

The Role of Labelling and Certification Schemes in Renovation Policy Packages- Key Lessons from Ireland

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BER Status September 2014

- Energy Performance Certificate (EPC) = Building Energy Rating (BER)
- Residential (apartments, flats and single family homes)
 - 487,161 BERs
 - 679 Experts
 - 8,438 BERs published in August 2014
- Approximately 30% of residential buildings in Ireland have BERs

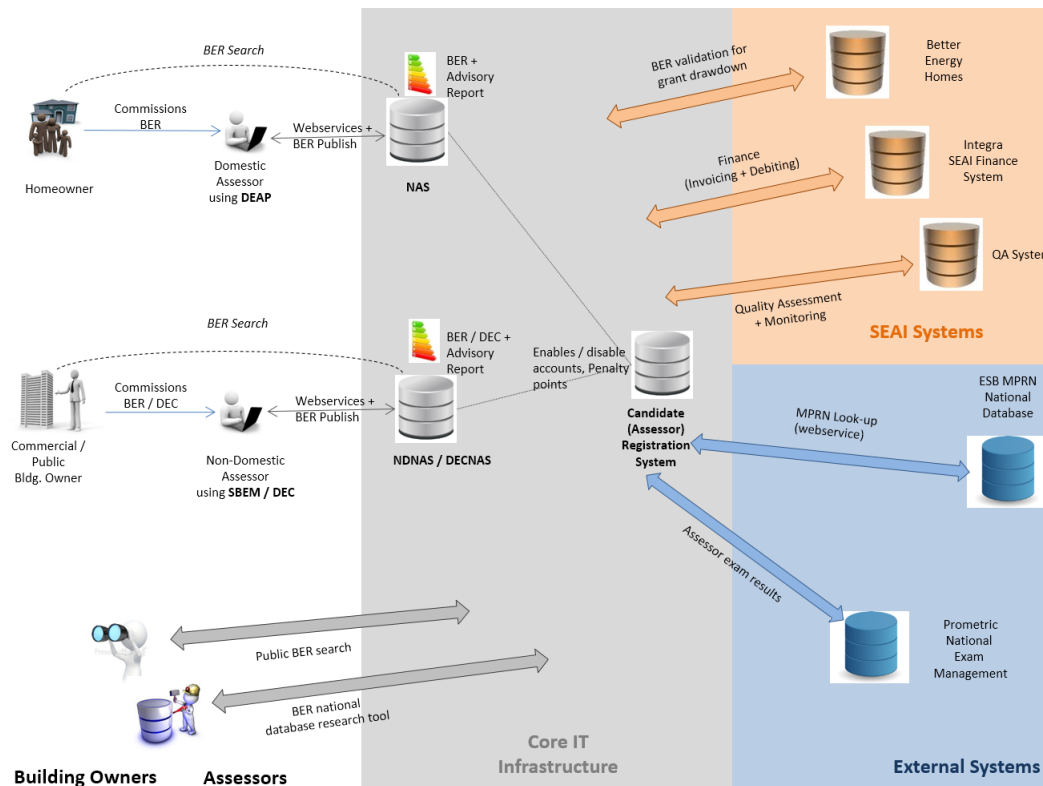
DOMESTIC BERs BY GRADE (On Public Register and Not Expired - Current)

| Energy Rating | Quantity |
|---------------|----------------|
| A1 | 8 |
| A2 | 285 |
| A3 | 3,299 |
| B1 | 6,909 |
| B2 | 16,051 |
| B3 | 36,295 |
| C1 | 52,406 |
| C2 | 61,204 |
| C3 | 63,862 |
| D1 | 65,461 |
| D2 | 58,459 |
| E1 | 33,784 |
| E2 | 26,575 |
| F | 26,447 |
| G | 36,116 |
| Total | 487,161 |



