

# Power Query Connection Guide

Connect your Excel dashboard to the Certify Intel API for live data.

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## Prerequisites

1. Backend server running at <http://localhost:8000>
  2. Excel 2016 or later (with Power Query)
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## Option 1: Connect via JSON API (Recommended)

### Step 1: Open Power Query

1. Open Excel
2. Go to Data tab → Get Data → From Other Sources → From Web

### Step 2: Enter API URL

Enter this URL:

```
http://localhost:8000/api/export/json
```

Click **OK**.

### Step 3: Transform Data

1. Power Query will show the JSON response
2. Click on **competitors** to expand the record
3. Click **To Table** to convert to table
4. Click the expand icon (double arrows) on the column header
5. Select all columns you want → **OK**

### Step 4: Load to Excel

1. Click **Close & Load**
2. Data will load into a new sheet

### Step 5: Set Up Refresh

1. Right-click the table
  2. Select **Properties**
  3. Check **Refresh every X minutes**
  4. Or click **Refresh All** in the Data tab to manually refresh
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## Option 2: Direct Excel Export

### Download Latest Excel

1. Open browser
  2. Go to: <http://localhost:8000/api/export/excel>
  3. Excel file downloads automatically
  4. Open and copy data to your dashboard
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## Power Query M Code (Advanced)

Paste this into a blank query to connect:

```

let
    Source = Json.Document(Web.Contents("http://localhost:8000/api/export/json")),
    competitors = Source[competitors],
    ToTable = Table.FromList(competitors, Splitter.SplitByNothing(), null, null, ExtraValues.Error),
    ExpandColumns = Table.ExpandRecordColumn(ToTable, "Column1", {
        "name", "website", "status", "threat_level", "last_updated",
        "pricing_model", "base_price", "price_unit",
        "product_categories", "key_features", "integration_partners", "certifications",
        "target_segments", "customer_size_focus", "geographic_focus",
        "customer_count", "key_customers", "g2_rating",
        "employee_count", "year_founded", "headquarters",
        "funding_total", "latest_round", "pe_vc_backers",
        "website_traffic", "social_following", "recent_launches", "news_mentions"
    })
in
    ExpandColumns

```

## To Use This Code

1. Data → Get Data → From Other Sources → Blank Query
2. Click **Advanced Editor**
3. Paste the code above
4. Click **Done**
5. Click **Close & Load**

## API Endpoints Reference

Endpoint	Description
/api/export/json	JSON data for Power Query
/api/export/excel	Download Excel file directly
/api/competitors	List all competitors (JSON)
/api/dashboard/stats	Summary statistics

## Troubleshooting

### "Unable to connect"

- Make sure the backend server is running
- Check the URL is correct: <http://localhost:8000>

### "Access denied"

- The API allows all origins by default
- Check if a firewall is blocking port 8000

### Data not refreshing

- Click **Refresh All** in the Data tab
- Or set up automatic refresh in query properties

## Running the Backend Server

```

cd C:\Users\conno\Downloads\Certify_Health_Intelv1\backend
python -m uvicorn main:app --reload --port 8000

```

The server must be running for Power Query to connect.