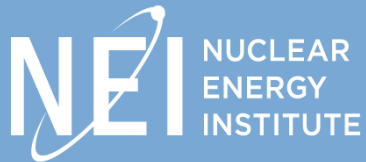


# Security Investments Workshop

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February 14–15, 2019



# The Nuclear Energy Institute (NEI)



NEI is the policy organization of the nuclear technologies industry, based in Washington, D.C. We are responsible for establishing unified policy relating to matters affecting the nuclear energy industry, including the regulatory aspects of operational and technical issues.

NEI's members include entities licensed to operate commercial nuclear power plants in the United States, nuclear plant designers, major architect and engineering firms, fuel cycle facilities, nuclear materials licensees, and other organizations involved in the nuclear energy industry.



Photo Source: [www.housingwire.com/articles/39541-top-trade-organizations-support-barring-use-of-fannie-freddie-g-fees-for-federal-spending](http://www.housingwire.com/articles/39541-top-trade-organizations-support-barring-use-of-fannie-freddie-g-fees-for-federal-spending)

# U.S. Physical Security Program

The design-basis threat in U.S. regulation is based on adversaries with the following attributes:

- Well-trained and dedicated individuals, willing to kill or be killed;
- Provided with inside assistance;
- Suitable weapons, including handheld automatic weapons;
- Hand-carried equipment, including incapacitating agents and explosives;
- Land and water vehicles to include land and waterborne vehicle bomb assault; and
- A cyber attack.



# U.S. Physical Security Program



## Armed Security Officer



Photo Source:  
[https://www.cleveland.com/business/index.ssf/2011/08/nuclear\\_security\\_911\\_firstener.html](https://www.cleveland.com/business/index.ssf/2011/08/nuclear_security_911_firstener.html)

## Bullet Resistant Enclosure (BRE)

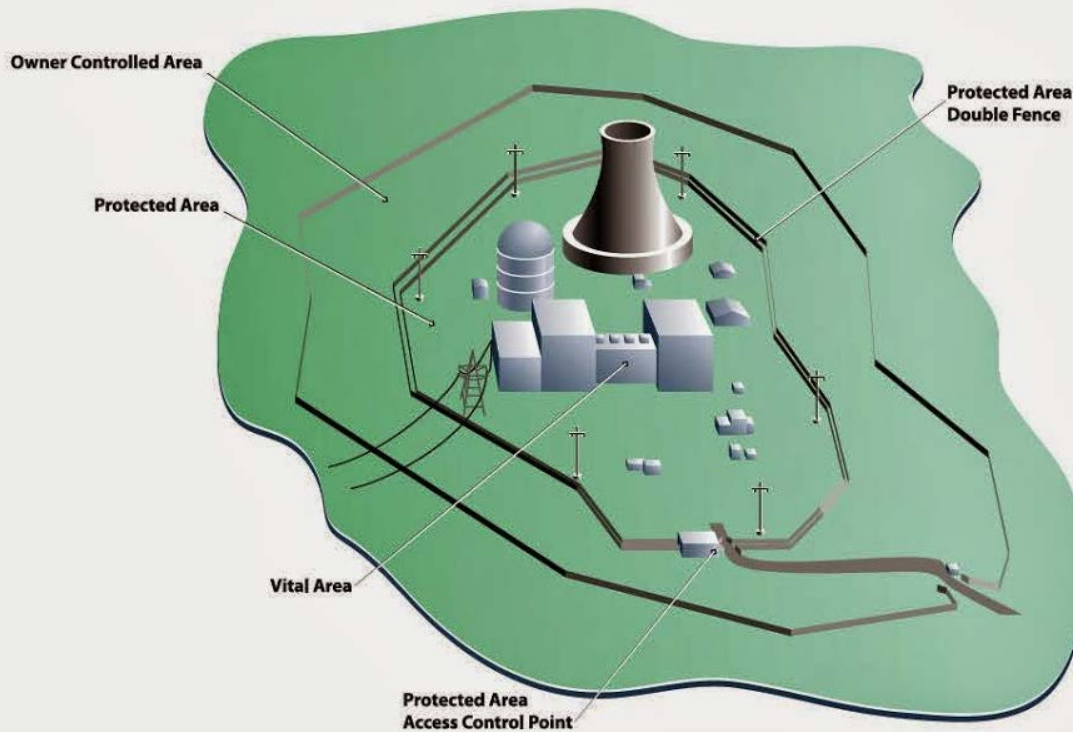
# U.S. Physical Security Program

SINCE 9/11



- Restrictions on access to the facility
- Increased number of security posts
- Increased Interaction with external organizations

