

C. What is the cost of your proposal? Please describe in adequate detail the basis for your cost estimate.

\$22,690 for 2 solar tables. The cost per table is \$9,495.00. The shipping cost per table is \$1,850.00. If 3 more Solar-Doks were purchased a 4% discount would be added, due to an incentive by Enerfusion Inc. for the purchase of 5 or more tables. The shipping cost is expected to decrease, if more tables are purchased. This initiative is also scalable; any number of solar tables would be a great addition to Virginia Tech's Campus.

D. Will your proposal produce cost savings for the University? If so, how much? Please describe in adequate detail the basis for your savings estimate.

Although the energy saving returns are minimal, these solar panels are intended as a centerpiece for educational purposes and a stepping stone towards more sustainable initiatives.

E. Is this funding request an Ongoing or One-Time change **(please check one)**?

One-time **Ongoing**

F. Is funding available for this request from another source? If yes, describe the funding (source, amount, etc.)

No other funding available.

SUSTAINABILITY INITIATIVES BY STUDENT ORGANIZATIONS FUNDING PROPOSAL

Part IV- Requestors/Reviewers

| | | |
|--|-------------------|---------------|
| Prepared By (Name of Contact for Student Organization) | Patrick Gallagher | Date 10/24/14 |
| Reviewed By (Name of Appropriate University Official) | Denny Cochrane | Date 10/24/14 |
| Reviewed By (Name of Office of Energy and Sustainability Representative) | Steve Mouras | Date 10/24/14 |

References

1. <http://energy.gov/maps/solar-energy-potential>
2. http://energyusecalculator.com/electricity_laptop.htm
3. <http://www.usgbc.org/certification>
4. <http://www.enerfusioninc.com>

Appendix

Colleges (32) already using Solar-Dok:

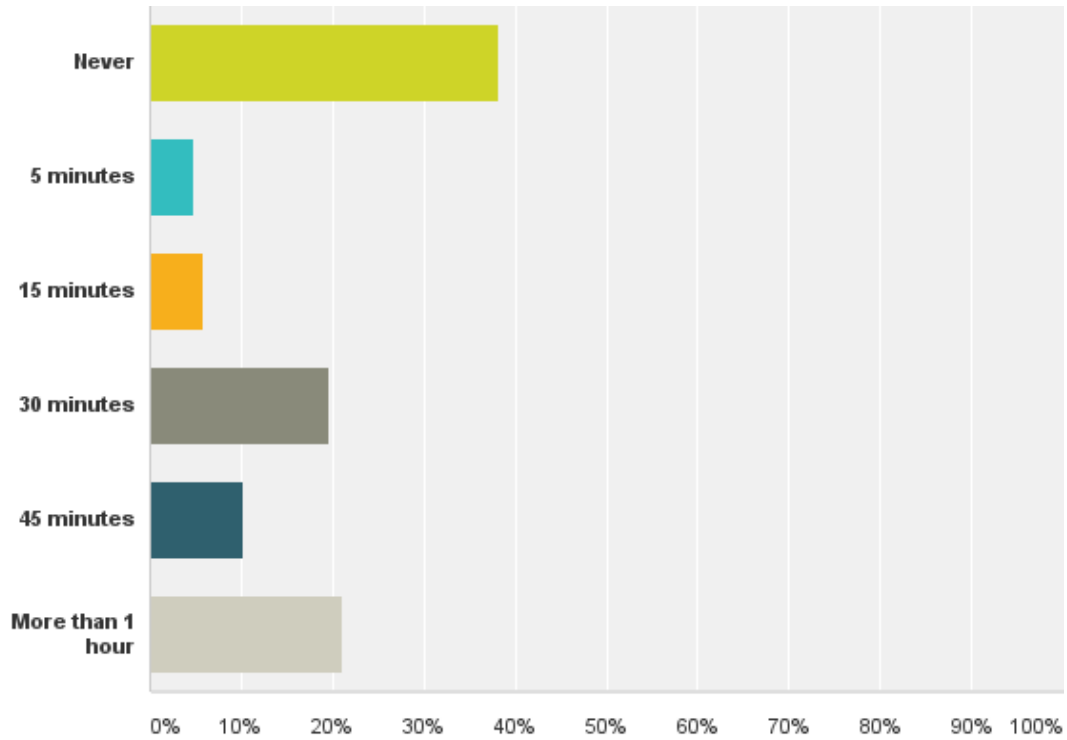
Mount Hood Community College, Boise State, UCLA, Pikes Peak Community College, University of Colorado Springs, Texas A&M, Missouri State University - Springfield, University of Missouri, Southwest Tennessee Community College, Southern Illinois University, Illinois State University, University of Wisconsin Stevens Point, Austin Peay State University, Vanderbilt University, Hope College, Vanderbilt University, Tennessee Tech, Pellissippi State Community College, Maryville College, Oxford College of Emory University, Florida A&M University, George Mason, University of Rochester, Temple University, Essex County College, Queens College, Lehman College, University of Florida, Hillsborough Community college, University of South Florida, Florida Atlantic University, Broward College

