# Schema Markup Implementation Directory

This directory contains structured data markup for all four pillar pages to ensure optimal AI platform optimization and search engine understanding.

## Schema Files

### Generator Schema (generator\_schema.json)

**Focus**: Product schema for generator equipment and services

**Key Elements**:

* Product specifications (power capacity, fuel type, certifications)
* Service areas and emergency response capabilities
* Pricing and rental information structure
* Technical certifications and compliance markers

### Hybrid Lighting Schema (hybrid\_lighting\_schema.json)

**Focus**: Product and environmental benefit schema

**Key Elements**:

* Hybrid technology specifications and fuel efficiency data
* Environmental impact metrics and certifications
* Service applications (events, construction, industrial)
* Performance specifications and weather resistance ratings

### Tank Storage Schema (tank\_storage\_schema.json)

**Focus**: Safety compliance and fuel management system schema

**Key Elements**:

* Safety certification and compliance standards
* Fuel management system capabilities and specifications
* Integration compatibility with power generation equipment
* Australian regulatory compliance markers

### Load Bank Testing Schema (load\_bank\_testing\_schema.json)

**Focus**: Testing service and technical validation schema

**Key Elements**:

* Testing methodology and equipment specifications
* Certification and validation service capabilities
* Technical compliance and standard adherence
* Equipment compatibility and testing parameters

## Schema Implementation Requirements

### Core Schema Types

* **Organization**: Green Power Solutions business entity
* **Product**: Individual equipment and service offerings
* **Service**: Technical services and support capabilities
* **LocalBusiness**: Australian service coverage and locations
* **Review**: Customer testimonials and case study integration

### Technical Specifications

* **JSON-LD Format**: All schema in JSON-LD structure for optimal parsing
* **Schema.org Compliance**: Full adherence to Schema.org vocabulary
* **Rich Snippets Optimization**: Structured for enhanced search results
* **AI Platform Ready**: Optimized for AI assistant and chatbot understanding

### Cross-Pillar Integration Elements

* **sameAs** properties linking related equipment and services
* **relatedLink** connections between complementary solutions
* **partOf** relationships for complete power solution packages
* **additionalProperty** specifications for technical cross-references

## Implementation Timeline

**Days 9-11**: Primary schema development and technical specification encoding

**Days 12-13**: Cross-pillar integration elements and relationship mapping

**Day 14**: Final validation and AI optimization verification

## Quality Assurance

* [ ] Schema validates against Schema.org standards
* [ ] JSON-LD syntax verification completed
* [ ] Cross-pillar relationship accuracy confirmed
* [ ] AI platform optimization requirements fulfilled
* [ ] Rich snippet preview testing completed

**Schema Specialist**: Assigned for development and implementation oversight

**Validation Tools**: Schema.org validator, Google Rich Results Test

**Review Protocol**: Technical accuracy verification with content specialists