

Table 1- Requests VS Responses in OpenCEMS

cURL ¹ Request	Server Response
curl ResourceDescriptionURI (e.g., curl http://51.77.148.187:5001/resourceDescription/getAirTemperature.md)	The corresponding hydra-based resource description expressed in JSON.
Curl -d '{"K": "number of candidate resources", "operation": "user requested function", "Qres": ["Dynamicity: min-max", "Availability: min-max"], "Qf": ["Cost: min-max", "Usage: min-max"], "url": ["The resources URLs pointed by the indexing schema from which the resource discovery will start crawling the resource graph to identify the necessary resources"]}' -H "Content-Type: application/json" -X POST ResourceDiscoveryURI (e.g., Curl -d '{"K": "1", "operation": ["EDP"], "Qres": ["Dynamicity: 0-1", "Availability: 0-95"], "Qf": ["Cost: 0-70", "Usage: 2-80"], "url": ["http://51.77.148.187:5001/resource/getairtemperature", "http://51.77.148.187:5001/resource/getclimtemperature"]}' -H "Content-Type: application/json" -X POST http://51.77.148.187:5001/resource/discovery)	The set of resource URIs that form the required composition(s) answering user requested function. (e.g., [['http://localhost:5000/resource/getairtemperature', 'http://localhost:5000/resource/getclimtemperature', 'http://localhost:5000/resource/missvaldetection', 'http://localhost:5000/resource/missvalinterpolation', 'http://localhost:5000/resource/outvaldetection', 'http://localhost:5000/resource/outvalinterpolation', 'http://localhost:5000/resource/predheatengcons'])]

¹ **client URL**, is a command-line tool for getting or sending data to a server including files using URI syntax

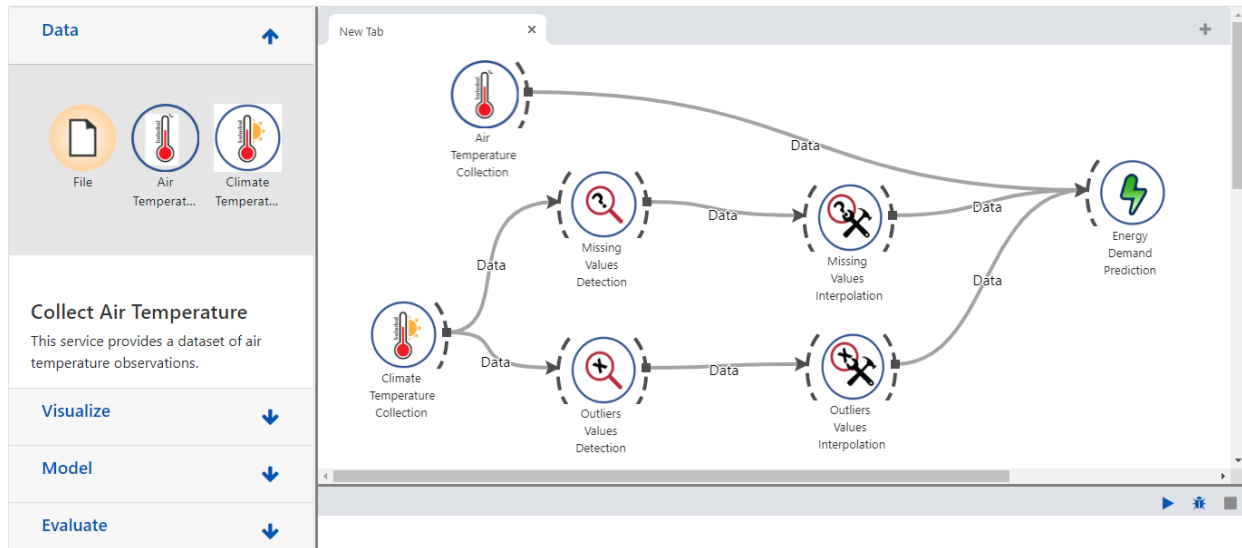


Figure 1- Visual representation of a resource composition obtained in OpenCEMS