



## HELIX API Documentation

Are you an audit software provider and are you interested in using the audit information to create local scorecards and labels? If so, use the HELIX API and HELIX will generate the label for you.

The HELIX API is an XML-based API that provides access to home labelling and solar information as well as state and local profile and scorecard generation services. By using the HELIX API, you agree to the HELIX Terms of Use.

### Getting Started

To sign up for a developer account, please contact [HELIX@neep.org](mailto:HELIX@neep.org) to obtain your credentials. When first logging into HELIX, read the Terms of Use and make sure your integration adheres to the fine print.

### Making API Requests

Once you've received your login credentials and API key, you can make requests. Make sure to include your authentication credentials in all requests. For example, set up a curl request with:

```
curl -u email:API_KEY http://helix.neep.org/...
```

The HELIX API Web Service is located at: <http://helix.neep.org/helix>

### Retrieve Home Information by Building ID or Parcel ID

To retrieve individual home data by internal HELIX property ID

API Endpoint: <http://helix.neep.org/helix/helix-reso-export-xml/>

Sample Request: [http://helix.neep.org/helix/helix-reso-export-xml/?property\\_id=6071](http://helix.neep.org/helix/helix-reso-export-xml/?property_id=6071)

#### Request Parameters:

Parameter	Value	Required?
property_id	Internal HELIX property identifier	Yes

Response: RESO XML formatted property information. Please see the Real-Estate Standards Organization for a detailed description of response fields: <https://www.reso.org/data-dictionary/>

To retrieve individual home data by parcel identifier

API Endpoint: <http://helix.neep.org/helix/helix-reso-export-xml/>

Sample Request: [http://helix.neep.org/helix/helix-reso-export-xml/?property\\_uid=051-039000&postal\\_code=05602](http://helix.neep.org/helix/helix-reso-export-xml/?property_uid=051-039000&postal_code=05602)

**Request Parameters:**

Parameter	Value	Required?
property_uid	External property parcel ID	Yes
postal_code	5-digit postal code of the property	Yes

Response: RESO XML formatted property information

**Retrieve Home Information by Address**

API Endpoint: [http://helix.neep.org/helix/helix-reso-export-xml/?street=123 Main St&city=Montpelier&state=VT&postal\\_code=05602](http://helix.neep.org/helix/helix-reso-export-xml/?street=123%20Main%20St&city=Montpelier&state=VT&postal_code=05602)

Parameter	Value	Required?
street	The street address of the property. This string should be URL encoded.	Yes
city	The city of the property. This string should be URL encoded.	Yes
postal_code	The 5-digit postal code of the property	Yes
state	The 2-letter state code of the property	Yes

Response: RESO XML formatted property information

**Generate Massachusetts Scorecard**

An official version of the Massachusetts Scorecard can be generated with the HELIX API.

API Endpoint: <http://helix.neep.org/helix/massachusetts-scorecard/>

**Request Parameters:**

Parameter	Value	Required?
property_id	Internal HELIX property identifier	No
address_line_1	The street address of the property. This string should be URL encoded.	Yes



address_line_2	Unit or apartment number if not included in address line 1. This string should be URL encoded.	No
city	The city of the property. This string should be URL encoded.	Yes
postal_code	The 5-digit postal code of the property	Yes
state	The 2-letter state code of the property	Yes
reference_id	Unique identifier for audit	No
fuel_oil	Cost of fuel oil in \$/gallon	Required if home has oil heating
natural_gas	Cost natural gas in \$/therm	Required if home has natural gas heating
wood	Cost of cord wood in \$/cord	Yes if cord wood heat
pellets	Cost of wood pellets in \$/ton	Yes if pellet wood heat
propane	Cost propane in \$/gallon	Yes if propane heat
primary_heating_fuel_type	In: 'Fuel Oil', 'Propane', 'Electric', 'Propane', 'Natural Gas', 'Pellets', 'Wood'	Yes
conditioned_area	Conditioned area of the home in square feet	Yes
year_built	Year of construction of the home	Yes
Number_of_bedrooms	Number of bedrooms	Yes
Name	Name of home energy inspector/auditor	Yes
green_assessment_property_date	Date of home energy inspection	Yes



total_energy_cost_base	Total energy costs in \$/year	Yes
total_energy_cost_improved	Total energy costs after improvements in \$/year	Yes
total_energy_usage_base	Total energy consumption in therms/year	Yes
total_energy_usage_improved	Total energy consumption after improvements in therms/year	Yes
electric_energy_usage_base	Total electric consumption in kwh/year	Yes
fuel_energy_usage_base	Base fuel consumption in therms/year	Yes unless specific fuel consumption provided
fuel_oil_energy_usage_base	Fuel oil energy consumption in gal/year	Not if fuel usage provided
natural_gas_energy_usage_base	Natural gas energy consumption in therms/year	Not if fuel usage provided
wood_energy_usage_base	Wood energy consumption in cords/year	Not if fuel usage provided
pellets_energy_usage_base	Wood pellet energy consumption in lb/year	Not if fuel usage provided
propane_energy_usage_base	Propane energy consumption in gal/year	Not if fuel usage provided
co2_production_base	Carbon dioxide equivalent emissions in tons/year	Yes
co2_production_improved	Carbon dioxide equivalent emissions after improvements in tons/year	Yes
base_score	Base home energy score value	No
improved_score	Home energy score value after improvements	No
url	Public link to Massachusetts Scorecard	No
Status	In: 'Test', 'Draft', 'Preliminary', 'Final'	Yes



reference_id	Internal Audit Reference Identifier	No
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**Response Values:**

Parameter	Value
url	Public link to Massachusetts scorecard
Status	Scorecard status: 'Test', 'Draft', 'Preliminary', 'Final'