

# Smart Waste Management System for Metropolitan Cities

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### Node-Red

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL `127.0.0.1:1880/#flow/296787f05a2c6435`. The interface includes a left sidebar with a 'filter nodes' search bar and two categories of nodes: 'common' and 'function'. The 'common' category contains nodes like inject, debug, complete, catch, status, link in, link call, link out, and comment. The 'function' category contains function, switch, change, and range nodes. The main workspace, titled 'Flow 1', shows a flow with two nodes: an 'IBM IoT' node (blue) and a 'debug 1' node (green). The 'IBM IoT' node has a 'connected' status indicator. The 'debug 1' node is connected to the 'IBM IoT' node. On the right side, there is a 'debug' console showing a list of messages. The messages are JSON objects containing sensor data and a 'Normal Distance' value. The messages are as follows:

- `{ Normal Distance: 54.94 }`
- `{ Normal Distance: 54.94 }`
- `{ Normal Distance: 60.94 }`
- `{ Normal Distance: 67.97 }`
- `{ Normal Distance: 94.96 }`
- `{ Alert distance: 108.97 }`

The bottom of the image shows the Windows taskbar with the search bar and several application icons. The system clock in the bottom right corner indicates the time is 09:34 AM on 11/1/2022.