



Superhomes 2030 – Scaling Up Deep Retrofit in Ireland

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[Superhomes.ie](https://www.superhomes.ie)



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CONTENT



- 1. What is Superhomes?**
- 2. Where to by 2030?**
- 3. Opportunities & Challenges**
- 4. A Vision for the Future**



Shallow = Easy Deep = Hard(er)

1,500 Shallow Retrofits by 2015

G/F to D/C BER Upgrades

Fossil fuels!

Single Measures

2015 - decision to decarbonise

Shallow to Deep

Customer Journey

Market Capacity

Superhomes is a One Stop Shop (OSS) that delivers deep retrofits of residential buildings Ireland.

It supports the home owner along the entire customer journey delivering cost optimal retrofits and comfortable and efficient.

What is a SuperHome?

A Superhome is a comfortable, warm, draught-free energy efficient home. It's a home that has all the cost effective energy retrofit measures such as insulation, air tightness and ventilation with its heat and hot water supplied by renewable energy technologies.



What are the features of a SuperHome?

- | | | |
|-----------------------------------------------------------|--------------------------------------|---------------------------|
| 1 Cavity wall, attic, full roof, external wall insulation | 3 High performance windows and doors | 5 Air Source Heat Pump |
| 2 Air tightness throughout the house | 4 Demand Control Ventilation | 6 Solar PV Panels on roof |

- Fabric First
- Air Tightness
- Ventilation (Demand Control Ventilation)
- Air Source Heat Pump
- PV
- Access to incentives (Grants, Energy Credits etc.)



Ali Sheridan & Family

“There’s a lot to take in in terms of paperwork. SuperHomes held our hand on a lot of that and gave us very clear guidelines. They were always on the end of the phone.”.



Shay And Olive Aylward

“I would highly recommend it to everybody who can get it done. Our neighbours have been calling to see the system outside and to experience what the house is like”.



Superhomes

1. Information & Support
2. Survey
3. Technical Design
4. Contractor Management
5. Quality Assurance
6. Support to access grants/incentives

Ireland Climate Action Plan



Buildings



500,000

existing homes to upgrade to 'B2' equivalent BER by 2030

600,000

heat pumps installed by 2030

(of which 400,000 will be in existing buildings)



New retrofitting delivery model,

which will group retrofits together, leverage smart finance, and ensure easy pay-back methods



Electricity

70%

Electricity generated from renewable sources by 2030



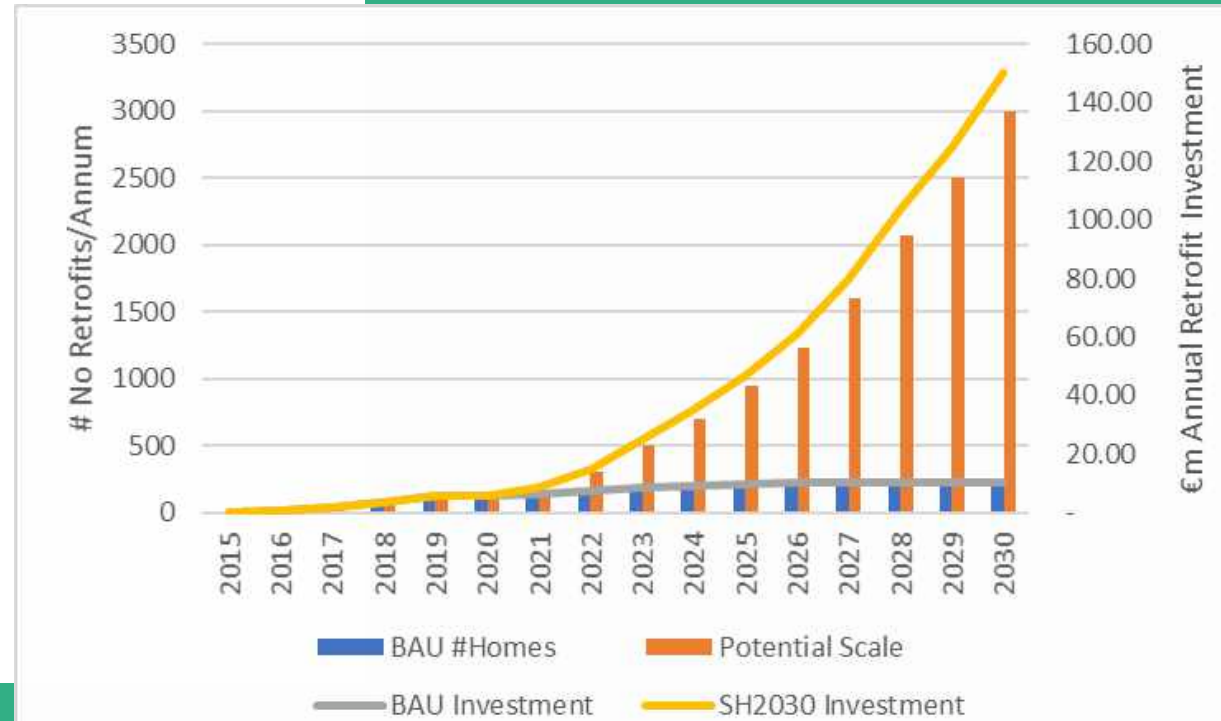
Phase-out
Coal and Peat
electricity generation

