Statement of Work (SOW)

Project Title: Solar Energy Community Management System

Date: March 20, 2025

1. Introduction:

This Statement of Work (SOW) defines the objectives, scope, deliverables, timeline, and

responsibilities for the development and implementation of a Solar Energy Community Management

System. The purpose of this system is to manage solar energy production, consumption,

distribution, and community participation effectively.

2. Objectives:

- Provide a centralized platform to monitor solar energy production & consumption.

- Manage user accounts and energy credits within a community.

- Facilitate peer-to-peer (P2P) energy trading between community members.

- Offer detailed analytics, reporting, and real-time dashboards.

- Ensure data security, scalability, and regulatory compliance.

3. Scope of Work:

3.1 Features:

- User Management:

- Registration/Login (Admin, Residents, Utility Providers)

- Role-based access control

- Energy Monitoring:

- Real-time solar energy production tracking

- Consumption data visualization

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- Grid connection status - Credit System: - Energy credit allocation - P2P energy trade facilitation - Community Dashboard: - Energy production, consumption, trading insights - CO2 savings & sustainability metrics - Billing & Payment Integration - Notification System: - Alerts for system status, trades, billing - Mobile & Web Access: - Responsive UI for all devices - Reports & Analytics: - Monthly/Annual energy reports - Custom reporting options - Admin Portal: - Manage community settings, users, tariffs 4. Deliverables: - Requirements Specification Document (Week 2) - Wireframes & UI/UX Design (Week 4) - Prototype (Week 6) - Development Phase (Week 12) - Testing & QA (Week 14)

- Deployment (Week 16)

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- Documentation (Week 16)
- Maintenance Plan (Ongoing)

5. Timeline:

Start Date: April 1, 2025

End Date: July 15, 2025

6. Responsibilities:

- Client: Provide requirements, approvals, access to infrastructure
- Development Team: Design, development, testing, deployment
- QA Team: Testing and validation
- Support Team: Post-deployment maintenance

7. Assumptions & Constraints:

- Client will provide access to energy meters & APIs.
- Cloud hosting costs are covered by the client.
- Regulatory compliance advice is provided by the client.

8. Payment Terms:

- 20% on project initiation
- 30% upon prototype delivery
- 30% after UAT completion
- 20% after deployment