ADUs, Energy Efficiency, Conservation and Waste Prevention

How DEQ Helped Kick off the ADU Movement in Oregon

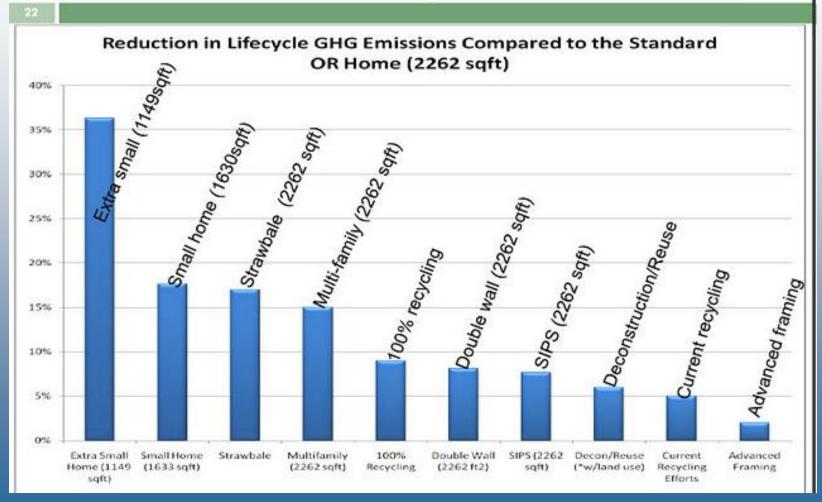
Presenter: Kol Peterson

Author of Backdoor Revolution: The Definitive Guide to ADU Development

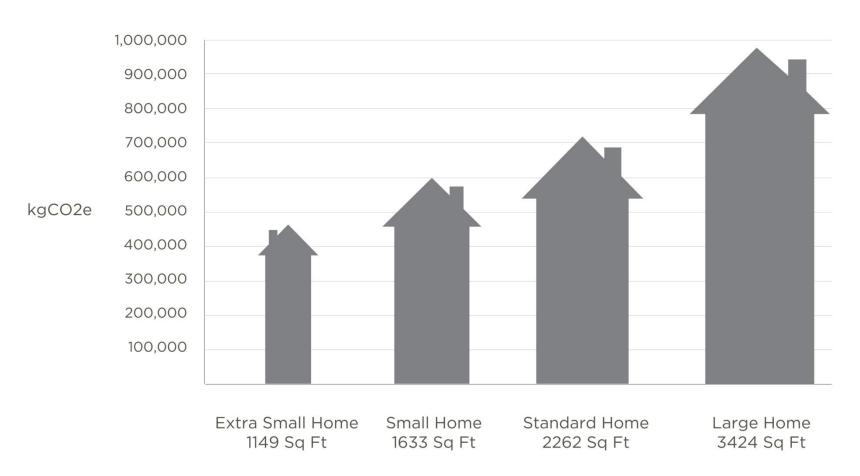
BuildinganADU.com

Practices evaluated against the Standard Oregon home



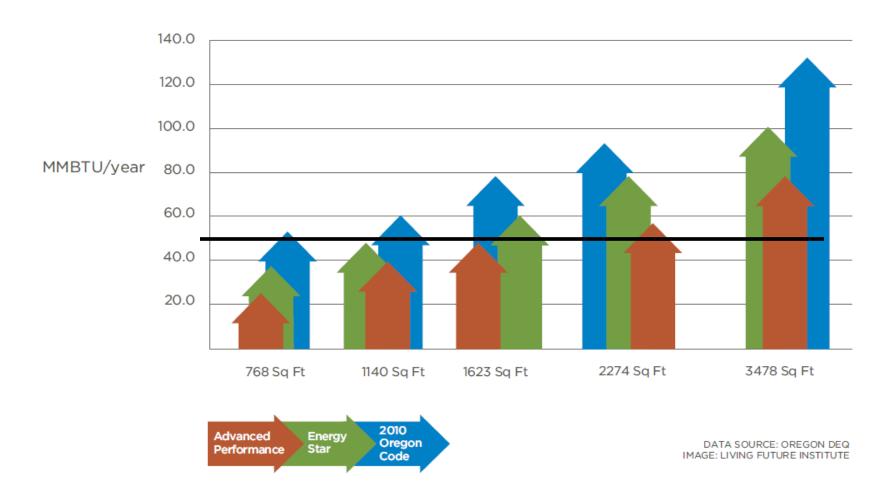


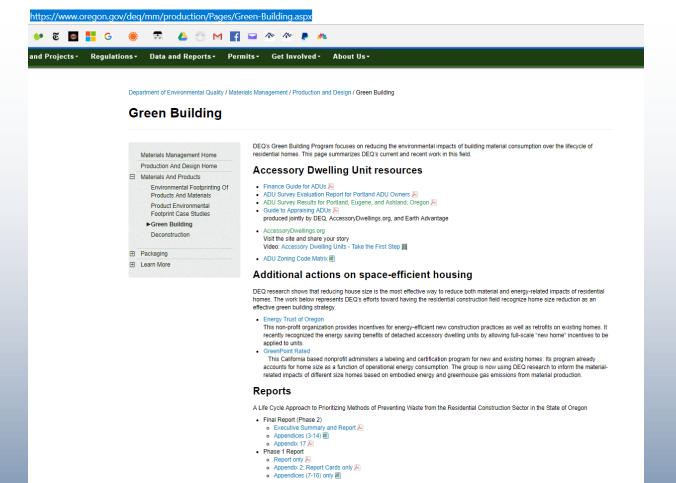
