#### GABRIELLE GIFFFORDS 8<sup>TH</sup> DISTRICT, ARIZONA

WASHINGTON OFFICE: 502 CANNON HOUSE OFFICE BUILDING WASHINGTON, DC 20515

(202) 225-2542

DISTRICT OFFICES:

TUCSON OFFICE 1661 NORTH SWAN, SUITE 112 TUCSON, AZ 85712 (520) 881-3588

COCHISE COUNTY OFFICE 77 CALLE PORTAL, SUITE B-160 SIERRA VISTA, AZ 85635 (520) 459-3115



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## Biography for Barbara D. Lockwood, P.E.

Barbara D. Lockwood is the Manager of Renewable Energy for Arizona Public Service (APS) where she is responsible for APS' renewable energy programs including large-scale generation and customer programs. Ms. Lockwood joined APS in 1999. Ms. Lockwood began her career in the chemical industry at E.I. DuPont de Nemours in various engineering and management roles on the east coast. Subsequent to DuPont, Ms. Lockwood moved into consulting and managed diverse projects for national clients across the United States.

Ms. Lockwood holds a Bachelor of Science in Chemical Engineering from Clemson University and a Master of Science degree in Environmental Engineering from Georgia Institute of Technology. Ms. Lockwood is a registered professional chemical engineer in Arizona and California.