Actionable Science for Communities

Innovation and Sustainable Education – SHC 1.63

Brandon Jones, Project Lead, National Center for Environmental Research (NCER)
Cynthia Nolt-Helms, Deputy Project Lead, NCER

Problem Summary & Decision Context

Through SBIR, P3 and Fellowships SHC 1.63:

- Increases competence in scientific, technical, engineering and mathematical (STEM) skills essential to the Nation's future wellbeing;
- Develops technologies for commercialization that will improve our environment, create jobs, increase productivity and economic growth, and improve international competitiveness of the U.S.; and
- Provides opportunities for upcoming generations to investigate the application of sustainability principles to growth.

This type of training is critical for communities to evolve more balanced approaches to interactions with the environment and its associated services.

Utility to Agency?

- As part of the Federal effort to incentivize research and innovation, this project's activities focus on workforce development, innovative research and development and deployment of sustainable technologies within the academic and private sectors.
- Project activities are part of an overall effort to empower communities to utilize more sustainable ideas, designs and ways of living.

One Earth Design's (2008 P3 Winner) SolSource solar cooker designed and built for nomad communities in China, now being marketed in the U.S. for outdoor recreation market.

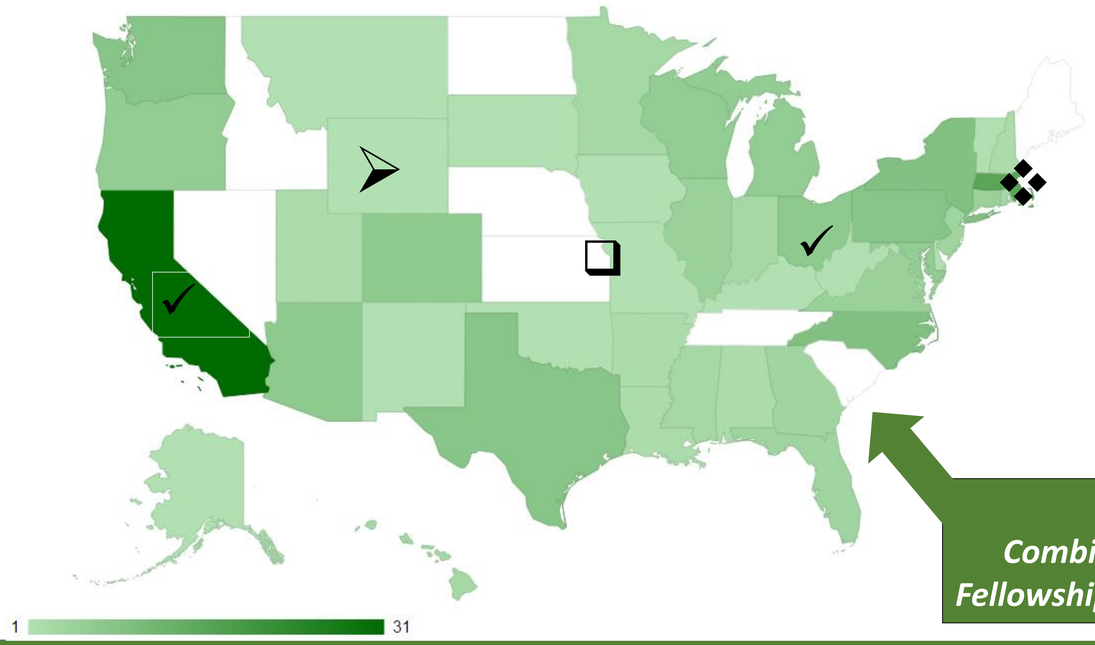
Fellowships, P3 and SBIR Accomplishments

❖ **Air – One Earth Designs (P3)**
SolSource Solar Cook Stoves

❑ **Water – Garrett Price (GRO Fellowship)**
National Rivers and Streams Assessment of Waters in R7

➢ **Tribal – Jason Baldes (STAR Fellowship)**
… improve community and ecological health by reintroduction of Plains Bison to the Wind River Indian Reservation

✓ **Innovation – Lucid Design Group (P3 & SBIR)**
BuildingOS energy management system



2014-15
Combined SBIR, P3 & Fellowship Awards by State

Jason Baldes on the Wind River Indian Reservation

Future Directions

The tasks within the project will continue to:

- adjust their areas of focus in response to the Agency's changing research priorities.
- support economic and workforce growth rooted in environmental technology and innovative research.
- support a coalition of scientists, engineers and policy makers in government, industry, academia, and the non-profit sector for environmentally responsible development;
- promote a public well-educated on its relationship to the environment and contributes to a functional environmental workforce and an environmentally literate society.

Partner Engagement Opportunities

- Seek program and regional individuals to mentor individual projects in annual SBIR and P3 programs.
- Host office sites for GRO internships
- RFA writing teams
- Serve as Programmatic Reviewers