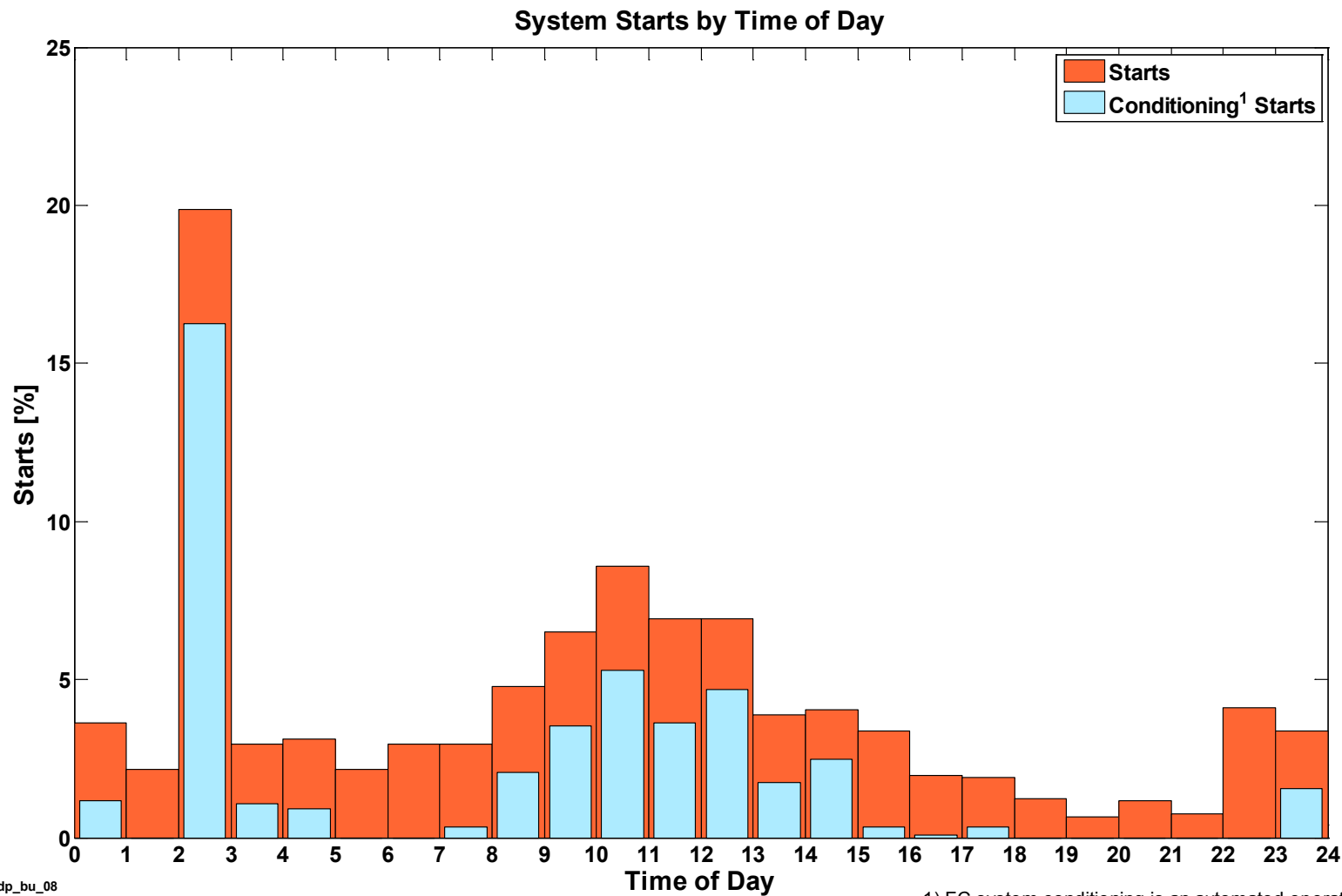
Cumulative Hydrogen Consumed by Month



Fuel Cell System Starts by Day of Week



Fuel Cell System Starts by Time of Day

