

Draft Principles for Energy Efficient Digital Networks and Network-connected Devices (Vs2)

To ensure that digital networks and network-connected devices support the minimisation of direct and induced energy consumption, the following the principles should be adopted:

Digital Networks:

- A. All network technologies should actively support power management.
- B. Connection to a network should not impede a device from power management activities.
- C. The network should be designed such that a legacy or incompatible device does not prevent the rest of the network from effective power management.
- D. Connections should have the ability to modulate their own energy use in response to the amount of the service required by the system.
- E. Terminology and concepts relating to energy management used in the design of all networks should be internationally harmonised.

Network connected devices:

- A. Devices should not impede power management activities in other connected devices.
- B. Devices should expose their own power state to the network and be able to report estimated or actual energy use.
- C. User interfaces should follow (international) energy management standard principles and designs.
- D. Devices and connections should have the ability to modulate their own energy use in response to the amount of the service required by the system.
- E. Terminology and concepts relating to energy management used in the design of all devices should be internationally harmonised.
- F. The behaviour and communication of devices relevant to energy consumption should adhere to (international) standards.

Energy Efficiency Policy:

Governments should ensure that electronic devices enter low-power modes automatically after a reasonable period when not being used.

Governments should ensure that network-connected electronic devices minimise energy consumption, with a priority placed on the establishment of industry-wide protocols for power management.

Energy efficiency efforts should not favour any particular hardware or software technology.

Energy efficiency policy should identify digital networks as a promising method for attaining energy efficiency.

Please provide comments to:

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