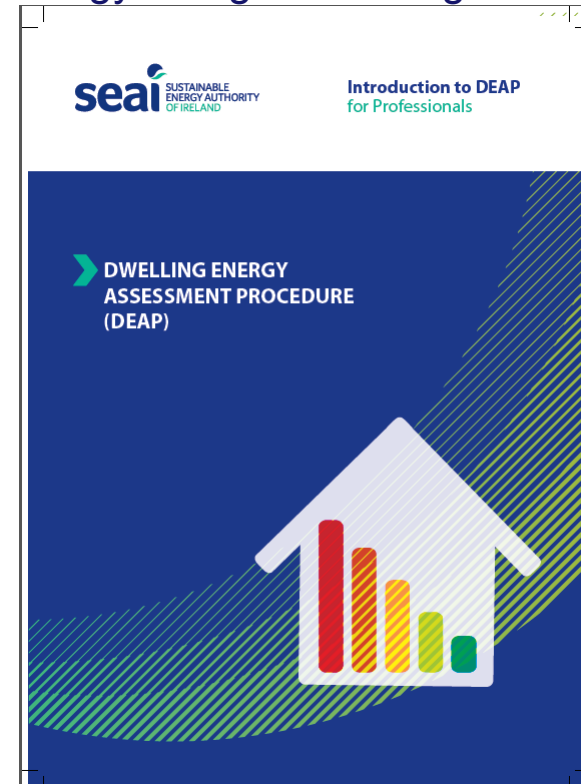
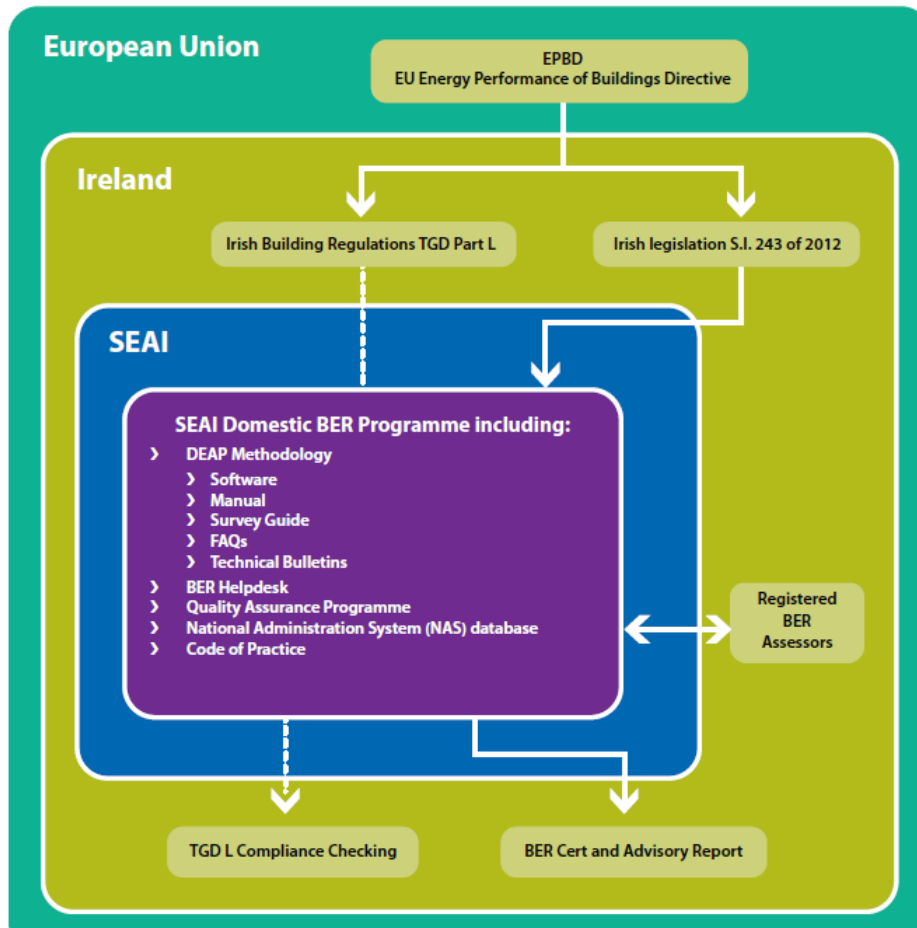
Central BER Register

