Electric Homes New Construction (EHNC)

✓ Objective:

- Influence an emerging opportunity to build demand for high performance all-electric homes
- Layer benefits of energy efficiency, demand response, innovative rate structures, EV, PV
- Generate data to inform policy discussions around electrification as decarbonization strategy
- Goal: Cost effective program in 3 years (10, 35, 70 homes respectively 2020 2022)
- ✓ Elec Home Construction Benefits:
 - Average electric savings ~8,600 kWh/year (compared to an all-electric baseline home)
 - Achieve net zero energy capability with addition of PV
 - Improved comfort: less temperature variability, lower humidity
 - Comparable construction + operating cost as gas-heated homes, and lower cost if participating in Hourly Pricing
 - Lower carbon footprint than high performance gas-heated homes, with increasing benefits over time as generation shifts toward lower-carbon sources

EHNC Pilot Details

REQUIREMENTS

- Electric space heat, DHW & clothes dryer
- Air tightness <2.5 AHC@50
- ASHP 17.8 SEER, 11.0 HSPF
- HPWH 3.45 UEF
- ENERGY STAR® certified lighting
- ENERGY STAR® appliances
- ENERGY STAR® smart t-stats
- Low-flow fixtures
- Comfort/IAQ requirements
- = \$2,000 per home

Energy Efficiency Program

ComEd

RECOMMENDATIONS

- Induction range cooktop
- PV ready <u>ComEd.com/solar</u>
- EV ready <u>ComEd.com/EV</u>
- Battery storage ready
- ComEd hourly pricing, peak time savings, MyAccount, etc.

EHNC Marketing Materials

	Valid through December 31, 2020
omEd.	
Energy Emclency Program	
OVERVIEW	
ELECTRIC HOMES	
NEW CONSTRUCTION	
Make the jump to high-quality, next-generation, electric homes.	1 1 12-46
Reduce energy bills while providing superior comfort. Prepare for a clean, resilient energy future. No gas connection required.	1 Sall
Puildor of non-construction single family homes duplayer temploynes	
and 2-4 flats are eligible to receive \$2,000 per home ¹ in financial incentives for achievine best practice enerve efficiency.	
HERE'S HOW:	
PRE-APPLY to confirm project eligibility. See Application	
BUILD to meet the program's energy of ficiency requirements including envelope, all-electric HVAC, heat pump water heating.	PRE- APPLY
lighting and appliances.	For more information visit
ELEARN about additional clean energy strategies — solar power, electric vehicle charging, smart homes and induction cooking.	ComEd.com/ElectricHomes
VERIFY construction quality using a qualified home energy rater.	or email BustnessEE@ComEd.com
confirm achievement.	
BRECEIVE \$2,000 Incentive per home. ¹	
1 Limited is \$10,000 per bullder in 2020. Howed on availability of funds. Pro-apply and consult a program representative for more infirst	ation.
Terms and conditions apply. Offers are subject to change.	powering lives
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ComEd. Energy Efficiency Program

EHNC Insight & Strategy

- Current market for high performance electric homes in ComEd territory is only ~30 homes per year
 - 2019 pilot research showed high performance electric homes can narrowly be the most economical choice overall, compared to gas homes
- Interviews suggest value proposition for these homes includes a range of benefits:
 - Comfort, health, environment, safety, resilience, no gas connection, total cost, future-proofing
- To convince "fast-followers," we will have to address a variety of technical questions/concerns
 - · Incorporating heat pump water heaters inside homes
 - Air source heat pump performance in very cold weather
 - Lack of contractor familiarity
 - Requirements to achieve air tightness requirement
 - 2020 to-date progress (commitments):
 - 2 townhomes— Forest Park / builder-led
 - 3-flat— Pilsen / small developer-led
 - 2-6 Accessory Dwelling Units— Evanston / design/build-led
 - 2-4 single-family homes Evanston, Oak Park / architect-led

ComEd. Energy Efficiency Program