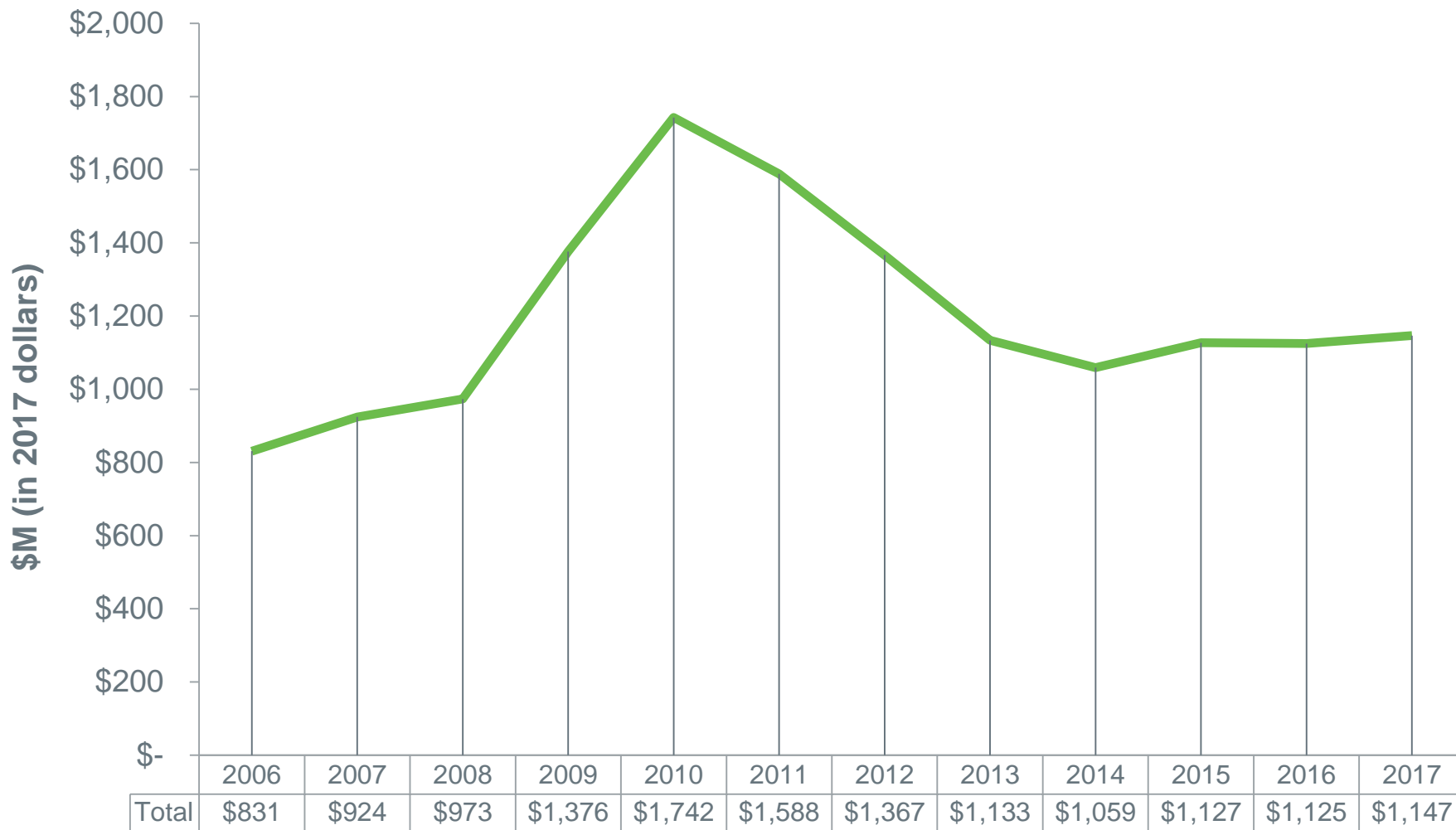
## Nuclear Plant Security Area



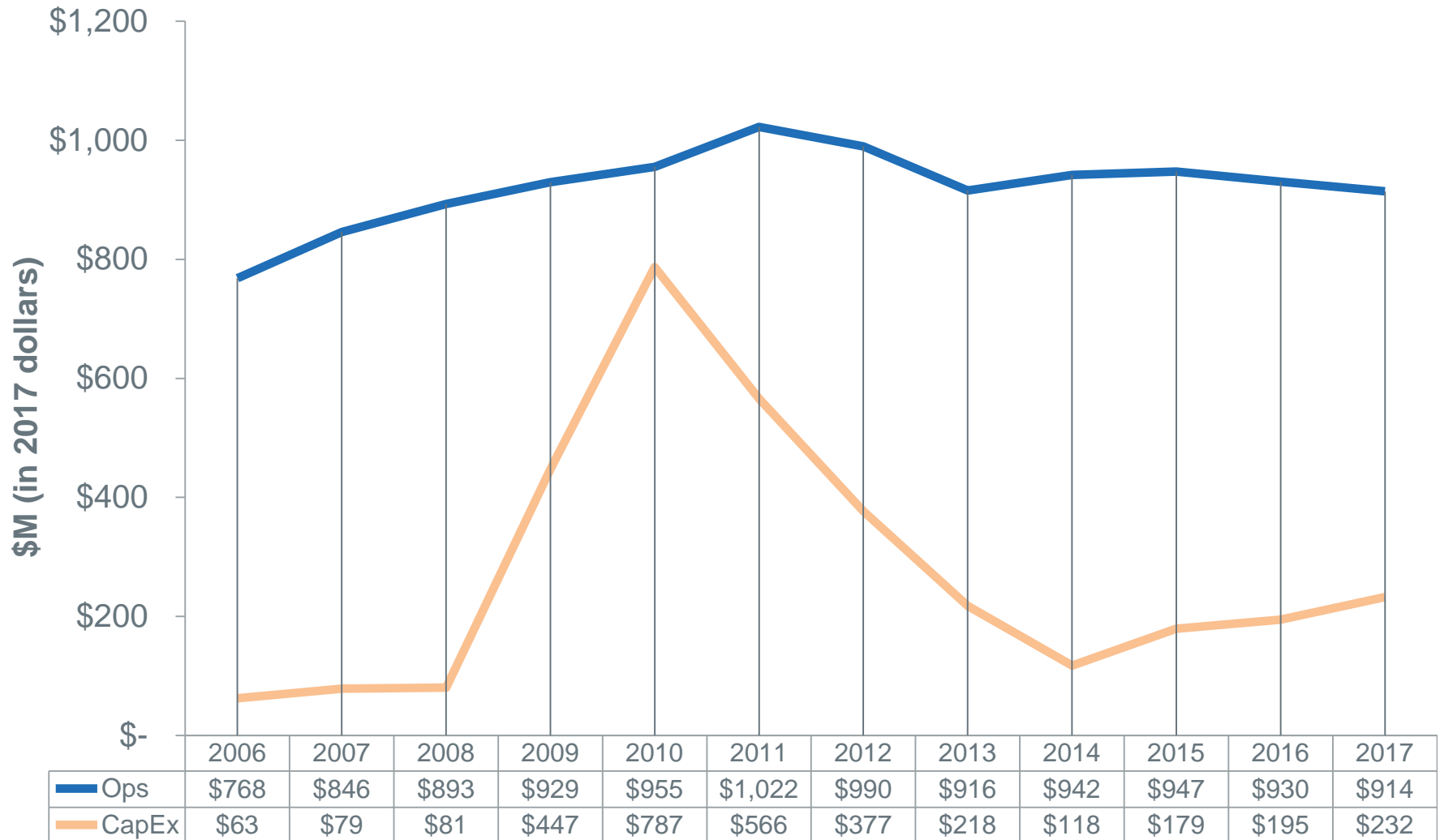
## Search Area at Access Control Point