Survey Results

204 Virginia Tech students were surveyed using SurveyMonkey, which can be found at <https://www.surveymonkey.com/s/NNNZJMY>. The survey was distributed via social media and in-person in the library. The results show that 61% of students charge their phones on campus. 90% of students charge their laptops on campus. 79% of students would charge their electronics outdoors if the resources were available. And 96% of students believe there should be more solar panels on campus.

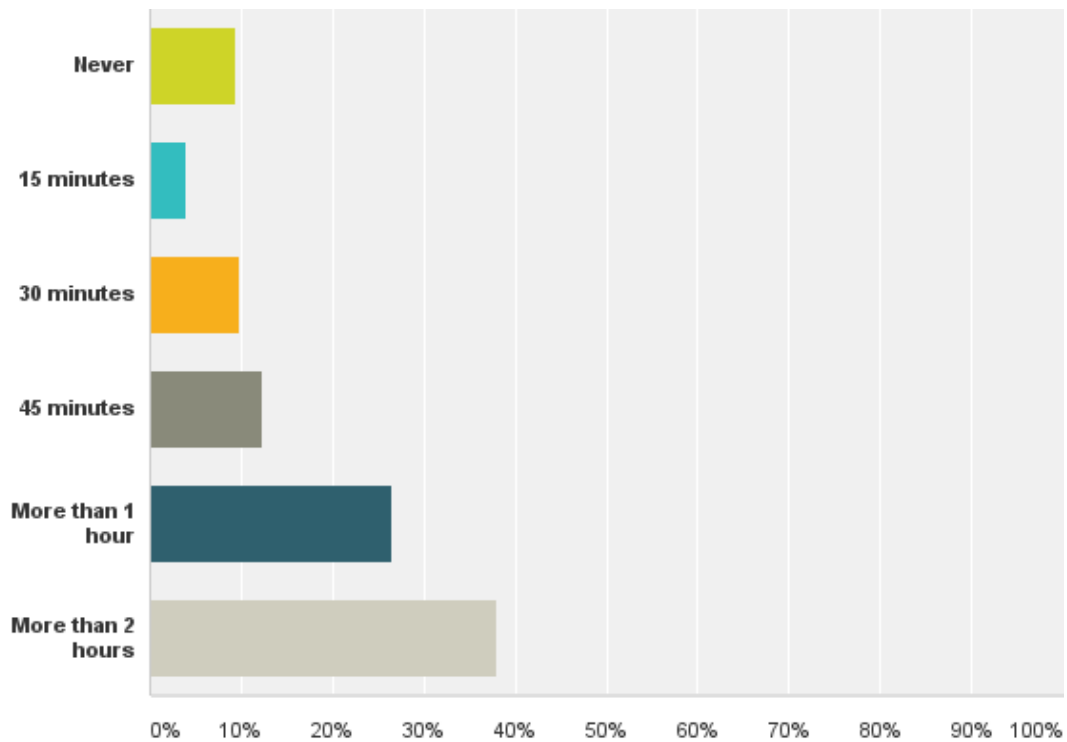
Q1: On an average day, roughly how much do you charge your phone on campus?

