

# CPUC ACC: Integrated Generation Capacity & GHG Avoided Cost Calculation

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This repository contains the proposed methodology for calculating Generation Capacity & GHG Avoided Costs as part of the California Public Utilities Commission (CPUC) Integrated Distributed Energy Resources (IDER) 2024 Avoided Cost Calculator (ACC) Staff Proposal. For more information, see the staff proposal & workshop materials on the [CPUC website](#) (see the section called "2024 ACC Update Staff Proposal (R.22-11-013, Track 1)").

## Quick Start

*Note: This quick start guide assumes you have already downloaded a zip file of the code from the CPUC IRP website.*

### 1. Install Python via Anaconda

We recommend using the [Anaconda](#) Python distribution and package manager. During the installation process, we recommend selecting the **"Add Anaconda to my PATH environment variable"** option so that we have easy access to the `conda` command from the command line.

If you run into any `conda not recognized` or `command not found: conda` messages in the command line in the following steps, this means that you **did not** add Anaconda to your PATH. You can either rerun the installer (easiest) or manually add Anaconda to your PATH (see [these instructions](#) for some help).

### 2. Set Up a `conda` Environment

We will use the `conda` command to create an isolated virtual environment for this example code to run within, without disturbing any other Python packages you may have already installed (see the [conda documentation](#) for more details on conda environments).

To create the `conda` environment, we will use the `environment.yml` file at the top level of the repository. Open a [Command Prompt window and navigate to this folder \(the "acc-cpuc" folder\)](#). More experienced users may use a different terminal (e.g., PowerShell, Terminal on macOS).

Use the following command to create the `conda` environment:

```
conda env create -f environment.yml
```

## 2. Activate the **conda** Environment

In the same Command Prompt window, use the following command to activate the **conda** environment:

```
conda activate e3-acc
```

### macOS or Linux Users

If you are on a Mac or Linux computer, you will need to do one extra installation step. Run the following command

```
conda install -c conda-forge coincbc
```

## 3. Run the ACC Calculation

In the same Command Prompt window, run the following command:

```
e3-acc-cpuc
```

This will load the included input data from `./data/processed/07012023_staff_proposal` and report results to `./results/07012023_staff_proposal/`.