# Total Fleet-wide Security Cost 2006–2017

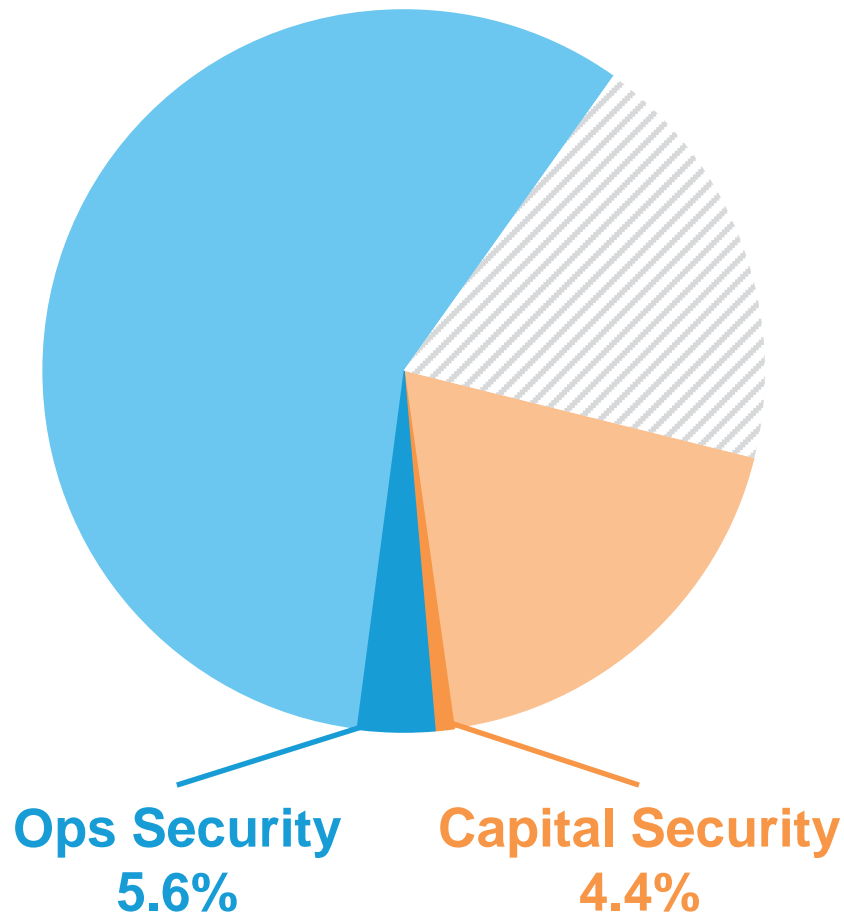


# Total U.S. Fleet Operational and Capital Security Costs 2006–2017