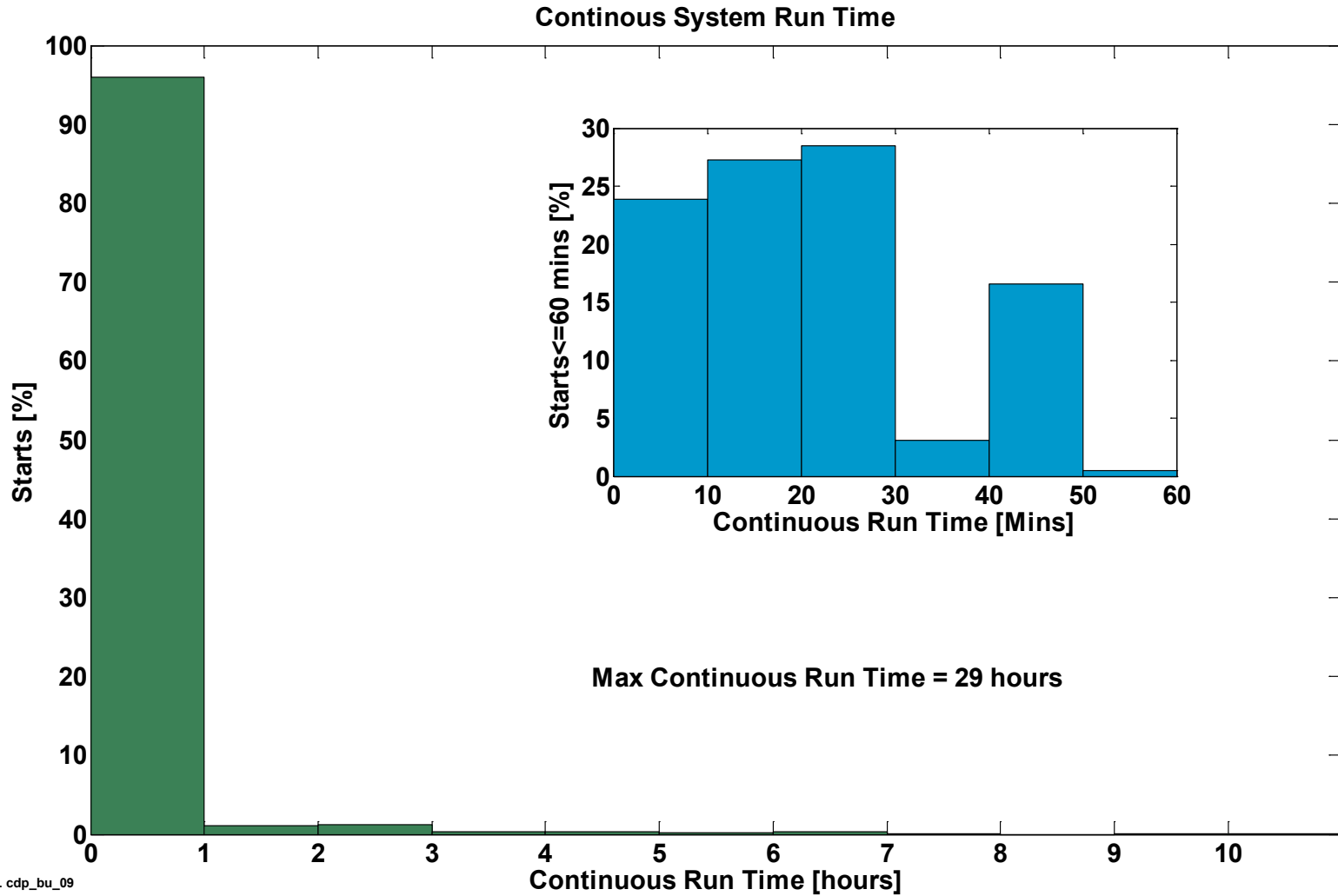


NREL cdp_bu_08

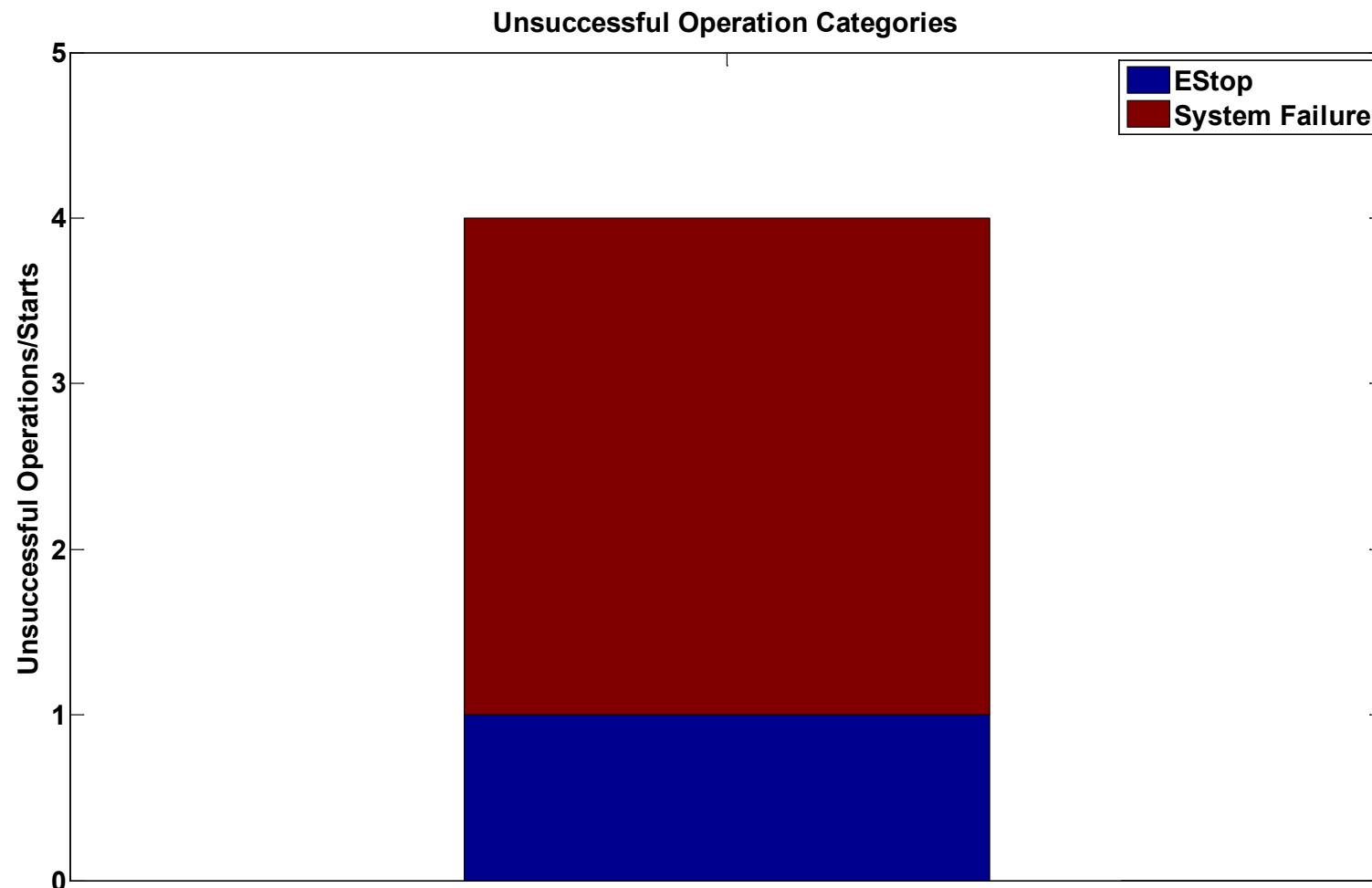
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1) FC system conditioning is an automated operation for regular system checks; activated after long periods of no operation.

