

UNIQUE CONTENT FOR RAG TESTING - PDF FILE

RENEWABLE ENERGY INFRASTRUCTURE PROJECT

Project Manager: Eng. Priya Patel, P.E.

Contract Number: REI-2025-SOLAR-6841

Total Project Value: \$47.3 million USD

Timeline: 18 months (March 2025 - September 2026)

PROJECT SCOPE:

Installation of 150 MW solar photovoltaic array across 400 acres in Riverside County, California. The facility will include:

- 312,000 high-efficiency monocrystalline solar panels
- 85 central inverters with MPPT optimization technology
- 15-mile transmission line connection to Pacific Grid
- Advanced SCADA monitoring and control systems

ENVIRONMENTAL IMPACT ASSESSMENT:

Expected CO2 reduction: 125,000 tons annually

Wildlife mitigation: Desert tortoise relocation program

Water usage: Zero water consumption for panel cleaning

Land restoration: 50 acres set aside for native habitat

KEY STAKEHOLDERS:

Primary Contractor: SolarTech Dynamics Corporation

Electrical Subcontractor: GridWorks Engineering LLC

Environmental Consultant: EcoScope Environmental Services

Utility Partner: California Independent System Operator

PERFORMANCE GUARANTEES:

Minimum annual energy yield: 285 GWh

System degradation rate: <0.5% per year

Availability guarantee: 98.5% uptime

Warranty period: 25 years on panels, 10 years on inverters

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This PDF contains specific renewable energy project information retrievable through RAG queries about Eng. Priya Patel, solar installations, SolarTech Dynamics, or contract REI-2025-SOLAR-6841.