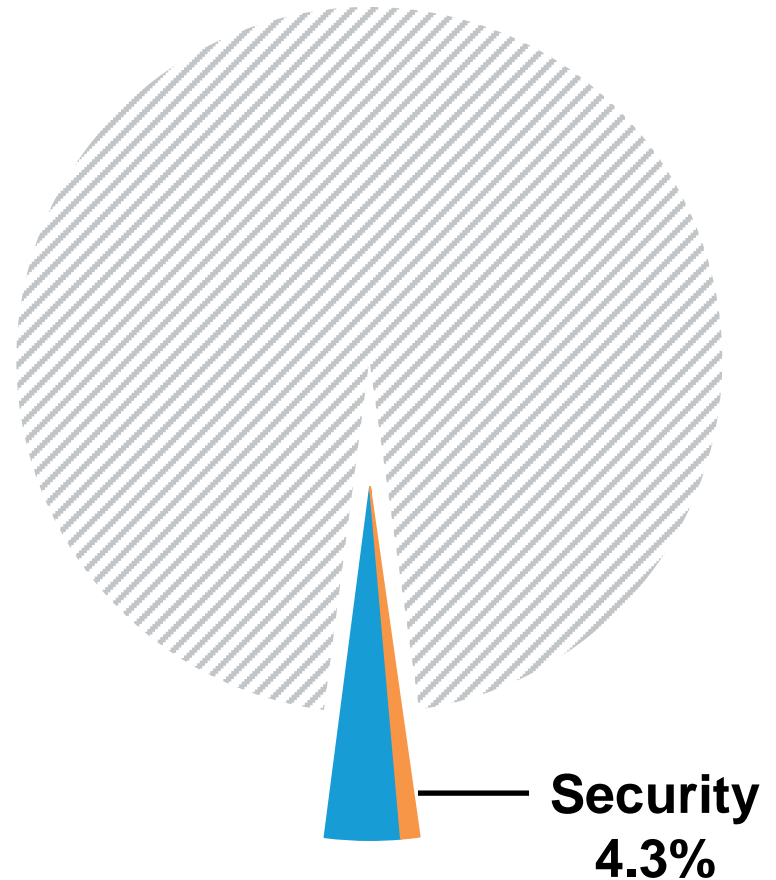


# Security Cost as a Percentage of ...

## Overall Ops / Overall Capital

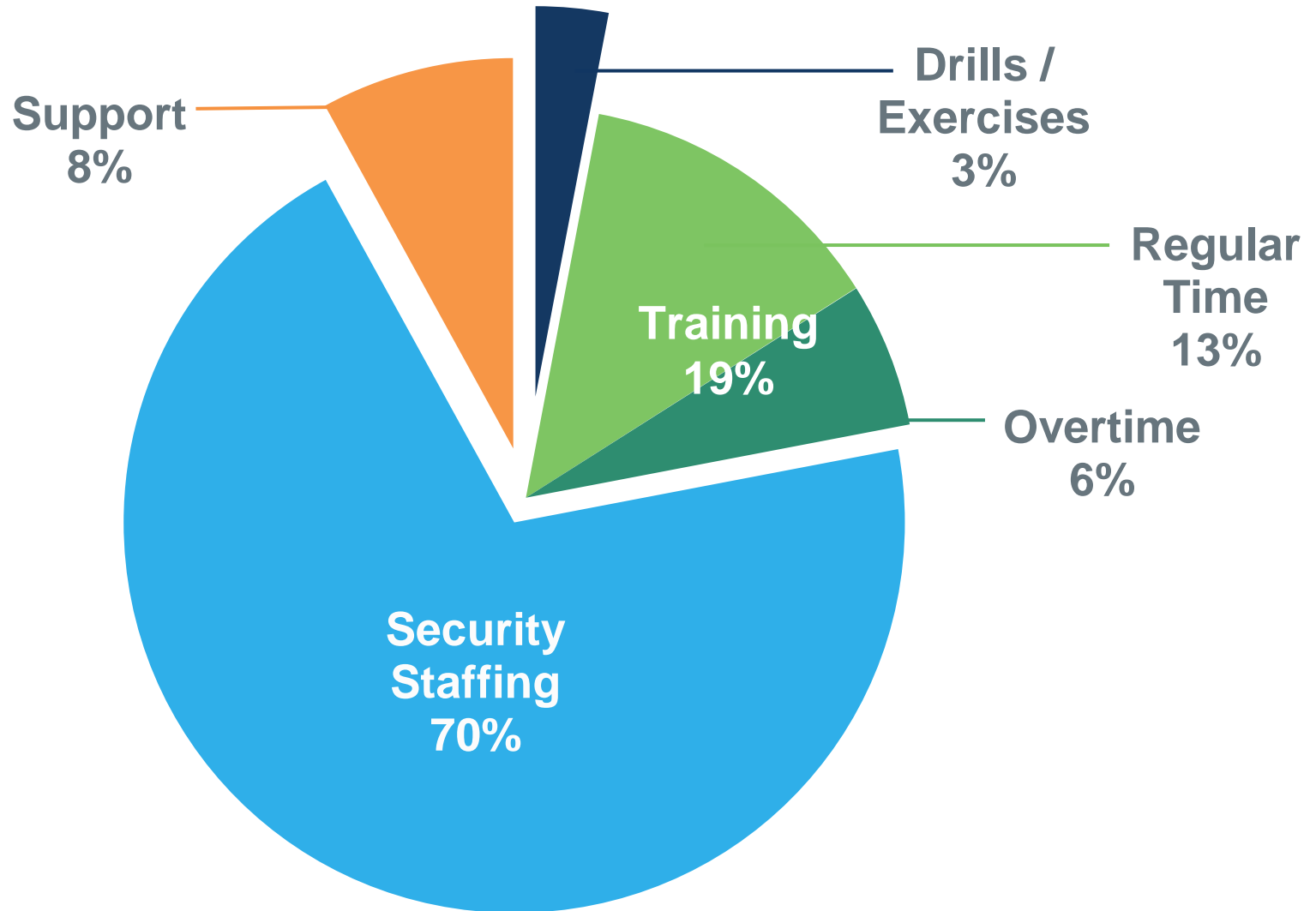