LIFECYCLE GHG EMISSIONS



DATA SOURCE: OREGON DEQ IMAGE: LIVING FUTURE INSTITUTE

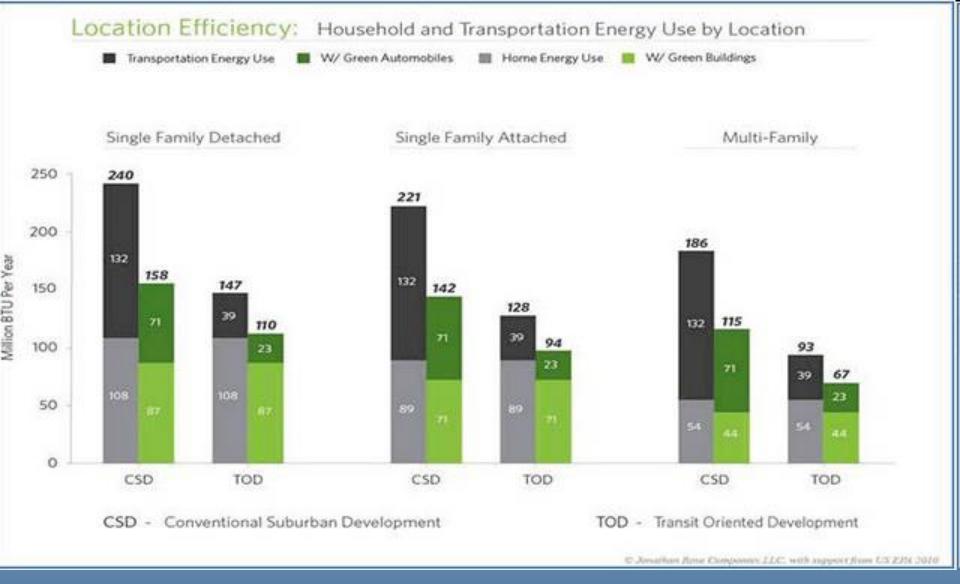
ANNUAL ENERGY USE





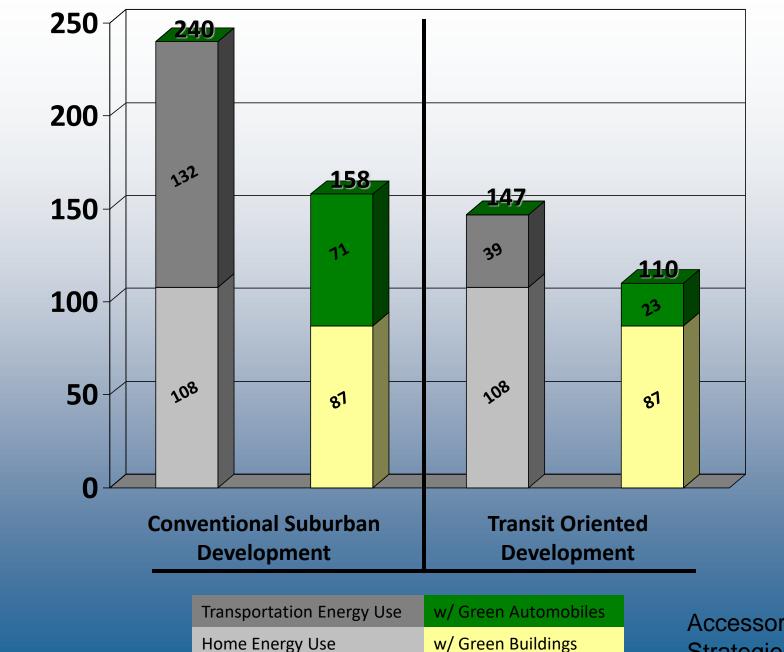
Oregon DEQ Report

https://www.oregon.gov/deq/mm/production/Pages/Green-Building.aspx



www.epa.gov/smartgrowth/location_efficiency_BTU.htm

Energy Use for a Resident of a Single Family Detached House

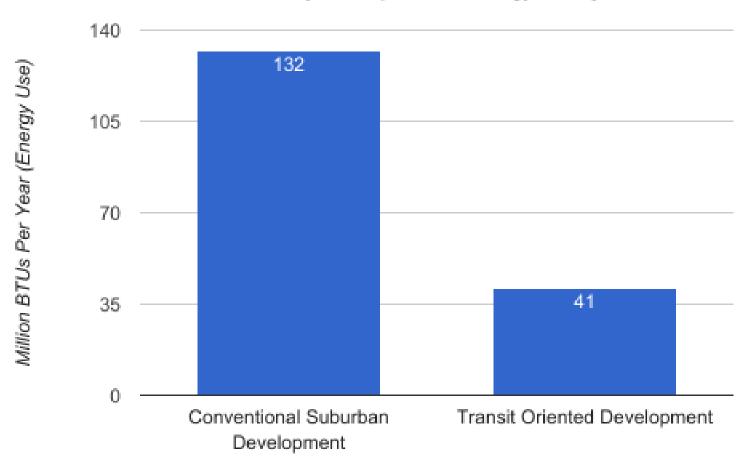


