

SolarWall Power Tower

CONSERVAL SYSTEMS INC., BUFFALO NY

Project Summary

SolarWall Solar Power Tower is a revolutionary concept which combines the best features of multiple renewable technologies into one Hybrid Energy Tower (HET)

Project will expand upon current developments and patents to complete the HET development, which includes transpired solar air collectors, solar updraft tower, wind downdraft tower, Venturi or diffuser chamber for turbines, ground thermal storage and integration of PV with recovery of wasted PV heat.

GO phase will complete demonstration installation of minimum one 1 MW modular tower system (including PV contribution)



Key Personnel/Organizations

Conserval Systems and SolarWall inventor, John Hollick
Conserval's existing supply chain for SolarWall components
New supply chain required for turbines, tower, PV and grid interconnect equipment

Budget and Timeline

Federal funds: \$Prize Cost-share: \$balance Start immediately

Key Milestones & Deliverables

SET:	Complete design for 1 MW prototype ready to start demonstration project
GO:	One signed contract for minimum 1 MW and one completed demonstration installation

Project Impact

SolarWall Power Tower generates power 24 hours a day with towers 100 feet tall

Scalable from 1 MW to many MW at costs competitive with PV systems

New PV farms can be built to recover thermal energy to increase capacity and operate continuously without battery storage

Potential to displace wind projects



Solar heat producing power in updraft tower assisted by downdraft wind