## Overall Generating Cost

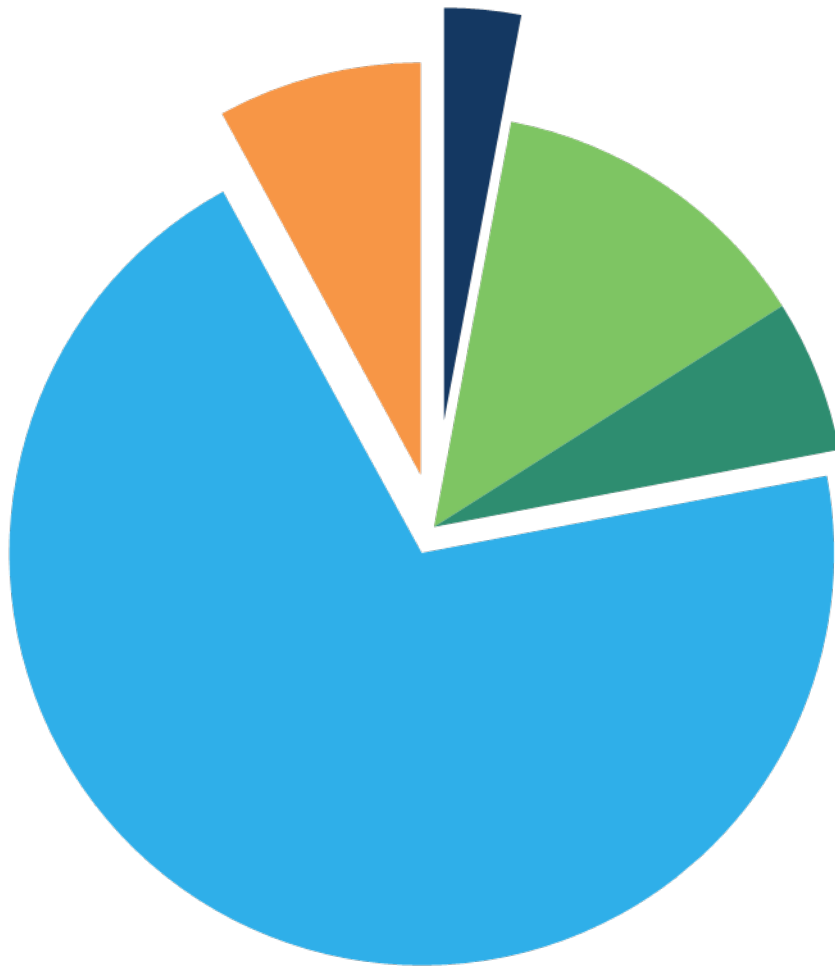




# Breakdown of Average Operational Budget



# Breakdown of Average Operational