Growatt Monitor

1. Growatt Devices Monitor

Growatt Devices Monitoring System
Documentation

May 03, 2025

Version 1.0

2. Growatt Devices Monitor

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

2.1 Setup

2.1.1 Prerequisites

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

2.1.2 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 i
```

1. Install Node.js dependencies

```
npm install
```

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

2.1.3 Development

Run the development server:

```
flask run
```

Watch for CSS changes:

```
npm run watch:css
```

Or run both simultaneously:

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

2.2 Features

• Real-time monitoring of solar energy production

• Device status tracking

• Energy analytics and data visualization

• Weather data integration

• Interactive maps of solar installations

2.3 Technology Stack

• Flask (Python web framework)

• Tailwind CSS (Utility-first CSS framework)

• Alpine.js (JavaScript framework)

• Chart.js (JavaScript charting library)