***Winners***

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| ***Undergraduate Project/Research*****Grand Prize:** Isaac Hayes, Western CarolinaEvaluating Recycling in Two Classroom Buildings at Western Carolina University**Honorable Mention:** Shannon Bryson, Western CarolinaPower Output of Flexible Solar Panels |
| ***Graduate Research*** **Grand Prize:** Steven de Jongh, UNC CharlotteTransmission-grid modelling for the prediction of renewable infeed and optimal storage placement**Honorable Mention:** Benjamin Hauck, UNC CharlotteMinimizing life-cycle costs and imbalance of PV-Systems for residential buildings |
| ***PhD Research*****Grand Prize:** Ashfanoor Kabir, NC StateMultilayer AC Winding: Electric Machine Design Approach for Improved Efficiency**Honorable Mention:** Sina Modaresahmadi, UNC CharlotteThe Design of Magnetic Gears for Renewable Energy Applications |
| ***Graduate Project*****Grand Prize:** Sushant Shetgeri, NC StateIntegrated Sustainable Building Design for a Net-Zero Energy Building in Chile**Honorable Mention:** Daniel Pate, UNC WilmingtonDeveloping A Solar Suitability Index for the Wilmington Metropolitan Area Using A Geospatial Multi-Criteria Evaluation |

*Grand Prize = $500, Honorable Mention=$100*

**Thank You Judges!**

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| Lauren BishopGregg MarlandJason HoyleMarie HoepflLiz BowenTracy DixonMike LizotteBob Powell | Jeremy FerrellJay BlauserKathleen StahlJosh BrooksVicki FoustJeff RamsdellBrad IvesJohn BonitzGreg Monty |