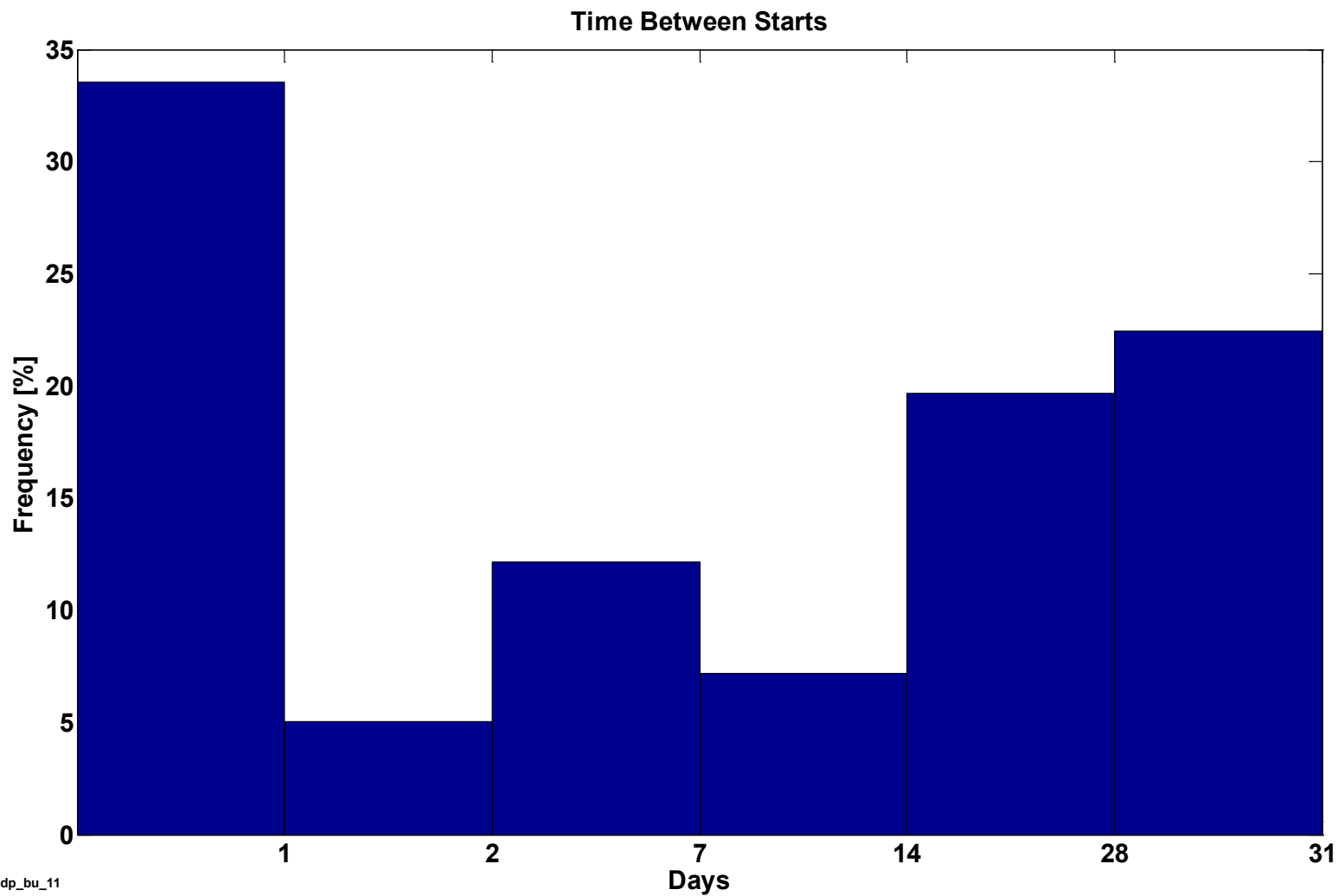
Continuous Fuel Cell System Run Time

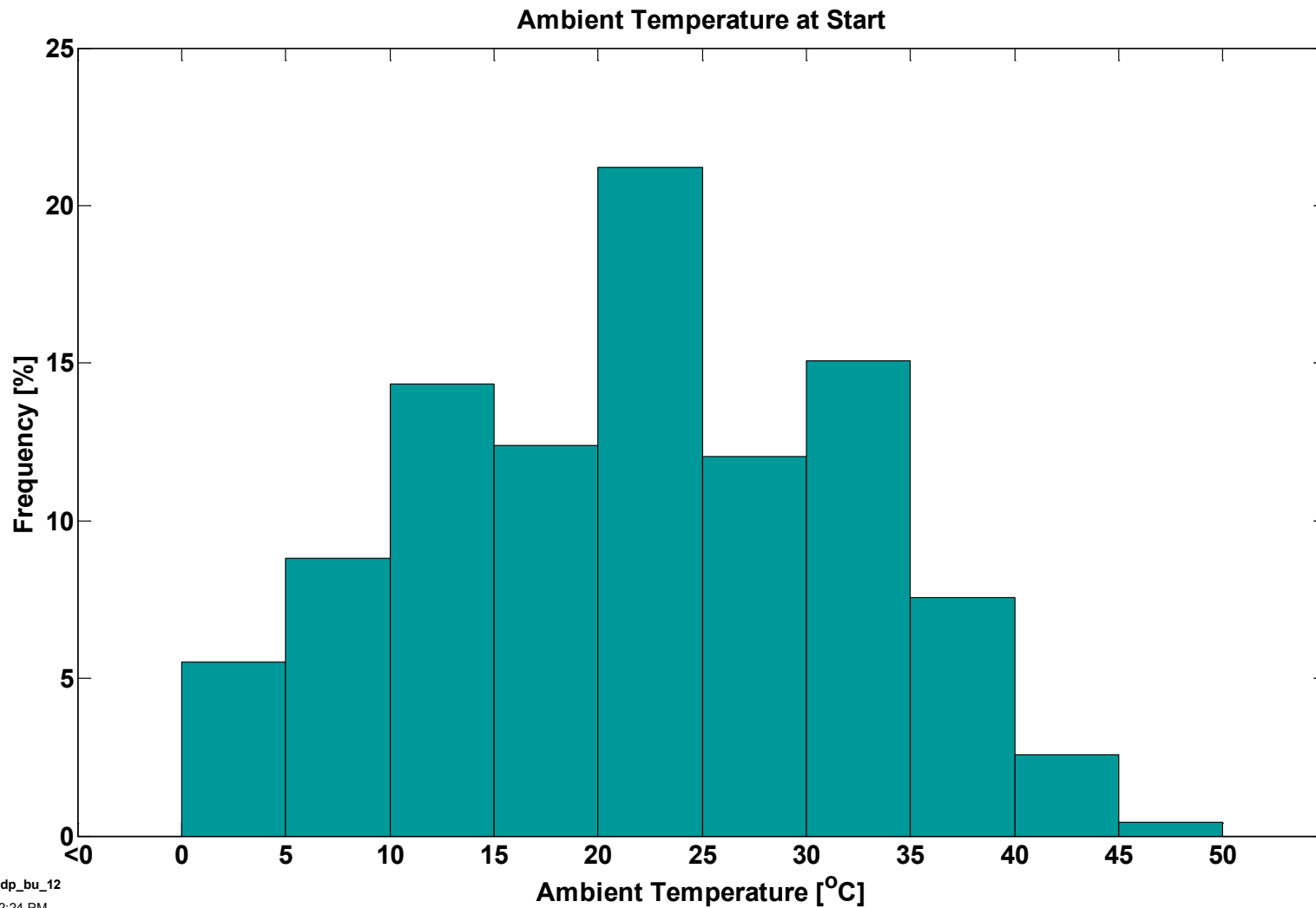


Unsuccessful Operation Categories



Time Between System Starts





NREL cdp_bu_12

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