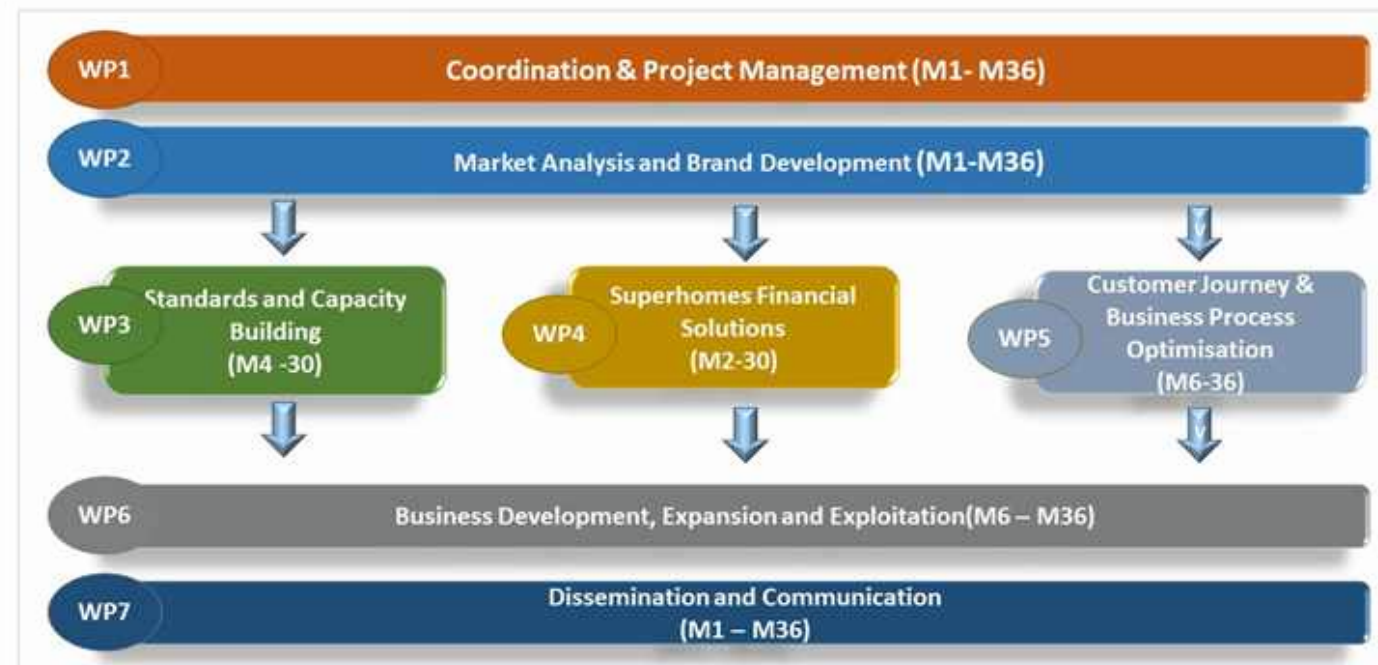
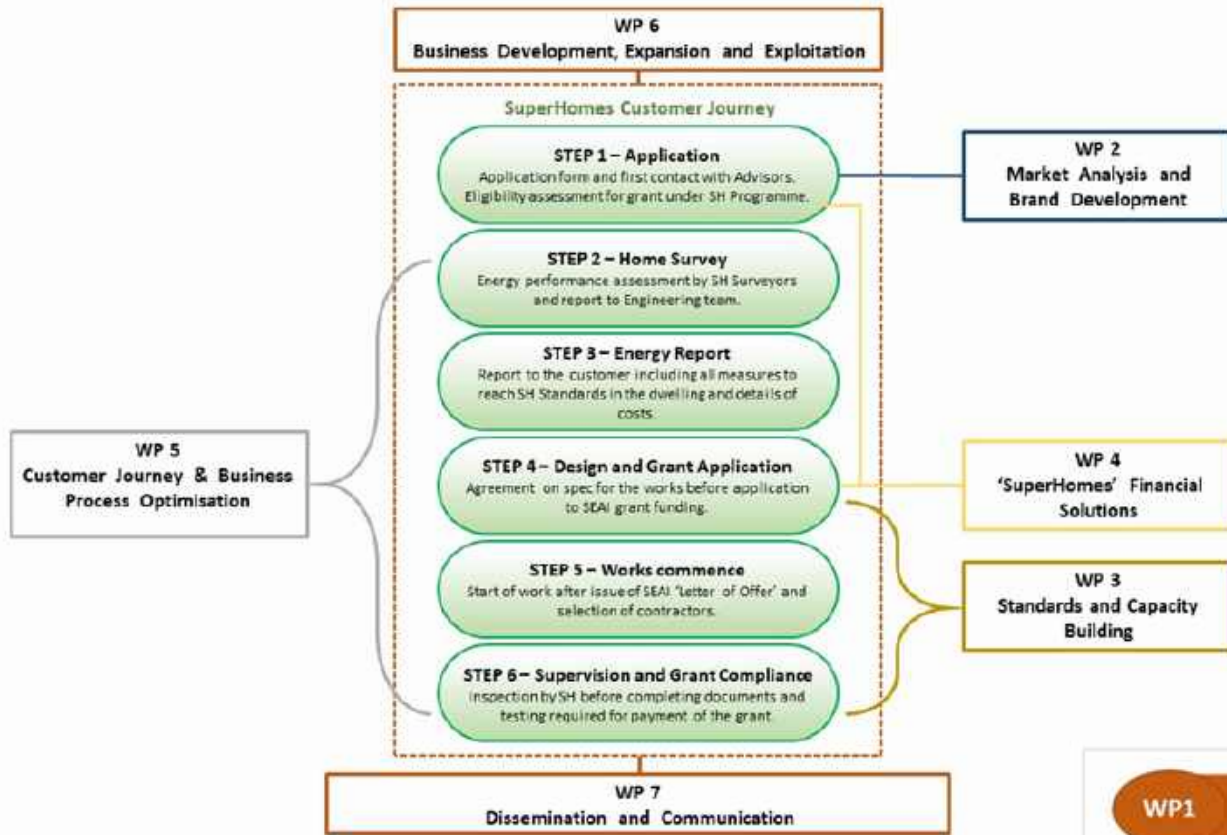


