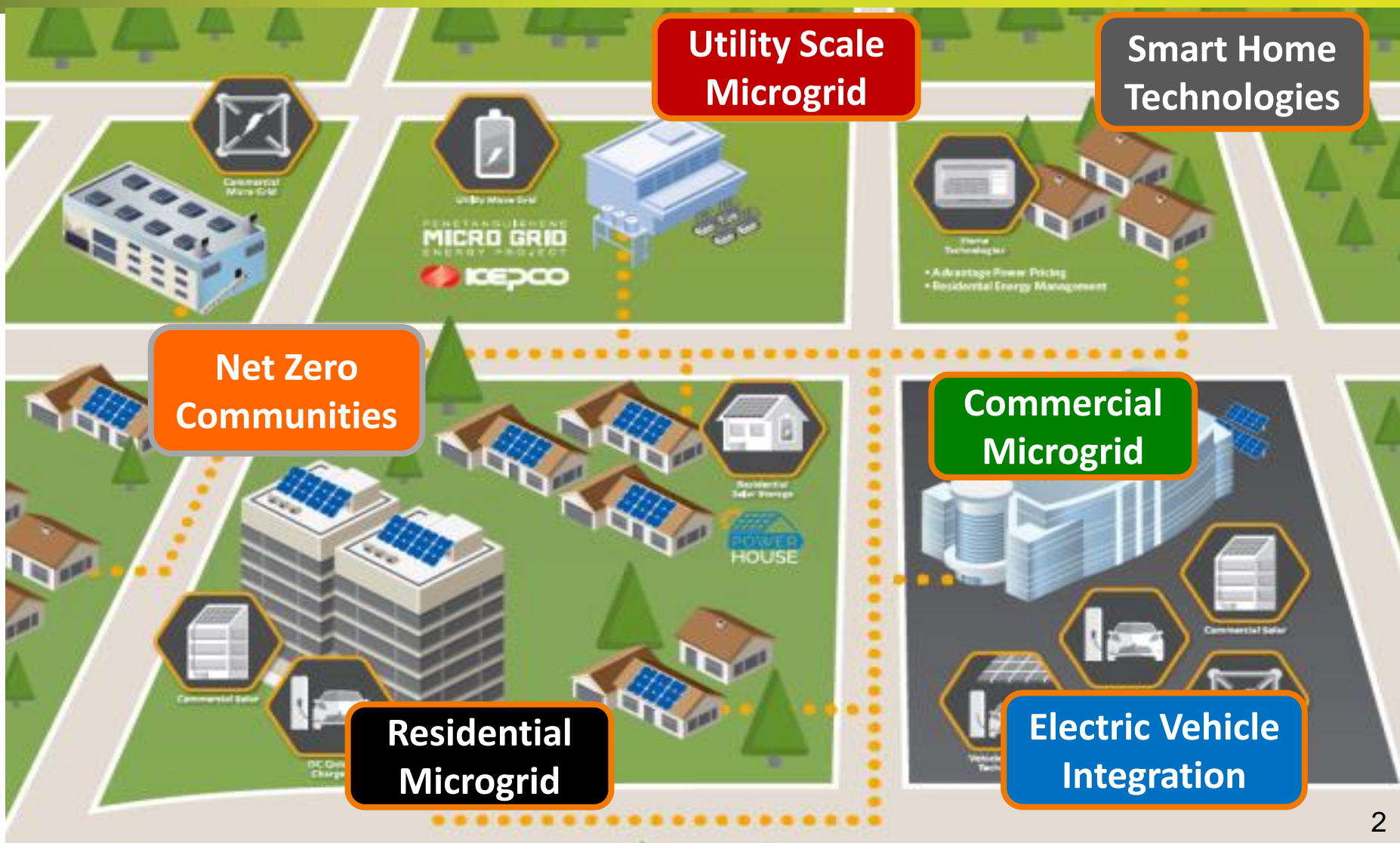

Supporting Community Energy Planning

May 12, 2017

Neetika Sathe, Director Emerging Technologies




Innovative Community Energy Solutions Deployments at the Grid Edge



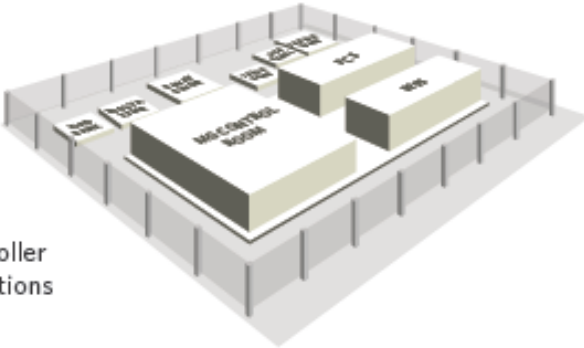
PENETANGUSHENE MICROGRID - Utility Scale

Welcome to PowerStream and KEPCO Penetanguishene Microgrid



Key Features:

- Interconnected to feeder F1 out of Robert Street MS
- 750kVA Power Conversion System (PCS)
- 500kWh Lithium Ion, Samsung batteries
- Autonomous Microgrid Controller
- Distribution Automation Functions



PowerStream **KEPCO** **KEPCO KDN** **BI TEK**

- 750 kVA/500 kWh battery at municipal substation on a feeder
- Provide both power and energy services (voltage, power quality, outage management, price arbitrage)
- Demonstrate advanced grid automation
- Connected to PowerStream Control Centre

MICROGRID - Residential Scale

POWER.HOUSE



SAVE
Money

PROTECT
Against Outages

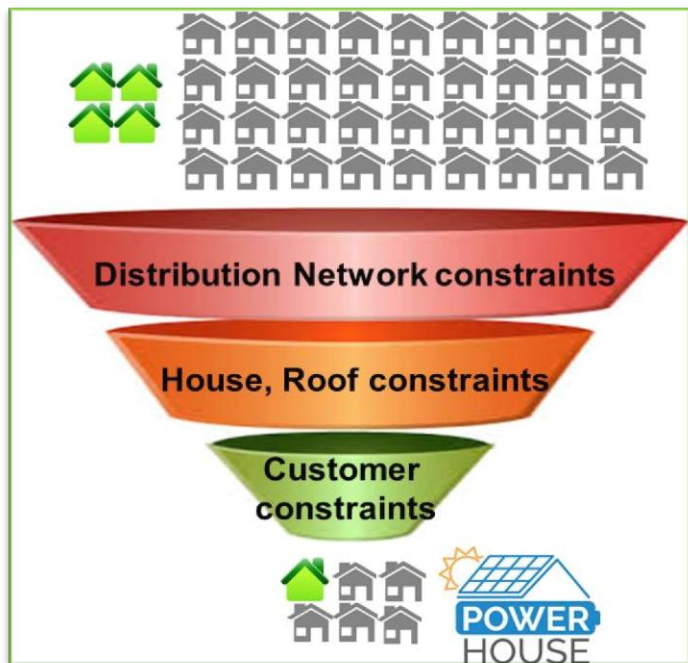
GENERATE
Your Own Power



Power Stream

MICROGRID - Residential Scale

POWER.HOUSE Feasibility Study



- In partnership with IESO
- Specific to York Region- Markham, Richmond Hill and Vaughan
- Report released Tuesday, April 18, 2017

**POWER.HOUSE Feasibility Study
(PowerStream, IESO)**