Answered: 204 Skipped: 0



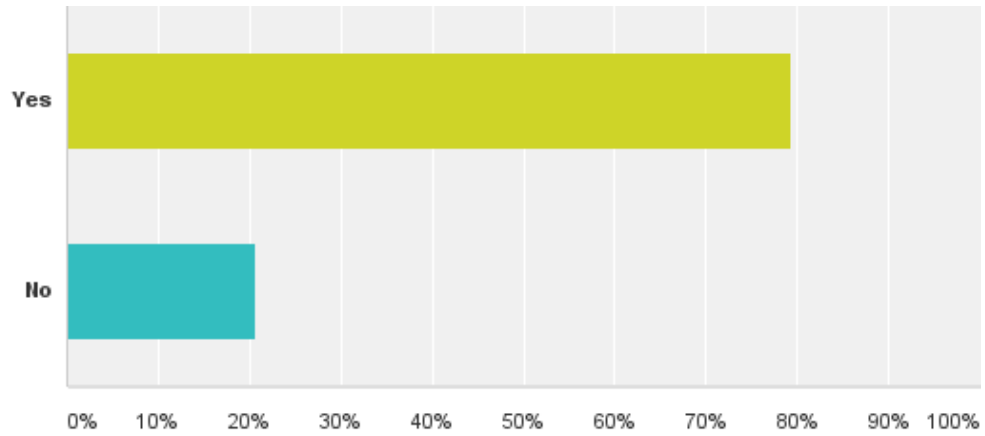
Q2: On an average day, roughly how much do you charge your laptop on campus?

Answered: 203 Skipped: 1



Q3: Would you charge your electronics outdoors if the resources were available on campus

Answered: 204 Skipped: 0



Q4: Do you think there should be more solar panels on campus?