Million BTU Per Year

www.epa.gov/smartgrowth/location_efficiency_BTU.htm

Accessory Dwelling Strategies LLC

Location Efficiency: Transportation Energy Use by Location



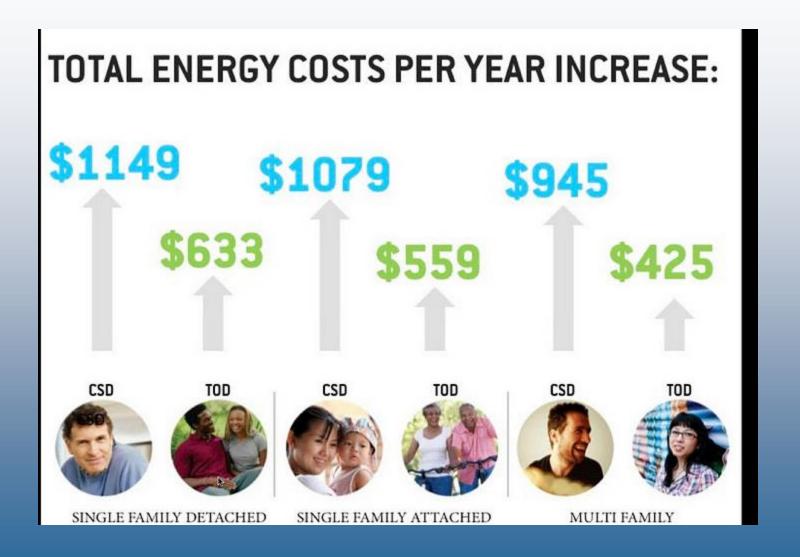
Single Family Homes

Location Efficiency and Housing Type Boiling it Down to BTUs

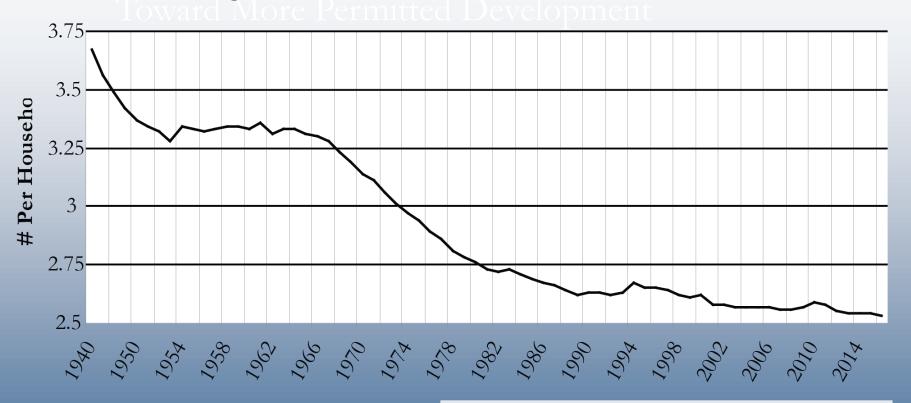
https://www.epa.gov/sites/production/files/2014-03/documents/location_efficiency_btu.pdf