Cost



**Security Staffing**      **\$9,842,000**

**Training**      **\$2,671,000**

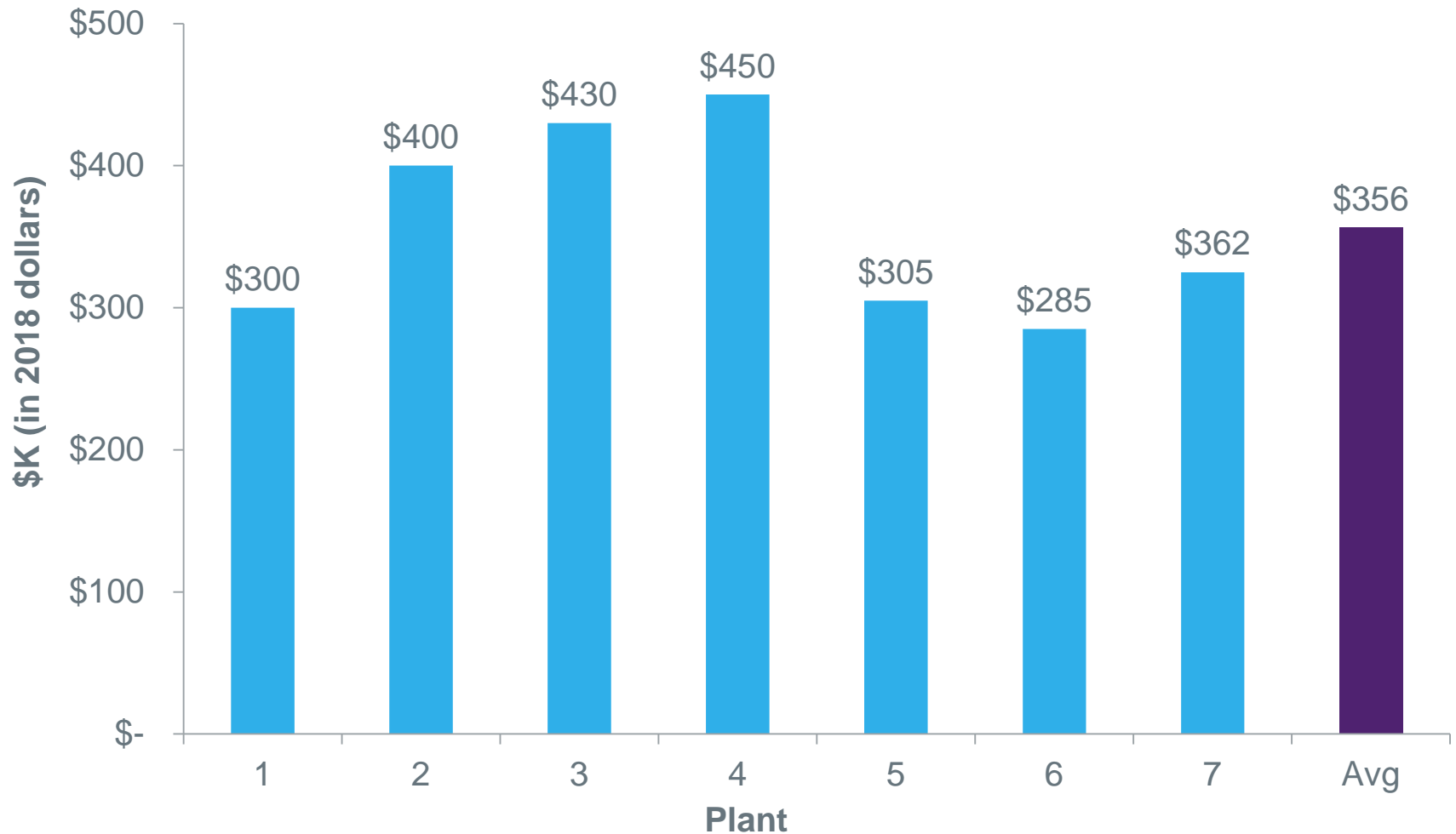
• **Regular Time**      **\$1,828,000**