- Bespoke SQL based online register of published BERs generated using Dwelling Energy Assessment Procedure (DEAP) for homes
- Self service delivery model where experts manage BER publication
- National electricity meter database web service for address confirmation
- Tracks BER publication for invoicing and debiting via SEAI's Integra finance system



Dwelling Energy Assessment Procedure (DEAP)

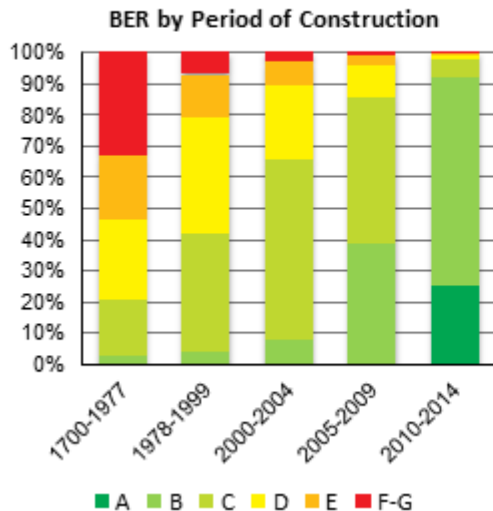
- The DEAP methodology is primarily based on the following:
 - IS EN 13790: Energy performance of buildings: calculation of energy use for space heating and cooling
 - Other relevant European and International standards as detailed in the DEAP manual
 - Standard Assessment Procedure (SAP) for energy rating of dwellings in the UK



National BER Research Tool

- Researchers have access to statistical data
- Results are viewed onscreen or downloaded for use in Microsoft Excel
- Data is automatically updated nightly
- http://www.seai.ie/Your_Building/BER/National_BER_Research_Tool/
- The Central Statistics Office combines BER statistics with other data <http://www.cso.ie/en/releasesandpublications/er/dber/domesticbuildingenergyratingsquarter22014/#.VBleNpQ72Po>

Domestic dwellings are getting larger and more energy efficient



Almost half a million dwellings (488,199) had a Building Energy Rating audit conducted between January 2009 and June 2014 (see Table 1). The energy audits show that considerable changes have occurred in the characteristics of recently built housing stock and that the type and age of dwelling are the key determinants of energy efficiency.

Revenue Neutral Model

- Self-financing model
- Revenues received from:
 - BER expert registration and annual renewal fees
 - Registration levy for each BER published
 - 2013 income €3,063,900
- Revenues used for:
 - Systems design & development - technical methodologies and software, codes of practice, rules and procedures (complaints, disciplinary etc.), finance and business process software, website, etc.
 - Ongoing support and maintenance - staffing, licenses, helpdesk, legal advice, etc.
 - Quality assurance - auditing systems and personnel, examinations
 - Marketing & promotion – advertising, industry engagement, media

