Local ZCB Case Study: AMBR
CaGBC Accelerating to Zero
March 28, 2019
WE ARE PASSIONATE ABOUT DESIGN
WE BELIEVE IT CAN AND SHOULD MEANINGFULLY IMPROVE THE WELLBEING OF OUR COMMUNITIES AND THE ENVIRONMENT WE ALL SHARE
A Story of Metamorphosis
Existing Building
<table>
<thead>
<tr>
<th>AMBR – By the Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>GFA</td>
</tr>
<tr>
<td># of Floors</td>
</tr>
<tr>
<td>Year(s) of Construction</td>
</tr>
<tr>
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<tr>
<td>Anticipated Occupancy</td>
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<tr>
<td>Target GHG Reduction</td>
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</tbody>
</table>
WIDTH
Constrained Site
WIDTH
Constrained Site
WIDTH
Solar Availability
 WIDTH
Façade Concept

1. Maximum Sunlight Here

2. Access from Yonge St / Service Canada

3. Connection Across Façade
   Opportunities for Interconnected Stairs (Active Design)

4. Stepped façade speaks of the building transitioning towards a visibly sustainable government building

5. 55 St Clair Materiality and glazing to provide visibility as two buildings

6. 25 St Clair
WIDTH
Window to Wall Ratio
HEIGHT

H

W

D
HEIGHT
HVAC Systems - Underfloor Air Distribution
HEIGHT
HVAC Systems - Overhead Air Distribution
HEIGHT
HVAC Systems - Vertical Air Distribution
HEIGHT

HVAC Systems – Neighbourhood Module
HEIGHT
HVAC Systems - Vertical Air Distribution
DEPTH

H

W

D
DEPTH
Geo-Exchange Bore Field
DEPTH
Geo-Exchange Bore Field
DEPTH
Hybrid Cooling System Schematic
DEPTH
Hybrid Cooling System Schematic
DEPTH

Hybrid Cooling System Schematic
DEPTH
Hybrid Cooling System Schematic
THANK YOU!