Overview of Photovoltaics Thrusts through SBIR/STTR Program at NSF

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> May 6th, 2010 Golden, CO

SBIR & STTR Programs

SBIR = Small Business Innovation Research

STTR = Small Business Technology Transfer Research

Goal: to enable the commercialization of high-risk, high payoff technologies



NSF SBIR/STTR Innovation Model



NSF SBIR/STTR Investments in PVTechnologiesTotal \$11 million





1991-1995 1996-2000 2001-2005 2006-2010 Fiscal Year

Photovoltaics Thrusts of NSF SBIR/STTR Program (FY 2006-2010)



Some of Our Grantees...



Current Focus of NSF SBIR/STTR Program in PV Technologies

Manufacturing
 Reduce cost/Watt
 Improve manufacturability
 Develop sustainable PV materials & processes





Challenges in Commercialization of PV Technologies by Small Businesses



> Lack of business expertise

Effective Partnerships are Essential to the Commercialization Success of Small Businesses





Commercialization Initiatives of NSF SBIR/STTR Program

- Phase IB and Phase IIB Supplemental programs
 Motivate our grantees to initiate partnerships
 Over 20% of SBIR/STTR funding
- Innovation Accelerator and Match-maker programs
 Provide networking and mentoring opportunities





Thank you

www.nsf.gov/eng/iip/sbir