Answered: 202 Skipped: 2

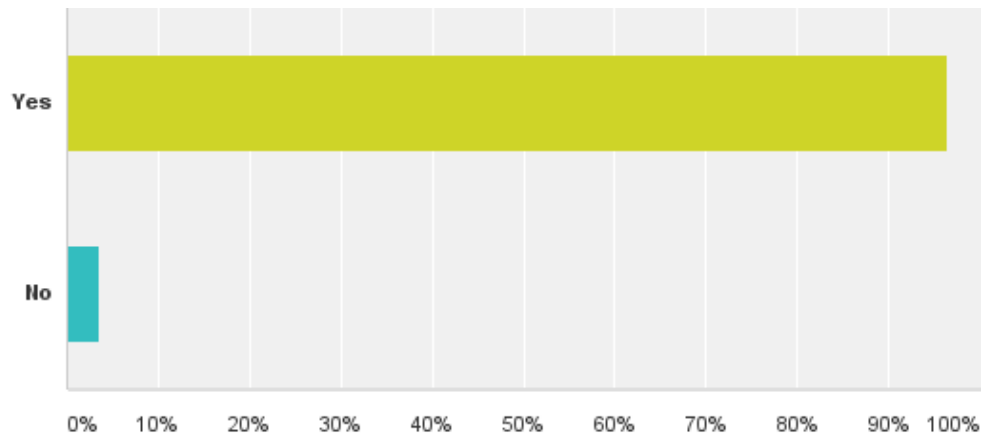




Figure 1.1: Solar-Dok custom Design

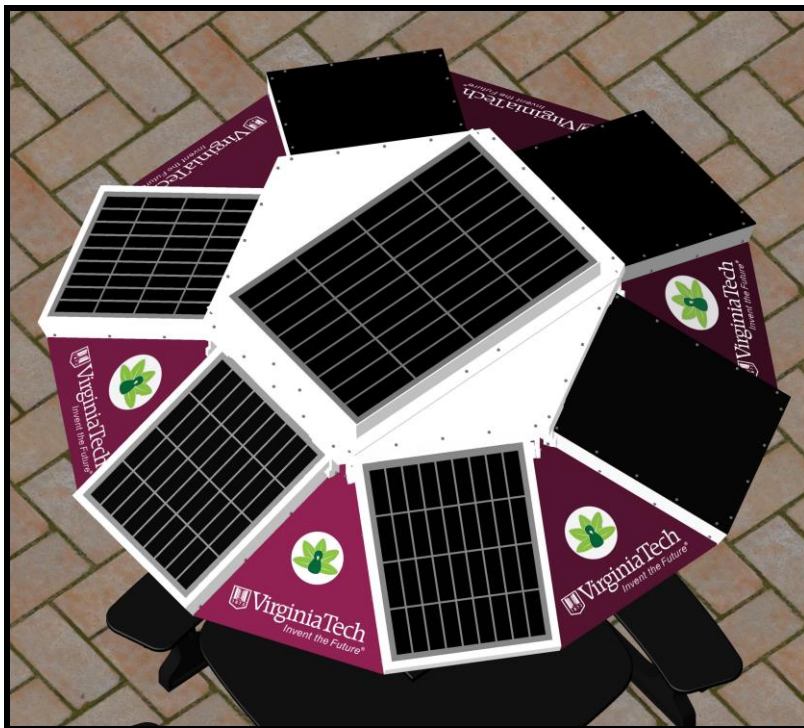


Figure 1.2: Awning Design

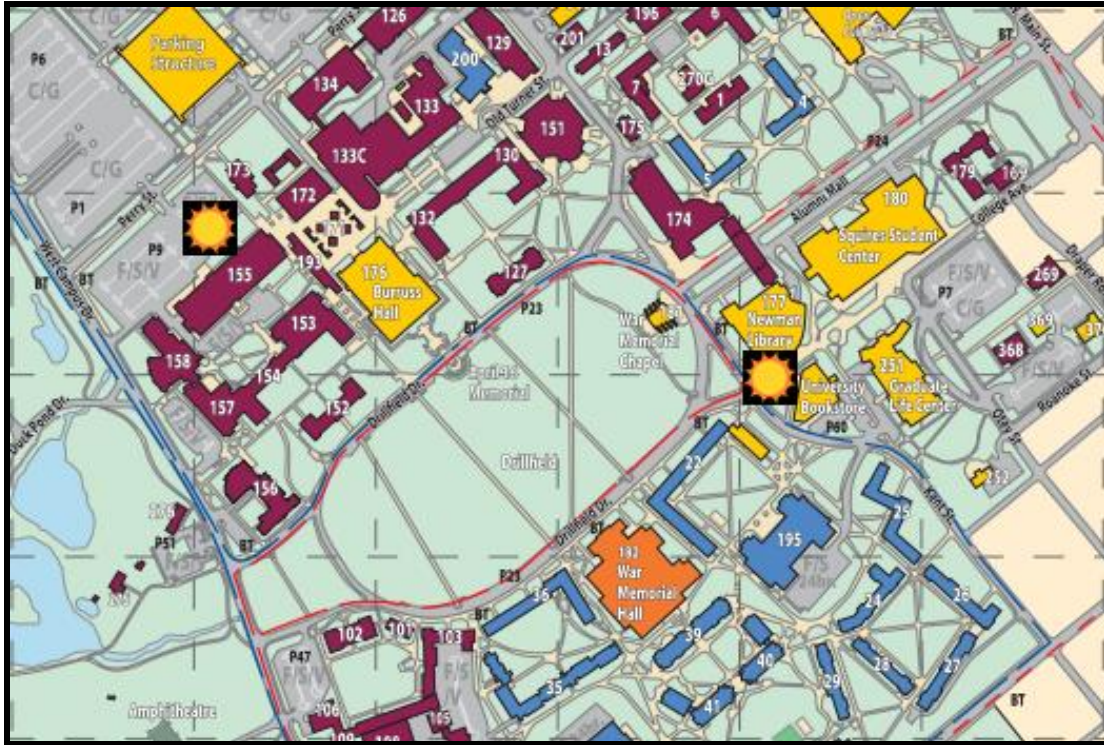


Figure 1.3: Location Map



Figure 1.4: Classroom Building



Figure 1.5: Newman Library