

CPUC ACC: Integrated Generation Capacity & GHG Avoided Cost Calculation

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

1. Download a Copy of this Code

Click [this link](#) to download a zip file of this code. Unzip the folder anywhere on your computer.

Note: This quick start guide assumes that you want to quickly download to code. More experienced users may want to use [git](#) to clone this repository, but that will not be discussed here.

2. Install Python via Anaconda & Set Up a [conda](#) Environment

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 add either rerun the installer (easiest) or manually add Anaconda to your PATH (see [these instructions](#) for some help).

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. Use the following command to create the [conda](#) environment

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).

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

2. Activate the **conda** Environment

From the same Command Prompt window, 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/`.