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Answer given by Mr Jørgensen
on behalf of the European Commission
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The Commission acknowledges the importance of tackling integration challenges due to non-standardised interfaces and protocols. Under the Ecodesign Directive, a study¹ found significant benefits in adopting energy-smart appliances: enhancing grid stability, savings for consumers, and aiding the green transition.

However, market conditions at the time suggested that regulatory action was premature. Thus, a voluntary Code of Conduct was initiated, with eleven major heat pump and white goods manufacturers committing to develop products with common energy-smart features². Soon, details on these appliances will be listed in the European Product Registry for Energy Labelling (EPREL) database³. Efforts are ongoing to include electric vehicle (EV) chargers and photovoltaic inverters in the Code of Conduct. The Commission is also considering energy-smart information for energy labels, beginning with an icon on revised labels for space and water heaters⁴. Simultaneously, since adopting the Digitalisation of Energy Action Plan, the Commission is working on the Common European Energy Data Space, aiming to establish an EU coordination framework to improve system interoperability, supported by the Smart Energy Expert Group. This space will encourage data sharing, notably for flexibility services and smart, bi-directional EV charging.

The Commission continues to evaluate the need for regulatory actions and updates on the flexibility and benefits of energy-smart appliances.

¹ Available on CIRCABC: https://circabc.europa.eu/ui/group/1582d77c-d930-4c0d-b163-4f67e1d42f5b/library/50ecf23c-081a-42b7-bb00-f85e76fa92e7?p=1&n=10&sort=modified_DESC, with a separate report on policy options: <https://circabc.europa.eu/ui/group/1582d77c-d930-4c0d-b163-4f67e1d42f5b/library/691805b7-5b3b-4701-8f2b-e59dd9281397/details>.

² More information on the Code of Conduct for the interoperability of Energy Smart Appliances can be found here: <https://ses.jrc.ec.europa.eu/development-of-policy-proposals-for-energy-smart-appliances>.

³ <https://eprel.ec.europa.eu/screen/home>.

⁴ Revised energy labelling Regulation for space and water heaters published on Have Your Say for feedback in November 2025.