



Buildings and General Services

State House Generator & Switchgear



Act 160

e) The Commissioner of Buildings and General Services is authorized to use funds from the amount appropriated in subdivision (c)(5) of this section to:

(1) conduct engineering and design for **either a single generator for the State House or a shared generator for the State House and the Capitol Complex**, and the related upgrades for the electrical switch gear

Current State

- 35kw Onan installed while songs like Let It Be and Moondance were playing on a transistor radio in the background.



Outage History

- Between January 2010 and today there have been 6 outages at the State House.
- 2 each in 2015, 2016 and 2017.
- Longest duration was under two hours
- One attributed to squirrels making mischief on our side of the meter

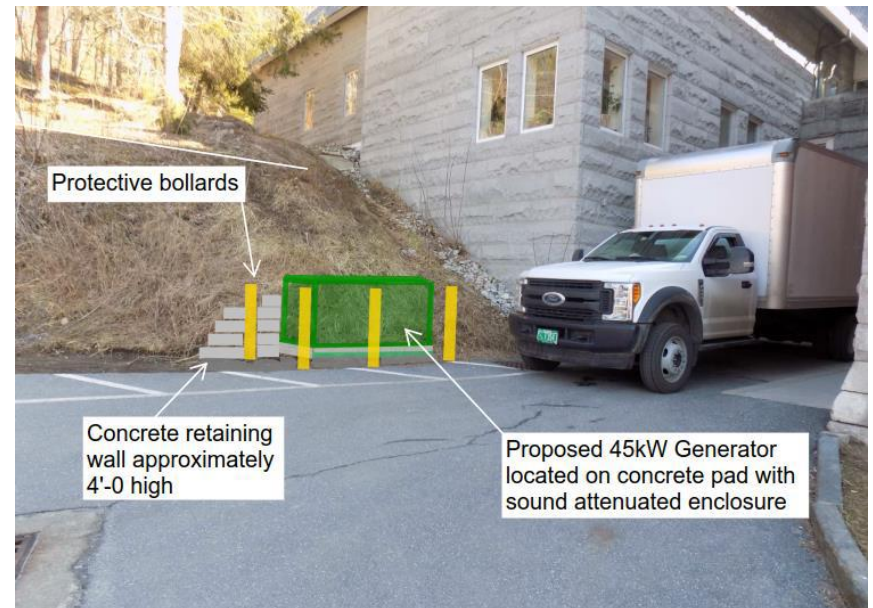
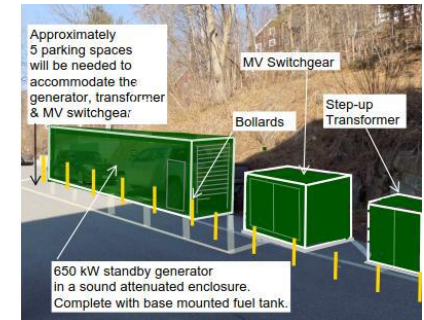
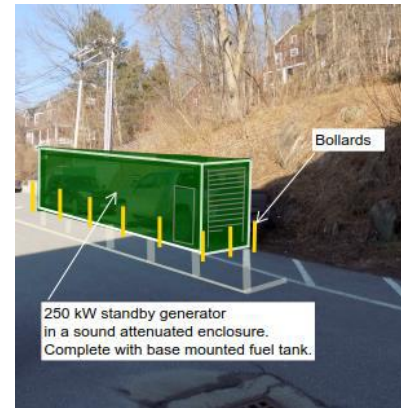
**Other
buildings
served by
generators
in the
complex**

- 133 State Street
- 2 Governor Aiken Avenue
- Central Heat Plant
- 109 State Street

Dubois & King Study

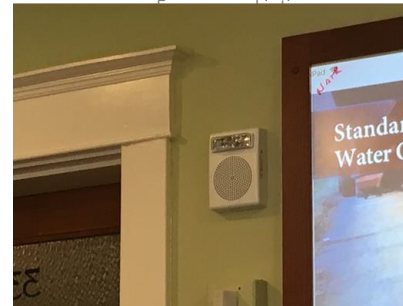
Explored 9 options ranging from replacing in existing basement space to a redundant connection to the grid.

Recommendation is to replace existing 30 kw generator and switchgear with an increase in capacity to 45kw.



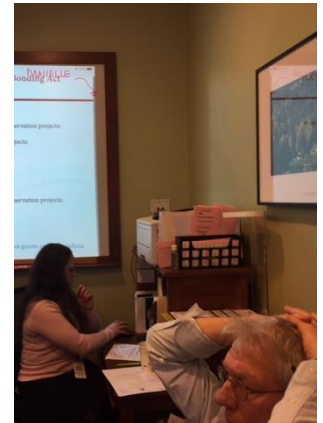
What Does 45kw Get Us?

- Egress Lighting
- Fire Alarms (24 hr. battery)
- Public Address System (security)
- Computer Servers
- WiFi
- Selected electrical outlets
- Security Gates



What's not included

- House & Senate Chamber PA
- Desktop computers
- Regular Lighting
- Xerox Machines
- Elevator



Upgrade to 60kw

- Additional cost approximately \$25,000
- Same Footprint as 45kw
- Can operate elevator near card room
- Capacity to add some additional loads

What about batteries?

- GMP is developing a program with Dynapower to provide battery backup systems.
- Will potentially be incentivizing use during peak load periods.
- Possibly financing through utility bills
- Could match 60kw load
- Provide power for 6-8 hours
- System could be installed along with connection point for portable generator in case of long-duration blackout.