# **SolarFactsNW Windows Installer Package**



### Package Overview

This package contains everything needed to create a professional Windows EXE installer for Solar-FactsNW using Inno Setup. The installer targets Windows 10/11 x64 systems and provides a complete installation experience with Node.js detection, configuration preservation, and proper Windows integration.

# **©** Key Features

# 🔽 Complete Installation System

- Professional UI: Modern wizard-style interface with resizable windows
- Smart File Handling: Copies all necessary files while excluding development artifacts
- Configuration Preservation: Keeps existing .env.local files during updates
- Windows Integration: Creates Start Menu shortcuts, optional desktop shortcuts
- Clean Uninstall: Removes all files while preserving user configurations

# Node.js Integration

- Version Detection: Automatically detects installed Node.js version
- Compatibility Check: Warns if Node.js version is below 14.0
- Graceful Handling: Allows installation to continue with user confirmation
- Registry Scanning: Checks both system-wide and user-specific Node.js installations

# Professional Polish

- Versioned Output: Creates | SolarFactsNW-Setup-v1.0.0.exe
- License Integration: Displays MIT license during installation
- Comprehensive Documentation: Includes detailed readme with setup instructions
- Metadata Complete: Full version info, company details, and descriptions

# 📁 Package Contents

File	Purpose	Size
SolarFactsNW.iss	Main Inno Setup script with all configurations	12K
license.txt	MIT license displayed during installation	4K
readme.txt	User documentation shown before installation	4K
start_solarfactsnw.bat	Windows launcher script with error handling	4K
BUILD_INSTRUCTIONS.txt	Complete compilation and testing guide	8K
IN- STALLER_PACKAGE_SUMMARY.md	This overview document	-

# Quick Start Guide

### For Developers (Creating the Installer)

#### 1. Install Inno Setup

Download from: https://jrsoftware.org/isinfo.php Install version 6.x or later

#### 2. Prepare Files

Copy this dist/ folder to your Windows PC Place inside your SolarFactsNW project directory

#### 3. Compile Installer

Open Inno Setup Compiler Load: SolarFactsNW.iss Press F9 to compile

Output: SolarFactsNW-Setup-v1.0.0.exe

# For End Users (Installing SolarFactsNW)

#### 1. Run Installer

- Double-click SolarFactsNW-Setup-v1.0.0.exe
- Follow the installation wizard
- Choose installation options

### 2. Complete Setup

cd "C:\Program Files\SolarFactsNW"

npm install

#### 3. Launch Application

- Use desktop shortcut (if created)
- Or Start Menu → SolarFactsNW



# Technical Specifications

### **System Requirements**

- **OS**: Windows 10/11 (64-bit)
- Runtime: Node.js 14.0+ (detected automatically)
- Memory: 4GB RAM minimum
- Storage: 500MB free space
- Network: Internet connection for full functionality

#### Installation Details

- Target Directory: C:\Program Files\SolarFactsNW
- Shortcuts: Start Menu + optional Desktop
- Registry: Proper Windows integration for Add/Remove Programs
- Permissions: Requires Administrator privileges for installation

### File Handling

- Included: All source files, documentation, scripts
- Excluded: node\_modules/ , .git/ , dist/ , temporary files
- Preserved: .env.local configuration files
- Generated: Windows-compatible launcher script



# Security & Reliability

### **Code Signing Ready**

The installer is prepared for code signing with:

- Complete version information
- Publisher details
- Professional metadata
- Digital signature support (certificate required)

### **Error Handling**

- Node.js Missing: User-friendly warning with options to continue
- Version Conflicts: Clear messaging about compatibility requirements
- Permission Issues: Proper elevation requests and error messages
- Installation Failures: Detailed logging and rollback capabilities

### Update Support

- In-Place Updates: Preserves user configurations during upgrades
- Version Detection: Handles existing installations gracefully
- Backup Strategy: Protects user data during update process

# Testing Checklist

Before distributing the installer, verify:

- [ ] Installer compiles without errors
- [ ] Installation completes on clean Windows system
- [ ] Node.js detection works correctly
- [ ] Start Menu shortcuts function properly
- [ ] Desktop shortcut works (if selected)
- [ ] Application launches after installation
- [] npm install completes successfully
- [ ] Configuration files are preserved during updates
- [ ] Uninstaller removes all files except user configs
- [ ] Windows Add/Remove Programs integration works

# 🔄 Customization Guide

### **Version Updates**

```
#define MyAppVersion "1.0.0" ; Update this line
```

### **Company Branding**

```
#define MyAppPublisher "Your Company Name"
#define MyAppURL "https://your-website.com"
```

### **Node.js Requirements**

```
const MinNodeVersion = '14.0.0.0'; ; Minimum required version
```

### **Installation Directory**

```
DefaultDirName={autopf}\{#MyAppName} ; Default: Program Files
```

# Support Information

#### For Installation Issues

- Check BUILD INSTRUCTIONS.txt for detailed troubleshooting
- Verify Node.js installation and version
- Run installer as Administrator if needed
- Review Windows Event Logs for detailed error information

### For Application Issues

- Visit: https://github.com/solarfactsnw/solarfactsnw
- · Check existing issues or create new ones
- Include installer version and system information

### **For Development Questions**

- Review Inno Setup documentation: https://jrsoftware.org/ishelp/
- Check Pascal scripting reference for advanced customizations
- Test changes on clean Windows systems before distribution

# Success Metrics

This installer package delivers:

✓ Professional Experience: Modern UI with proper Windows integration

**▼ Robust Installation**: Handles edge cases and provides clear feedback

✓ User-Friendly: Clear documentation and intuitive setup process

**Developer-Ready**: Complete build instructions and customization options

▼ Enterprise-Quality: Code signing ready with comprehensive metadata

**Package Created**: July 28, 2025 **Inno Setup Version**: 6.x compatible **Target Platform**: Windows 10/11 x64

Package Version: 1.0.0