

Growatt Monitor

Growatt Devices Monitor

Growatt Devices Monitoring System Documentation

May 02, 2025

Version 1.0

Growatt Devices Monitor

A web application for monitoring Growatt solar devices and energy production.

Setup

Prerequisites

- Python 3.7+
- Node.js 14+ and npm

Installation

1. Clone the repository

```
git clone <repository-url> cd growatt-devices-monitor
```

1. Set up Python environment

```
python -m venv venv source venv/bin/activate # On Windows: venv\Scripts\activate pip install -
```

1. Install Node.js dependencies

```
npm install
```

1. Build the CSS `npm run build:css`

Development

Run the development server:

```
flask run
```

Watch for CSS changes:

```
npm run watch:css
```

Or run both simultaneously:

```
npm run dev & flask run
```

Features

- Real-time monitoring of solar energy production
- Device status tracking
- Energy analytics and data visualization
- Weather data integration
- Interactive maps of solar installations

Technology Stack

- Flask (Python web framework)
- Tailwind CSS (Utility-first CSS framework)
- Alpine.js (JavaScript framework)
- Chart.js (JavaScript charting library)

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