Homeowners to generate their own electricity and sell back to the grid under scheme for **micro-generation**

Where to by 2030

Scale: 3,000 homes per annum
 Contractors: 200 High Performing Contractors
 Regional Spread: 3-4 Regional OSS
 Optimised Process: 10-15% Efficiency
 Finance: Superhomes Finance Package
 Investment: €575m
 Employment: 3,000 FTE roles
 Training: 1,000 people trained







Contractors: Reducing risk for contractors to engage in deep retrofit; Experience; Employment

Driving Quality: Optimisation of HP Performance; Training; Standards

Business Processes: Efficiencies; Digitisation; Sales & Marketing

Innovation: Integrated Solutions (HP, PV, EV, Battery, Ventilation etc.); Smart Grid

Knowledge: Information; Case Studies; Data; Research

Finance: Co-creating finance solutions for deep retrofit with financial institutions

Opportunities

Challenges

Policy: "Stop Start"

Construction Sector: Capacity, Inflation, Skills

Homeowners: Trigger Points – matching their needs

Finance: Scale required for interest from financial institutions



GOAL * PLAN * SUCCESS



- OSS Single point of contact
- Regional Focus
- Retrofit Contract – 2 Pages!
- Financed through savings/low interest loans
- Integrated Smart Technology(ies)
- Air Quality; Health Metrics

ALSO



1. Superhomes2.0

<https://lit.ie/en-ie/research-development/development/energy/superhomes-2-0-optimisation-of-air-source-heat-pum>

2. HP4ALL

@heatpumps4all

3. (S.R.) 50-4:2021 - Building Services – Part 4: Heat pump systems for dwellings

<https://www.nsai.ie/about/news/public-consultation-for-the-standard-recommendation-sr-50-42021-building-s/>



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Thank you



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