

# EcoShower Admin Guide

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## Overview

The **Admin Panel** provides centralized management for the EcoShower system. It allows administrators to view system-wide statistics, manage users, and monitor device activity.

**Prerequisite:** You must be logged in with an account that has the **admin** role.

## Accessing the Panel

1. Log in to the application.
2. If you are an admin, a "**Admin Dashboard**" link (Shield icon) will appear in the navigation.
3. Click it to enter the admin area.

## Dashboard Stats

The top section displays real-time system totals:

- **Users:** Total registered accounts.
- **Devices:** Total smart devices registered.
- **Showers:** Total completed shower sessions across all users.
- **Liters Used:** Total water consumption tracked by the system.

## Activity Chart

- "**All Time Activity**": A line chart showing daily trends.
  - **Green Line:** Number of Showers.
  - **Blue Line:** Water Used (Liters).
- Hover over points to see exact numbers for a specific date.

## User Management

The **Users Table** lists all registered accounts.

### Columns

- **Name:** User's display name.
- **Email:** Registered email address.
- **Role:** **Admin** (Purple) or **User** (Gray).
- **Devices:** Count of devices owned.
- **Showers:** Count of sessions completed.
- **Actions:** Controls for managing the user.

### Actions

1. **Promote/Demote:**
  - Click the **Blue Shield** icon to **Promote** a User to Admin.

- Click the **Orange Shield** icon to **Demote** an Admin to User.
- *Note:* This updates their permissions immediately.

## 2. Delete User:

- Click the **Red Trash** icon.
- Confirm the dialog ("Are you sure you want to delete...?").
- *Warning:* This permanently removes the user, their devices, and history from the database and Cognito.

## Troubleshooting

- **Data Not Loading?**: Click the **Refresh** icon in the top right corner.
- **Role Not Updating?**: Ensure the backend Lambda functions ([EcoShower-API](#)) have the correct IAM permissions for Cognito.