EnergySHR

EnergySHR Portal v4

Running an Algorithm on a Selected Dataset

Manual

Prerequisite

Follow the previous tutorials about publishing a dataset and algorithm. Make sure to publish a dataset with compute access.

Allowing Algorithms to run on a dataset is always managed from the dataset side. Typically the dataset is the asset to be protected from external parties as the dataset might be sensitive in nature. In order to allow algorithms to run on your dataset you will have to edit an existing dataset with compute access type. You cannot run algorithms via the portal on download datasets!

Edit the Dataset

- Click on Edit Asset

- Select the EDIT COMPUTE SETTINGS tab
- Check the algorithm(s) that you want to run on the dataset
- Click on Submit

Edit SmartMeter Energy Consumption Data in London Households

Updating metadata or updating compute settings will create an on-chain transaction you have to approve in your wallet.

EDIT METADATA **EDIT COMPUTE SETTINGS**

Set allowed algorithms

Only the algorithms selected here will be allowed to run on your dataset. Uncheck all to remove any access to your dataset.

Selected Algorithms ⓘ

Search by title, datatoken, or DID...

☑ **London generator** ↗
ESHR | did:op:d9074c129afb2b336642497d5bbd71d44ea3048918813cccdf181e137061e946
Free

☐ **Road Damage Detection (FREE)** ↗
HURPEN-1 | did:op:b4be1f60c197890bfebc041e66731a2c6f98f520169a9f38173c19e29353b4d0
Free

☐ **Smart EV Garage Status Aggregation** ↗
GXAT | did:op:604af1448fd5c99d5e4839da4f6e280056be74defd206a29307cc68ea464557f
1

☐ **Traffic Object Annotation for Highway Image Data** ↗
GXAT | did:op:87b0133e6979419919d8526e3bac2604bd8b04d0fca43e21fb3fde67497a7860
5

☐ **Object Detection for the Future Mobility Marketplace** ↗
GXAT | did:op:4f9cb117942be07c07e4afaf69ae2bb7a8e914edbcfa68b13008c357ae4afe26
5

☐ **Test algoritme count lines** ↗
ESHR | did:op:34caadcb3f3dcababc97a622c8eeff438a6f0c60d0c7a303aa39ec52a69574eb
Free

☐ **Test algoritme** ↗
ESHR | did:op:663847c9456c1da98e6d7ee9b7b3ae3f04e63e02ff8a8362d107ea3fcaadc9b0
Free

☐ **Load profile diversity calculator (C2D)** ↗
ESHR | did:op:c5ce765375c5da4f0e8842fd449194319d858eed654365d30c7f3ba77b56d243
Free

All Algorithms ⓘ

☐ Allow any published algorithm

Submit   CANCEL

- If everything goes well a success message will be displayed

Edit SmartMeter Energy Consumption Data in London Households

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EDIT METADATA **EDIT COMPUTE SETTINGS**

🎉 Successfully updated. 🎉

Updates might not show up right away on your asset. In this case, wait some seconds and reload your asset details page in your browser.

Back to Asset

Run the algorithm on the dataset

- Go back to the edited asset details page
- The algorithm(s) that you attached to the dataset should be available for selection now
- Select the algorithm using the radio button
- Click on Order Compute Job

SmartMeter Energy Consumption Data in London Households

GEN-X Testnet

Owned by 0xDa4fc9E82Ac4E44207a1f74137493D3437D80761
Accessed with ESHR ↗

DATASET | Published about 8 hours ago

Energy consumption readings for a sample of 5,567 London Households that took part in the UK Power Networks led Low Carbon London project between November 2011 and February 2014.

Readings were taken at half hourly intervals. The customers in the trial were recruited as a balanced sample representative of the Greater London population.

The dataset contains energy consumption, in kWh (per half hour), unique household identifier, date and time. The CSV file is around 10GB when unzipped and contains around 167million rows.

Within the data set are two groups of customers. The first is a sub-group, of approximately 1100 customers, who were subjected to Dynamic Time of Use (dToU) energy prices throughout the 2013 calendar year period. The tariff prices were given a day ahead via the Smart Meter IHD (In Home Display) or text message to mobile phone. Customers were issued High (67.20p/kWh), Low (3.99p/kWh) or normal (11.76p/kWh) price signals and the times of day these applied. The dates/times and the price signal schedule is availaible as part of this dataset. All non-Time of Use customers were on a flat rate tariff of 14.228pence/kWh.

The signals given were designed to be representative of the types of signal that may be used in the future to manage both high renewable generation (supply following) operation and also test the potential to use high price signals to reduce stress on local distribution grids during periods of stress.

USE

plain
32 B
url   Free

Select an algorithm to start a compute job

Search by title, datatoken, or DID...

○ London generator ↗   Free
   ESHR | did:op:d9874c129afb2b336642497d5b6d71d44ea...

You will pay **0** OCEAN &**0** EUROe ⓘ

Start Compute Job

You bought this dataset already allowing you to use it without paying again. You already bought the selected algorithm, allowing you to use it without paying again. The C2D resources required to start the job are available, no payment is required for them. Please note that network gas fees still apply, even when using free assets.

Your Compute Jobs   Show ⌄

- If everything goes well you should see a status indicator and afterwards a success message will be displayed

SmartMeter Energy Consumption Data in London Households

GEN-X Testnet

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The remaining sample of approximately 4500 customers energy consumption readings were not subject to the dToU tariff.

More information can be found on the Low Carbon London webpage

USE

plain
32 B
url

Free

Select an algorithm to start a compute job

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○ London generator ↗
ESHR | did:op:d9874c129afb2b336642497d5bbd71d44ea... Free

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Your job started successfully! Watch the progress below or on your profile.

Your Compute Jobs   Show ⌄

- As the message says you can click the "Show" link on the "Your Compute Jobs" section or visit your profile → Compute Jobs to watch the progress

- After it finishes, click on Show Details and get the results