Accessory Dwelling Strategies LLC

Energy use depends mostly on where you live



Change In Household Size from 1940 to 2016

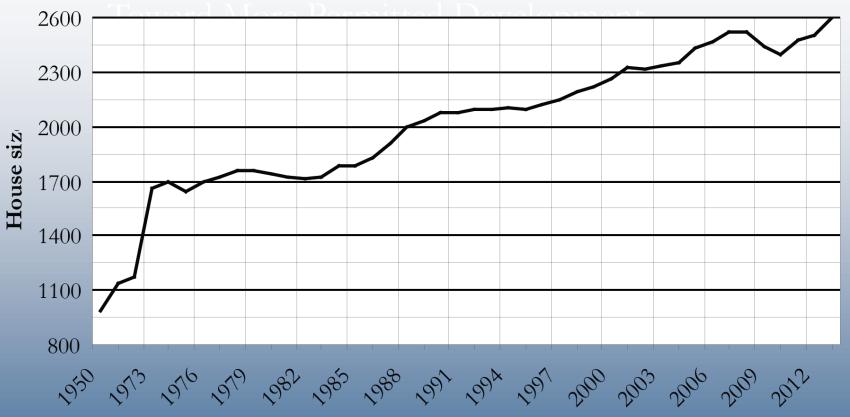


BACKDOOR REVOLUTION

The Definitive Guide to ADU Development

Building A anADU.com



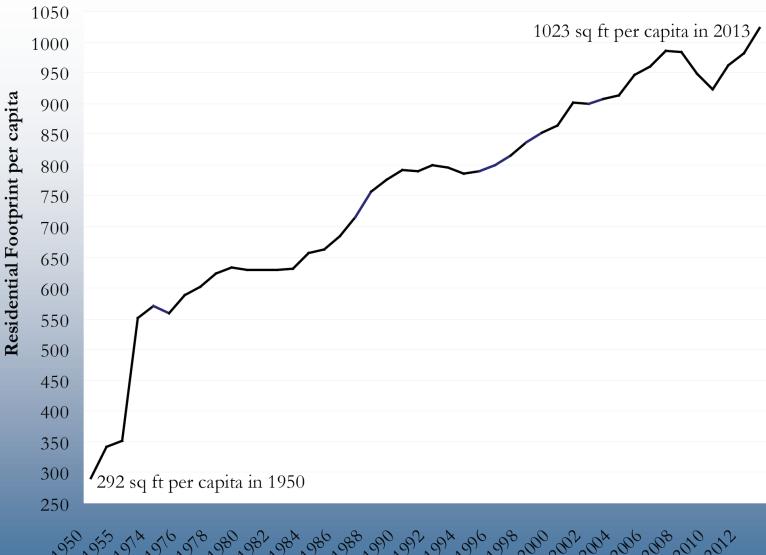


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Residential Footprint Per capita from 1950 to 2013



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"Over the last seven years, I've witnessed Kol's leadership in the small house movement first-hand, from starting the first tiny house hotel, to educating thousands of homeowners on how to develop ADUs, to his advocacy work on small housing policy."

—DEE WILLIAMS, author of *The Big Tiny*

BACKDOOR REVOLUTION

The Definitive Guide to ADU Development

KOL PETERSON

"Backdoor Revolution is an A–Z manual on how to create ADUs, written by one of the most passionate, knowledgeable and experienced people in this burgeoning movement. Kol leads the reader through the challenges of permitting, financing and building ADUs, and lays out the opportunities for bringing this grassroots phenomenon into a viable housing option."

-ROSS CHAPIN, author of Pocket Neighborhoods

ACCESSORY DWELLING UNITS are a form of residential infill housing that are poised to revolutionize housing in the U.S. Unlike other urban development trends, this one is being driven by homeowners, not professional developers.

Through case studies, expert interviews, first-hand anecdotes, images, and data analysis, *Backdoor Revolution* reveals the opportunities, challenges and best practices of ADU development for homeowners, including costs, financing, design, zoning barriers, and regulatory loopholes.

With sections written for policymakers and small housing advocates, *Backdoor Revolution* offers insightful analysis and succinct prescription for solutions to municipal and institutional barriers for ADU development.



KOL PETERSON is an ADU expert based in Portland, Oregon, who has helped catalyze the exponential growth of ADUs over the last decade through advocacy, education, consulting, and policy work. He owns Caravan - The Tiny House Hotel, organizes

Portland's popular ADU Tour, co-edits AccessoryDwellings.org, and has taught ADU classes to thousands of homeowners and realtors. Kol has a master's degree in environmental planning from Harvard's Graduate School of Design.

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BACKDOOR REVOLUTION The Definitive Guide to ADU Development Kol Peterson