BER Age Band Report

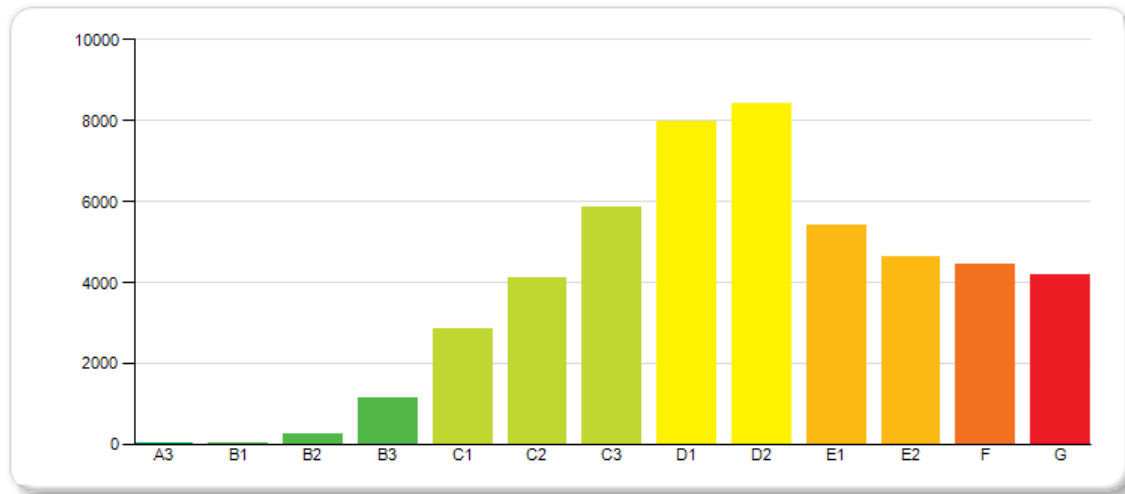
For AgeBand: A (before 1900)
B (1900-1929)
C (1930-1949)
D (1950-1966)
E (1967-1977)
F (1978-1982)
G (1983-1993)
H (1994-1999)
I (2000-2004)
J (2005 onwards)

Energy Performance of Buildings Directive (EPBD)

DOMESTIC ENERGY RATINGS OF AGE BAND

E (On Public Register and Not Expired - Current)

| Energy Rating | Quantity |
|---------------|---------------|
| A3 | 22 |
| B1 | 52 |
| B2 | 269 |
| B3 | 1,156 |
| C1 | 2,858 |
| C2 | 4,116 |
| C3 | 5,867 |
| D1 | 7,984 |
| D2 | 8,438 |
| E1 | 5,402 |
| E2 | 4,638 |
| F | 4,452 |
| G | 4,182 |
| Total | 49,436 |



Better Energy Homes Scheme

- Support homeowners in making intelligent choices to improve the energy performance of their home
- Reduce energy use, costs and greenhouse gas emissions
- Build market capacity and competence by driving contractor standards and quality
- Stimulating market innovation
- Incentive is a fixed cash grants irrespective of home size
- BER is mandatory for Better Energy Homes
- Better Energy Warmer Homes is available for fuel poor homes
- http://www.seai.ie/Grants/Better_energy_homes/About_the_Scheme

Better Energy Homes Scheme Statistics

Measures Paid (since start of scheme up to 27.07.2014)

| Measure Type | Grants Paid (Numbers) | Grants Paid (,000€) | % of Total (by value) |
|--|-----------------------|---------------------|-----------------------|
| Roof insulation | 110,695 | 25,783 | 15% |
| Cavity | 98,012 | 35,393 | 21% |
| Dry-Lining Insulation | 9,502 | 21,129 | 13% |
| External Insulation | 11,478 | 42,057 | 25% |
| Heating Controls Upgrade only | 7,183 | 3,366 | 2% |
| High Efficiency Gas boiler with Heating Controls Upgrade | 23,016 | 14,805 | 9% |
| High Efficiency Oil boiler with Heating Controls Upgrade | 14,647 | 9,725 | 6% |
| Solar Heating | 5,718 | 4,576 | 3% |
| Integral BER | 110,292 | 8,446 | 5% |
| Before/After BER | 8,367 | 1,669 | 1% |
| | 398,910 | € 166,948 | 100% |

Further Information



A Guide to
Building Energy Rating
for Homeowners



Bringing Energy Home

Understanding how people think about
energy in their homes



Better Energy Homes Scheme

Impact Report – Billing Analysis



Prepared by SEAI Energy Modelling Group

**"Householders who carry out energy-efficiency home improvements
can save up to 21 per cent of their annual energy costs."**



Thank You



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Ireland's EU Structural Funds
Programmes 2007 - 2013

Co-funded by the Irish Government
and the European Union

The Sustainable Energy Authority of Ireland is partly financed by Ireland's EU Structural Funds Programme co-funded by the Irish Government and the European Union.