• **Overtime**      **\$844,000**

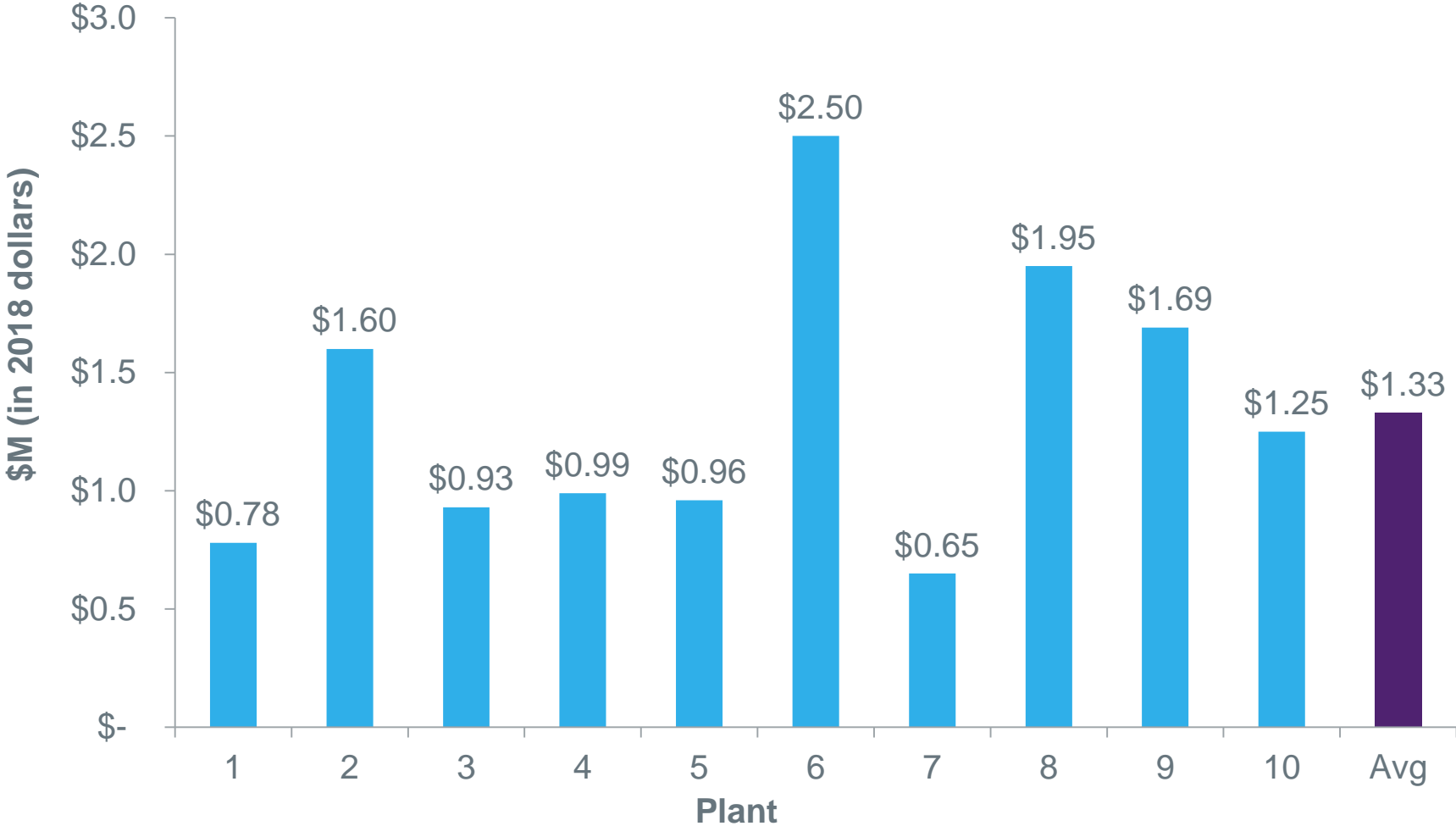
**Support**      **\$1,125,000**

**Drills / Exercises**      **\$422,000**

# All-In Cost of Each Security Post



# Estimated Labor and Support of Cyber Security Programs



# Questions / Discussion

<https://www.nei.org/home>